

# *Shining a Light on Hamelin Gold*



Photo : RC Drilling at Sultan - May 2024

5 June 2024

ASX code : HMG

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The information in this report that relates to Exploration Results is based on information compiled by Mr. Peter Bewick who is a Member of the Australasian Institute of Mining and Metallurgy. Mr. Bewick hold shares and options in Hamelin. He is a full time employee of Hamelin and has sufficient experience which is relevant to the style of mineralisation under consideration 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'. Mr Bewick consents to the inclusion in the report of the matters based on the information compiled by him, in the form and context in which it appears.

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Newmont Tanami Operations Resource estimated from Newmont 2022 Reserve Release ([www.newmont.com/investors/reports-and-filings/default](http://www.newmont.com/investors/reports-and-filings/default)) and the 'Newmont Tanami Operations AGES Paper April 2024' referred to in this presentation is Crawford A., Thebaud N., Masurel Q., Maidment D. 2024 Geology and Regional Setting of the Oberon Gold Deposit ([https://geoscience.nt.gov.au/gemis/ntgsjspui/bitstream/1/92875/3/CrawfordAGES2024\\_paper.pdf](https://geoscience.nt.gov.au/gemis/ntgsjspui/bitstream/1/92875/3/CrawfordAGES2024_paper.pdf))

This announcement has been approved for release by the Board of Hamelin.





# Hamelin Gold

## Corporate Shapshot



### BOARD and KEY MANAGEMENT



**Will Robinson**  
**Non Executive Chairman**  
*B.Comm, MAusIMM*



**Peter Bewick**  
**Managing Director**  
*B.Eng (Hons), MAusIMM*



**Justin Osborne**  
**Non Executive Director**  
*B.Sc (Hons), FAusIMM, MAICD*



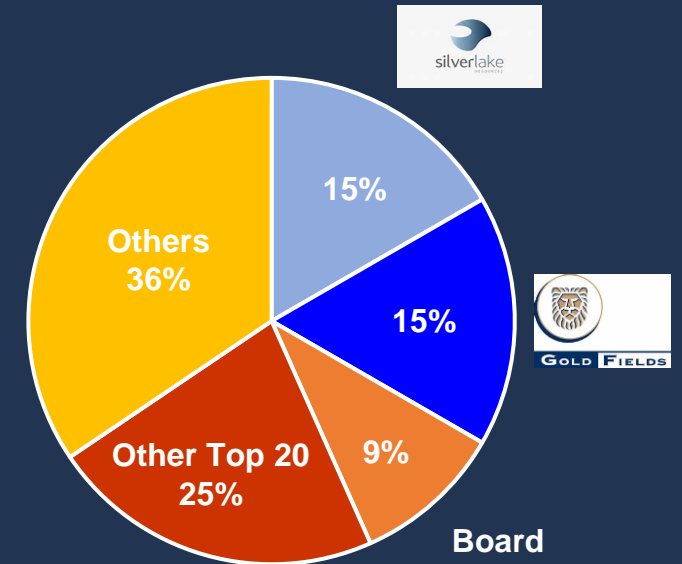
**Philip Crutchfield KC**  
**Non Executive Director**  
*B.Comm, LL.B (Hons), LL.M LSE*



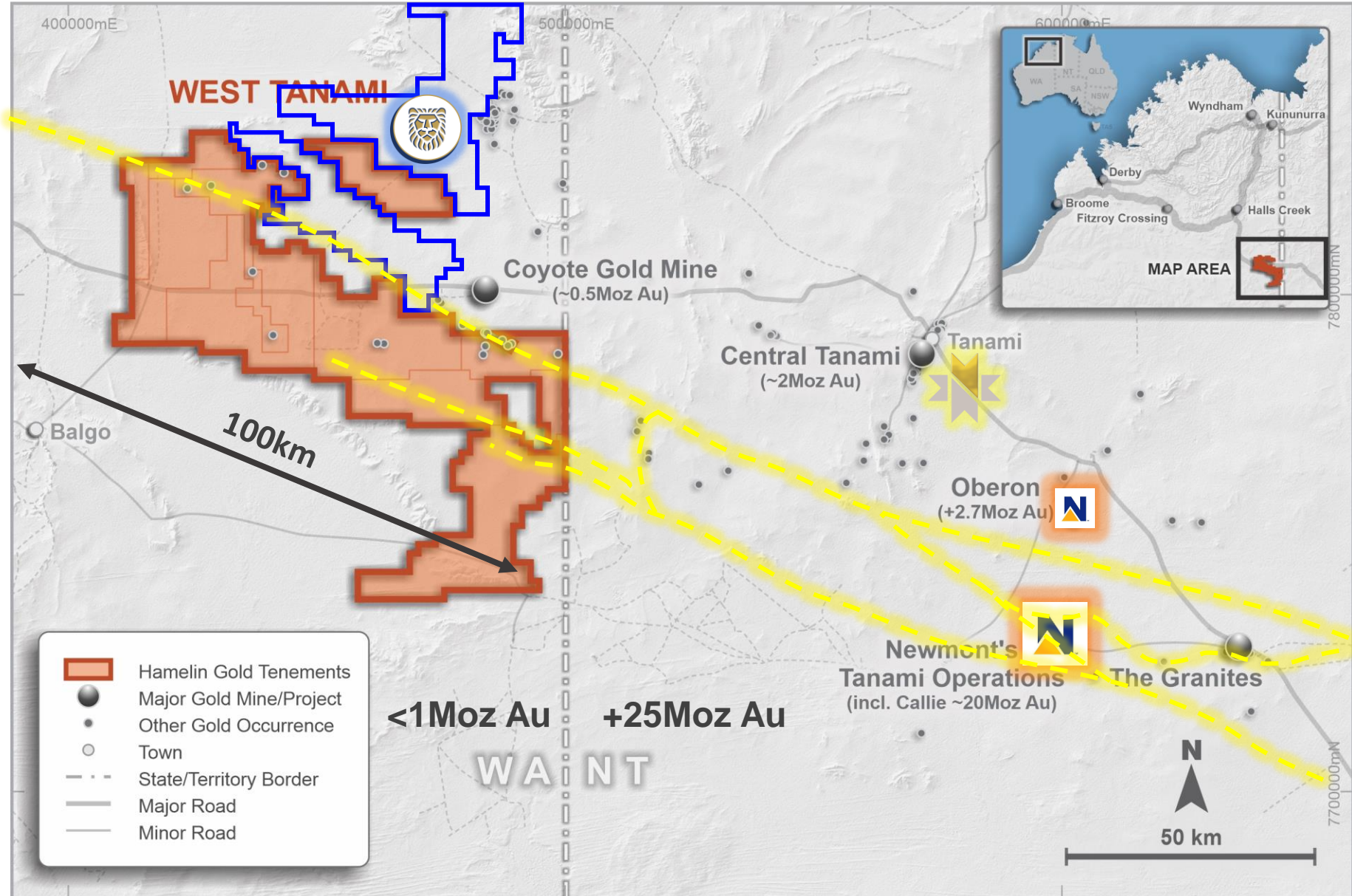
**Clayton Davys**  
**Exploration Manager**  
*B.Sc (Hons)*

### CAPITAL STRUCTURE

Shares on Issue	157.5M
Employee options	11.6M
Market capitalisation (@9.0c)	\$14.2M
Cash (31/03/2024)	\$5.2M
Enterprise value	\$9.0M



# West Tanami: 2,500km<sup>2</sup> Project in a Tier 1 Goldfield





# A New Dawn in the Tanami

Driven by new discoveries and endowment potential

## Newmont

- US\$1.7B expansion including 1.46km shaft
- Lowest cost gold production globally (AISC US\$1,060<sup>1</sup>)
- Expanding from ~500,000oz pa to +650,000oz pa
- Major new development project at Oberon +2.7Moz<sup>2</sup>

## Northern Star

- Central Tanami JV with Tanami Gold
- A\$15M 2023/24 exploration budget<sup>3</sup>

## Gold Fields

- Killi Resources JV – A\$13M earn-in
- 15% shareholding in Hamelin Gold



**TE2 Headframe – Newmont's Tanami Gold Operations**





# The Tanami : An Undercover Exploration Opportunity





# Target Generation : Prediction and Detection

*New Geophysical Datasets : Airborne  
EM, gravity and magnetics*



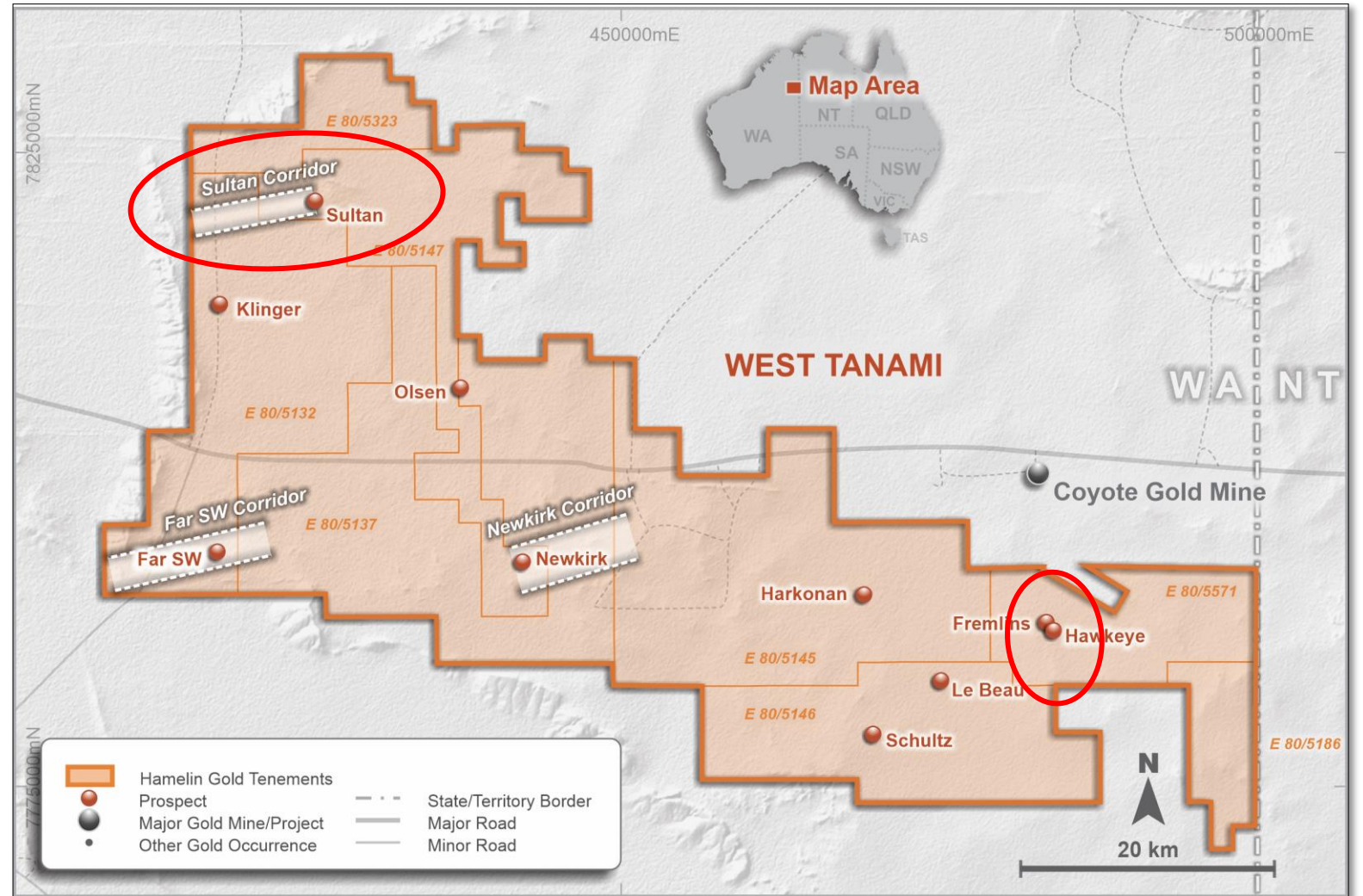
*New Geochemical Tools : CSIRO  
developed Ultrafine® soils*



# New Ideas – New Technologies

## Modern Exploration

- Sultan – application of new exploration technology in sand covered terrain – Ultrafine fraction soils (“UFF”)
- Fremlins – leaching of metals and the ineffectiveness of shallow drilling

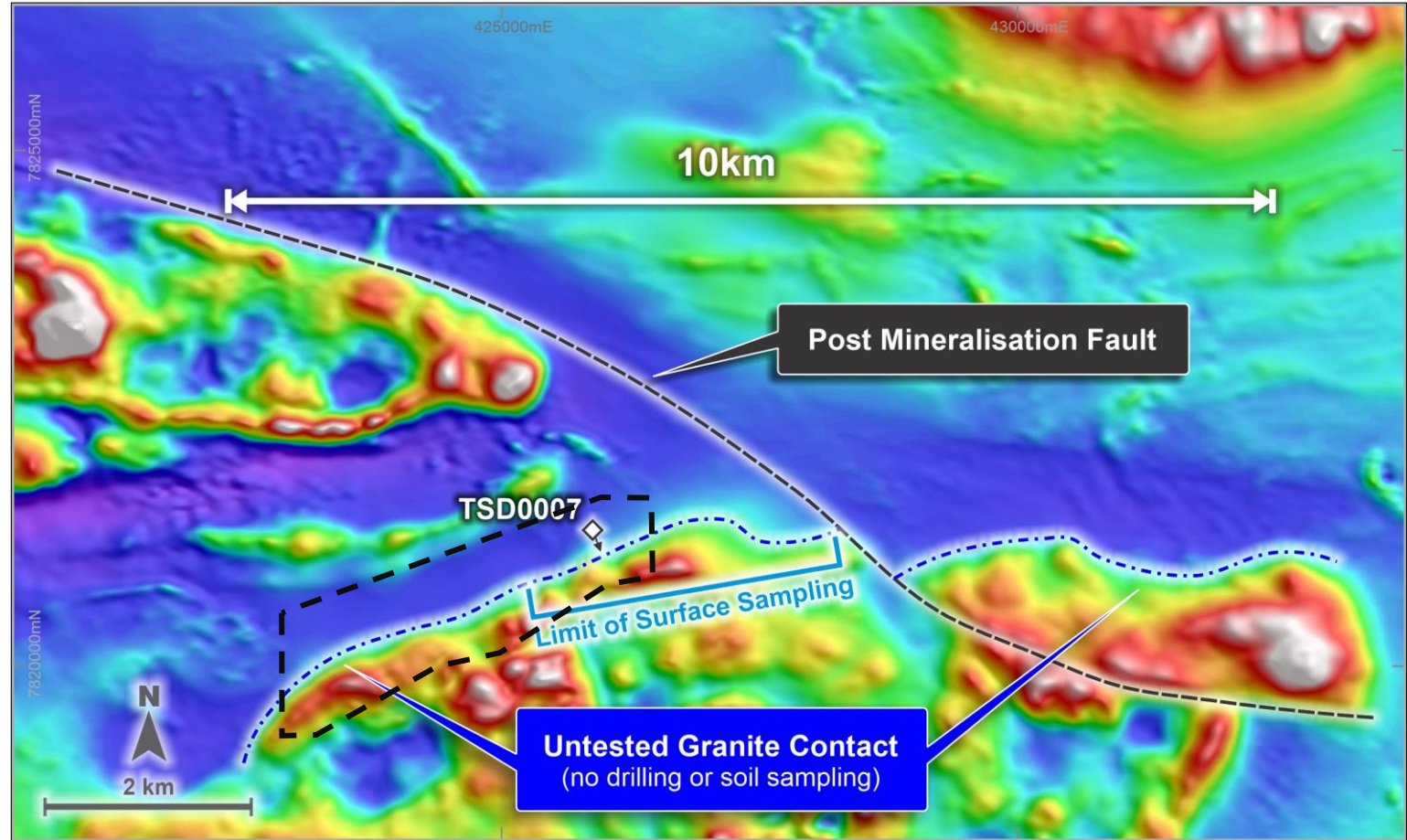


West Tanami Project – Prospect Location Map



# Sultan Gold Corridor

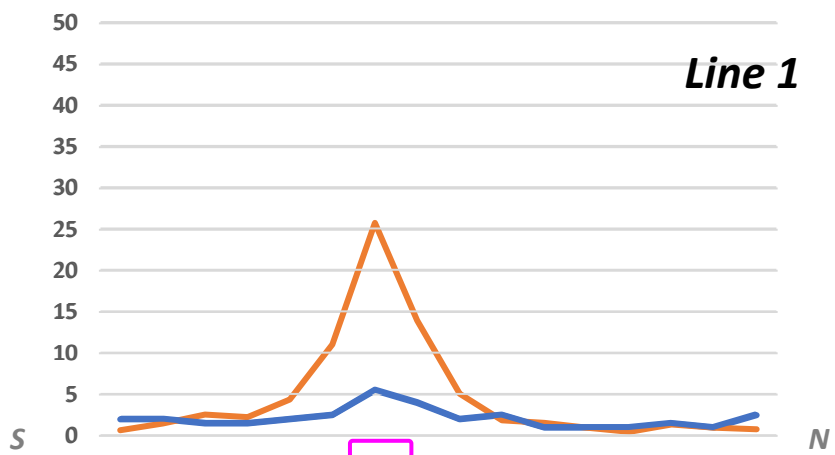
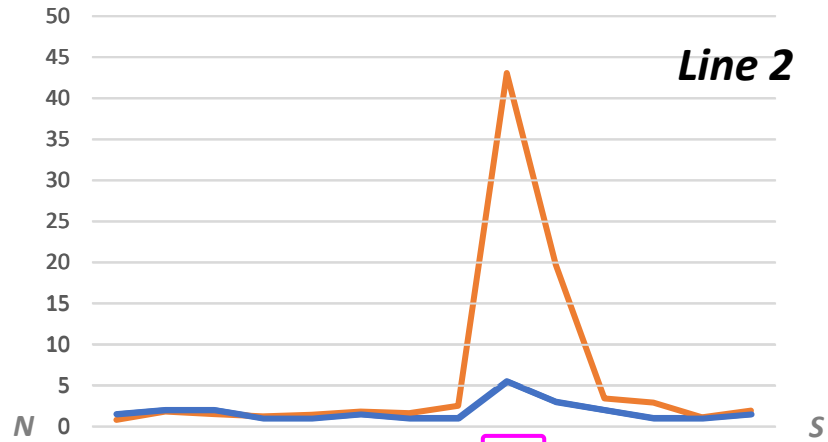
- 10km long previously unknown gold corridor
- Single drill line completed intersecting:
  - **7.6m @ 3.2g/t Au from 326.2m incl. 1.1m @ 15.9g/t Au from 329.7m<sup>1</sup> in TSD0007**
- First application of CSIRO developed Ultrafine® technology identifies two large soil anomalies



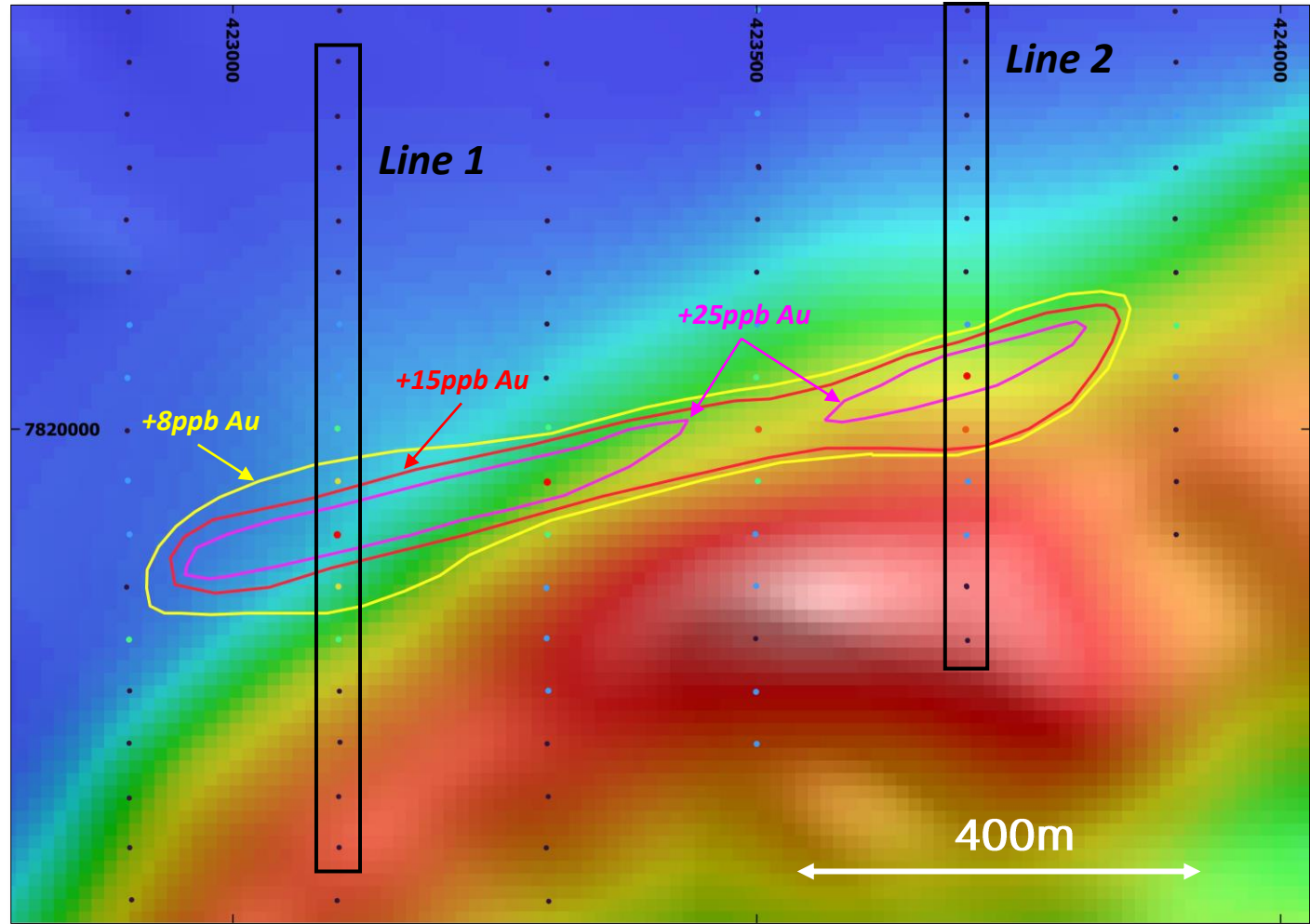
*Sultan Corridor – TSD0007 location on magnetics*

# Amplifying Gold Signatures Undercover

## Conventional Soils vs New Ultrafine® Technology



— Conventional Soils (-2mm)  
— Ultrafine®



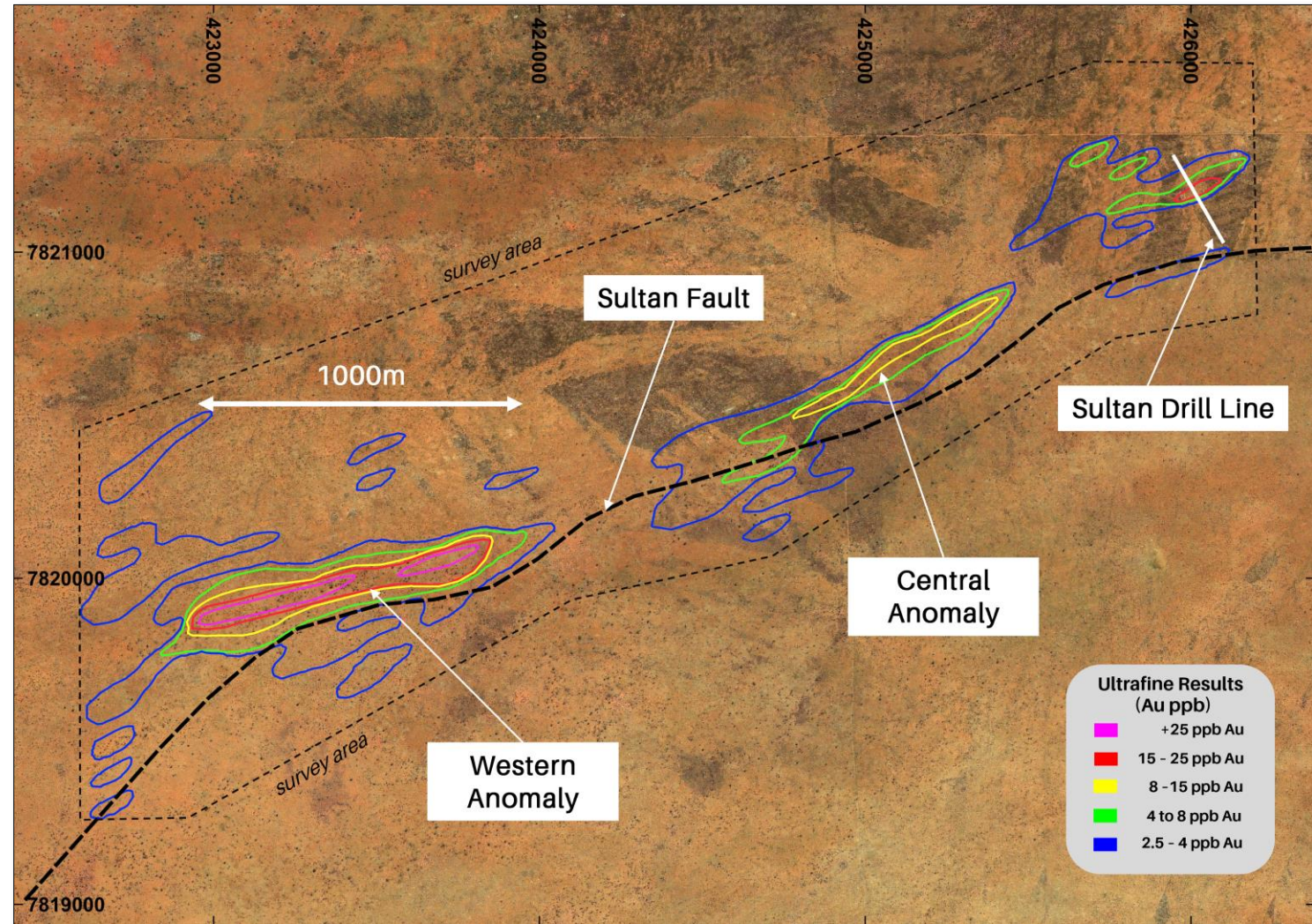
Sultan West – Ultrafine Soil Results on magnetics background





# Sultan Gold Anomalies

- Coherent, high tenor Ultrafine® gold anomalies within sand cover
- Western Anomaly is coincident with an interpreted flexure in the Sultan Fault
- Coherent bedrock gold footprint defined in aircore drilling at Sultan West - January 2024
- 3,000m RC drilling program in progress (EIS co-funded)

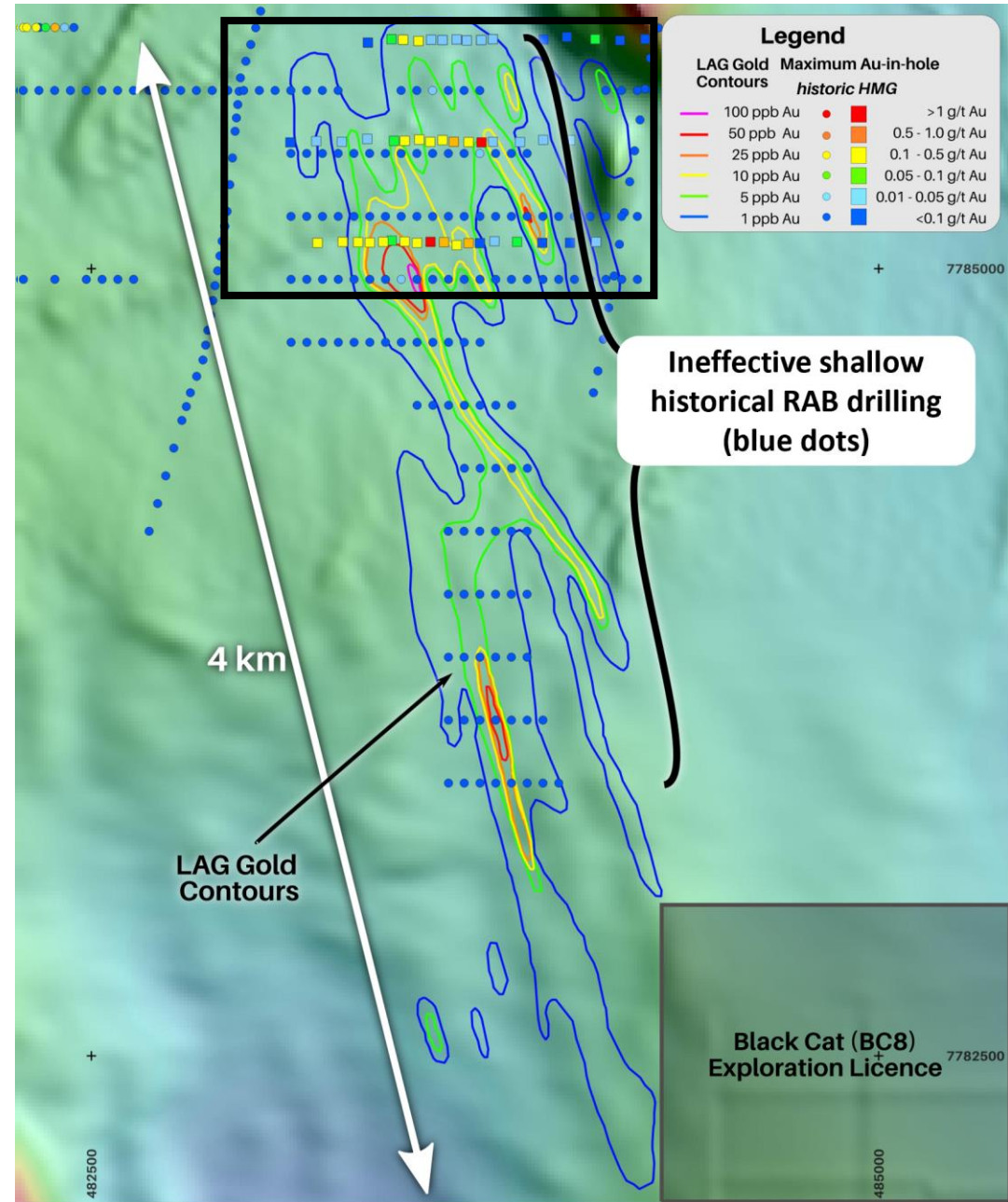


Sultan Corridor – Ultrafine Soil Results



# Fremlins Prospect

- 10 kilometre long gold system defined by geochem, shallow drilling
- Southern 4 kilometres ineffectively tested with 7 metre deep posthole RAB drilling
- Aircore drilling identified anomalism below shallow holes – January 2024
- Template for assessing similar ineffectively drilled targets across the West Tanami
- RC program commencing - June 2024



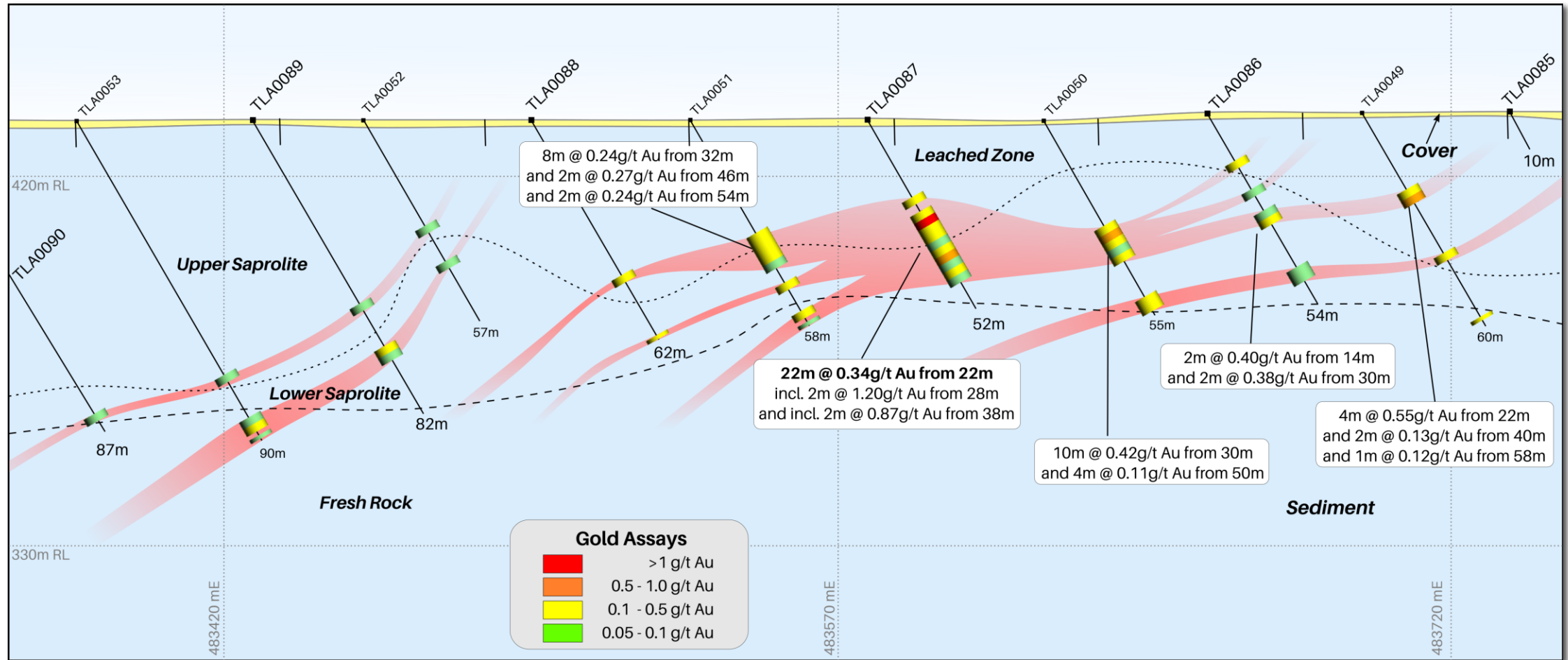
Refer ASX Announcements dated 22 January 2024

Geochemistry, max Au-in-hole on detailed TMI magnetics



# Fremlins Prospect

## Historical shallow, ineffective drilling



Fremlins South – Aircore Cross Section

# 2024 Timeline of Activities

- 3,000m RC drill program (Sultan Corridor and Fremlins) May - Jun 2024
- Geochemical (UFF) test of priority gold targets Jun – Aug 2024
- 15,000m - Aircore drill program Aug – Sep 2024
- Phase 2 RC / Diamond program Sep – Nov 2024







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