



**SIRENGOLD**  
LIMITED

# AusIMM New Zealand Critical Minerals Conference

**August 2024**

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## COMPETENT PERSONS STATEMENT - Siren

The information contained in this report relating to exploration results, exploration targets and mineral resources has been previously reported by the Company; Anvil Drilling Intersects New Mineralisation – 2 July 2024; Siren Awarded High-Grade Lyell Tenement For Further 5 Years – 4 June 2024; Siren Gold signs Marketing and Sales Agency Agreement – 21 May 2024; More Outstanding Gold Intersected at Auld Creek – 7 May 2024; Drilling Commences at Sams Creek Anvil Target – 23 April 2024; Outstanding Gold and Antimony assays from Auld Creek Project – 15 April 2024; Significant Mineralisation Intersected at Auld Creek – 26 March 2024; Significant New Drill Target at Sams Creek 22 Jan 24; Bonanza Gold and Antimony Grades Confirmed at Langdons 17 Jan 24; Siren intersects significant mineralization at Bonanza East – 14 November 2023; Siren increases resource to 1.3Moz AuEq – 21 August 2023; Drilling at Auld Creek continues to intersect a broad mineralised zone – 19 Jul 2023; High-grade visible gold in quartz reef at Big River South – 12 July 2023; Ionic Leach trial successfully detects mineralisation 500m below surface at Sams Creek – 22 June 2023; Second hole at Auld Creek Intersects Broad Mineralised Zone – 8 Jun 2023; Trenching results extend mineralisation trend at Lyell to 1km – 1 June 2023; Siren's Global Resource increases to 1.2Moz -11 May 2023; First hole at Auld Creek intersected 20.8m @ 12.0g/t AuEq – 8 May 2023; Big River Maiden Mineral Resource increases Siren to 1.1Moz – 20 April 2023; Broad mineralisation evident from Sirens first drillhole at Auld Creek – 12 April 2023; First drillhole at Auld Cree-More High-grade results at Auld Creek – 11 April 2023; High-grade Gold at United Victory Reef – Lyell - 7 March 2023; Drilling to Commence at Auld Creek – 6 March 2023; Global Resource Reaches Key 1 Moz Milestone – 30 January 2023; More high-grade Gold and Stibnite intersected at Auld Creek – 24 January 2023; Metallurgical Results on Process Plant Scoping Study Update – 20 January 2023; Granting of the Cumberland EP – 21 December 22; New high-grade Gold and Stibnite intersected at Auld Creek – 3 November 2022; Sams Creek Mineral Resource Estimate exceeds 800,000oz at higher grade – 17 November 22; New high-grade Gold and Stibnite intersected at Auld Creek – 3 November 2022; Alexander River and Big River progress – 28 October 2022; High-grade Gold intersected on 4km Soil Anomaly at Lyell – 14 October 22; Exceptional high-grade Gold & Stibnite at Auld Creek – 4 October 22; Alexander River Maiden Mineral Resource Estimate – 20 July 22; Siren Expands Exploration Strategy -20 July 22; Big River A2 Shoot extended t 200m – 11 July 22; Another High-grade intersection at Alexander River – 6 July 22; Exciting potential at Sirens Auld Creek Project – 9 Jun 22; Siren Gold Acquires Sams Creek Gold Project – 3 Jun 22; Siren Gold Pegs High Grade Langdons Reef at Reefton – 10 May 22; New 3km Gold Zone Discovered at Lyell – 4 April 22; Spectacular Siren Strike – 2.5m @ 358g/t Au – 31 Mar 22; Compelling Comparisons on Reefton and Fosterville Deposits – 25 March 22; Siren Continues to Intercept high Grade Mineralisation – 17 March 22; New 3km mineralised zone discovered at St George – 16 Feb 22; New mineralised shoot intersected at Alexander River – 16 Dec 21; Scoping Study for Process Plant at Reefton – 28 Oct 21; Siren Significantly Extends Mineralisation at Big River -19 April 21 (Announcements). The Company confirms that it is not aware of any new information or data that would materially affects the information included in the Announcements and, in the case of estimates of mineral resources, released on 20 July 2022 and 5 October 2022, that all material assumptions and technical parameters underpinning the estimates continue to apply and have not materially changed.

## Competent Person Statement – RUA

Simon Henderson CP, AUSIMM, a qualified person under National Instrument 43-101 Standards of Disclosure for Mineral Projects, has reviewed and approved the technical disclosure contained herein. Mr. Henderson has verified the data disclosed, including sampling, analytical, and test data underlying the information in the technical disclosure herein, in regard to the assets of RUA.

## Projects: Reefton and Sams Creek

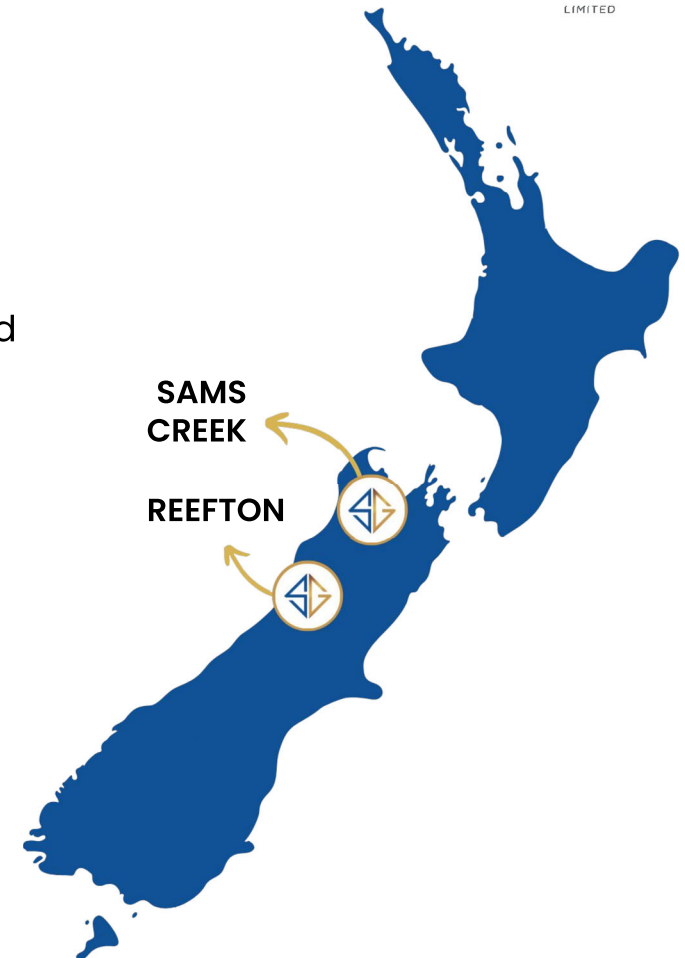
### Reefton Goldfield

- Reefton is a **large historic NZ goldfield** with previous gold production totalling **11Moz** from alluvial, open cut and 85 historic underground mines.
- Dominant **~821km<sup>2</sup>** tenement package across the Reefton Goldfield
- Siren's current MRE of **444koz @ 3.8g/t Au with 8.7kt @ 1.5% Sb**

### Sams Creek

- Joint Venture between **Siren (81.9%)** and **New Zealand's largest gold miner, OceanaGold (TSX:OGC) holding (18.1%)**
- Sams Creek very large porphyry dyke system - **7kms long & 50m wide, open at depth, outstanding exploration potential**
- Sams Creek MRE of **824koz @ 2.8g/t Au**

**Total Global Mineral Resource 1.27Moz @ 3.1g/t Au with 8.7kt @ 1.5% Sb**



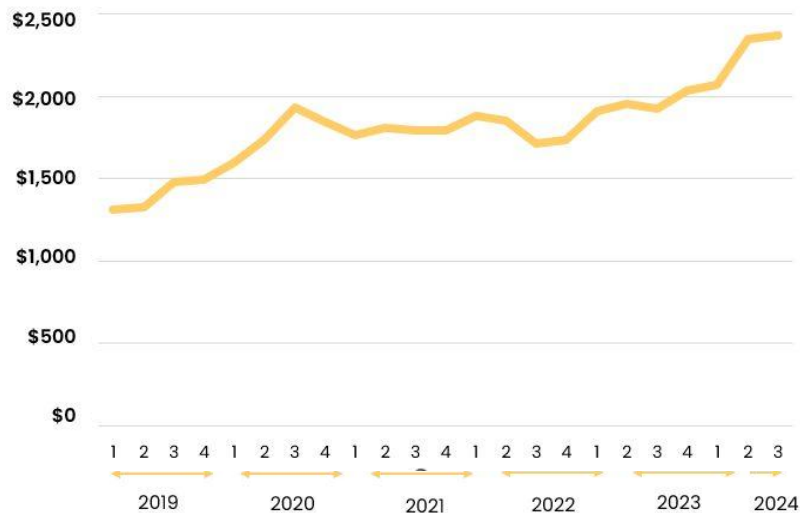
# REEFTON PROJECT

## Gold & Antimony



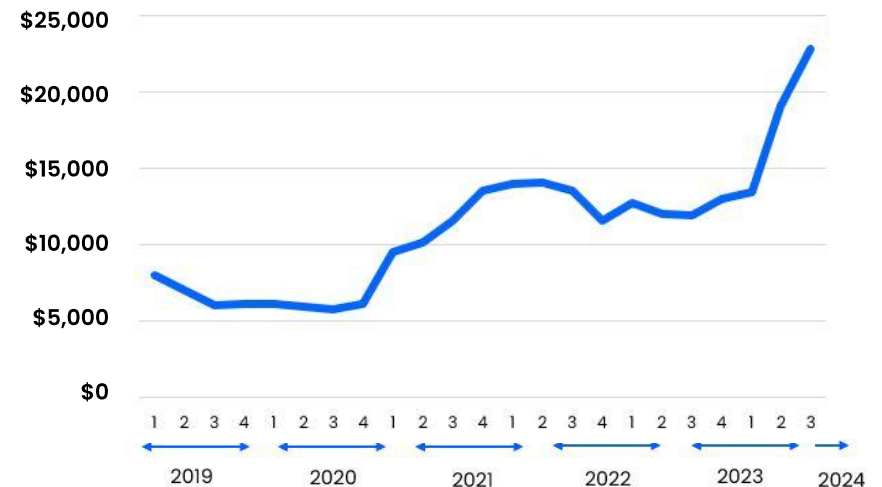
## Commodities: Gold & Antimony price chart

Average Quarterly Gold Price (USD\$/Ounce)



- **4-year average price over USD~\$1,800** per ounce
- Has been hitting **daily highs** in recent times
- Currently at USD **\$2,500** per ounce (15/8/24)
- Growth expected to continue due to **geopolitical uncertainties** / **interest rates** / **inflation** / form of **currency**

Average Quarterly Antimony Price (USD\$/Tonne)



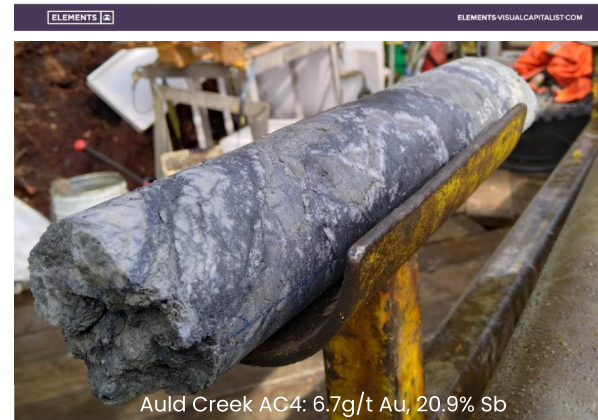
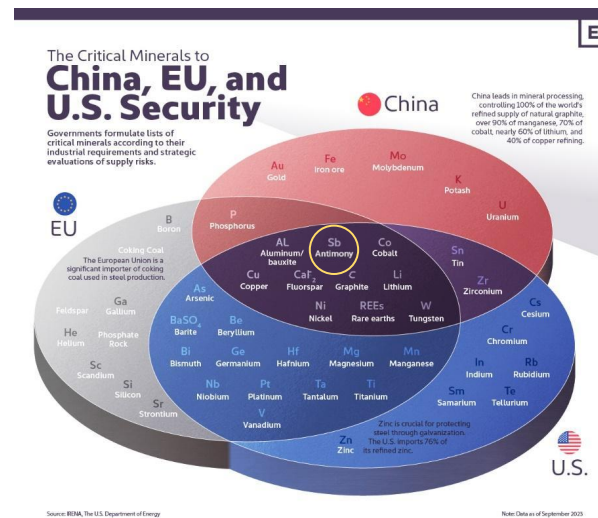
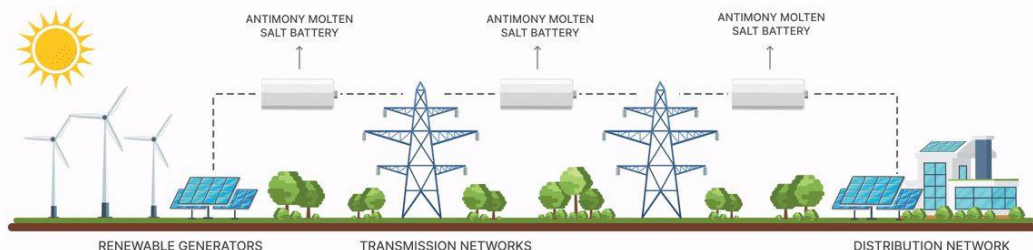
- **4-year average price over USD~\$12,000** per tonne
- Currently at USD **\$23,700** per tonne (15/8/24)
- Increasing demand for **solar & wind energy**
- Increasing demand for **EV batteries**
- Increasing demand for **military use**

# Reefton: Critical Mineral Potential – Antimony (Sb)

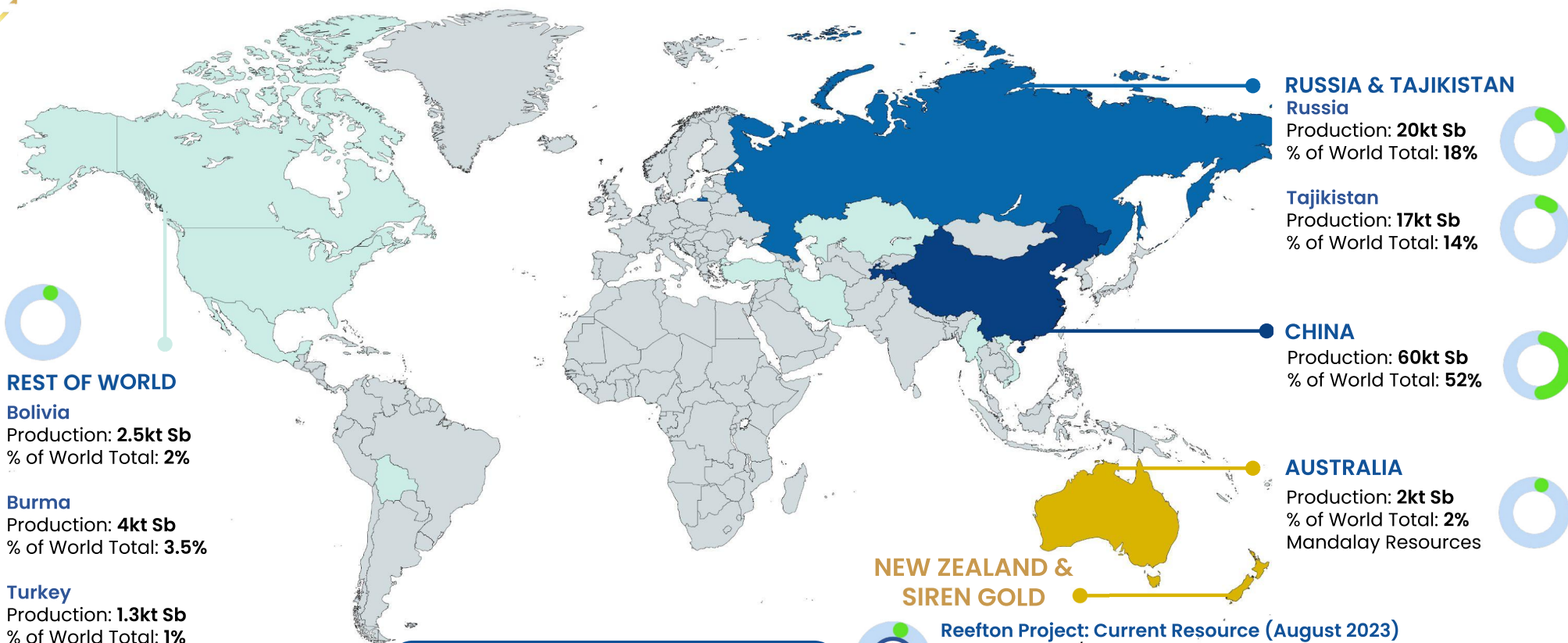
**Antimony is extracted from Stibnite, and occurs in association with gold**

- Antimony is critical to the world production of solar panels, wind turbines, EV's, energy storage batteries & armaments
- Antimony is a critical element in lithium-ion batteries and the next generation of liquid metal batteries
- China and Russia combined produce approximately **85%** of current world production, Australia produces ~2%
- [US Defence Dept predicting huge requirement for antimony](#)

**Potential for supply shortages & price shocks in the coming years**



# Reefton: World Antimony Production (110 kt pa) Russia + China = 85%



**NEW ZEALAND & SIREN GOLD**

**Reefton Project: Current Resource (August 2023)**  
444koz at 3.8g/t Au  
Containing: **8.7kt and growing**

**ocean PARTNERS Sales Agency Agreement SIRENGOLD**

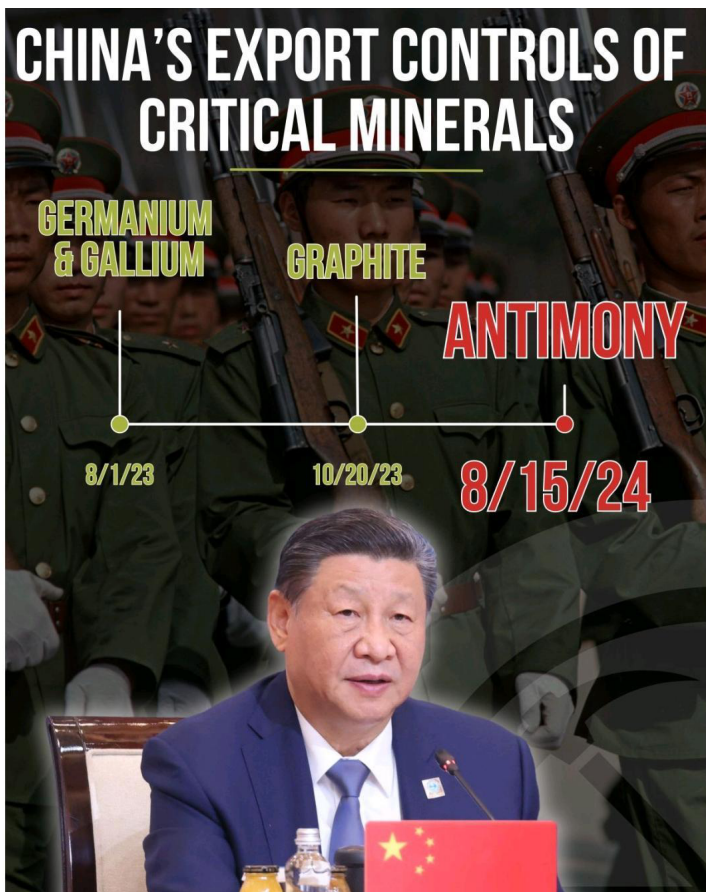
Siren has appointed **Ocean Partners** as its sole and exclusive marketing agent for the worldwide sale of **gold-antimony concentrate** from its **Reefton Project**

(ASX 21/05/2024)

Source: US Mines Department Data 2022 & 2023 (figures are rounded)

# Reefton: Critical Mineral Potential – Antimony (Sb)

## CHINA'S EXPORT CONTROLS OF CRITICAL MINERALS



**GERMANIUM & GALLIUM**  
8/1/23

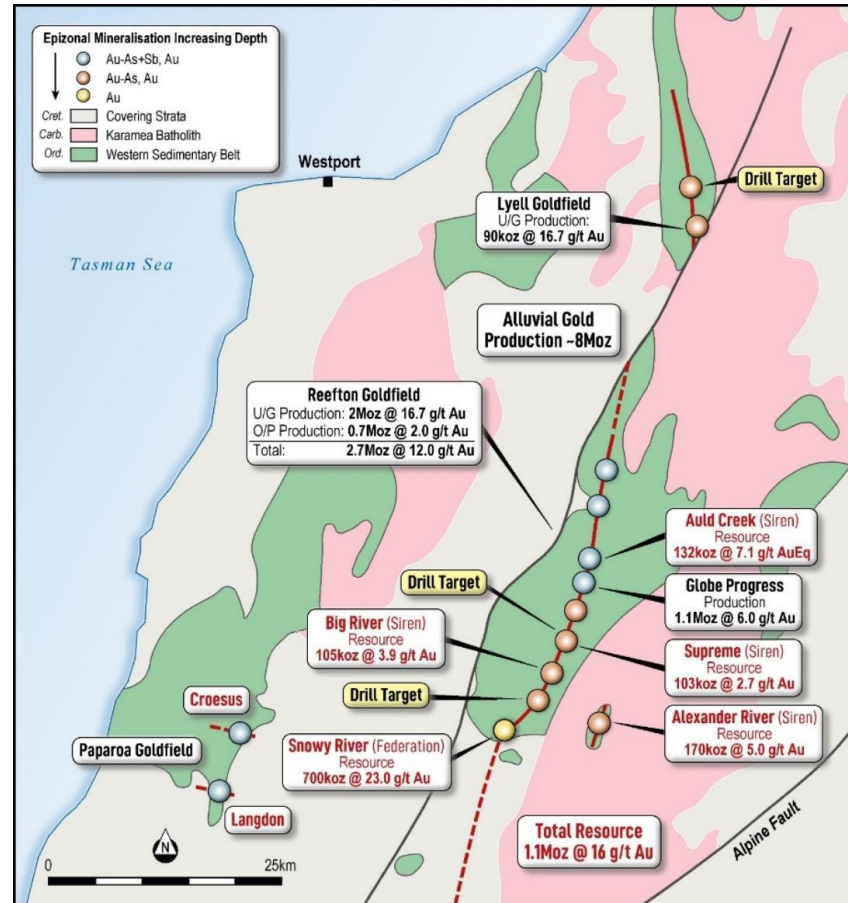
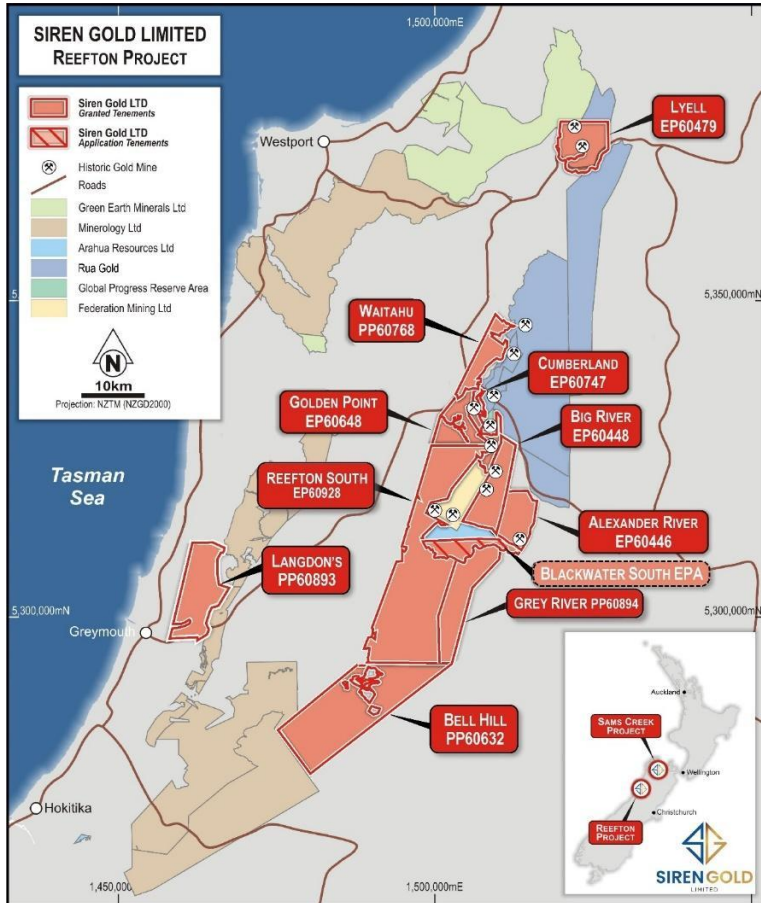
**GRAPHITE**  
10/20/23

**ANTIMONY**  
8/15/24

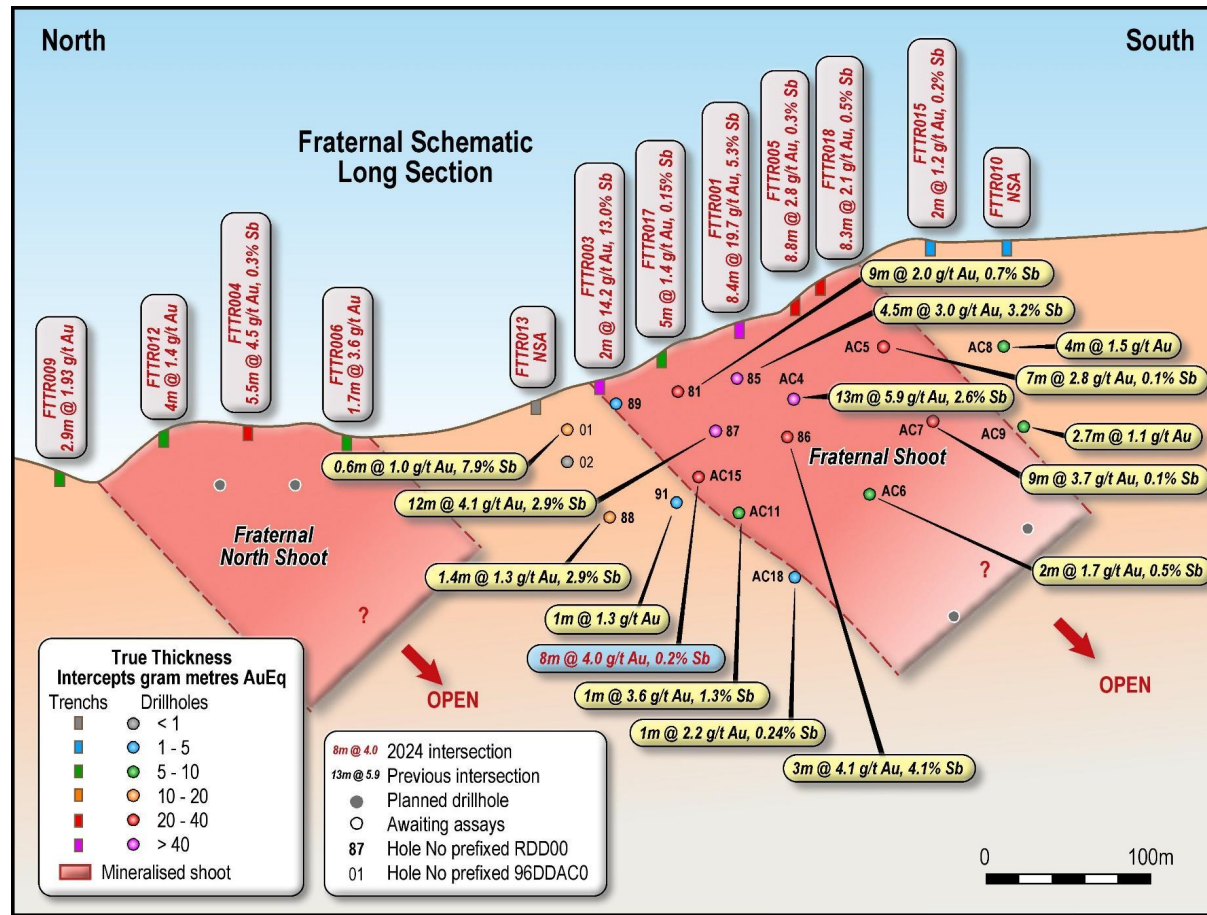
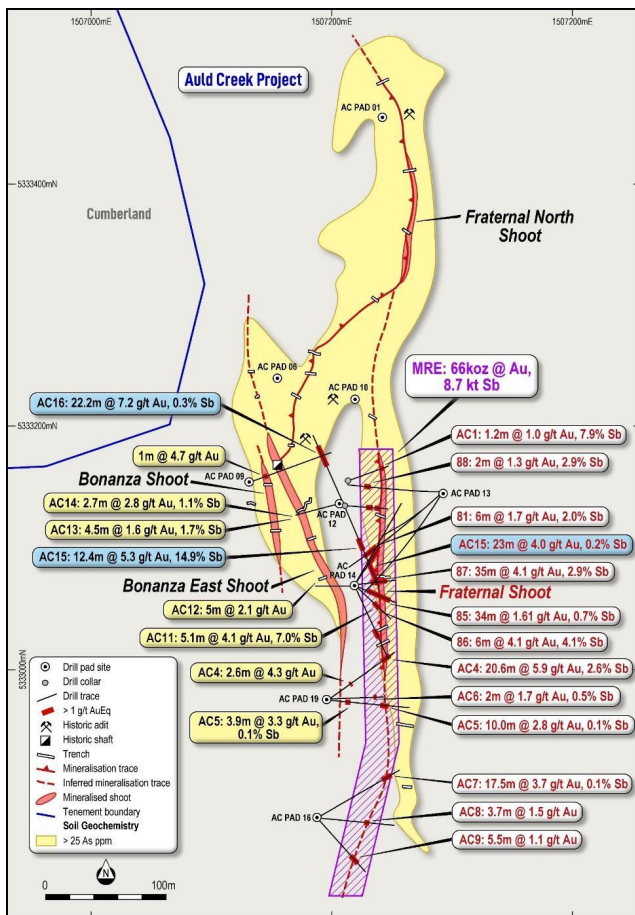




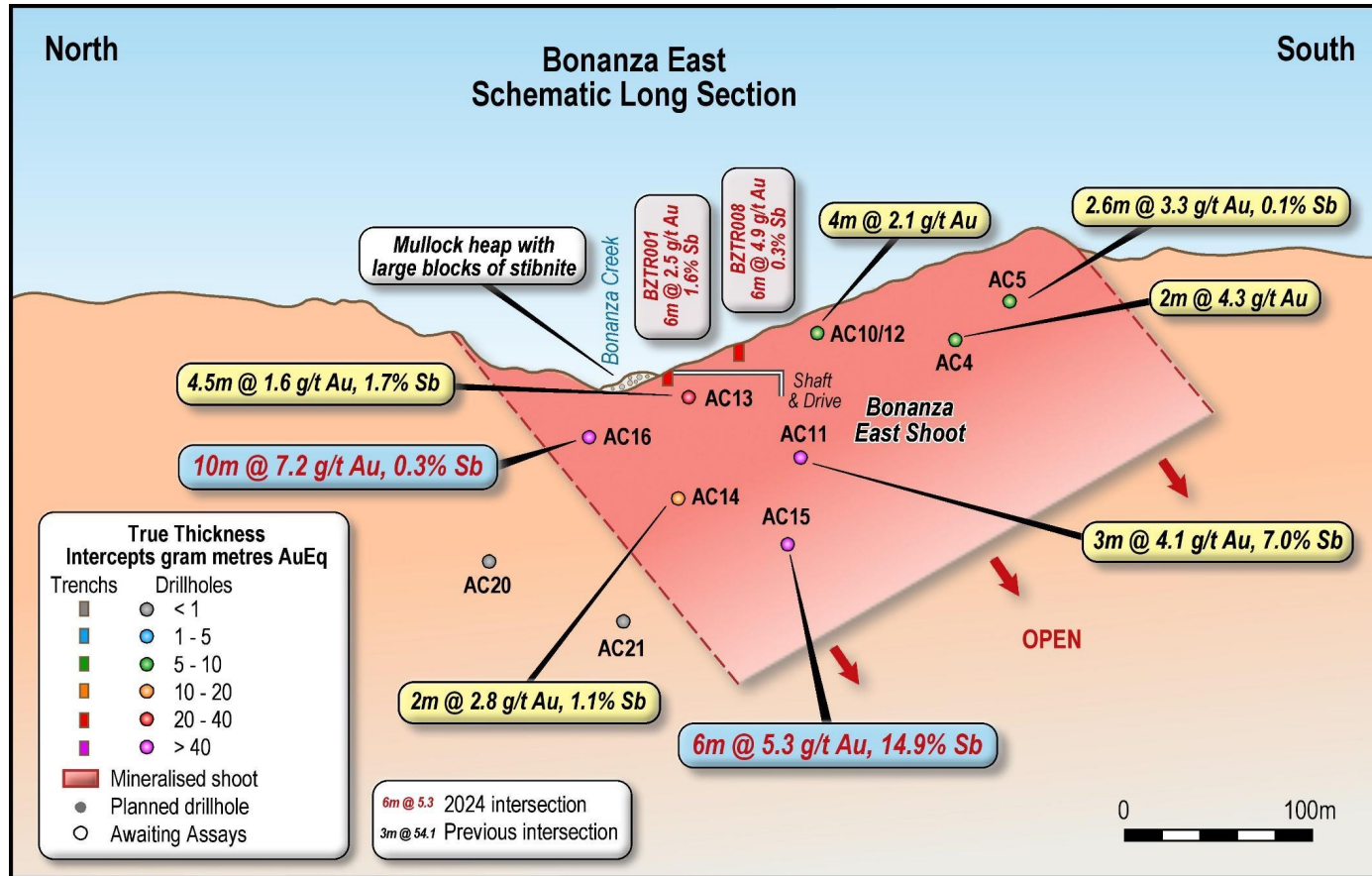
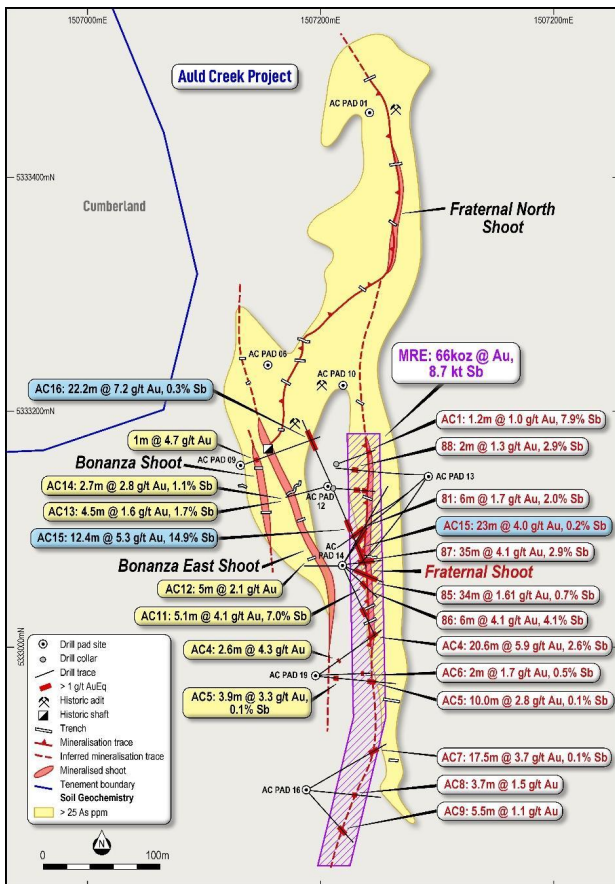
# Reefton: Auld Creek Project



# Reefton: Critical Mineral Potential – Antimony (Sb)



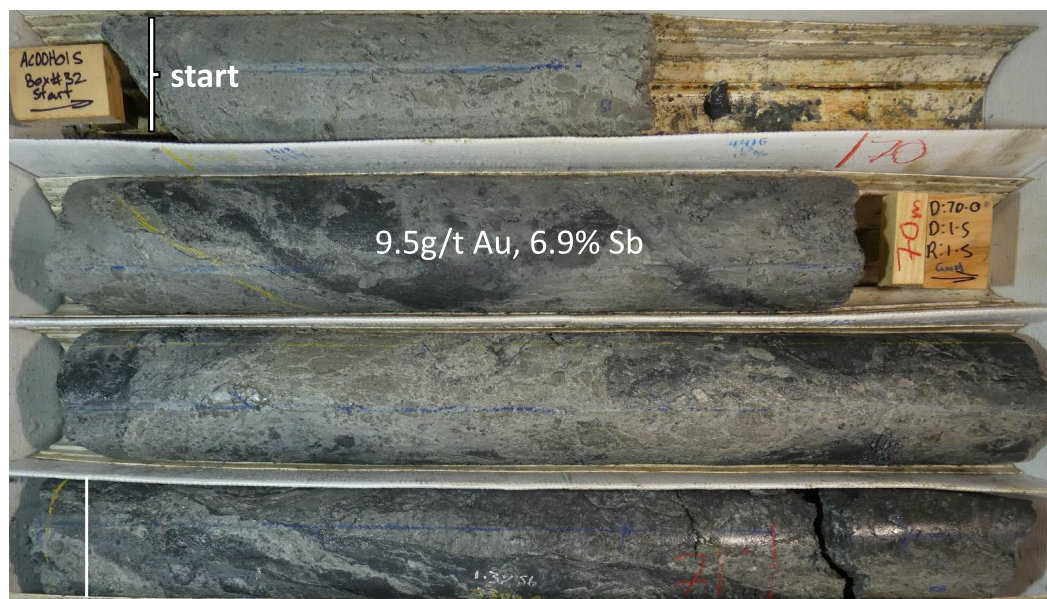
# Reefton: Critical Mineral Potential – Antimony (Sb)



# Reefton Auld Creek: Bonanza East Shoot - ACDDH015



from 69.6m to 71.1m



from 71.1m to 73.0m.

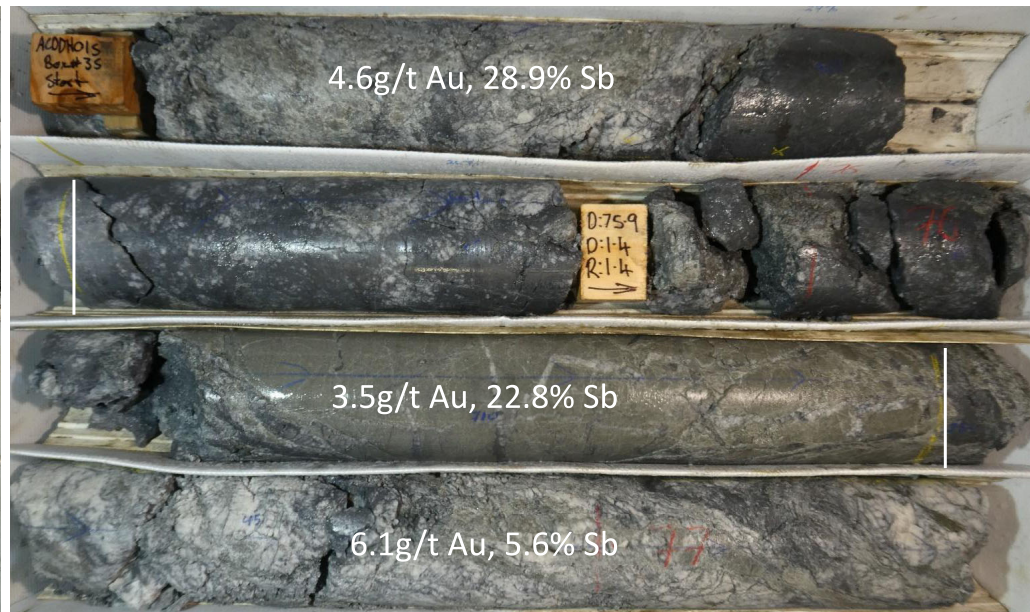
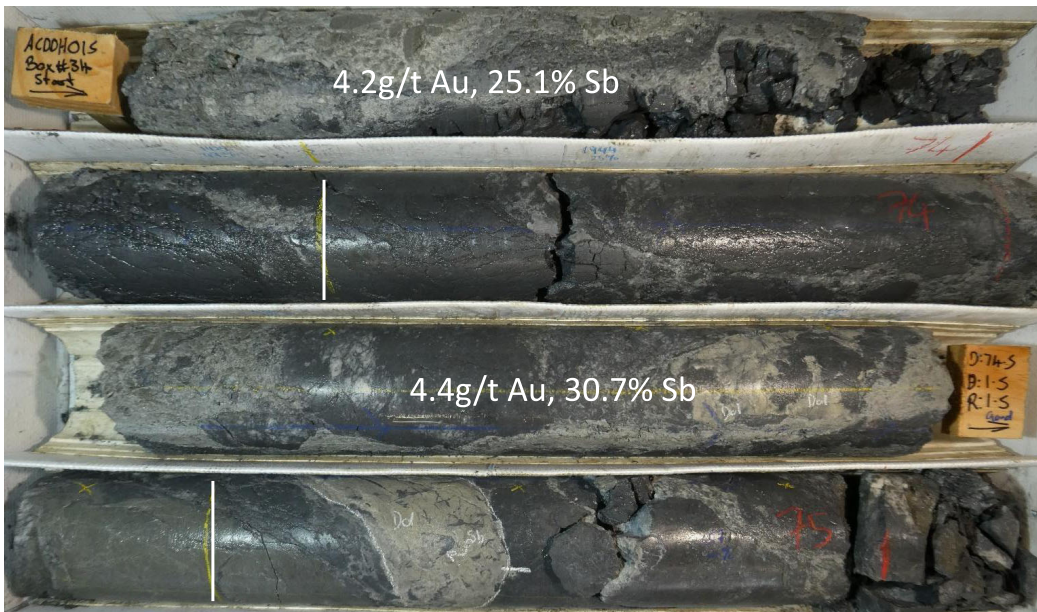


# Reefton Auld Creek: Bonanza East Shoot - ACDDH015



*from 73.0m to 75.1m*

*from 75.1m to 77.2m*

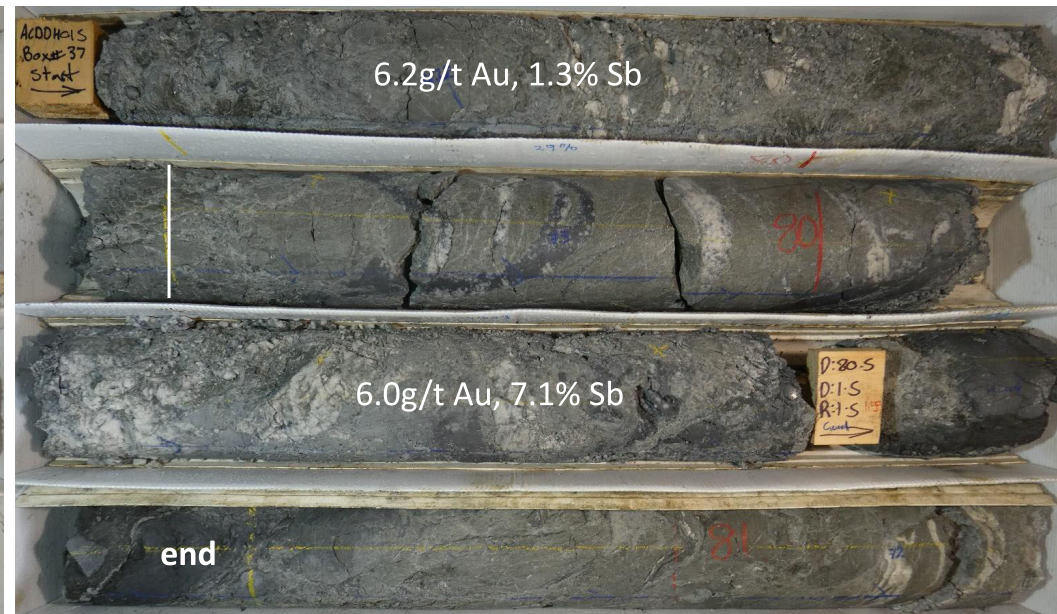


# Reefton Auld Creek: Bonanza East Shoot – ACDDH015



from 77.2m to 79.0m

from 79.0m to 80.8m



**Total Intercept: 12.4m @ 5.3g/t Au and 14.9% Sb**



# Consolidating the Reefton Goldfield

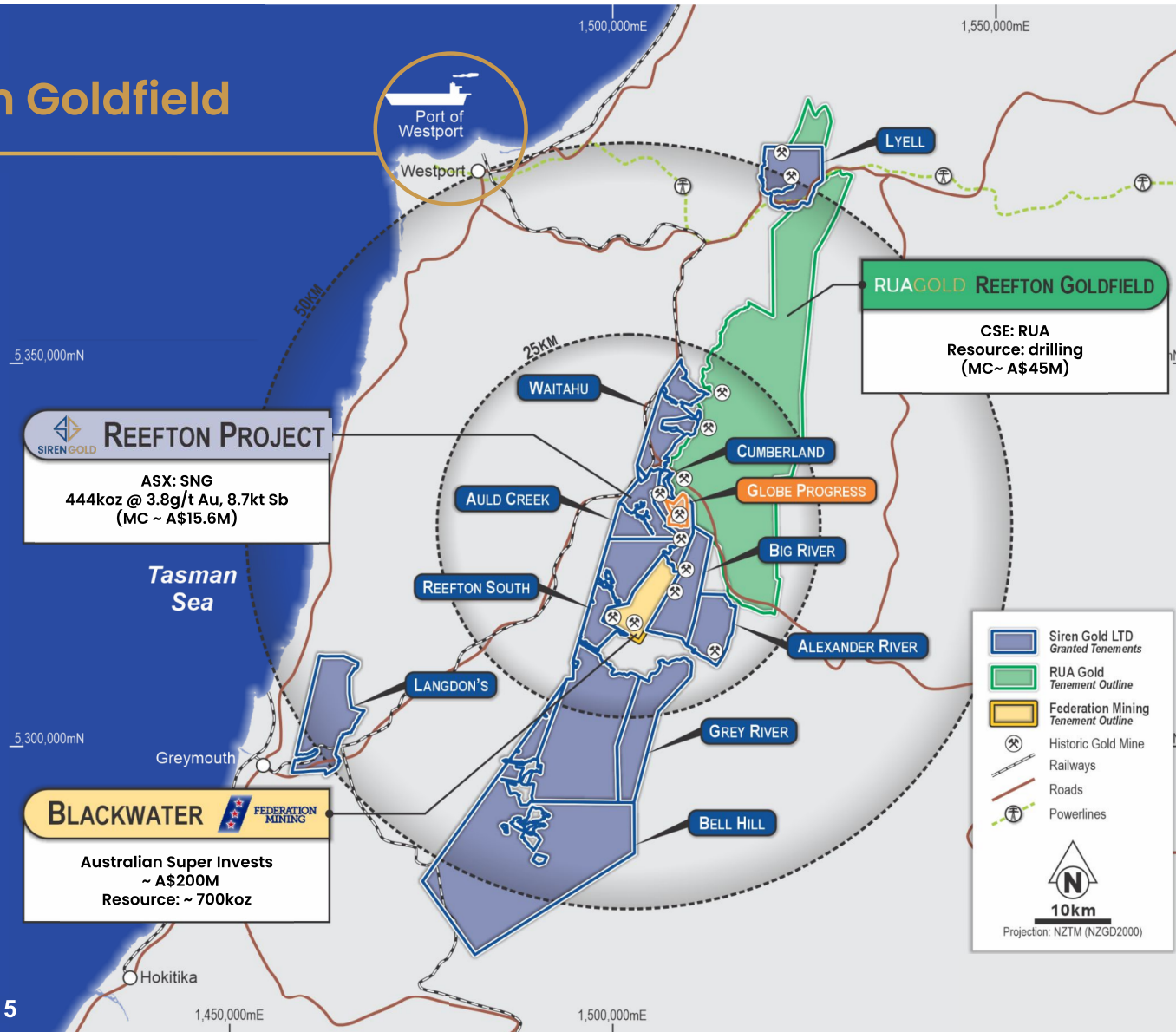
**Establishes dominant landholder** in the historical Reefton Goldfield with

- +1,242km<sup>2</sup> tenement package cover ~35 km of prospective strike length
- MRE of **444k oz Au at 3.8 g/t Au** and **8.7kt Sb at 1.5% Sb**
- 85 historical mines with **+2Moz Au** of historical production

**Allows for a central processing hub** fed by multiple underground **gold & antimony** mines across the field

Many **strategic benefits**

- Opportunity to realise significant synergies and cost savings
- Increased profile with very supportive local community
- Ability to expand exploration programs and more consistent news flow
- Consolidates permitting activities and expedites project timeline



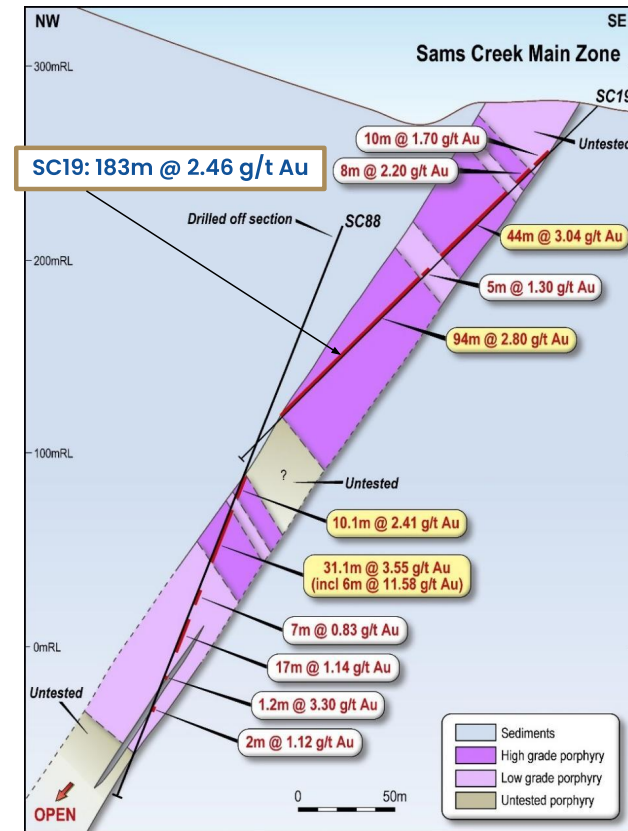
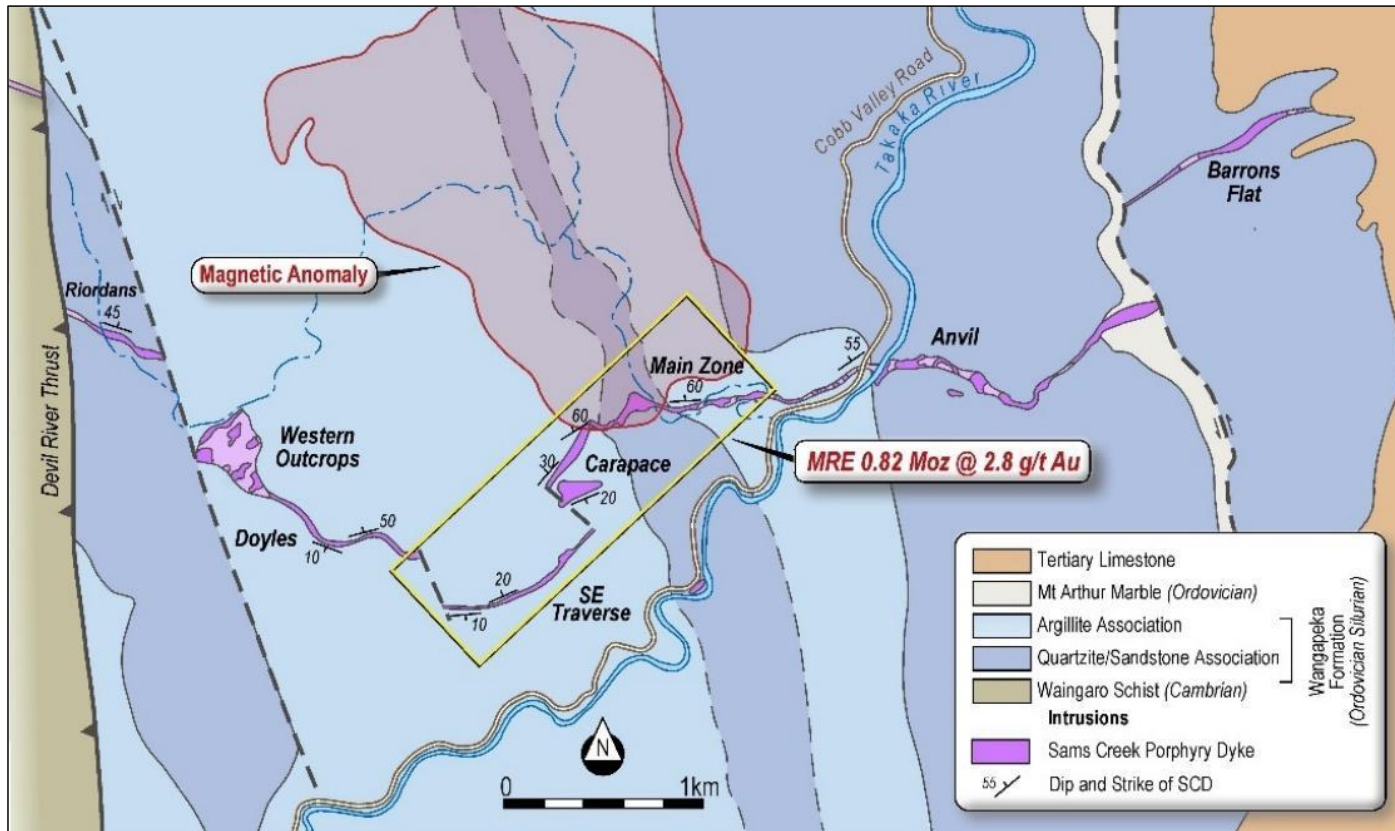
# SAMS CREEK

## Gold



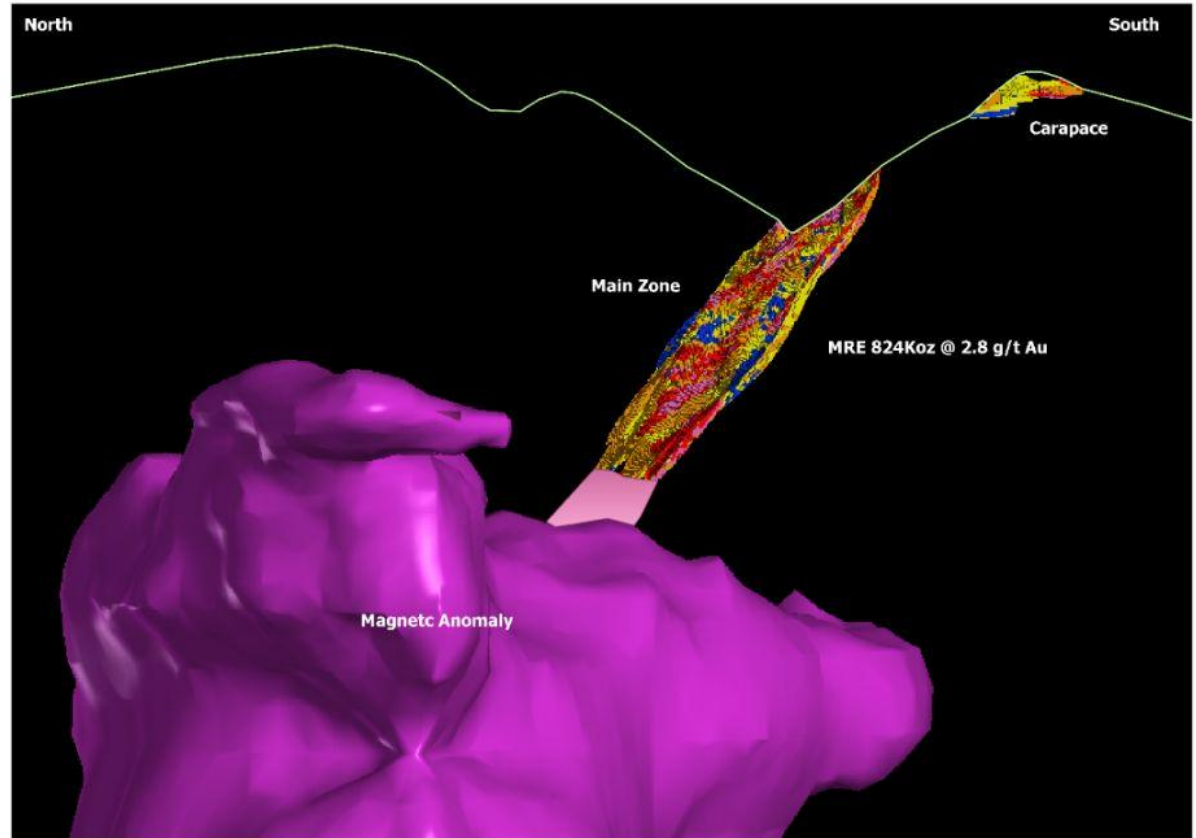
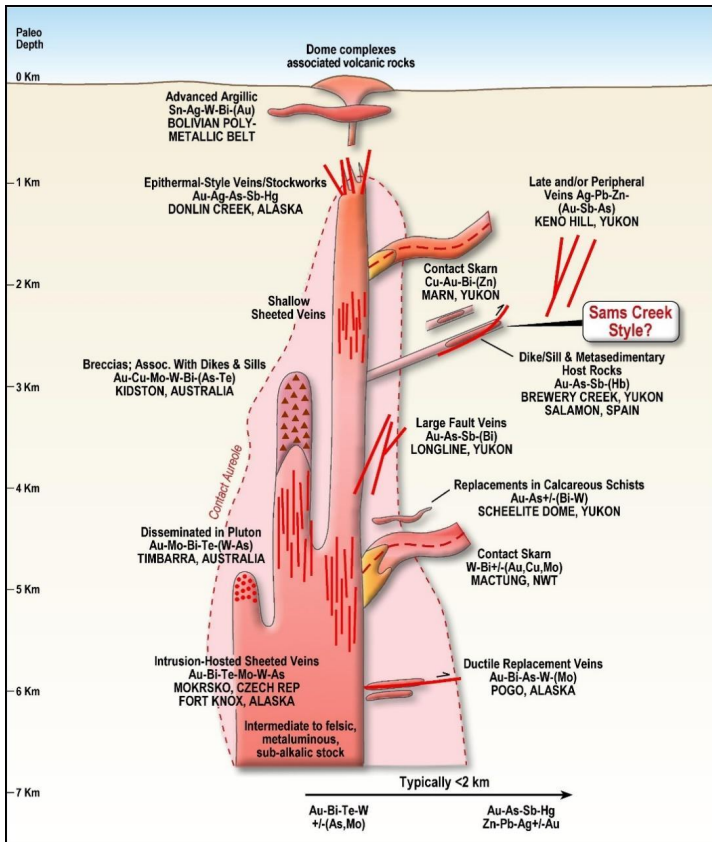


# Sams Creek: 7km strike – Resource of 824koz @ 2.8g/t Au over 2kms





# Two Targets: Dyke (Au) and Porphyry Intrusions (Au-Cu-REE)

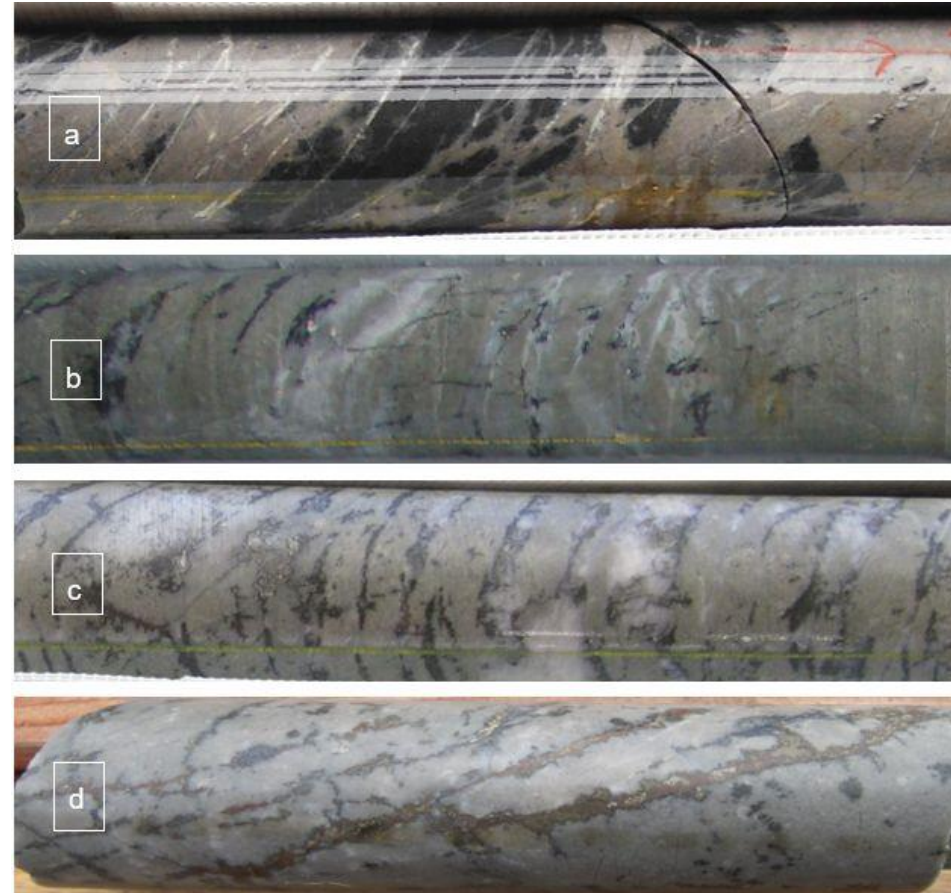


Dyke has Significant Exploration Upside - 7km Long x 40m Wide & Open at Depth



## Sams Creek: Alteration and Mineralisation

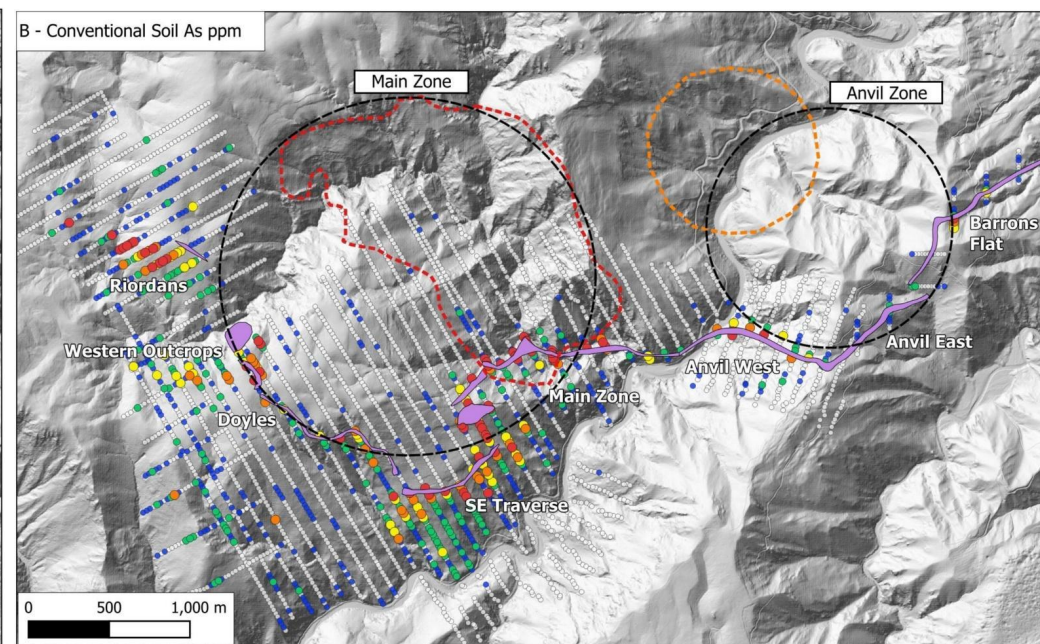
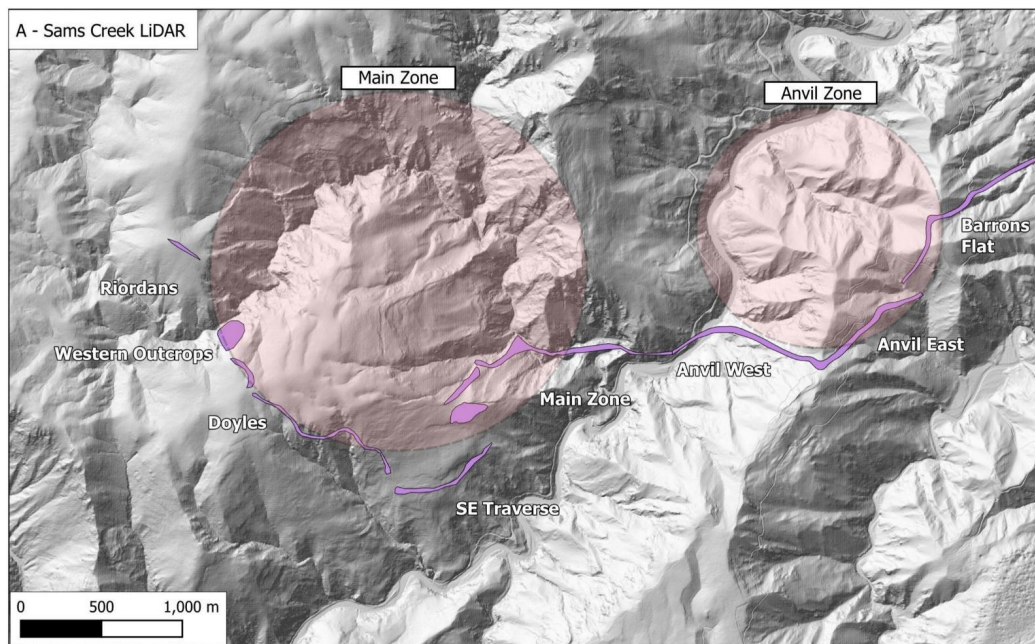
- A. Magnetite-biotite-ankerite** – high temperature **potassic** alteration.
- B. Silicification – sericite** + thin quartz, quartz-pyrite or quartz-albite veinlets – **phylic** alteration.
- C. Gold-bearing arsenopyrite** veins, which form sheeted and local stockwork vein complexes that generally dip to the SE.
- D. Base metal veins** containing **galena, sphalerite, chalcopyrite and pyrite**. These veins **dip steeply to the SW** orthogonal to the Au-As veins



# Sams Creek: Circular Structures and soil geochemistry

## LIDAR

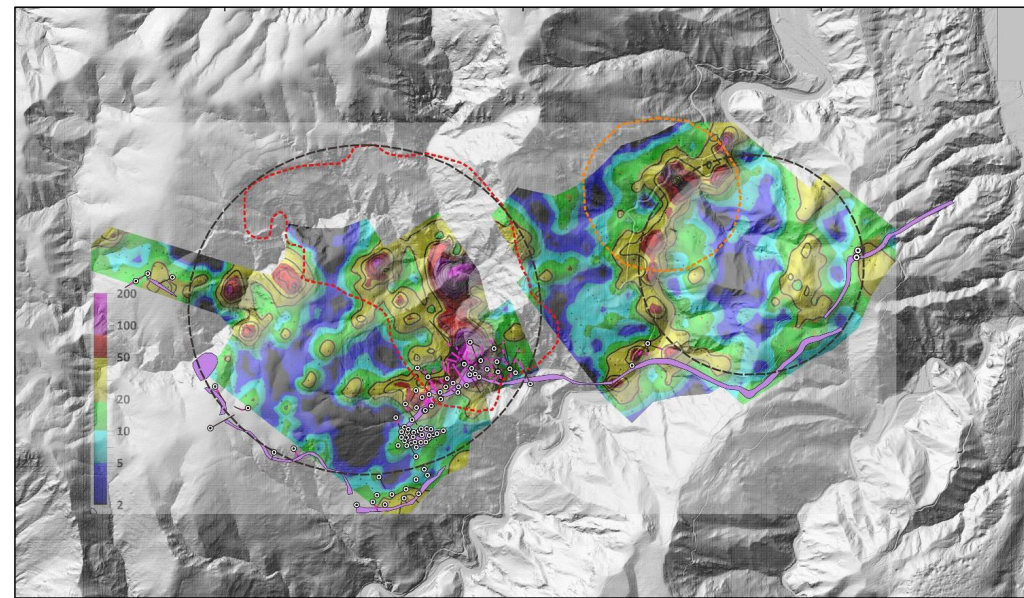
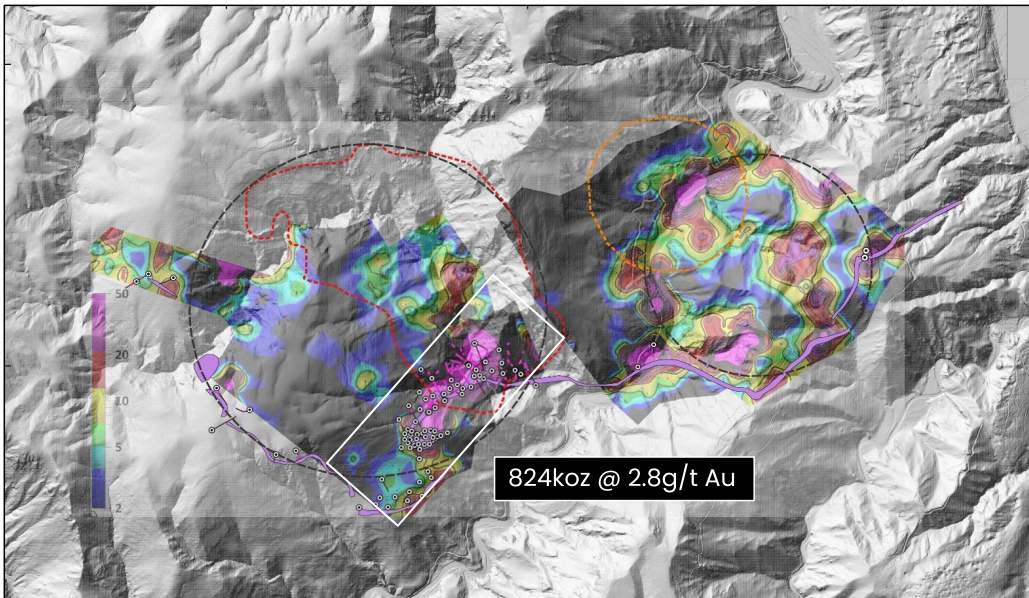
## As Soil Geochemistry



# Sams Creek: Gold & Copper Ionic Leach

## Gold

## Copper



Sams Creek Ionic Leach Au Results

- Legend
- Mapped Dyke
  - Mag Anomaly 1
  - Drill Hole Collar
  - Downhole Dyke Intercept
  - Mag Anomaly 2
  - Drill Trace
  - Circle Structures

0 500 1,000 m

NZTM NZGD2000 Scale 1:25000



Sams Creek Ionic Leach Cu Results

- Legend
- Mapped Dyke
  - Mag Anomaly 1
  - Drill Hole Collar
  - Downhole Dyke Intercept
  - Mag Anomaly 2
  - Drill Trace
  - Circle Structures

0 500 1,000 m

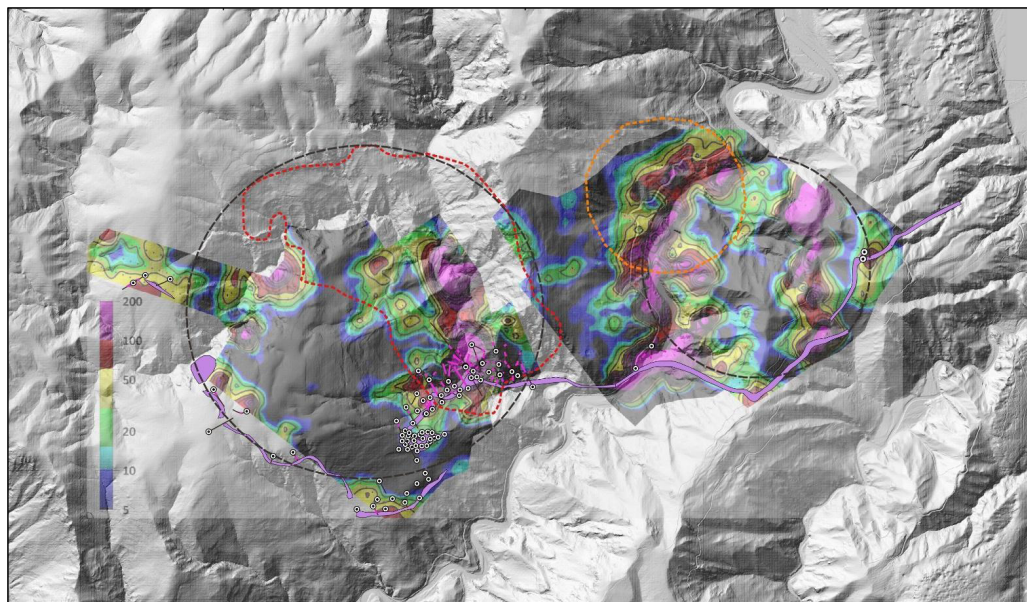
NZTM NZGD2000 Scale 1:25000



# Sams Creek: REE Ionic Leach

## Y - Dy - Ho

## La - Ce - Pr - Nd

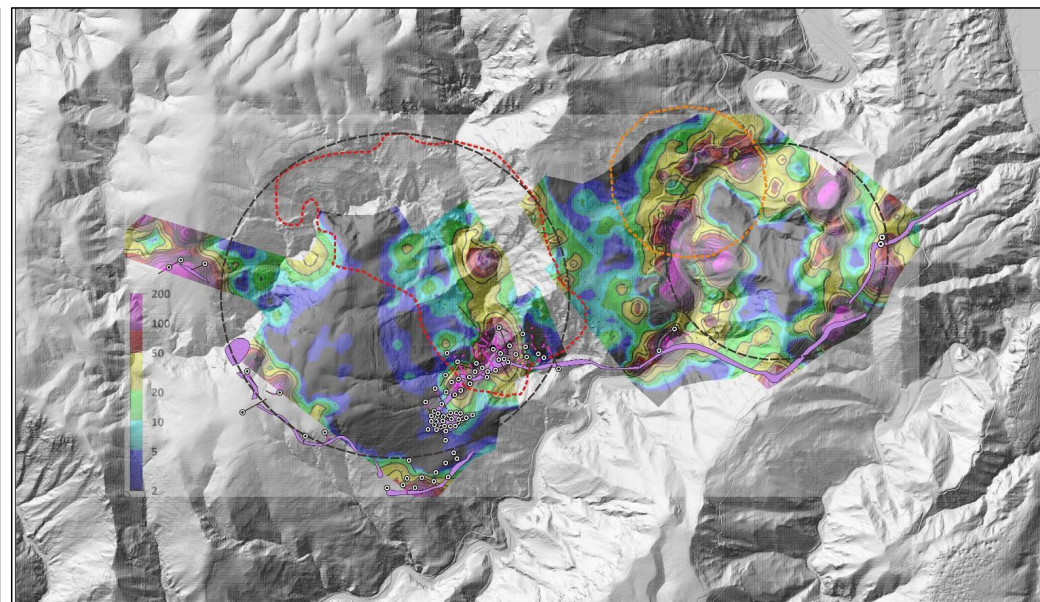


Sams Creek Ionic Leach Y-Dy-Ho Results

Legend  
 Mapped Dyke    Mag Anomaly 1    Drill Hole Collar    Downhole Dyke Intercept  
 Circle Structures    Mag Anomaly 2    Drill Trace

0    500    1,000 m

NZTM NZGD2000 Scale 1:25,000



Sams Creek Ionic Leach La-Ce-Pr-Nd Results

Legend  
 Mapped Dyke    Mag Anomaly 1    Drill Hole Collar    Downhole Dyke Intercept  
 Circle Structures    Mag Anomaly 2    Drill Trace

0    500    1,000 m

NZTM NZGD2000 Scale 1:25,000

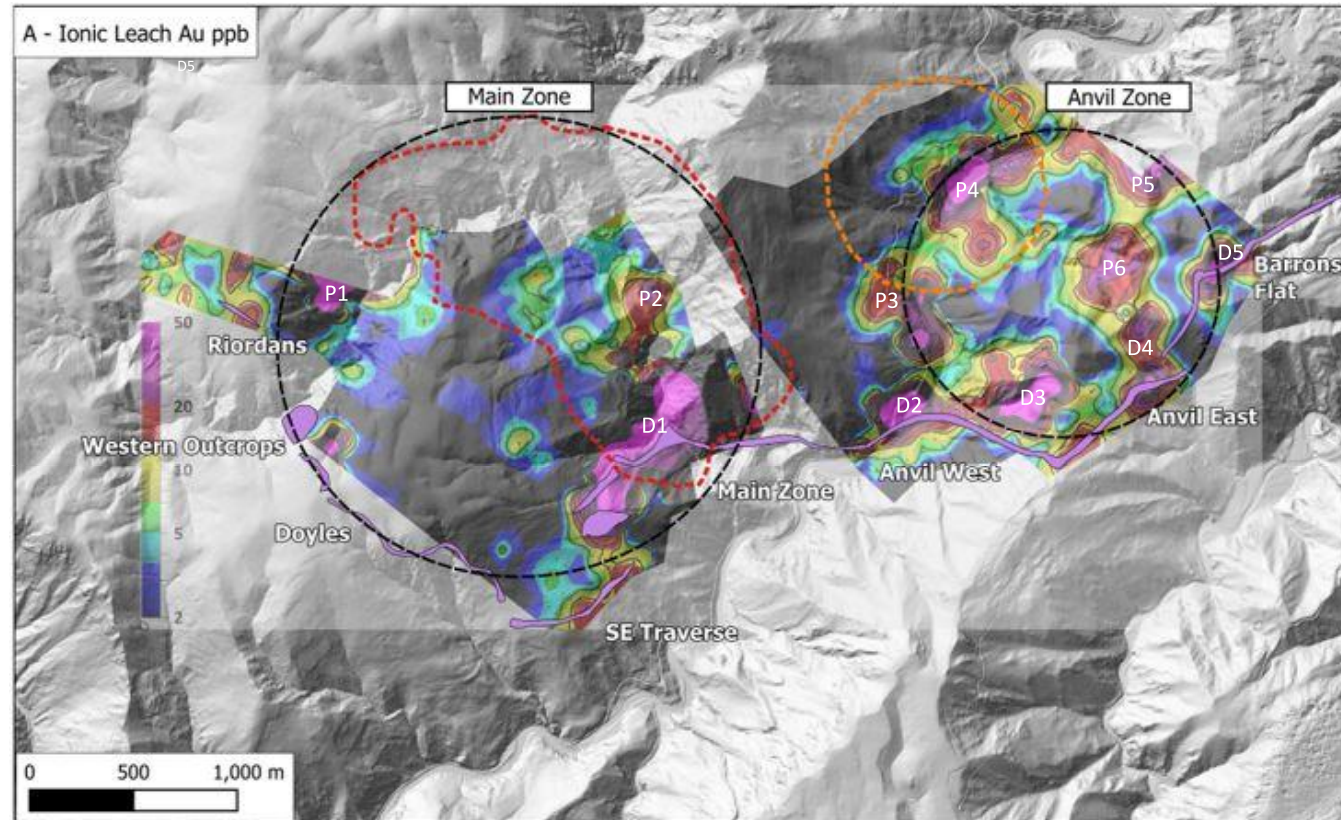
## Sams Creek: Main & Anvil Zone – Targets

### Dyke Targets (D)

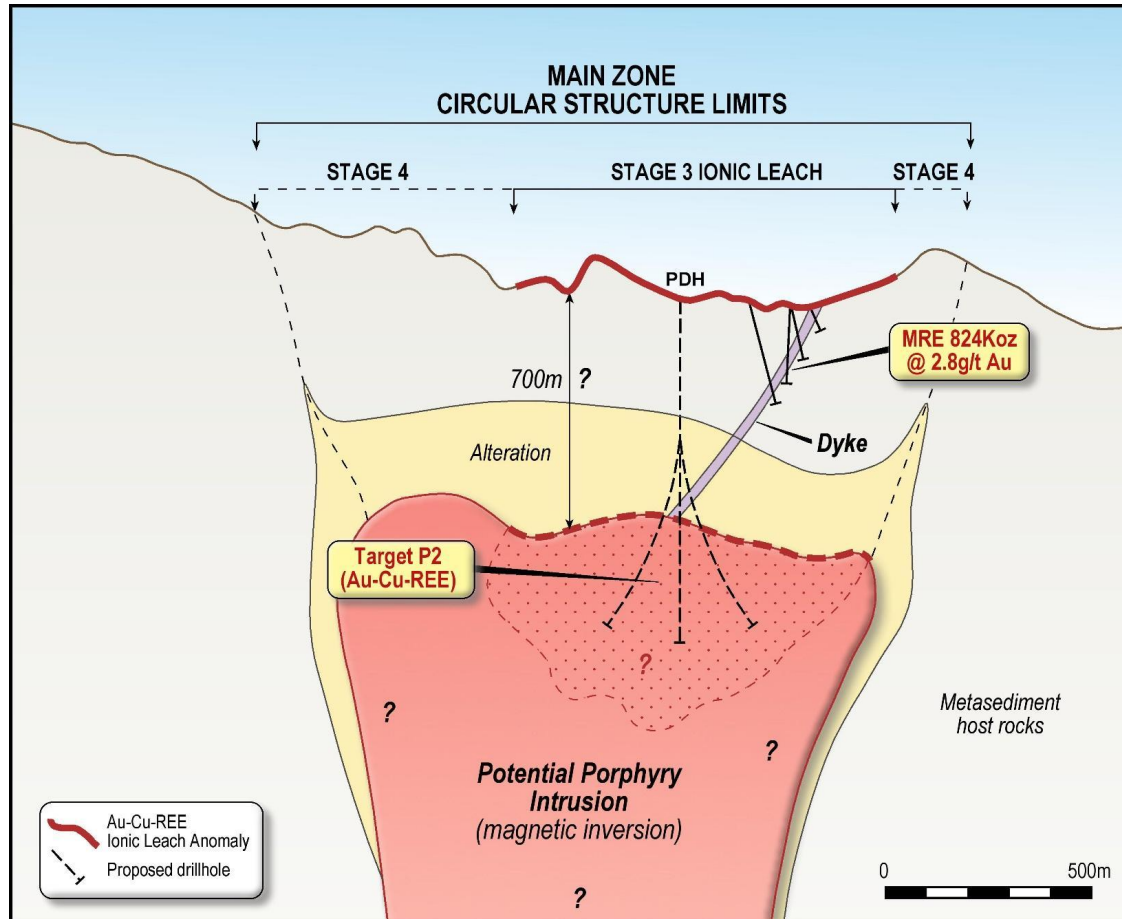
- IL highlights the **Main Zone MRE (D1)**–strong **Au-As** anomaly over 1.1 kms
- D2, D3, D4, D5 have the same **Au-As** signature and close to outcrop.

### Porphyry Targets (P)

- These targets have a strong **Au-Cu-REE** signature.
- Located on the **northern rim** or **middle** of the **circular structures**.
- P2 & P4 –**Strongest Cu-Au** overlies the **modelled intrusions**.



# Sams Creek: Potential Porphyry Intrusion?







**Thank you**

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Technical Director

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