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21 August 2024

Dear Investors,

Project Acquisition Manager, Dr. Helen Degeling, will present at the AusIMM Critical Minerals Conference in Brisbane, Australia, on 26 August 2024.

We are pleased to publish the presentation which focuses on Cobalt Blue's patented process to extract valuable metals and sulphur from mine waste to minimize environmental risks. The document also includes a link to a short video detailing our ReMine+ Strategy.

This announcement has been authorised for release by the Company's board of directors.

Joe Kaderavek Chief Executive Officer (02) 8287 0660

Pyrite re-processing of critical-metal bearing waste for environmental gain

Helen Degeling

AusIMM Critical Minerals Conference August 2024



ReMine+

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Strategic Priorities

ReMine+

Global

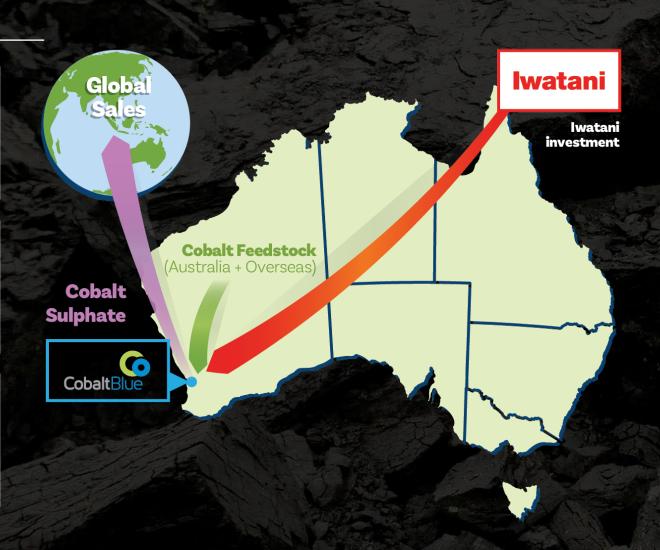
Unlocking Value and Positive Impact from Mine Waste

Cobalt-Nickel Refinery

Kwinana, WA
Metal Processing
for the Battery
Supply Chain

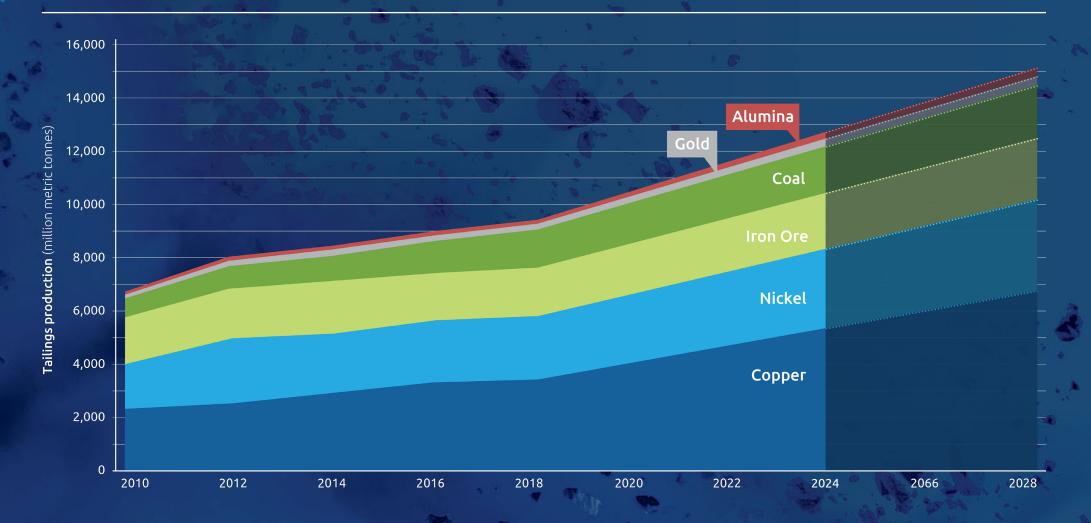
Broken HillCobalt Project

Broken Hill, NSW Responsibly Sourced Cobalt





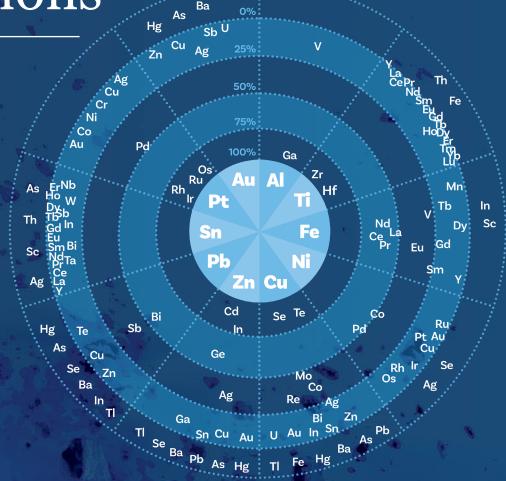
Global Mine Waste





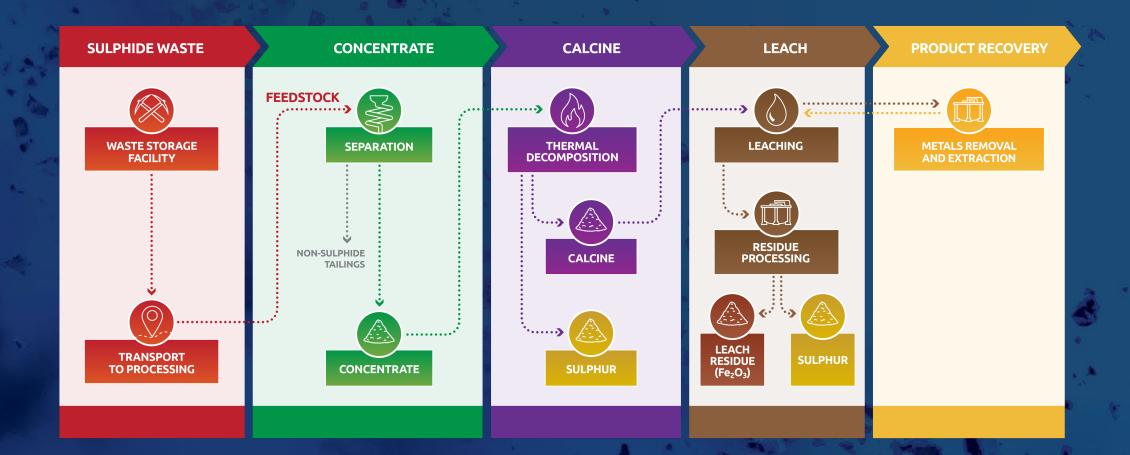
Predictive metal associations

- Natural ore deposits are a mix of commodities, though often with one dominant
- Mining operations focus on one or two commodities for efficiency of operation.
 - The remaining metals are sent to waste
- For example, cobalt is commonly associated with both nickel and copper ore. However the majority of mine operators have previously not extracted the cobalt.
 - It can therefore be predicted that many large copper and nickel mines will contain potentially economic concentrations of cobalt
- Other metals, many critical to the energy transition, may also be predicted to occur in mine waste based on their known ore associations





The Cobalt Blue flow sheet





Science of acid reduction

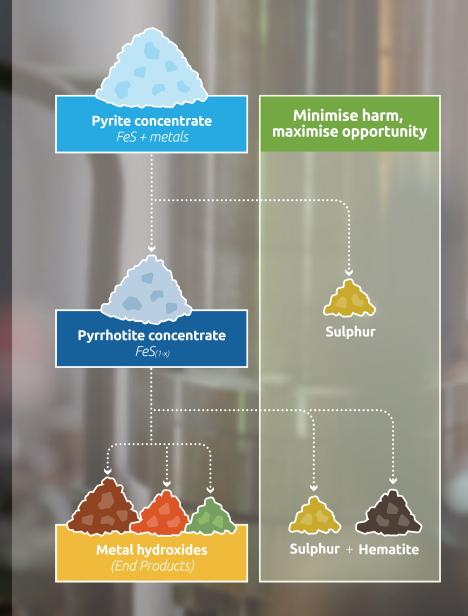
Cobalt Blue's patented process mitigates potential environmental harm and produces saleable elemental sulphur

A key step in the Cobalt Blue process is to convert pyrite (FeS) to the mineral pyrrhotite (FeS $_{(1-x)}$).

Pyrrhotite contains less sulphur than pyrite, and the rejected sulphur is captured as a gas and cooled to crystallise as elemental sulphur.

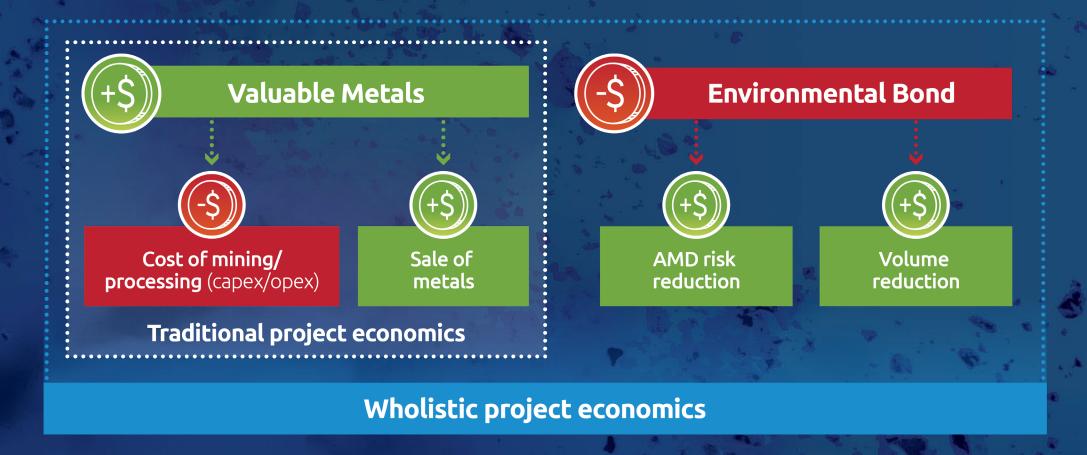
A second sulphur extraction step is achieved during leaching, during which the pyrrhotite molecules are oxidized to make hematite ((Fe₂O₃). This process liberates sulphur, as well as any other metals (such as Co, Ni, Co, Ag and others) that may be contained in the pyrrhotite lattice.

By capturing the sulphur at each stage, any additional waste therefore has a much lower ability to form sulphuric acid; the main culprit in acid mine drainage.



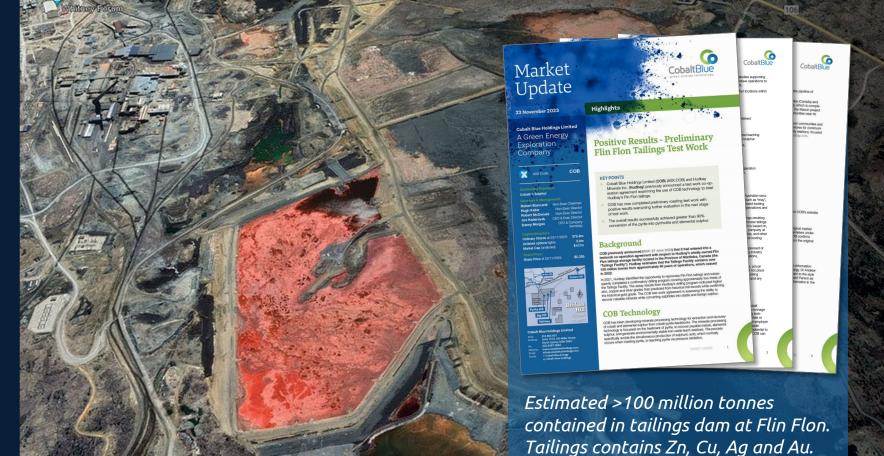


The Case for Tailings Re-Processing





- Case Study: Flin Flon tailings project



HDBAY

Cobalt Blue and Hudbay Minerals collaborating to apply Cobalt Blue's processing technology to the Flin Flon tailings facility, Manitoba.

Testwork results to date have achieved >90% conversion of pyrite to pyrrhotite + sulphur.

An overall flowsheet is now being designed for the final stepof testwork.

Mine Waste in Australia

- Long history of mining
- >3,500 active and inactive sites
- Most will have associated waste
- Potential for valuable raw materials in the waste

Case Study: Osborne Testwork



Image credit and sampling data: A. Parbhakar-Fox, University of Queensland.





Two flowsheets tested:

 $\mathsf{Tails} \to \mathsf{float} \to \mathsf{POX}$

Tails \rightarrow kiln \rightarrow POX (COB Process)

	Float	POX	TOTAL recovery
Cobalt	90%	46%	41.4%
Соррег	74%	98%	72.5%

1	Kiln	POX	TOTAL recovery
Cobalt	99%	90%	89.1%
Соррег	99%	90%	89.1%

Further recovery of cobalt and copper required from leach solutions.



