

Trigg to explore antimony potential at Drummond Project, Queensland

HIGHLIGHTS

- Trigg's Bosworth (EPM 28419) and contiguous West Ravenswood projects (EPM 27752) are located between several multi-million-ounce intrusion-related and orogenic gold deposits, with more than 20 Moz gold endowment in the regional hinterland
- Economic grades of antimony (up to **2.3% Sb**) have been discovered in the epithermal gold and polymetallic mineralisation at Police Creek⁹
- Three overlapping deposit styles are recognised at Drummond: intrusive-related gold, orogenic gold and epithermal gold
- China, the world's biggest producer of antimony, has placed export bans on some antimony products from September 2024, due to its use in defence and military applications
- Antimony is on the Critical Mineral lists of countries including Australia, the USA, Canada, Japan and the EU¹
- Trigg to immediately follow up with further exploration targeting antimony-gold related mineralisation
- Drilling at Trigg's SW Limey target at Drummond is expected to commence next week

Trigg Minerals Limited (ASX: **TMG**) ("**Trigg**" or the "**Company**") is pleased to provide an update on developments at its Drummond project in northern Queensland. The Company considers its recently acquired Bosworth (EPM 28419) and West Ravenswood (EPM 27752) Projects prospective for economic occurrences of orogenic and intrusion-related mineral systems hosting gold-copper-molybdenum, base metal and potentially low-temperature epizonal gold-antimony systems.

Trigg's tenement package is strategically located in the Charters Towers Province (CTP) between intrusion-related gold deposits including Ravenswood (7Moz Au)², Mt Leyshon (3.5Moz Au)³, Mt Wright (1.5Moz Au)⁴ and the orogenic-related Charters Towers (6.8Moz Au)⁵ deposit. The CTP accounts for nearly 50% of Queensland's gold endowment.

Economic concentrations of antimony can be found in shallow, low-temperature orogenic gold systems, such as Costerfield (461koz Au and 45.7kt Sb)⁶ and Hillgrove (+2Moz Au and 90kt Sb)⁷, as well as in epizonal intrusion-related gold systems like Donlin Creek in Alaska (39Moz Au)⁸.

Economic grades of antimony (up to **2.3% Sb**) have been discovered in the epithermal gold and polymetallic mineralisation at Police Creek⁹, near Mt Coolan in the Drummond Basin. Additionally, a historical epizonal antimony-gold mine, the Antimony Mine, was identified near the Mt Wright deposit within the Charters Towers Province.



Trigg Minerals Executive Chair Timothy Morrison said: “Our review of data from the Drummond Project to date has revealed significant potential for intrusive-related and orogenic gold systems in this historically rich mining area, where more than 70 intrusion-related gold systems are located. The geological setting at Bosworth and West Ravenswood is considered highly favourable for hosting the large, high-grade gold deposit often associated with an IRGS, and antimony is commonly associated with this deposit type.

Given the recent tightening of the antimony market, due to China announcing export bans on some antimony products, exploring for this critical mineral now becomes more timely and strategically important.

Drummond’s combination of multiple mineral systems, with variable levels of antimony enrichment and the positive market outlook for antimony, underscores a robust exploration opportunity in gold, antimony and other commodities which we are keen to further explore.”

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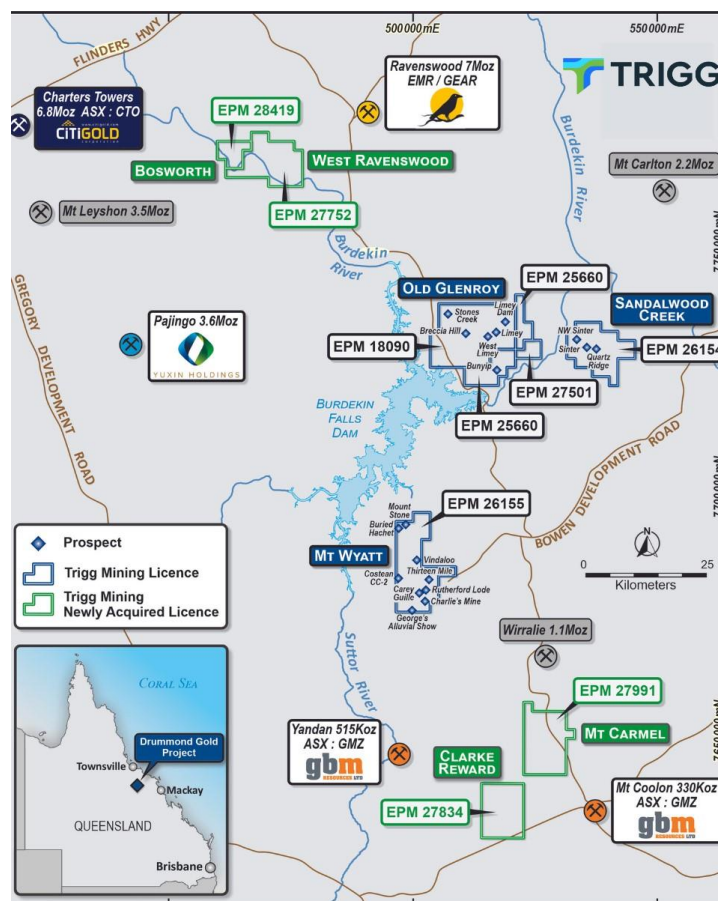


Figure 1: Location, tenements, targets and gold endowment, Drummond Basin Project.



Geological synthesis:

More than 70 Permo-Carboniferous Intrusion-related Gold Systems occur in the Charters Towers Province of north Queensland. These systems are mainly emplaced at mesozonal or porphyry levels and exhibit vein and breccia styles. The metal association is characterised by Au-Ag-As-Sb-Cu-Zn-Pb-Bi-Te.

Shallow, epizonal systems, important for antimony mineralisation, are found at the nearby Mt Wright and Wellington Springs gold deposits. Like the orogenic lode gold mineral system, Hg and Sb are enriched at higher levels, a trend also in the porphyry-epithermal mineral system. Antimony concentration at ore-grade levels is uncommon, possibly due to exploration efforts focused on the precious metal endowment and distribution or the erosion level exceeding shallowly placed deposits.

However, the concept is validated by discovering the Antimony Mine, a historical quartz-stibnite vein and replacement deposit located 6.5km north of Ravenswood and immediately east of Mt Wright. Subsequently, the Company believes further antimony may lie in the peripheral parts of orogenic gold deposits and intrusion-related gold deposits elsewhere within the Charters Towers Province, much of which is covered by recent sediments and underexplored.

Antimony background

Antimony is on the Critical Mineral lists of countries including Australia, the USA, Canada, Japan and the EU, with a variety of defence and military applications.

China, the world's biggest producer of antimony, has placed export bans on some antimony products to come into effect this month.

Antimony is currently trading at ~US\$25,000/tonne (Argus Metals, antimony ingot min 99.65% fob China as at 3 September 2024).

Next Steps

Understanding orogenic epizonal gold mineralisation and intrusive-related gold systems distinct geological origins and characteristics, their interactions and proximity helps for more effective exploration, particularly in the complex regolith environments of north Queensland.

Trigg will continue to review data and opportunities in the Drummond/Charters Towers area and elsewhere.

Drilling at the Company's SW Limey is expected to commence next week.



References

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This Announcement has been approved for release by the Board of Trigg Minerals Limited.

Forward-Looking Statements

This report contains forward-looking statements that involve several risks and uncertainties. These forward-looking statements are expressed in good faith and believed to have a reasonable basis. These statements reflect current expectations, intentions or strategies regarding the future and assumptions based on currently available information. Should one or more risks or uncertainties materialise, or underlying assumptions prove incorrect, actual results may vary from the expectations, intentions and strategies described in this announcement. There is no obligation to update forward-looking statements if these beliefs, opinions, and estimates should change or to reflect other future developments.

Competent person statement

The information related to Exploration Targets, Exploration Results, Mineral Resources or Ore Reserves is based on data compiled by Jonathan King, a Competent Person and Member of the Australian Institute of Geoscientists. Jonathan King is a director of Geoimpact Pty Ltd. Jonathan King has sufficient experience that is relevant to the style of mineralisation and type of deposits under consideration and to the activity being undertaken 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. Jonathan King consents to the inclusion in presenting the matters based on his information in the form and context in which it appears.

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