



29 NOV 2021

ASX: TMG

## ASX ANNOUNCEMENT

# Key Gravity Surveys Commence as Trigg Strengthens SOP Growth Pipeline

*Maiden gravity survey over the Lake Yeo Sulphate of Potash (SOP) Project, representing a potential repeat of Lake Throssell in the same interpreted palaeovalley*

### Highlights

#### Lake Yeo SOP Project

- Two Exploration Tenements covering the eastern half of the Lake Yeo Project area, located ~65km south-east of Lake Throssell, have been granted.
- This has cleared the way for initial ground-based exploration activities on this exciting growth and expansion opportunity.
- A maiden gravity survey is underway to begin testing the hypothesis that Lake Yeo is a potential Lake Throssell repeat within the same interpreted palaeovalley.
- The survey will define the palaeovalley and identify drilling targets.

#### Lake Throssell SOP Project

- Lake Throssell has a total drainable Mineral Resource of 14.4Mt at 4,665mg/L potassium (or 10.4 kg/m<sup>3</sup> K<sub>2</sub>SO<sub>4</sub>) with an additional Exploration Target.
- The Lake Throssell Scoping Study indicates an initial 21-year mine life producing 245,000tpa SOP, positioning Lake Throssell as a potential low-cost, Top-10 global SOP Producer.
- An in-fill gravity survey is also underway to refine locations for test water-bores, to be drilled as part of the next phase of work and convert Mineral Resources into Ore Reserves.

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**Trigg Mining Limited (ASX: TMG) (Trigg or the Company)** is pleased to advise that it has commenced its first-ever ground-based exploration activities (Figure 1) on the Lake Yeo Sulphate of Potash (SOP) Project after securing the grant of the tenements covering this exciting growth opportunity immediately south-east of its flagship Lake Throssell SOP Project (Figure 2).

Gravity surveys are also underway at Lake Throssell itself as part of the next phase of work at the Project being undertaken as part of the current Pre-Feasibility Study.

Following the execution of a Heritage Protection and Land Access Deed with the Traditional Owners of the Lake Yeo SOP Project, the Nangaanya-ku, two Exploration Tenements (E38/3610 and E69/3851) covering the eastern portion of the Project have been granted.

Based on radiometric potassium intensity<sup>1</sup> and the Aster Gypsum Index<sup>1</sup> data, Trigg Mining believes Lake Yeo to have the potential to be a repeat of Lake Throssell, representing significant growth potential.

The maiden gravity survey is the first step in assessing this hypothesis and will be used to define future drilling targets.

In addition, following the successful Scoping Study at the Lake Throssell completed in October (see ASX announcement dated 5 October 2021), work is underway to further define the basal aquifer, commencing with a 220 line-kilometre gravity survey.

This will further refine the locations for the test water-bores to be drilled in 2022 to convert the Mineral Resource Estimate to an Ore Reserve as part of the Pre-Feasibility Study.

**Trigg Mining Managing Director Keren Paterson said:** *“The current in-fill gravity program at Lake Throssell signifies the formal start of the Pre-Feasibility Study and will assist with identifying potential resource extensions and help to refine the planning for the test-production bores expected to be drilled in the middle of 2022.*

*“The grant of the tenements at Lake Yeo is also a major step in evaluating the broader regional potential for SOP mineralisation close to Lake Throssell – potential which we believe is very significant.*

*“Lake Yeo lies just to the south, along the same interpreted palaeovalley and has similar signatures for potassium and sulphate as Lake Throssell. The maiden gravity survey is designed to identify the palaeovalley and potential future drill-hole locations to test this exciting Project. If we are successful with our upcoming exploration activities, this could be a transformational development that results in a dramatic expansion of our growth pipeline in the district, around a central SOP processing hub based at Lake Throssell.”*



Figure 1: Gravity survey instruments

<sup>1</sup> Department of Mines, Industry Regulation and Safety Imagery Web Map Service, accessed 22/04/21



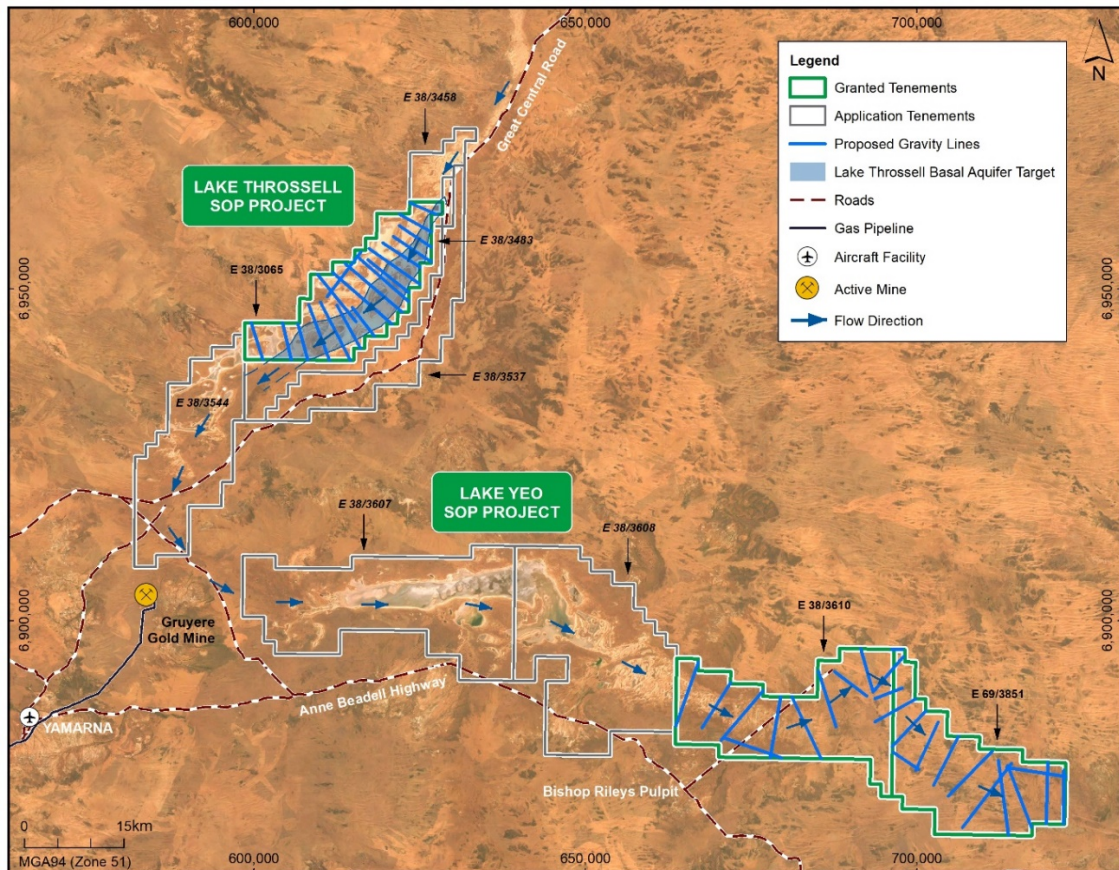


Figure 2: Lake Throssell and Lake Yeo SOP Projects with planned gravity transects

## Lake Throssell Sulphate of Potash Project

(E38/3065, E38/3458, E38/3483, E38/3537 & E38/3544)

The Lake Throssell SOP Project is 100% owned by Trigg and covers an area of 1,085km<sup>2</sup> approximately 180km east of Laverton in Western Australia. The Project is a greenfields discovery and contains a Total drainable Mineral Resource Estimate (MRE) of 14.4Mt of SOP, plus an additional Exploration Target. The October 2021 Scoping Study indicated an initial 21-year mine life producing 245,000tpa SOP, in the lowest cost-quartile and a Top 10 global SOP Producer.

The drainable MRE lies within an extensive palaeovalley system up to 5km wide, 150m deep and approximately 36km in length, with a further 34km of interpreted palaeovalley within the Project area still to be explored. A typical cross-section of the Lake Throssell palaeovalley is shown in Figure 3.

An in-fill gravity survey is now underway for 220 line-kilometre with lines 1km apart and stations spaced at 200m, representing the first of the field activities to be undertaken as part of the recently commenced Pre-Feasibility Study. The program will take approximately 14 days to complete and interpretation of the results will be released early in the new year.

Figure 4 shows the current gravity interpretation for Lake Throssell and location of the proposed transects in relation to the palaeovalley.

The survey is designed to refine the locations for the test-production bores to be drilled mid next year to support the establishment of an Ore Reserve Estimate for the Pre-Feasibility Study and has the potential to extend the current Mineral Resource Estimate with possible tributaries identified in the north-western and south-eastern flanks of E38/3065.

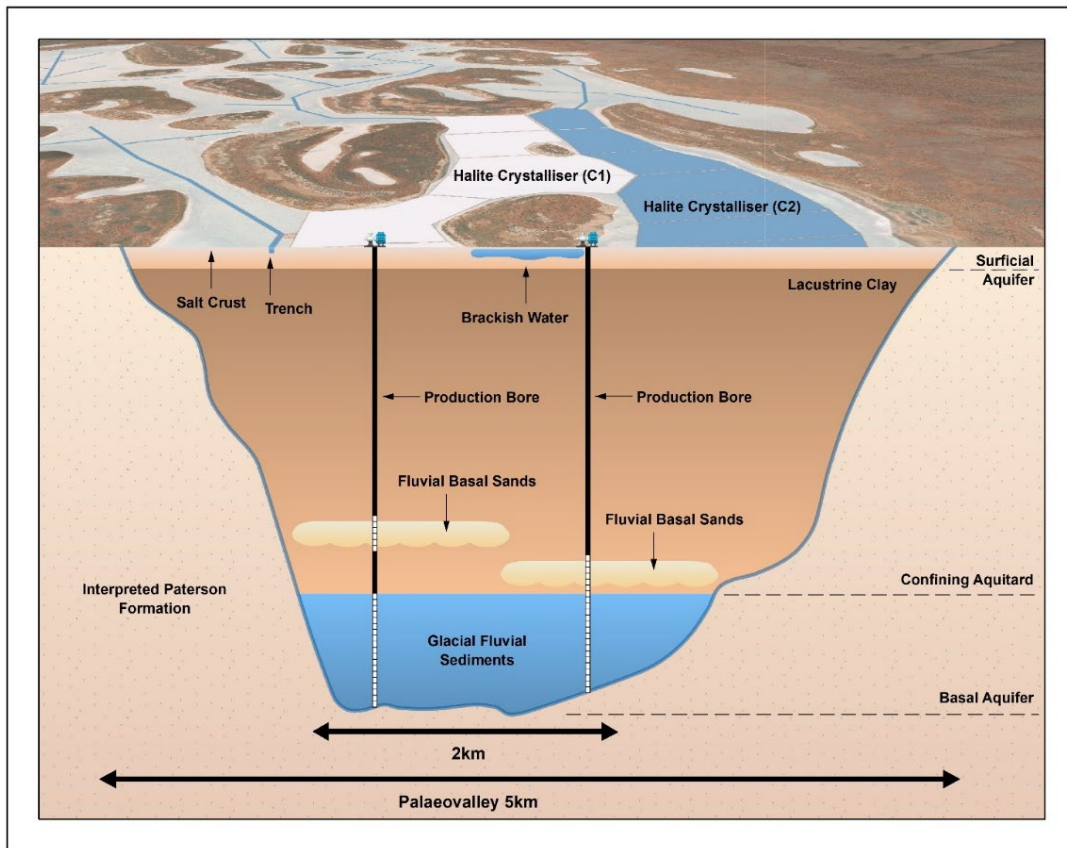


Figure 3: Typical geological cross-section of the Lake Throssell palaeovalley

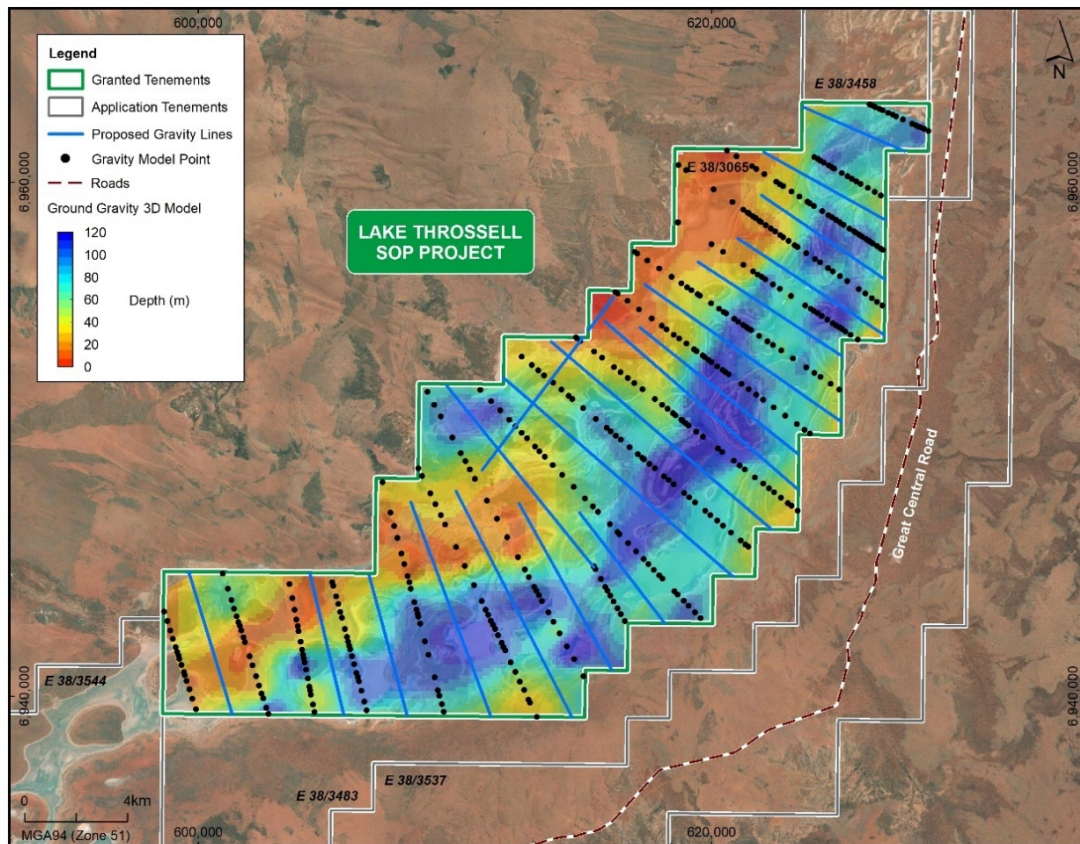


Figure 4: Lake Throssell current gravity interpretation and location of proposed infill program



## Lake Yeo SOP Project

(E38/3607, E38/3608, E38/3610 and E69/3851)

*The Lake Yeo SOP Project lies from to the south of the Lake Throssell SOP Project and covers an area of 1,915km<sup>2</sup>, with over 200km<sup>2</sup> of playa area and approximately 130km downstream in the Lake Throssell palaeovalley.*

Radiometric potassium (K) intensity<sup>2</sup> shows elevated K at the lake surface compared to the surrounding regolith to a greater extent than Lake Throssell and the Aster Gypsum Index<sup>2</sup> maps high levels of gypsum present in parts of the lake, indicating the presence of sulphate (SO<sub>4</sub>) at the surface (Figure 5 & Figure 6). These signatures suggest that Lake Yeo may potentially contain brine of similar grade and composition as Lake Throssell.

Following the execution of a Heritage Protection and Land Access Agreement with the Nangaanya-ku, Traditional Owners of Lake Yeo, tenements E38/3610 and E69/3851 have now been granted.

A maiden 170 line-kilometre gravity survey is now underway to define the underlying palaeovalley and potential storage capacity of the aquifer. The survey will take approximately two weeks to complete, and interpretation of the results will be released early in the new year.

The results of the gravity survey will assist in determining drill-hole targets to assess the porosity of the sediments, depth of the aquifer, and brine composition within the palaeovalley.

Lake Yeo is an important strategic asset within Trigg's project portfolio and provides an important growth opportunity for the Lake Throssell SOP Project.

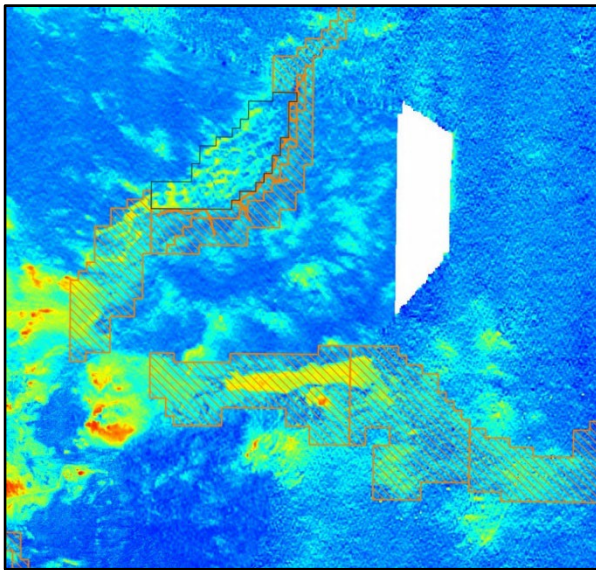


Figure 5: Potassium intensity of Lakes Throssell and Yeo

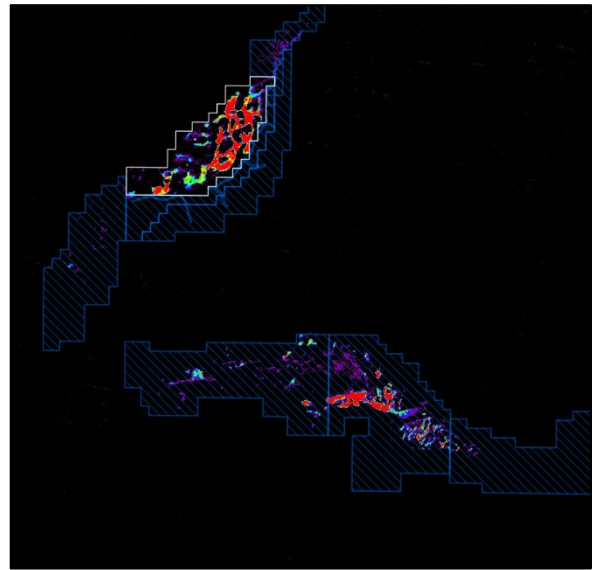


Figure 6: Gypsum intensity of Lakes Throssell and Yeo

<sup>2</sup> Department of Mines, Industry Regulation and Safety Imagery Web Map Service, accessed 22/04/21

This announcement was authorised to be given to ASX by the Board of Directors of Trigg Mining Limited.

*Keren Paterson .*

**Keren Paterson**  
Managing Director & CEO  
Trigg Mining Limited

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### Competent Person Statement

The Mineral Resource Estimate was first announced, together with a Competent Person's Statement from Mr Adam Lloyd of Aquifer Resources Pty Ltd, on 05 October 2021 in the announcement titled "Positive Scoping Study for Lake Throssell Sulphate of Potash Project following Mineral Resource Upgrade". The Company confirms that it is not aware of any new information or data that materially affects the information included in the original market announcement and, in the case of estimates of Mineral Resources, Exploration Target or Ore Reserves that all material assumptions and technical parameters underpinning the estimates in the relevant market announcement continue to apply and have not materially changed. The Company confirms that the form and context in which the Competent Person's findings are presented have not been materially modified from the original market announcements; and that the information in the announcement relating to exploration results is based upon, and fairly represents the information and supporting documentation prepared by the named Competent Persons.

