

20 AUG 2021

ASX: TMG

## ASX ANNOUNCEMENT

### Investor Presentation

Trigg Mining Limited (**ASX: TMG**) (**Trigg** or the **Company**) is pleased to release a copy of its latest Investor Presentation.

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

A handwritten signature in black ink that reads 'Keren Paterson'.

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

For more information please contact:

**Keren Paterson**  
Managing Director & CEO  
[Trigg Mining Limited](#)  
(08) 6114 5685  
[info@triggmining.com.au](mailto:info@triggmining.com.au)

**Nicholas Read**  
Investor and Media Relations  
[Read Corporate](#)  
(08) 9388 1474  
[nicholas@readcorporate.com.au](mailto:nicholas@readcorporate.com.au)



Company Presentation  
20 August 2021

# Lake Throssell: Unlocking the potential of Australia's newest SOP Project

*New high-grade discovery puts Trigg  
Mining front and centre of Australia's  
fast-growing SOP Industry*



**ASX : TMG**

**#mining4farmers**





# THE TRIGG MINING INVESTMENT PROPOSITION

Modern, purpose-driven company helping to deliver global food security



Located in the low-risk jurisdiction of Western Australia



Strategic landholding – 100% rights to 3,500km<sup>2</sup> of an evolving sulphate of potash production hub



Lake Throssell – a rapidly developing **large, high-grade SOP** discovery – Scoping Study due late September



Sustainable mining – solar evaporation of hyper-saline brine



Sulphate of Potash (SOP) – a premium mineral fertiliser essential for high-value agricultural products



Strong global market and demand fundamentals driven by global mega trends



Australia currently imports all its potash needs



# CORPORATE OVERVIEW

## Board of Directors

Managing Director & CEO	Keren Paterson
Non Executive Chairperson	Michael (Mike) Ralston
Non Executive Director	Rod Baxter
Non Executive Director	William (Bill) Bent

## Management Team

Chief Operating Officer	Tony Chamberlain
Corporate Finance	John Ciganek, Euclase Capital
Principal Hydrogeologist	Adam Lloyd, Aquifer Resources
Study Manager	Chris Williams

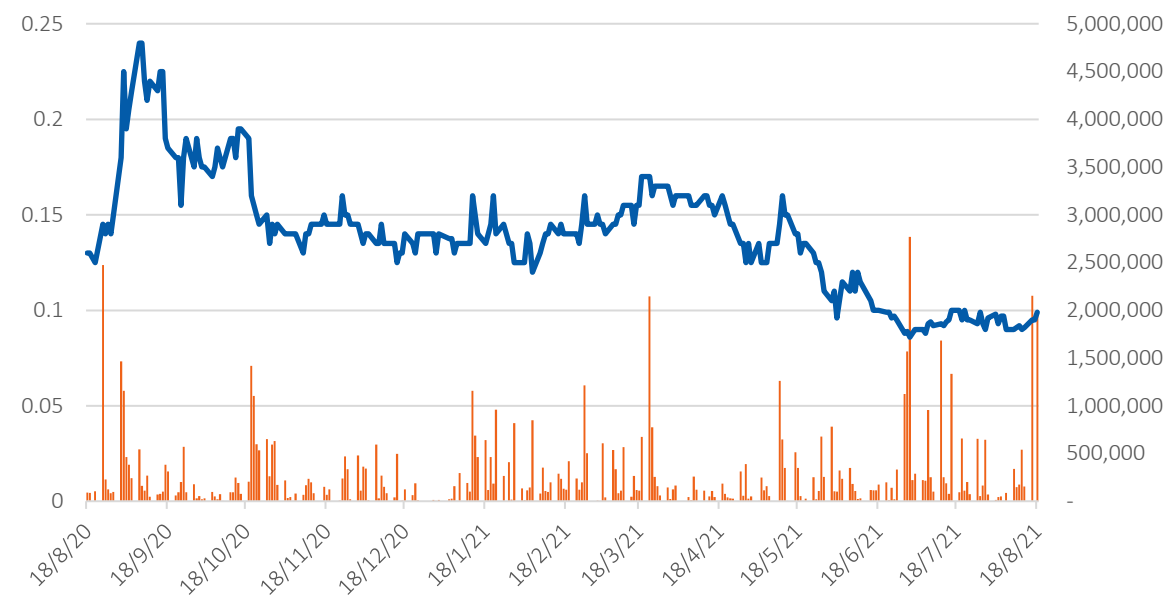
## Top 10 Shareholders

Michael Ralston & Sharon Ralston <Ralston Family>	4.95%
Julian Stephens <One Way>	3.57%
Susetta Holdings Pty Ltd	3.35%
KP Consulting Group <SSB>	2.84%
John Richard Small	2.62%
Kenneth William Vidler	1.96%
William Bent <Bent Family>	1.83%
Puresteel Holdings Pty Ltd <Rattigan Super Fund>	1.66%
Silverfox Holdings <Silverfox Family>	1.45%
Rock Cod Investments	1.43%
<b>Total</b>	<b>24.30%</b>

## Capital Structure

Ordinary Shares (TMG)	114,506,665
Share Price (18/08/21)	\$0.095
Market Capitalisation	\$10.8 million
Cash (30/06/21)	\$4.1 million
Debt	Nil
Enterprise Value	\$6.7 million

TMG 12-month share price





# POSITIONED TO RAPIDLY RESPOND TO GROWING DEMAND FOR HIGH-QUALITY FERTILISERS

100% ownership of an evolving SOP production hub in Western Australia.

- 1 **Lake Throssell**  
Total Mineral Resource of 14.3Mt @ 10.4kg/m<sup>3</sup> SOP<sup>1</sup> plus  
Exploration Target of 2.6 - 9.4Mt  
➤ Central production hub located close to transport infrastructure
- 2 **Lake Yeo**  
From 35km to the south of Lake Throssell - 1,915km<sup>2</sup> project area with 130km of palaeovalley on the same interpreted valley as Lake Throssell  
➤ Significant exploration potential and expansion case for Lake Throssell
- 3 **Lake Rason SOP**  
Inferred Mineral Resource of 5.9Mt @ 5.1kg/m<sup>3</sup> SOP  
➤ Potential satellite feed for Lake Throssell

<sup>1</sup> See Competent Person's Statement and Appendices

## Scoping Study for Lake Throssell planned for September

The potential quantity and grade of the Exploration Target is conceptual in nature. There has been insufficient exploration in these areas to estimate a Mineral Resource. It is uncertain if further exploration will result in the estimation of a Mineral Resource.

Total Drainable Mineral Resources (TDMR): ASX announcements - Australian Potash (30/07/2021), SO4 Limited (11/10/2019), Kalium Lakes (23/10/2020) and Trigg Mining (11/05/2021). All figures are rounded.







# WHY SULPHATE OF POTASH?



# WHAT IS SULPHATE OF POTASH (SOP)?

SOP (Potassium Sulphate,  $K_2SO_4$ ) is an essential fertiliser for high-value, chloride sensitive crops such as fruit, vegetables, avocados, coffee beans, grapes, tree nuts, cocoa, anything grown under glass and in arid and acidic soils.

## POTASSIUM

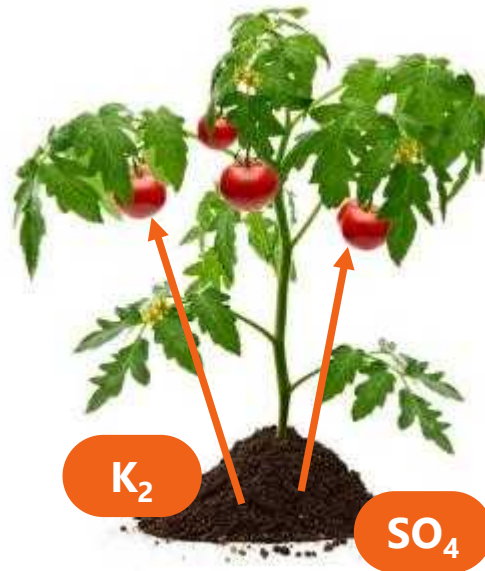
( $K_2$ )

- › Essential for all living things
- › Promotes resistance to disease, drought and frost
- › Improves quality, taste and appearance
- › Required in large quantities for proper plant growth and optimal crop yields

## SULPHATE ( $SO_4$ )

SULPHUR + OXYGEN

- › Necessary for the formation of chlorophyll and plant proteins
- › Increases crop yields and produce quality



## Vs. MURIATE OF POTASH (MOP)

Muriate of Potash (Potassium Chloride) is a cheaper, more abundant source of potash, BUT it contains almost 50% chloride which is detrimental to chloride-sensitive crops and arid soils. It also contains no sulphur.



# STEADY DEMAND GROWTH DRIVEN BY GLOBAL MEGA TRENDS

World  
Population



1.1% pa growth  
to reach 8.6 billion in 2030

+

Arable  
Land



Reduced by more than half  
since 1975

+

Fertiliser  
Application



More than doubled  
In the past 40 years

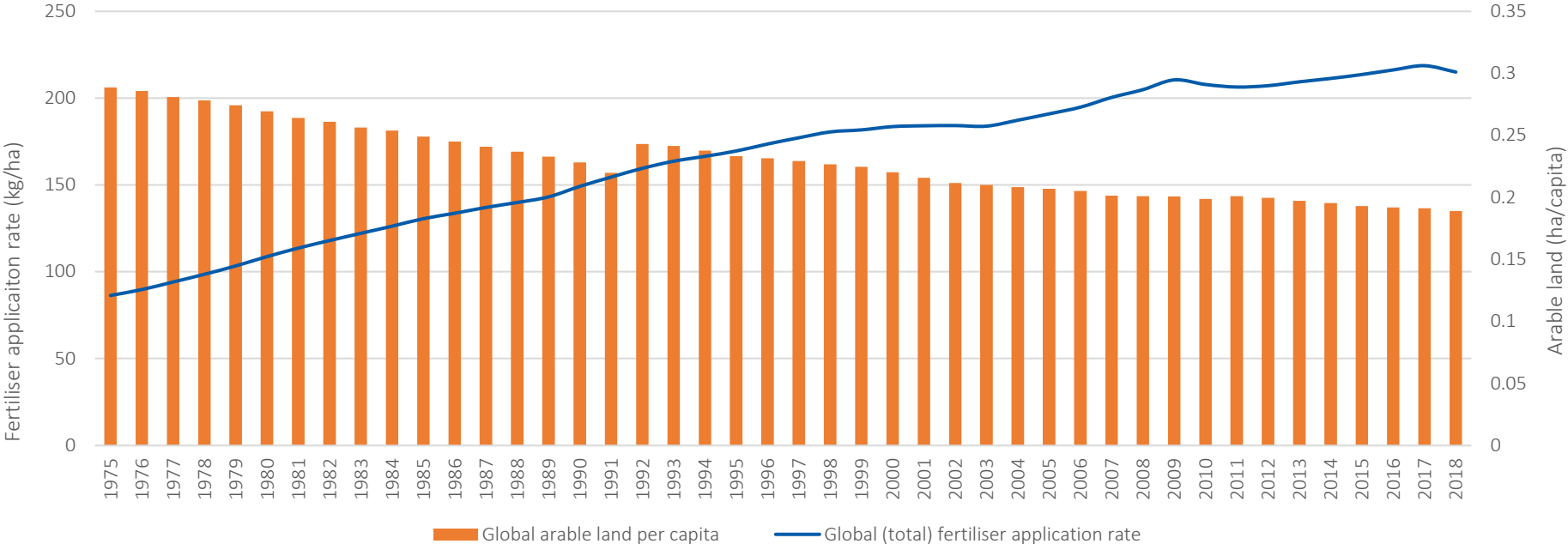
=

Global SOP  
Demand



7 Mt expanding  
at 3% pa  
(>200,000tpa)

Global arable  
land and  
fertiliser  
application rates



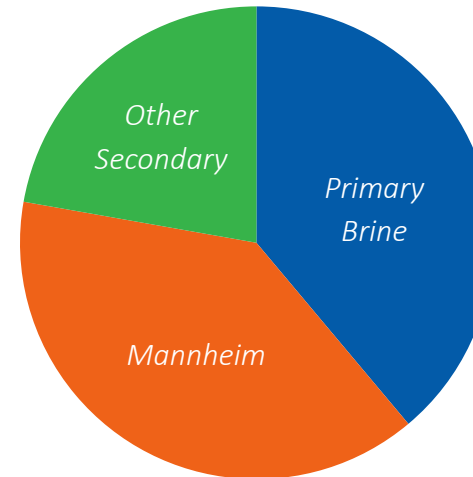
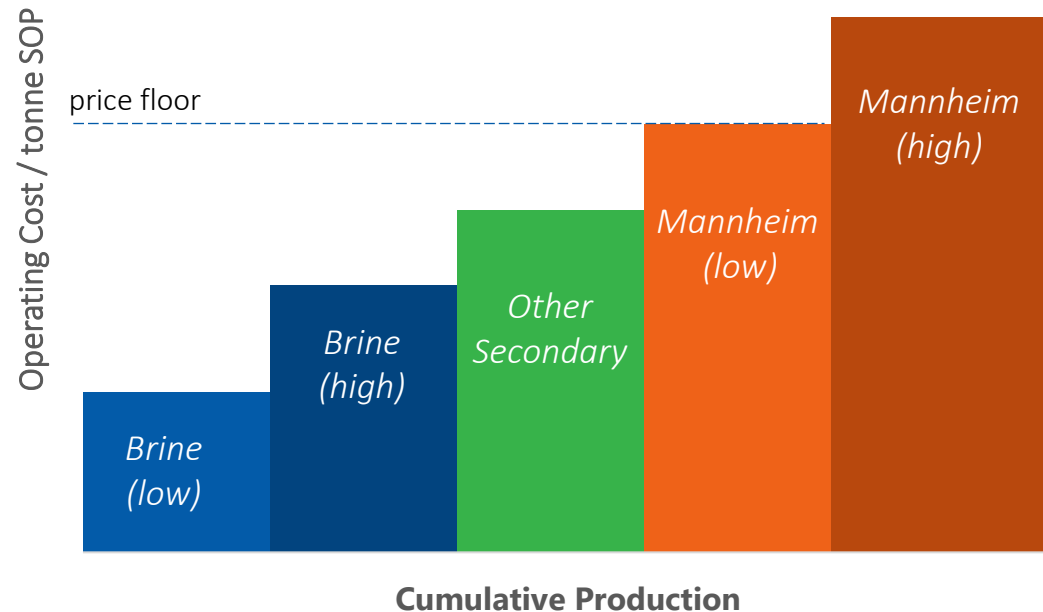
Sources: United Nations, World Bank CRU



# BRINE SOP – LOWEST COST PRODUCTION

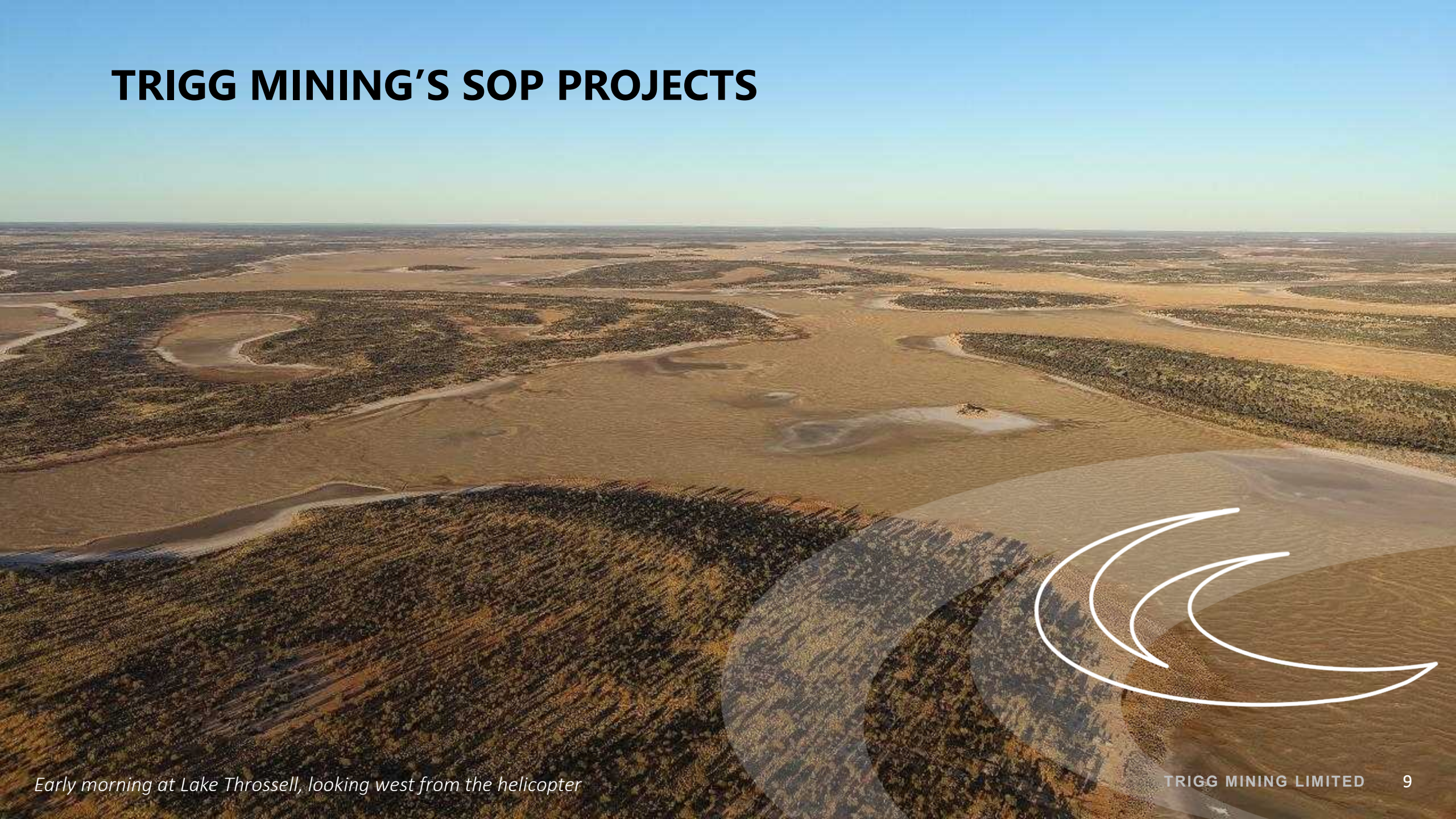
- Primary production of SOP, from brine, is the lowest cost source of SOP but there is insufficient resources available to meet global demand of ~7Mtpa
- The Mannheim Process is required to meet demand. The process heats MOP with sulphuric acid to around 800°C, producing hydrochloric acid as a waste product
- As both methods are needed to meet global demand the Mannheim Process creates an industry price floor well-above the cost of brine sources

*With the natural endowment of the minerals dissolved in brine and the ability to harvest solar evaporation to produce SOP, brine producers are generally low-cost producers*





# TRIGG MINING'S SOP PROJECTS



*Early morning at Lake Throssell, looking west from the helicopter*



# GEOLOGY / HYDROGEOLOGY



The projects lie near the terminus of extensive palaeovalley catchment areas (ancient river valleys) which extend for over 500km and are underlain by potassium-bearing source rocks (granites, sandstones and salt diapirs).

Brine solutions carrying potassium mineralisation have been concentrating in the palaeovalleys and salt lakes (evaporite systems) for millions of years.



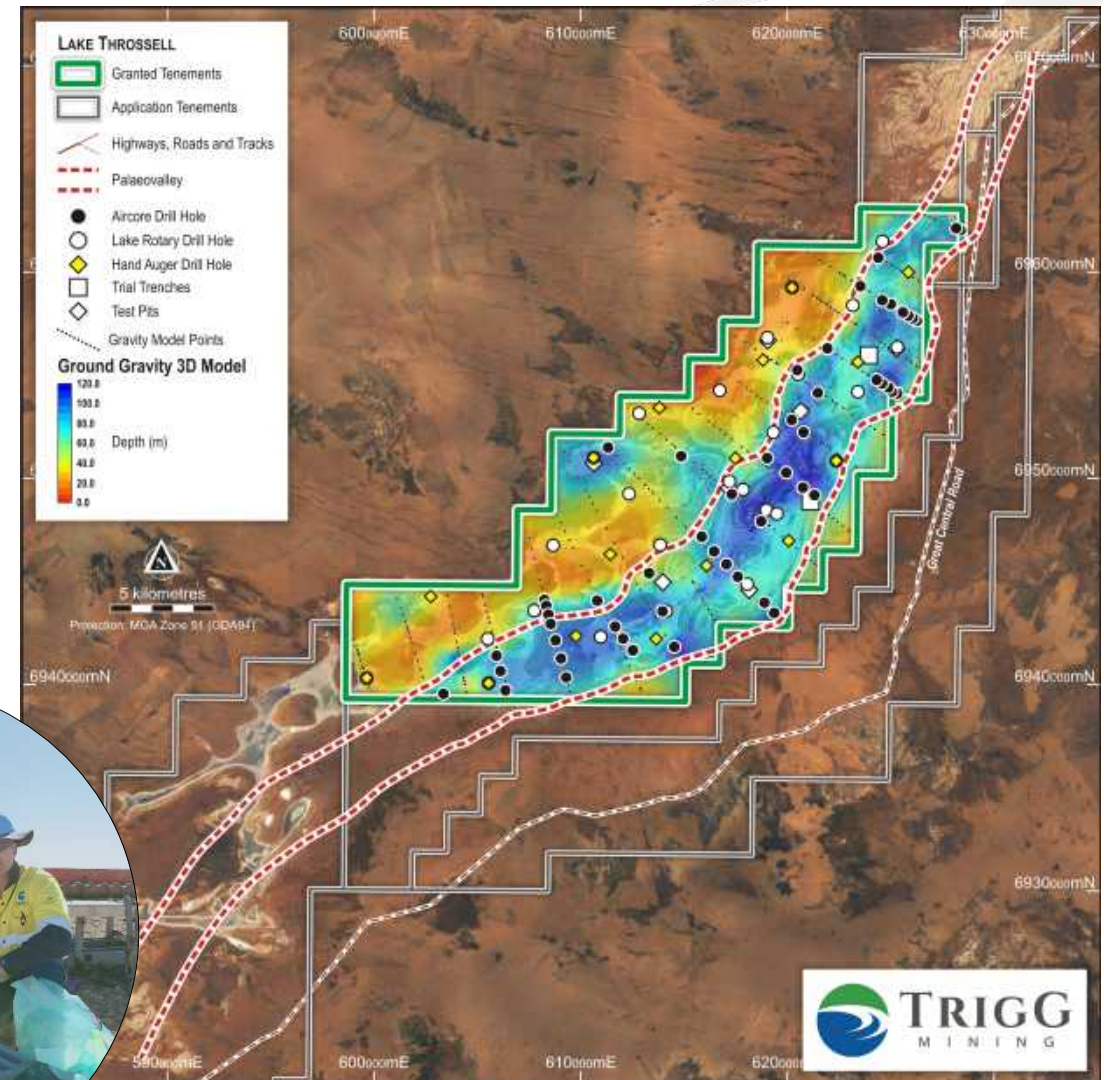


# 1 LAKE THROSSELL SULPHATE OF POTASH PROJECT

An extensive sulphate of potash discovery

## HIGHLIGHTS

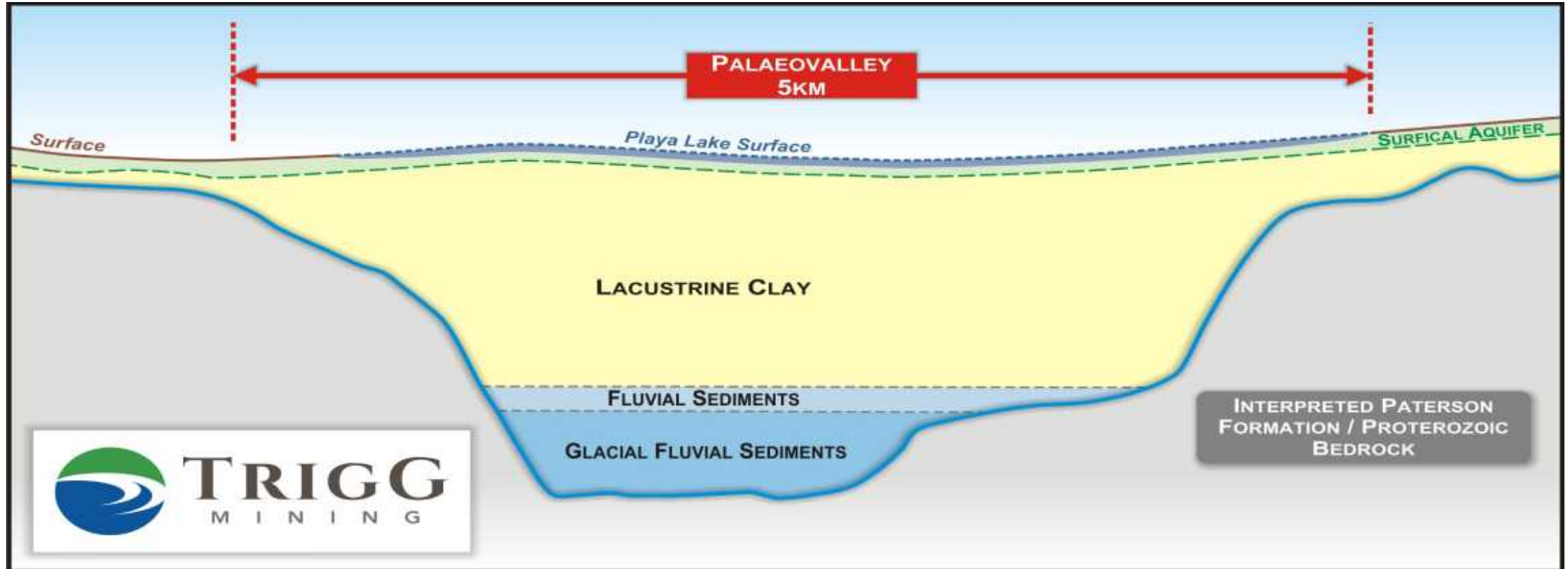
- Total Mineral Resource – 14.3Mt @ 4,665mg/L K (or 10.4kg/m<sup>3</sup> SOP)
- Additional Exploration Target of 2.6 to 9.4Mt SOP
- Consistent and favourable chemistry throughout the Mineral Resource
- Large, high-grade SOP Project





# 1 LAKE THROSSELL SULPHATE OF POTASH PROJECT

Palaeovalley up to 5km wide, 100m deep and ~36km along strike within the central granted tenement



# 1 LAKE THROSSELL SOP PROJECT DEVELOPMENT



## Successful completion of brine pump trials

- Indicated Mineral Resource for the surficial aquifer of 1.9Mt @ 4,985mg/L K (or 11.1kg/m<sup>3</sup> SOP) to support the Scoping Study due later this Quarter
- 2022 field season - install test bores to demonstrate extraction of the basal aquifer brines and increase resource confidence of the lower aquifer horizons





# 1 LAKE THROSSELL SULPHATE OF POTASH PROJECT

## Located nearby established Infrastructure

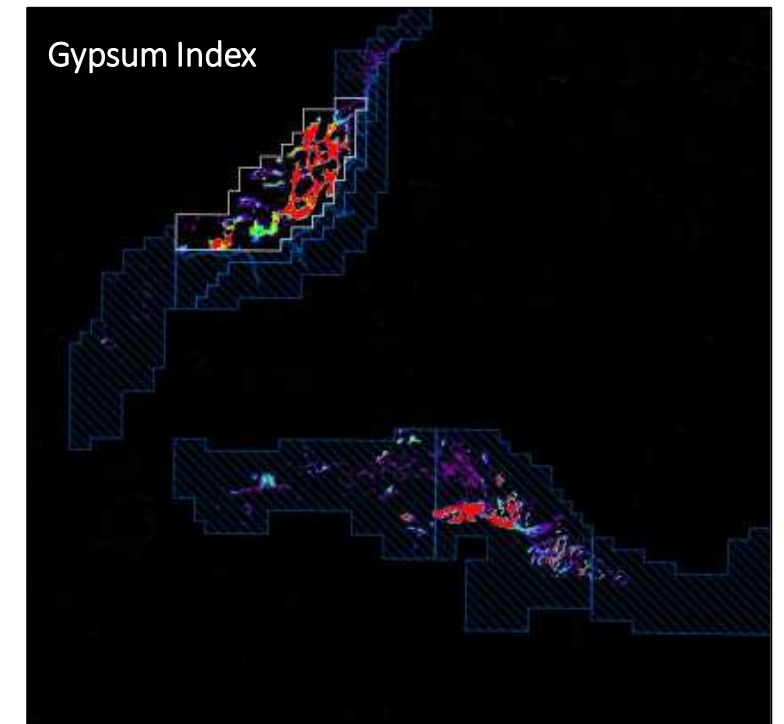
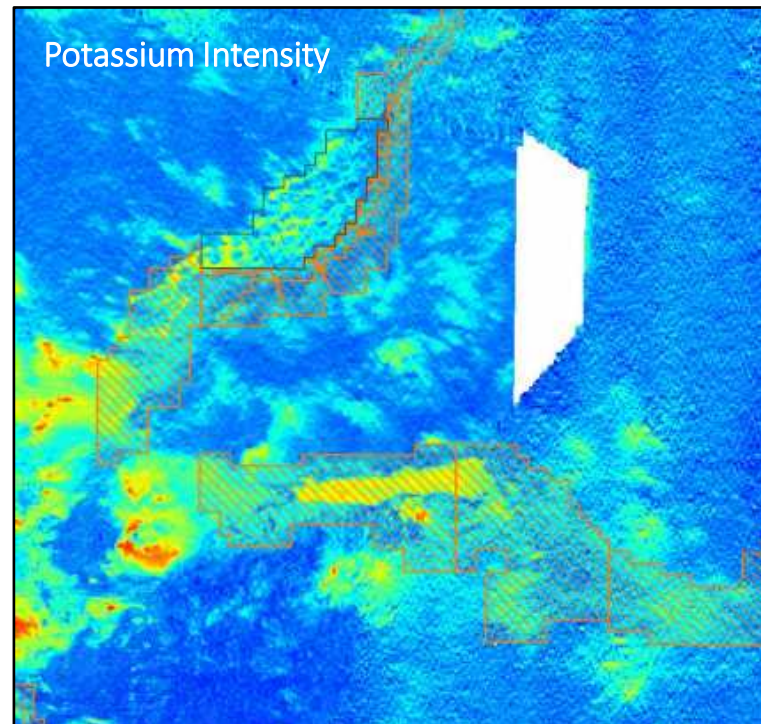
- The Great Central Road passes through the Project connecting Laverton in WA to Winton in QLD via Alice Springs
  - Upgrade underway to establish the Outback Highway to provide a reliable trucking route across central Australia
  - First 40km from Laverton is nearing completion with remaining ~170km to Lake Throssell anticipated to be completed over the next 3 years
  - The entire Outback Highway is planned for completion in 2028
- ~300km to the Malcom Railhead at Leonora
- ~850km total distance to the container terminal at Port of Fremantle



## 2 LAKE YEO – EXPLORATION POTENTIAL

### Potential Lake Throssell Expansion

- Lake Yeo SOP Project covers 1,915km<sup>2</sup> including more than 200km<sup>2</sup> of playa lake and almost 130km of interpreted palaeovalley
- The Project lies along the palaeovalley from Lake Throssell from ~35km to the south
- Radiometric potassium (K) intensity<sup>2</sup> shows elevated K at the lake surface compared to surrounding regolith to a greater extent than Lake Throssell
- The Aster Gypsum Index<sup>2</sup> maps high levels of gypsum present in parts of the lake indicating sulphate (SO<sub>4</sub>) presence at the surface



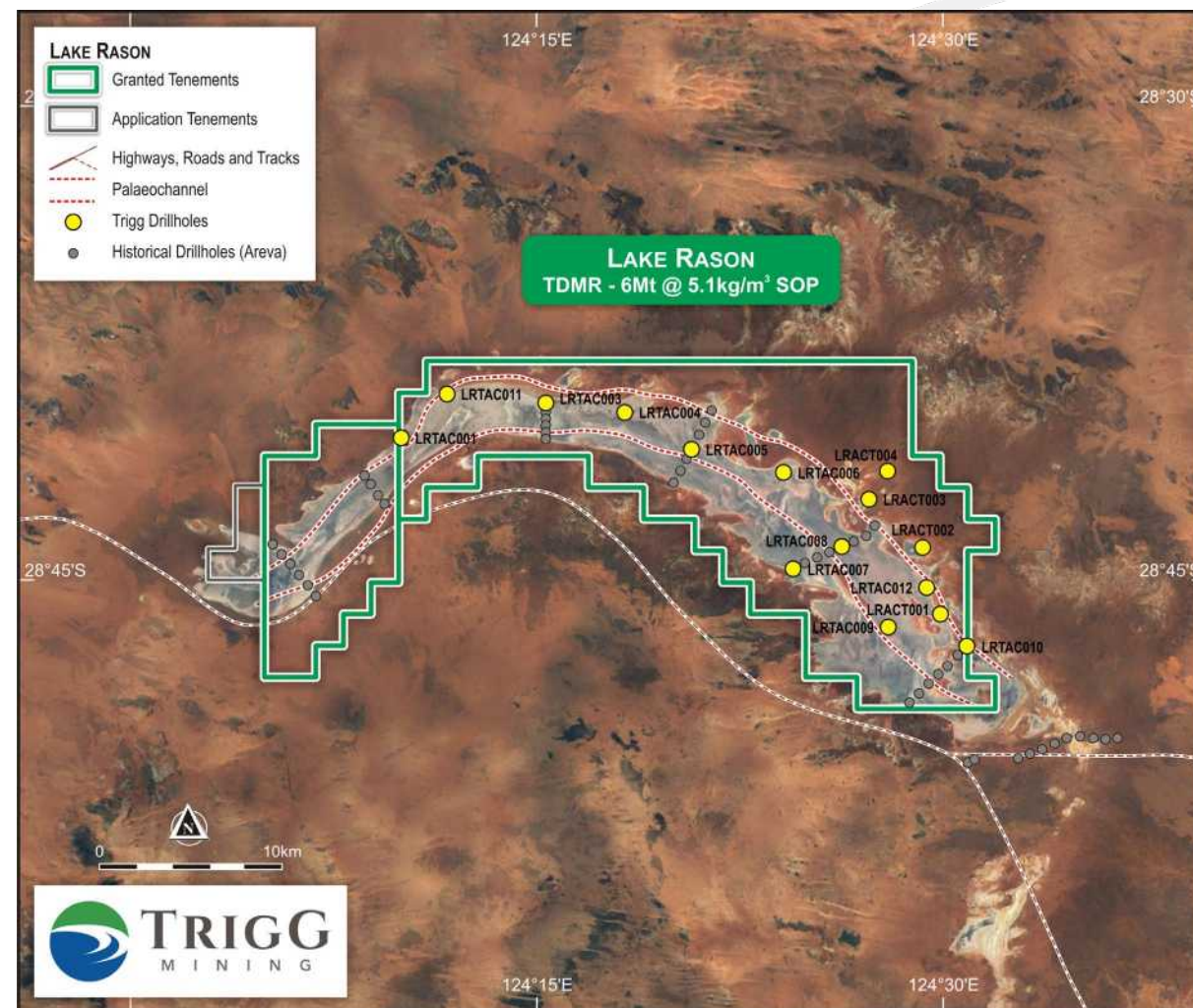
<sup>2</sup>Department of Mines, Industry Regulation and Safety Imagery Web Map Service, accessed 22/04/21



### 3 LAKE RASON SULPHATE OF POTASH PROJECT

#### Potential satellite project

- The Lake Rason Project covers 500km<sup>2</sup> including 195km<sup>2</sup> of playa lake and 65km of interpreted palaeovalley
- Contains an Inferred Mineral Resource of 6Mt @ 5.1kg/m<sup>3</sup> SOP<sup>1</sup>
- Potential to increase volume and grade to the west within the newly granted tenement, with the westernmost hole drilled (LRTAC001) returning results of up to 6.6kg/m<sup>3</sup> SOP



<sup>3</sup> See Competent Person's Statement and Appendices

# POTENTIAL MULTI-DECADE SOURCE OF AUSTRALIAN SOP FOR GLOBAL FOOD SECURITY

## Centred SOP Production hub at Lake Throssell

## Lake Throssell

- Scoping Study on first 36km of palaeovalley nearing completion
- Potential expansion with Exploration Target on additional 34km of interpreted palaeovalley

## Lake Yeo

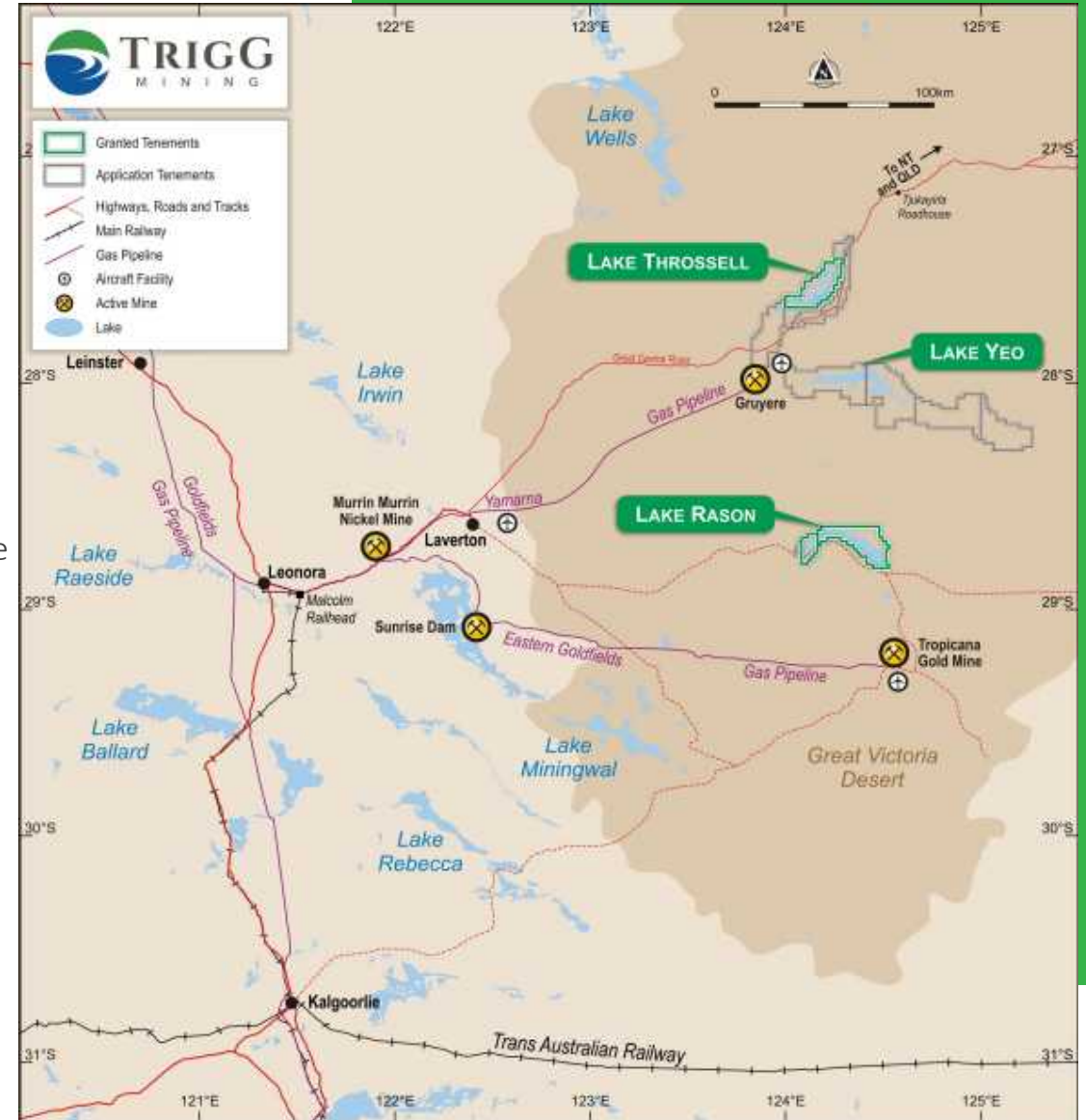
- 2 • From 35km to the south significant exploration potential with 2x the strike extent as Lake Throssell under application

## Lake Rason SOP

- 3 • Additional potential satellite project

## NEXT STEPS

- Scoping study for Lake Throssell due late September
- Continue base-line environmental studies for environmental approvals
- Convert remaining Inferred resource to Indicated
- Bulk evaporation trial





# WHY INVEST IN TRIGG MINING?



1. Lake Throssell – A large, high-grade discovery with genuine potential to become a multi-decade primary source of SOP
2. Tier-1 location
3. Well supported by infrastructure – roads and rail
4. Total Mineral Inventory of >20Mt of SOP, with further potential to expand
5. Strong global market and demand fundamentals driven by global mega trends
6. A motivated and experienced team, driven to deliver value for shareholders
7. Company is highly leveraged to growth

# DISCLOSURES AND DISCLAIMERS

## Cautionary Statement

This presentation (Presentation) is for informational purposes only and is not a prospectus, disclosure document or offer document under the Corporations Act 2001 (Cth) (Corporations Act) or any other law. This Presentation does not constitute, and is not to be construed as, an offer to issue or sell, or a solicitation of an offer or an invitation to subscribe for, buy or sell securities in Trigg Mining Limited ACN 168 269 752 (TMG).

This Presentation does not contain, and does not purport to contain, all information that recipients may require to make an informed assessment of TMG or its securities. Statements in this Presentation are made only as at the date of this Presentation unless otherwise stated and remain subject to change without notice. Neither TMG nor any of its directors, officers, employees, agents or consultants makes any representation or warranty, express or implied, as to the fairness, reliability, accuracy or completeness of the information contained in this Presentation, or as to any omission from this Presentation. To the maximum extent permitted by law, each such person disclaims any liability (including by reason of negligence or negligent misstatement) in relation to this Presentation, the information contained in it, or any omissions from it. To the maximum extent permitted by law, each such person also disclaims any responsibility to inform any recipient on any matter which subsequently comes to their notice which may affect the information contained in this Presentation, and undertakes no obligation to provide any additional or updated information whether as a result of new circumstances, future events or results or otherwise.

## Forward Looking Statements

This Presentation contains 'forward-looking information' that is based on TMG's expectations, estimates and projections as of the date on which the statements were made. This forward-looking information includes, among other things, statements with respect to prefeasibility and definitive feasibility studies, TMG's business strategy, plans, development, objectives, performance, outlook, growth, cash flow, projections, targets and expectations, mineral reserves and resources, results of exploration and related expenses. Generally, this forward-looking information can be identified by the use of forward-looking terminology such as 'outlook', 'anticipate', 'project', 'target', 'potential', 'likely', 'believe', 'estimate', 'expect', 'intend', 'may', 'would', 'could', 'should', 'scheduled', 'will', 'plan', 'forecast', 'evolve' and similar expressions. Persons reading this Presentation are cautioned that such statements are only predictions, and that TMG's actual future results or performance may be materially different. Forward-looking information is subject to known and unknown risks, uncertainties and other factors that may cause TMG's actual results, level of activity, performance or achievements to be materially different from those expressed or implied by such forward-looking information. Forward-looking information is developed based on assumptions about such risks, uncertainties and other factors set out herein, including but not limited to the risk factors set out in Section 5 of the prospectus dated 17 September 2020. A copy of the prospectus may be viewed online at [www.triggmining.com.au](http://www.triggmining.com.au)

## Competent Person Statement

For information referring to the exploration results in this document, refer to announcements dated, 02/03/20, 16/02/21, 09/03/21, 22/03/21 and 11/05/21. The Company confirms that it is not aware of any new information or data that materially affects the information included in the original market announcements 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.







Level 1, Office E, 1139 Hay Street  
West Perth, WA 6005  
(08) 6114 5685

[info@triggmining.com.au](mailto:info@triggmining.com.au)

[www.triggmining.com.au](http://www.triggmining.com.au)



# APPENDIX A – TOTAL MINERAL RESOURCE ESTIMATE

Aquifer	Mineral Resource Category	Volume (10 <sup>6</sup> m <sup>3</sup> )	Total Porosity (%)	Brine Volume (10 <sup>6</sup> m <sup>3</sup> )	Specific Yield (%)	Drainable Brine Volume (10 <sup>6</sup> m <sup>3</sup> )	K Grade (mg/L)	K Mass (Mt)	SO <sub>4</sub> Grade (mg/L)	SO <sub>4</sub> Mass (Mt)	Equivalent SOP Grade (K <sub>2</sub> SO <sub>4</sub> ) (kg/m <sup>3</sup> )	Drainable Brine SOP Mass (Mt)	Total Brine SOP Mass (Mt)
<b>LAKE THROSSELL MINERAL RESOURCE</b>													
Surficial	Indicated	1,008	0.40	403	0.17	170	4,985	0.8	22,125	3.8	11.1	1.9	4.5
<b>Total Indicated Resource</b>		<b>1,008</b>		<b>403</b>		<b>170</b>	<b>4,985</b>	<b>0.8</b>	<b>22,125</b>	<b>3.8</b>	<b>11.1</b>	<b>1.9</b>	<b>4.5</b>
Surficial	Inferred	3,074	0.43	1,313	0.10	310	4,605	1.4	21,910	6.8	10.3	3.2	13.5
Confining Layer	Inferred	8,793	0.45	3,957	0.04	350	4,595	1.6	23,140	8.1	10.3	3.6	40.6
Basal	Inferred	4,446	0.37	1,659	0.12	545	4,640	2.5	23,350	12.7	10.3	5.6	17.2
<b>Total Inferred Resource</b>		<b>16,313</b>		<b>6,929</b>		<b>1,205</b>	<b>4,620</b>	<b>5.6</b>	<b>22,920</b>	<b>9.8</b>	<b>10.3</b>	<b>12.4</b>	<b>71.2</b>
<b>Total</b>		<b>17,321</b>		<b>7,332</b>		<b>1,375</b>	<b>4,665</b>	<b>6.4</b>	<b>22,822</b>	<b>13.6</b>	<b>21.4</b>	<b>14.3</b>	<b>75.7</b>
<b>LAKE RASON INFERRED MINERAL RESOURCE</b>													
Surficial	Inferred	3,060	0.4	1220	0.1	306	2,290	0.70	21,400	6.55	5.10	1.56	6.23
Crete	Inferred	5,020	0.38	1910	0.07	351	2,330	0.82	20,900	7.34	5.20	1.83	9.91
Mixed	Inferred	230	0.3	70	0.1	23	2,390	0.05	21,900	0.50	5.32	0.12	0.36
Basal Sand	Inferred	1,020	0.3	310	0.21	214	2,390	0.51	22,600	4.84	5.33	1.14	1.63
Saprolite	Inferred	2,800	0.2	560	0.03	84	2,210	0.19	21,000	1.76	4.92	0.41	2.76
Saprock	Inferred	9,310	0.1	930	0.02	186	2,050	0.38	21,000	3.91	4.57	0.85	4.25
<b>Total</b>		<b>21,400</b>		<b>4,990</b>		<b>1,160</b>	<b>2,280</b>	<b>2.65</b>	<b>21,400</b>	<b>24.89</b>	<b>5.08</b>	<b>5.91</b>	<b>25.2</b>
<b>TOTAL MINERAL RESOURCE</b>		<b>38,721</b>		<b>12,322</b>		<b>2,535</b>	<b>3,574</b>		<b>22,171</b>		<b>7.93</b>	<b>20.2</b>	<b>100.9</b>
<b>LAKE THROSSELL EXPLORATION TARGET (in addition)</b>													
Lower Estimate						288	4,261	1.2			9.5	2.6	
Upper Estimate						945	4,616	4.2			10.3	9.4	

**Note:** Errors may be present due to rounding, approximately 1.2Mt of Drainable SOP Mass is present in Exploration License Application E38/3437. Approximately 2.86Mt of the Drainable SOP Mass is present in Exploration License Applications E38/3544, E38/3483, E38/3458, and E38/3537. Total porosity and total brine SOP mass is provided to compare the total SOP tonnes with the drainable Resources. As can be seen, the total brine volume of 102.53Mt is significantly higher than reported drainable brine volume of 20.19Mt. The drainable brine volume represents the amount of SOP that can be abstracted from the deposit under normal pumping conditions. For economic production, the drainable brine volume is the most important volume because only a proportion of the total brine present can be typically abstracted from the deposit. The potential quantity and grade of the Exploration Target is conceptual in nature. There has been insufficient exploration in these areas to estimate a Mineral Resource. It is uncertain if further exploration will result in the estimation of a Mineral Resource.



# APPENDIX B – SOP EVAPORATION PROCESS



**PUMPING FROM  
TRENCHES AND BORES**



**SOLAR EVAPORATION**



**HARVESTING**



**PURIFICATION**



**SOP  
FERTILISER**