



ASX Release: 31 October 2019

## Quarterly Activities Report - Period Ended 30 September 2019

**Aus Tin Mining Ltd**  
("the Company")

**ASX CODE: ANW**

**At Time of Publication**

**Shares on Issue**  
2,489 million

**Unlisted Options**  
243 million

**Market Capitalisation**  
\$4.95M (at \$0.002/share)

**DIRECTORS**

Brian Moller (Chairman)  
Nick Mather  
John Bovard  
Richard Willson

**CHIEF EXECUTIVE OFFICER**

Peter Williams

**COMPANY SECRETARY**

Karl Schlobohm

**CONTACT DETAILS**

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**HIGHLIGHTS**

- Granville Tin Mine (TAS) placed on temporary care & maintenance
- Interim drilling program at Taronga (NSW) to test upside for tin grade
- Successful exploration for critical minerals at Emmaville & Torrington (NSW)

**REVIEW OF ACTIVITIES - SUMMARY**

**Granville Tin Project**

During the quarter the Company purchased and commissioned a crushing plant enabling an increased mill feed rate with a commensurate improvement in pre-concentrate production. At the mine the latest blast holes assaying up to 4.9%Sn over an approx 3m interval highlighted the potential for increased feed grade to the mill.

However, the failure of key mine equipment at the end of the month resulted in the mine being placed on temporary care & maintenance. The Company is currently pursuing avenues to extract value by the most economically efficient means.

**Taronga Tin Project & Emmaville / Torrington Exploration**

The original plan of works for Taronga Stage 1 was deferred following the closure at Granville and deterioration of the prevailing NSW drought conditions. Instead the Company proposes to undertake an interim drilling program aimed at delivering an updated mineral resource and demonstrate grade upside, scheduled to commence in the next months.

During the quarter the Company undertook field reconnaissance within its Emmaville / Torrington licences and obtained high-grade rock chip results for a number of critical minerals, including tungsten at McCowens (up to 3.36%W) silver and polymetallic at Reids (212g/t Ag, 5.79%Cu, 1.24%Zn and 179ppm In).

**Corporate**

During the quarter the Company received a letter of funding support from its largest shareholder, DGR Global for an amount of up to \$1,000,000 for a period of up to 12 months. Subsequent to the end of the quarter, the Company received a provisional payment of approx US\$41,000 for a quantity of tin concentrate sold to Traxys, and announced a corporate and project related capital raising program, under which it had completed an initial placement for \$250,000 and intends to convert debt and raise additional monies via a rights issue, with proceeds to be utilised for planned activities at Taronga, maintenance at Granville and general working capital.

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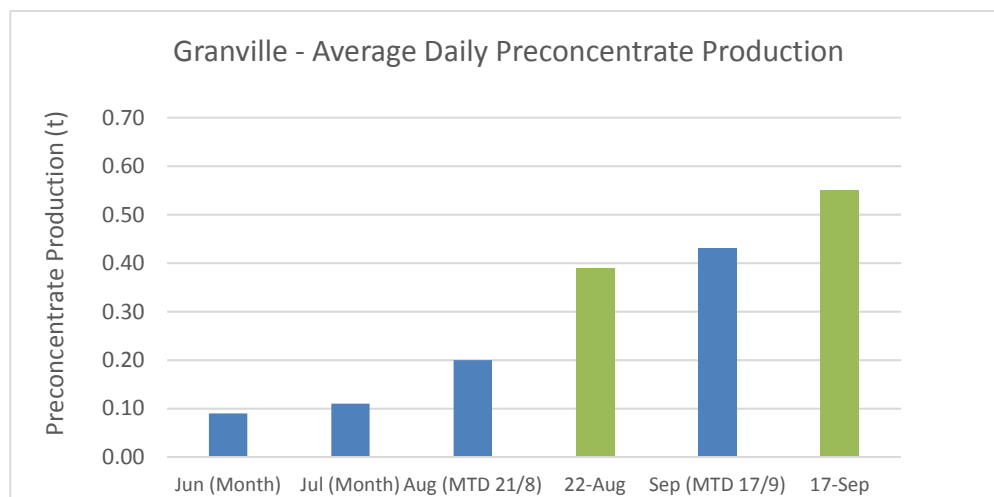
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## SEPTEMBER 2019 QUARTER ACTIVITIES

### Granville Tin Project (TAS)

The quarter commenced with the purchase and refurbishment of a mobile crushing plant that enabled the crushing of high-grade skarn material. Commissioning of the crusher was completed in August with an immediate uplift in the mill feed rate and consequently the production of tin pre-concentrate (**Figure 1**) that continued to improve until late in the quarter. At the mine the latest blast holes assaying up to 4.9%Sn over an approx 3m interval highlighted the potential for increased feed grade to the mill.



**Figure 1 – Trend of daily preconcentrate production**

**Table 1: KPIs for Granville Tin Project – June 2019 Quarter**

Key Performance Indicator (KPI)	Total
Skarn Mined (t)	500
Waste Mined (t)	5,060
Plant Feed (t)	613
Plant Feed (%Sn)	1.12
Pre-Concentrate Produced (t)	8.9
Final Concentrate Dispatched (t)	3.6

However, in late September, following the failure of major mine equipment, a strategic review of the operation was undertaken, and the decision made to place the operation on temporary care & maintenance to reduce costs, and during which time avenues to extract value by the most economically efficient means have been pursued. All readily available concentrate at the time of closure (7.7 tonnes) has since been sold to Traxys and proceeds received subsequent to the end of the quarter.

Notwithstanding operations had been on an improving trendline at the time the strategic review was announced, analysis of recent actual vs target Key Performance Indicators (**KPIs**) highlighted that several KPIs were yet to be achieved, albeit several were either transitioning (eg. high grade ore at base of pit was ready to be mined) and/or had recently been implemented (ie. commencement of crushing and processing of crushed material) but had yet to be fully reflected in the actual results (**Table 2**). Other KPIs such as recovery will require the installation of additional equipment and hours of operation will require regulatory approvals, and work to undertake this is being expedited.

**Table 2: Summary of Granville Tin Mine KPIs since implementation of crusher in August 2019**

KPI	Achieving Target KPI	Actual / Target / Planned Situation
Mine Grade	No	Actual approx. 1.4% Sn; Target 2.0% Sn Transitioning to more selective mining, up to 4.9%Sn over 3m depth assayed at base of pit
Crushed Product Size	Yes	Crusher generating -25mm material since August 2019
Mill Feed Rate	Exceeding	Actual approx. 2.9tph; Target 2.5tph Optimised feed rate to be further reviewed taking into consideration impact of increased feed rate on tin recovery absent installation of additional equipment in gravity and flotation circuits
Mill Feed Grade	No	Actual 1.4% Sn; Target 2.0%Sn Transitioning to more selective mining (see above)
Mill Operating Hours	No	Actual approx. 10 hour /day; Target minimum 20 hours / day Planned transition to 24 hours operations with additional staffing
Tin Recovery	No	Actual approx. 42% (to preconcentrate); Target KPI 60% (to preconcentrate), Planned installation of additional equipment in gravity and flotation circuits

The Company has estimated the cost to resume operations and installation of additional equipment at the plant at approximately \$500,000, including a provision for working capital and finalisation of the purchase of the crusher. The Company is currently pursuing avenues to extract value by the most economically efficient means and the resumption of operations will be contingent on securing appropriate funding.

The Company has been advised of the pending grant of E9/2019, an exploration licence of 83km<sup>2</sup> surrounding the Company's current mining leases, and considered prospective for a tin based on a number of magnetic targets, with further details to be provided once granted.

### **Taronga & Torrington Tin Project (NSW)**

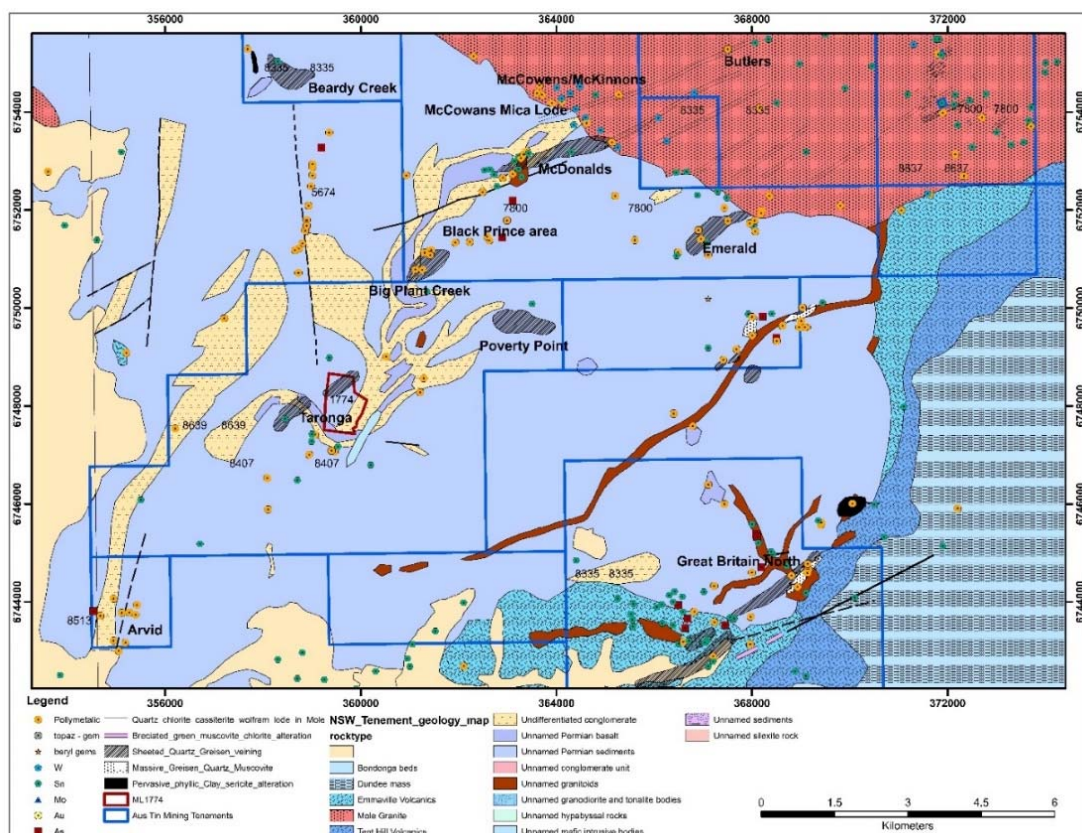
During the quarter it was announced that further work on Taronga Stage 1 would be deferred based on delayed production at Granville and intense drought conditions prevailing in northern NSW. However, the Company had already been considering an interim program less reliant on water, but which would still progress towards a Definitive Feasibility Study. The Company has since agreed the deferred Taronga Stage 1 with the NSW Department, and has progressed the planning of a drill program to evaluate the potential upside in grade across a selected number of resource blocks and collect data that may enable a re-estimation of the mineral resource. Discussions are underway with a preferred drilling company and is seeking to commence in the next months.

During the quarter the Company undertook exploration for a number of critical minerals across its Emmaville and Torrington exploration licences, including areas along the contact of the Mole Granite for which land access had only been recently obtained. Several high-grade rock chips were obtained from various sites for several critical minerals that included:

- Tungsten (W) rock chip results from recent field reconnaissance include:
  - Tungsten at the historic McCowens / McKinnon Wolfram Mine of 3.63%W; and
  - Tungsten, lithium and bismuth at the historic McCowens Mica Lode of 2.01%W, 27ppm Ag, 0.26%Cu and 39.5ppm Ag, 900ppmLi, 1010ppm Bi.
- Silver (Ag) and polymetallic rock chip results from recent field reconnaissance include:
  - i. Silver, copper and indium at the historic Reids Mine of 212g/t Ag, 5.79%Cu, 1.24%Zn and 179ppm In;

- ii. Silver, copper, lead and zinc at the historic Black Prince Mine of 180g/t Ag, 0.18%Cu, 0.17%Pb, 2.75%Zn;
- iii. Silver and copper at the historic Great Britain tin Prospect, including 3.0g/t Ag, 0.08%Cu and 3.5g/t Ag, 0.05%Cu.

Future exploration at Emmaville and Torrington will continue to primarily focus on an expansion of the Company's inventory of tin continue through tin porphyry or sheeted vein targets such those at McDonalds, Emerald and Great Britain (**Figure 2**), plus higher-tin grade targets including Dutchman / Harts. However, additional efforts will be directed to discrete exploration targets prospective for tungsten, and silver and copper, including McCowens, Arvid and Black Prince.



**Figure 2 – Geology and distribution of mineral occurrences of the Emmaville and Torrington region**

## Mt Cobalt / Pembroke

During the quarter work at Mt Cobalt and Pembroke was limited to rehabilitation of drill pads utilised earlier in 2019.

## Corporate

During the quarter the Company received a letter of funding support from its largest shareholder, DGR Global for an amount of up to \$1,000,000 for a period of up to 12 months. Subsequent to the end of the quarter, the Company received a provisional payment of approx US\$41,000 for a quantity of tin concentrate sold to Traxys, and announced a corporate and project related capital raising program, under which it had completed an initial placement for \$250,000 and intends to convert debt and raise additional monies via a rights issue, with proceeds to be utilised for planned activities at Taronga, maintenance at Granville and general working capital.

Due specifically to the underperformance at Granville, the past few months have proved particularly challenging for the Company, as it has sought to limit the financial impact resulting from Granville, and as recently announced the mine has been placed on temporary care & maintenance. The Company is progressing discussions on the most economic means of extracting value for Granville and will continue to update the market as appropriate.

## Commodities Market

Late in the quarter the LME tin price stabilised around US\$16,500/t following a relatively volatile three months trading between US\$18,860/t to US\$15,600/t. Declining demand for semi-conductors (electronics) and a further modest increase in LME inventories were key drivers behind the price volatility. During the quarter several Chinese smelters announced temporary suspensions or closures as a result of the lower price. More recently Indonesian state-owned tin producer PT Timah confirmed its intention to reduce refined tin exports by 2,000 tonnes per month in response to low tin prices.

The International Tin Association have recently reported refined tin stocks held by surveyed companies at the end of 2018 amounted to the equivalent of 3.9 weeks' supply. The survey indicates that many users are in the process of significantly running down their inventories this year.

During the quarter the LME cobalt price staged a partial recovery and is currently trading at US\$35,000/t following the planned closure a major mine in the Democratic Republic of Congo.



Figure 3 – 18-month tin and cobalt prices





## Tenement Management

The Company's interest in tenements for the quarter is outlined in the attached Appendix 1.

On behalf of the Board  
KM Schlobohm  
Company Secretary

Electronic copies and more information are available on the Company website: [www.austinmining.com.au](http://www.austinmining.com.au)

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## Forward Looking Statement

This announcement may contain certain statements and projections provided by or on behalf of Aus Tin Mining Limited (Aus Tin Mining) with respect to the anticipated future undertakings. These forward-looking statements reflect various assumptions by or on behalf of Aus Tin Mining. Accordingly, these statements are subject to significant business, economic and competitive uncertainties and contingencies associated with exploration and/or mining which may be beyond the control of Aus Tin Mining which could cause actual results or trends to differ materially, including but not limited to price fluctuations, exploration results, reserve and resource estimation, environmental risks, physical risks, legislative and regulatory changes, political risks, project delay or advancement, ability to meet funding requirements, factors relating to property title, native title and aboriginal heritage issues, dependence on key personnel, share price volatility, approvals and cost estimates. Accordingly, there can be no assurance that such statements and projections will be realised. Aus Tin Mining makes no representations as to the accuracy or completeness of any such statement of projections or that any forecasts will be achieved.

Additionally, Aus Tin Mining makes no representation or warranty, express or implied, in relation to, and no responsibility or liability (whether for negligence, under statute or otherwise) is or will be accepted by Aus Tin Mining or by any of their respective officers, directors, shareholders, partners, employees, or advisers as to or in relation to the accuracy or completeness of the information, statements, opinions or matters (express or implied) arising out of, contained in or derived from this presentation or any omission from this presentation or of any other written or oral information or opinions provided now or in the future to any interested party or its advisers. In furnishing this presentation, Aus Tin Mining undertakes no obligation to provide any additional or updated information whether as a result of new information, future events or results or otherwise.

Nothing in this material should be construed as either an offer to sell or a solicitation of an offer to buy or sell securities. It does not include all available information and should not be used in isolation as a basis to invest in Aus Tin Mining Limited.

## Competent Persons Statement

The information in this presentation that relates to Exploration Results is based on information compiled by Mr Nicholas Mather B.Sc (Hons) Geol., who is a Member of The Australian Institute of Mining and Metallurgy. Mr Mather is employed by Samuel Capital Pty Ltd, which provides certain consultancy services including the provision of Mr Mather as a Director of Aus Tin Mining. Mr Mather has more than five years experience which is relevant to the style of mineralisation and type of deposit being reported and to the activity, which he is undertaking to qualify as a Competent Person as defined in the 2012 Edition of the 'Australasian Code for Reporting of Exploration Results, Minerals Resources and Ore Reserves' (the JORC Code). This public report is issued with the prior written consent of the Competent Person(s) as to the form and context in which it appears.

The information in this Announcement that relates to Mineral Resources is based on information extracted from the report entitled "Maiden JORC Resource Estimated for the Taronga Tin Project" created on 26<sup>th</sup> August 2013 and is available to view on [www.austinmining.com.au](http://www.austinmining.com.au). Aus Tin Mining confirms that the form and context in which the Competent Person's findings are presented have not been materially modified from the original market announcement.

In the information in this Announcement that relates to Ore Reserves is based on information extracted from the report entitled "Pre-Feasibility Advances the Taronga Tin Project" created on 7<sup>th</sup> April 2014 and is available to view on [www.austinmining.com.au](http://www.austinmining.com.au). Aus Tin Mining confirms that the form and context in which the Competent Person's findings are presented have not been materially modified from the original market announcement.



## Appendix: 1 Details of Exploration Tenements Held by Aus Tin Mining Limited

### Mining Leases /Exploration Licences held at 31 March 2019

Tenement	Location	% Interest	Grant Date	Renewal Submitted	Expiry Date
2M/2018	TAS (Zeehan)	100%	Replaces 21M/2003 & 9M/2006		05.03.22
32M/1988	TAS (Zeehan)	100%	06.08.18	28.10.19	01.11.19
EPM 19366	QLD (Kilkivan)	100%	09.08.12	07.05.19	08.08.19
ML 1774	NSW (Emmaville)	100%	23.09.18		21.12.29
EL 8407	NSW (Emmaville)	100%	04.11.15		04.11.23
EL 7800	NSW (Emmaville)	100%	04.07.11	30.06.19	04.07.19
EL 7801	NSW (Emmaville)	100%	04.07.11		04.07.21
EL 8335	NSW (Emmaville)	100%	05.01.15		05.01.21
EL 8637	NSW (Emmaville)	100%	31.08.17		31.08.20
EL 8639	NSW (Emmaville)	100%	31.08.17		31.08.20

### Mining Lease / Exploration Licences acquired during the period

Tenement	Location	% Interest	Grant Date	Application Date	Expiry Date
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### Exploration Licences surrendered during the period

Tenement	Location	% Interest	Grant Date	Surrender Date	Expiry Date
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### Mining Lease / Exploration Licences Applications outstanding for the period

Tenement	Location	% Interest	Grant Date	Application Date	Expiry Date
E9/2019	TAS (Zeehan)			29.08/19	