

**ASX: ARE**

**CAPITAL STRUCTURE:**

Issued shares: 3,606 million

Listed options: None

Unlisted options: 77.75 million

Cash on hand: \$1,209,000

**DIRECTORS:**

Patrick Elliott, Non-Exec Chairman

Lindsay Owler, Director/CEO

Andrew Bursill, Non-Exec Director

Mick Billing, Non-Exec Director

**COPPER PROJECTS:**

**MURDIE, SOUTH AUSTRALIA**

Copper, gold (large IOCG)

Phase: Exploration

Interest: Argonaut 100%

**TORRENS, SOUTH AUSTRALIA**

Copper, gold (large IOCG)

Interest: Aeris Resources 70%, Argonaut 30%

Agreement Phase: Exploration

Operator: Aeris

**URANIUM PROJECTS:**

**FROME, SOUTH AUSTRALIA**

Uranium

Phase: Exploration

Interest: Orpheus 100%, Option to acquire 100%

Operator: Orpheus

**CUMMINS, SOUTH AUSTRALIA**

Uranium

Phase: Exploration

Interest: Option to acquire 100%

Operator: Orpheus

**MOUNT DOUGLAS, NORTHERN TERRITORY**

Uranium

Phase: Exploration

Interest: Orpheus 100%

**RANGER NE, NORTHERN TERRITORY**

Uranium

Phase: Exploration

Interest: Orpheus 100%

**T-BONE, NORTHERN TERRITORY**

Uranium

Phase: Exploration

Interest: Orpheus 100%

**WOOLNER/MARRAKAI, NORTHERN TERRITORY**

Uranium

Phase: Exploration

Interest: Orpheus 100%

# Quarterly report

FOR THE PERIOD ENDING 31 MARCH 2022

Argonaut Resources NL (*Argonaut* or the *Company*) (ASX: ARE) presents the following report for the period to 31 March 2022 (the *Quarter*).

## Highlights

### Lumwana West, Zambia – Copper-Cobalt

#### Argonaut is seeking the restoration of 22399-HQ-LEL, Lumwana West

- The Company became aware that Large-scale Exploration Licence 22399-HQ-LEL, Lumwana West, was not renewed by the Zambian Government on 28 December 2021 as expected. This licence area contains the Nyungu deposit.
- Argonaut has been focussed on working with the Zambian authorities with a view to achieving the restoration of the Lumwana West licence.
- On 27 April 2022 the Minister of Mines and Mineral Development wrote to the Company's Zambian lawyers to advise that the Company's appeal of 3 January 2022 was currently under "active consideration".
- At the time of the purported cancellation, the Company's 90% held subsidiary, Mwombeshi Resources Ltd, was operating in full compliance with all licence conditions and other regulatory requirements.
- Argonaut is ready to continue a fast-tracked feasibility study in the event the Lumwana West licence is reinstated.

### Murdie, South Australia – Copper

- Argonaut has partnered with SenseOre, a mineral exploration artificial intelligence (AI) and machine learning leader to generate a prioritisation of the various Iron Oxide Copper-Gold targets at the Murdie project. Work by SenseOre is well advanced.
- Argonaut has engaged with relevant contractors in relation to continued drilling at Murdie based on the target prioritisation and existing geophysical modelling.
- On 16 March 2021, the Barngarla Determination Aboriginal Corporation RNTBC filed an application in the South Australian Supreme Court for a review of the authorisation announced to the ASX by Argonaut on 4 January 2021.
- Argonaut is currently awaiting judgement on this matter.

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## Torrens, South Australia – Copper

- The Torrens Joint Venture is currently reviewing appropriate remote sensing techniques to assist with refining of geophysical drill targets.
- A magnetotelluric survey to identify deep, crustal structures feeding potential mineralisation and an ambient noise tomography survey to improve the resolution of gravity modelling are both under consideration.

## Uranium Exploration Assets and IPO Plans

- Argonaut has acquired a substantial package of prospective uranium exploration licences in South Australia and the Northern Territory via a 67% held, unlisted public company, Orpheus Minerals Ltd (*Orpheus*).
- As uranium is a specialist exploration activity, Argonaut has decided that the exploration work and funding of these licences is better undertaken through a separate listed entity with separate management.
- Orpheus undertook a seed capital raising of \$370,000 to fund its activities. This reduced Argonaut's interest to 67%."
- Argonaut is planning for Orpheus to list on the Australian Securities Exchange in mid-2022.
- Prospectus preparations are well advanced.
- The Argonaut board is considering:
  - an entitlement offer of Orpheus shares to Argonaut shareholders as part of the IPO process; and
  - a potential in-specie distribution of Orpheus shares to Argonaut shareholders (subject to statutory escrow provisions).
- Details of Orpheus exploration assets have been outlined in ASX releases dated 9 September 2021 and 20 September 2021.

## Higginsville, Western Australia – Lithium, Gold and Nickel

- During the Quarter, the Company undertook a reconnaissance program to examine outcropping pegmatites assumed to be Archean in age and located nearby to the Pioneer Dome Lithium-Caesium-Tantalum Pegmatite deposit.
- The reconnaissance program also considered another area adjacent to the Pioneer Dome deposit that is obscured by sedimentary cover. This area has potential to host additional Archean pegmatites.
- During the period, Argonaut and Loded Dog Prospecting Ltd entered into a dispute in regards to the status of Argonaut's 51% interest.

## Outlook

- The copper price rose to an all-time high during the Quarter.
- The current copper price of approximately US\$4.50/lb provides a strong foundation for copper exploration activities, such as those being planned at Murdie in South Australia and those activities currently pending resolution of licence issues at Lumwana West in Zambia.
- The planned IPO of Orpheus Minerals comes at an opportune time in the uranium price cycle with uranium demand expected to grow due to increased requirements for the generation of green energy.

# Lumwana West, Zambia

(Copper-Cobalt)

## Purported cancellation of exploration licence 22399-HQ-LEL

Argonaut became aware that Large-scale Exploration Licence 22399-HQ-LEL, Lumwana West, was not renewed by the Zambian Government on 28 December 2021 as expected. This licence area contains the Nyungu deposit.

At the time of the purported cancellation, the Company's 90% held subsidiary, Mwombezhi Resources Ltd, was operating in full compliance with all licence conditions and other regulatory requirements.

Argonaut's Zambian lawyers have identified substantive procedural errors in both the non-renewal of 22399-HQ-LEL and the hurried and potentially corrupt grant of a new licence over the Lumwana West area to a recently registered company with no apparent financial or technical capacity.

Argonaut had a history of raising and investing significant amounts of money in the rigorous technical investigation of the Lumwana West licence area, particularly the Nyungu deposit. The Company had commenced the fast-tracking of a feasibility study into a commercial mining operation at the site via a team of internationally known experts. It would appear to be against the national interests of Zambia to stop this process.

## Zambia acts against allegations of corruption

In February 2022, the relevant Zambian Government authorities commenced investigations into the purported cancellation of exploration licence 22399-HQ-LEL, Lumwana West.

The recently elected Zambian Government recognised a corrupt mineral licencing system and is taking decisive action to restore order to the Mining Cadastre Department. The Minister for Mines and Mineral Development, the Hon. Paul Kabuswe MP, released a statement on 23 February saying:

*The Ministry of Mines and Minerals Development has recently been dealing with alleged abuse of the Mining Rights administration system of the Mining Cadastre Department. This has led to allegations of corruption and a serious damage to the reputation of the Department and the Ministry.*

*In order to establish the extent of the problem and determine what corrective actions need to be taken, the Ministry is imposing a one month moratorium ...*

The moratorium of the Mining Cadastre Department, initially for a one month period, was extended to provide additional time for an audit of existing mineral licences, a review of departmental processes and reorientation training for staff.

Argonaut welcomes the Minister's timely and decisive action to restore confidence in Zambia's mining cadastre system.

## Recovery action by Argonaut

The Company has been working closely with Zambian Government representatives to provide information as required by the Ministry of Mines and Mineral Development to assist its investigations in relation to 22399-HQ-LEL Lumwana West.

Included in this information is evidence of procedural errors by Government officers in relation to the non-renewal of 22399-HQ-LEL, Lumwana West and the grant of a new licence over the Lumwana West area.

On 27 April 2022 the Minister of Mines and Mineral Development wrote to the Company's Zambian lawyers to advise that the Company's appeal of 3 January 2022 was currently under "active consideration".

The Company and its lawyers met with the Minister of Mines during April specifically to put forward the particulars of the Company's complaints regarding procedural errors by the Mining Cadastre Department in relation to Lumwana West. Argonaut is pleased and encouraged by the Minister's attention to the details of our matter.

Argonaut is ready to continue a fast-tracked feasibility study in the event the Lumwana West licence is reinstated.

# Murdie, South Australia

(Copper – Argonaut 100%)

The Murdie project is located in South Australia near the eastern margin of the Gawler Craton. The project area covers 1,015 square kilometres of highly prospective Olympic Domain geology and includes more than 50 discrete gravity anomalies that are located immediately south and east of the Torrens project and east of the Carrapateena mine (Figure 1). These anomalies represent locations with significant volumes of high-density rock that could contain economic Iron-Oxide Copper-Gold (IOCG) deposits.

Argonaut holds a 100% interest in the Murdie project.

## Targeting

It is appropriate for Argonaut to review its targeting priorities following the 2021 drilling program. Targeting to date has been by geophysical modelling of ground gravity survey data. Argonaut has partnered with SenseOre, a mineral exploration artificial intelligence (AI) and machine learning leader to generate a prioritisation of the various IOCG gravity targets at the Murdie project.

## Exploration planning

Argonaut's drilling authorisations for the Murdie project contain two main options for accessing drill sites on Lake Torrens – access via protective matting and via helicopter. Argonaut has held discussions with relevant contractors regarding the continuation of drilling using both techniques.

## Rain events

Rain events during the drilling campaign caused lake surface wetness and pooling of water in certain areas of Lake Torrens. Near-surface geotechnical conditions are unsuitable for accessing drilling areas on the surface of Lake Torrens using protective matting. During the Quarter, there have been two significant rain events in the region and Argonaut is monitoring the conditions of the salt lake surface.

## Authorisations

### *Authority under the Aboriginal Heritage Act*

On 29 December 2020, the South Australian Government granted an authorisation. The authorisation allows for exploration-phase drilling plus potential resource and reserve definition drilling. The approval covers the parts of exploration licences 5937 and 5945 that overlap with Lake Torrens or are onshore and within 500m of the Lake Torrens shoreline.

### *Judicial Review Application*

On 16 March 2021, the Barngarla Determination Aboriginal Corporation RNTBC (BDAC) filed an application in the South Australian Supreme Court for a review of the authorisation announced to the ASX by Argonaut on 4 January 2021.

On 19-20 July 2021, the South Australian Supreme Court part-heard this application. The hearing was adjourned on the morning of Tuesday, 20 July 2021 due to the South Australian COVID lockdown. The remaining submissions were filed during July and August 2021. Argonaut is currently awaiting judgement.

The Company notes that there are no registered Barngarla heritage sites at Lake Torrens.

Exploration works undertaken at the Murdie project are duly authorised. The Company is confident that the State's authorisation process was robust.

### *Operational Approval*

The 'Exploration Program for Environment Protection and Rehabilitation' for ongoing exploration activities including ground gravity surveys and diamond drilling at exploration licences 5937 and 5945 was approved under the South Australian Mining Act in January 2020.

The approval allows for up to 200 deep diamond drill holes into a string of large and prospective IOCG anomalies from nearshore and offshore locations on the salt crust of Lake Torrens.

### *Native Title Access*

In 2018, the South Australian ERD Court granted native title authority to enter and undertake mining operations (exploration) within the area of EL5937 and EL5945.

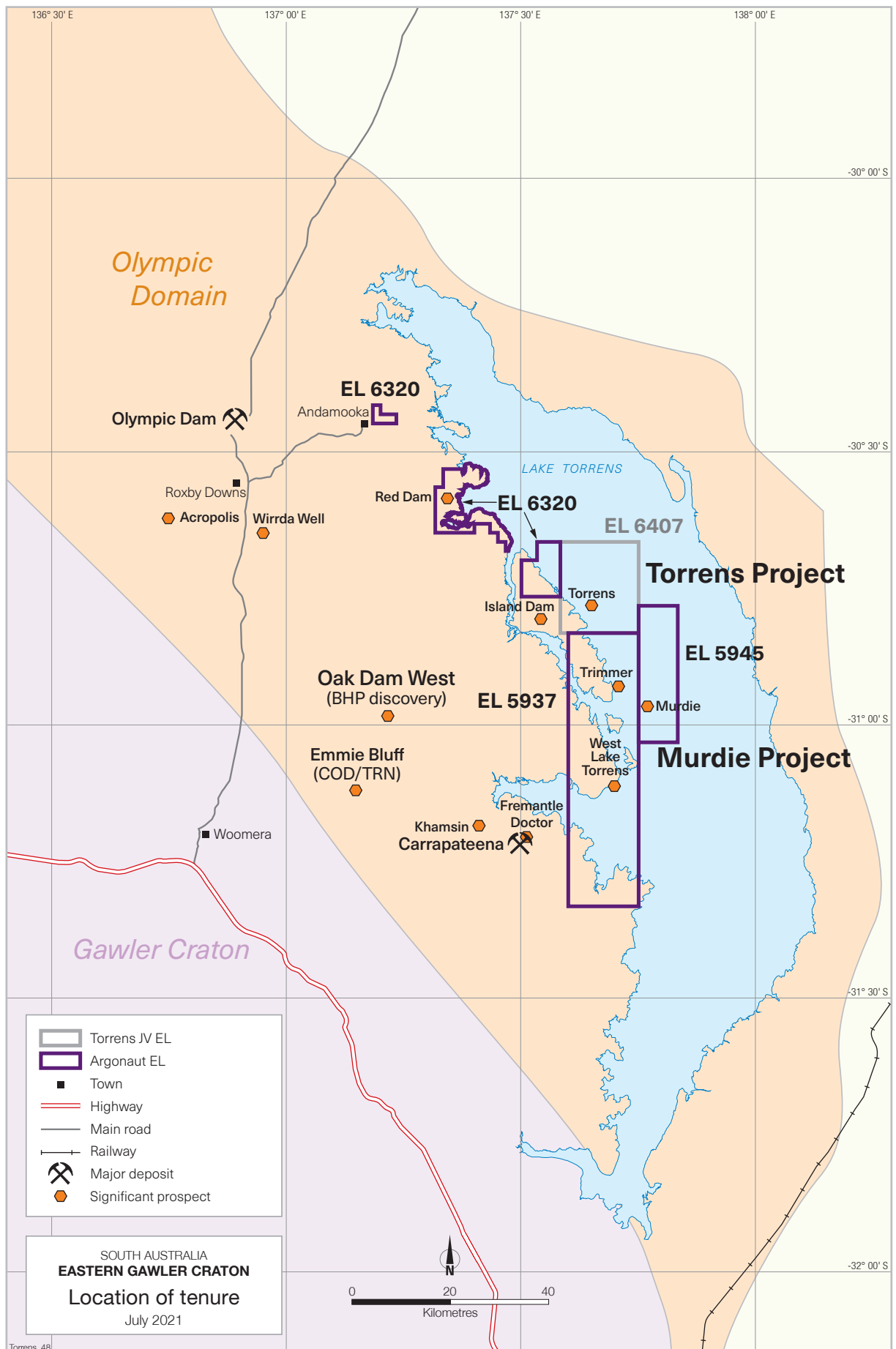
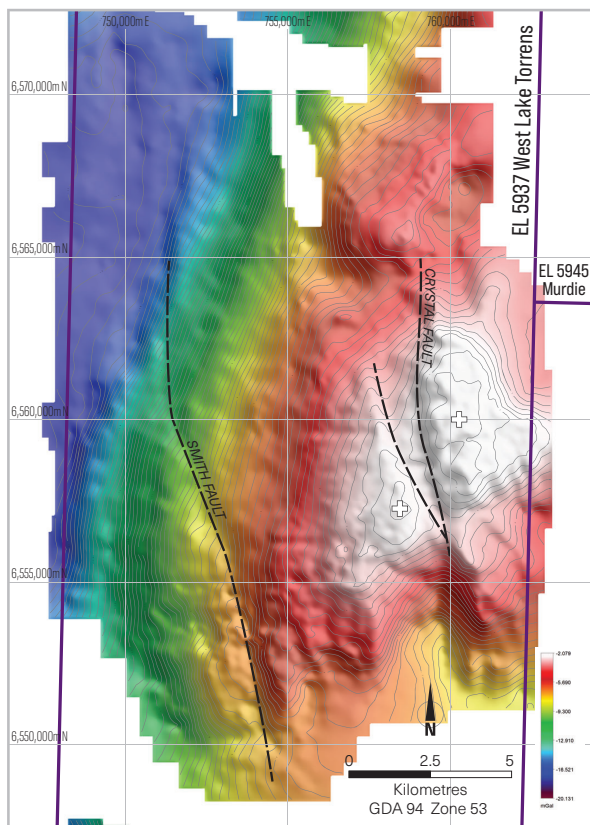


Figure 1 Lake Torrens exploration licences.

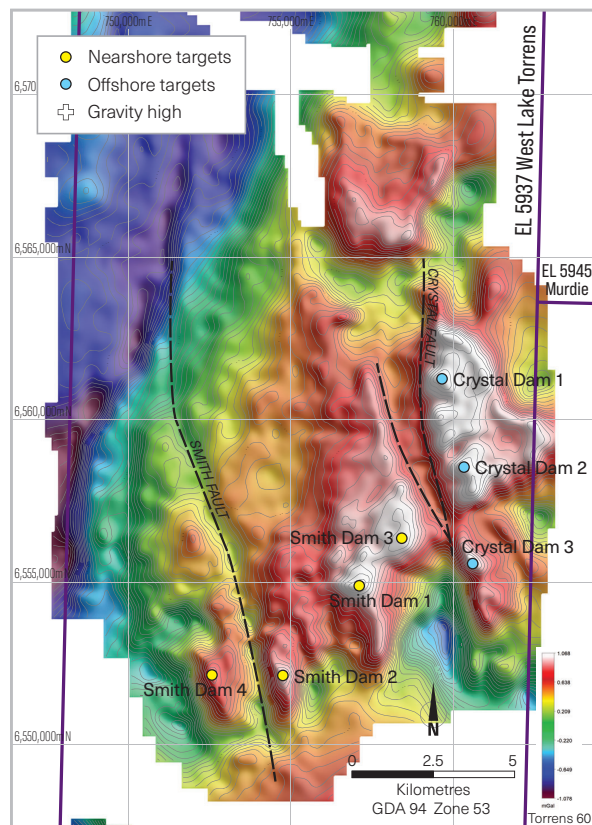




**Photo 1** Drilling at WLTD002, Murdie project (Photo courtesy of SA Dept for Energy and Mines).



**Figure 2** West Lake Torrens bouguer (regional) gravity anomaly.



**Figure 3** West Lake Torrens residual gravity anomalies and drilling targets.

# Torrens, South Australia

(Copper – Argonaut 30%)

The Torrens anomaly is a particularly attractive set of exploration targets hosted in a geological domain that has persistently rewarded explorers with large, high-grade copper discoveries. The discovery of an IOCG deposit by a listed junior exploration company creates a once-in-a-lifetime opportunity for shareholders. Argonaut continues to work towards this goal.

Exploration in the Olympic Domain has historically been hindered by two factors: the thickness of cover formations, and difficulties securing access. These factors, although frustrating, have preserved exploration targets that would have otherwise been tested.

Statistically, the drill testing of gravity targets in the Olympic Domain has delivered a higher than average discovery rate. It makes commercial sense to invest copper exploration budgets into drilling well defined gravity targets in the Eastern Gawler Craton.

Major, diversified miners and mid-cap copper miners are specifically seeking to increase copper production due to forecast copper supply shortages. There was an underinvestment in copper exploration between 2012 and 2017, consequentially there are relatively few copper deposits available to acquire. Copper discoveries are necessary and copper deposits are in-demand.

The combination of geological prospectivity, access rights and a global appetite for new copper deposits make the Torrens Joint Venture project a compelling investment opportunity.

## Work Program

The Torrens Joint Venture is currently reviewing appropriate remote sensing techniques to assist with refining of geophysical drill targets.

A magnetotelluric survey to identify deep, crustal structures feeding potential mineralisation and an ambient noise tomography survey to improve the resolution of gravity modelling are both under consideration.

## Torrens Project

The Torrens Joint Venture project is located within the globally recognised Olympic Domain, at the eastern margin of South Australia's Gawler Craton, within 40 kilometres of BHP Group's Oak Dam copper discovery, 50 kilometres of OZ Minerals' Carrapateena copper-gold deposit and 75 kilometres from BHP's Olympic Dam mine. BHP's recent discovery at Oak Dam has confirmed the validity of the Torrens target and the copper endowment of the Eastern Gawler Craton.

## Torrens Anomaly

The Torrens anomaly is a coincident magnetic and gravity anomaly with a footprint larger than that of Olympic Dam. The anomaly is located at the Torrens Hinge Zone, a continent-scale zone of crustal weakness that appears to have been a conduit for mineralising fluids from the Earth's mantle.

Drilling at Torrens to date has confirmed the existence of a major IOCG mineralising system beneath several hundred metres of sedimentary cover. Further drilling is required to intercept the modelled copper-gold mineralisation. In the event of a discovery, the Torrens anomaly has the scale to host a world-class copper-gold deposit.

# Uranium Assets, South Australia and Northern Territory

(Uranium – Argonaut 100%)

Argonaut has acquired a package of prospective uranium exploration licences in South Australia and the Northern Territory via a 67% held, unlisted public company, Orpheus Minerals Ltd (Orpheus).

As uranium is a specialist exploration activity, Argonaut has decided that the exploration work and funding of these licences is better undertaken through a separate listed entity with separate management.

Orpheus undertook a seed capital raising of \$370,000 to fund its activities. Argonaut is planning for Orpheus to list on the Australian Securities Exchange in mid-2022. Prospectus preparations are well advanced.

The Argonaut board is considering:

- an entitlement offer of Orpheus shares to Argonaut shareholders as part of the IPO process; and
- a potential in-specie distribution of Orpheus shares to Argonaut shareholders (subject to statutory escrow provisions).

Details of Orpheus exploration assets have been outlined in ASX releases dated 9 September 2021 and 20 September 2021.

## Higginsville, Western Australia

(Lithium, Gold and Nickel)

### Work Program

During the Quarter, the Company undertook a reconnaissance program to examine outcropping pegmatites shown on historic maps as being Archean in age and located nearby to the Pioneer Dome Lithium-Caesium-Tantalum Pegmatite deposit. The reconnaissance program also considered another area adjacent to the Pioneer Dome deposit that is obscured by sedimentary cover. This area has potential to host additional Archean pegmatites.

Outcropping pegmatites were sampled and results indicate elevated rare earth elements.

Argonaut is considering the merits of drilling these potentially lithium and rare earth-bearing pegmatites and conducting soil sampling in areas of inferred pegmatites under alluvial cover.

At 19 February 2022, Argonaut had not met the second phase earn-in amount necessary to earn an 80% interest in the package. Following this date, Argonaut and Loded Dog Prospecting Ltd entered a dispute with regards to the status of Argonaut's 51% interest.



## Red Dam, South Australia

(Copper – Argonaut 100%)

Argonaut holds exploration licence EL6320 located adjacent to the Torrens Project (Figure 1). The 198 square kilometre licence area is in three parts and encompasses the Red Dam IOCG target, previously identified by WMC.

The licence areas were relinquished by BHP prior to the announcement of the Oak Dam discovery.

Argonaut has assessed the relevant, historical drill core and conducted a ground gravity survey in 2020 to improve resolution for geophysical modelling and target generation.

## Kamapanda, Zambia

(Copper-Cobalt – Argonaut 90%)

The Kamapanda project is located in the Central African Copperbelt, North-western Province, Zambia (Figure 4). The large-scale exploration licence covers an area of 225 square kilometres and extends to the Angolan border. The area is remote, with limited access and is largely underexplored.

The area is situated adjacent to the Domes Region, on the southwestern flank of the Kabompo Dome and is prospective for copper-cobalt mineralisation within units of the Lower Roan Group of the Katanga Supergroup.

Argonaut via its 90% held subsidiary, Sunrise Exploration and Mining Limited has been successful in acquiring the licence and has received operational approvals and consent from Zambian authorities to commence exploration activities.

A program of regional stream sediment sampling is planned to outline both gold and copper potential.

## Kalaba East, Zambia

(Copper-Cobalt – Argonaut 90%)

The Kalaba East project is located in the Central African Copperbelt, North-western Province, Zambia (Figure 4). The area is prospective for large tonnage, low to medium grade copper-cobalt deposits.

The Kalaba East project lies adjacent to ARC Minerals' recent Cheyeza East Prospect and Muswema North Prospect discovery and west of the world-class copper mine Sentinel, operated by First Quantum Minerals (Figure 4). At Cheyeza East, ARC Minerals intercepted 18m at 2.35% copper and 39m at 1.47% copper.

Argonaut via its 90% held subsidiary, Sunrise Exploration and Mining Limited has been successful in acquiring two contiguous licences and has received operational approvals and consent from Zambian authorities to commence exploration activities.

Argonaut plans to conduct a regional geochemical sampling program at Kalaba East.

## Musangila, Zambia

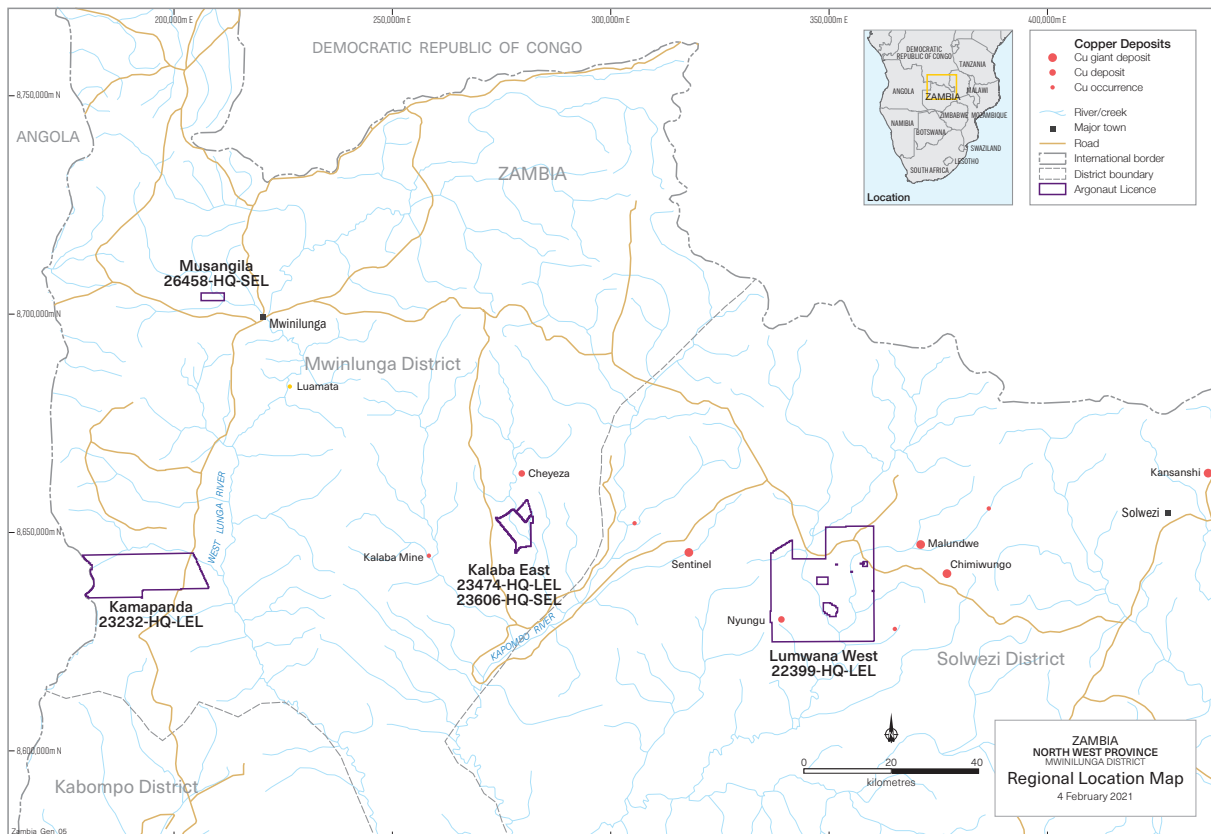
(Copper-Cobalt – Argonaut 90%)

The Musangila project is located in the Central African Copperbelt, North-western Province, Zambia (Figure 4). The area is prospective for large tonnage, low to medium grade copper-cobalt deposits and alluvial gold.

The area is situated adjacent to the Domes Region, on the northwestern flank of the Kabompo Dome and is prospective for copper-cobalt mineralisation within units of the Lower Roan Group of the Katanga Supergroup.

Argonaut via its 90% held subsidiary, Sunrise Exploration and Mining Limited has been successful in acquiring the licence and is waiting for operational approvals and consent from Zambian authorities to commence exploration activities.

Argonaut plans to conduct a geochemical sampling program followed by RC drilling.



**Figure 4** Exploration licences located within the Northwestern Province, Zambia.

## Kroombit, Queensland

(Zinc-Copper – Argonaut 100%)

Argonaut holds a 100% interest in the Kroombit zinc-copper deposit in Central Queensland via its interest in ML5631 and MDL2002. Mining on ML5631 is subject to a 2% net smelter royalty, payable to Aeris Resources Ltd.

MDL2002 has been renewed by the Queensland Government Department of Resources for a further five years to 31 August 2026.

On 11 June 2009 Argonaut announced a maiden resource estimation for the Kroombit deposit. The Indicated and Inferred Resources at Kroombit comprise:

- a Zinc Resource of 5.2 million tonnes at 1.9% zinc and 0.15% copper using a cut-off of 1.0% zinc, for 98,800 tonnes of zinc and 7,800 tonnes of copper; and
- a Copper Resource of 0.9 million tonnes at 1.0% copper at a cut-off of 0.5% copper for 9,000 tonnes of copper.

In addition, Exploration Results are reported comprising a defined Exploration Potential of between:

- 1 million and 1.5 million tonnes at 1.5% to 2.0% zinc, and between
- 0.5 million and 1 million tonnes at 0.7% to 1.3% copper.

No field-based work was undertaken at Kroombit during the Quarter.

# Aroona, South Australia

(Zinc – Argonaut 100%)

During the Quarter, Perilya Limited exited a joint venture agreement for the Aroona project. The licence area is prospective for zinc-silicate (willemite) mineralisation in the locally endowed carbonate units of the Wilkawillina Limestone, adjacent to the Aroona fault which hosts numerous willemite occurrences along trend, including Aroona, Aroona II and Reliance deposits.

Field work completed by Perilya was regional in scope and included mapping, airborne geophysics and minor rock chip sampling targeting the NW Aroona prospect, showing potential hematite alteration identified from Landsat/Aster imagery. No drilling was conducted by Perilya.

Argonaut continues to hold a 100% interest in EL 6199.

No field-based work was undertaken at Aroona during the Quarter.

## Corporate

During the Quarter, long-term non-executive director of Argonaut, Malcolm Richmond, retired from the board. Argonaut wishes Malcolm well in his retirement.

Exploration and Evaluation expenditure during the quarter comprised:

	\$A'000
Drilling and onsite costs	247
Field support	14
Government, tenement, community	81
Metallurgy, assaying, gravity	54
Total at 2.2 in Appendix 5B	396

Related party payments for the quarter totalled A\$164,000, comprising the salary to the CEO and director fees for the non-executive directors.

There was no production or development expenditure during the quarter.

## About Argonaut

Argonaut Resources NL is an Australian Securities Exchange listed exploration and development company focused on the Murdie copper project in South Australia, the Orpheus Minerals Ltd uranium IPO and copper exploration in North-western Zambia.

This report was authorised for release by:

**Lindsay Owler**

Director and CEO

Argonaut Resources NL

*Sections of information contained in this report that relate to Exploration Results were compiled or supervised by Mr Lindsay Owler BSc, MAusIMM who is a Member of the Australasian Institute of Mining and Metallurgy and is a full-time employee of Argonaut Resources NL. Mr Owler holds shares and options in Argonaut Resources NL, details of which are disclosed in the Company's 2021 Annual Report. Mr Owler has sufficient experience which is relevant to the style of mineral deposits under consideration 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 Mineral Resources and Ore Reserves". Mr Owler consents to the inclusion in this report of the matters based on this information in the form and context in which it appears.*

*The information regarding Resource definition and Exploration Potential for the Kroombit deposit is extracted from a report entitled 'Maiden resource estimate announced for Queensland zinc-copper project'. This report was released on 11 June 2009 and is available to view on [www.asx.com.au](http://www.asx.com.au). 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 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 announcement.*

# Tenement Schedule

**Table 1 – Summary of mining tenements**

SOUTH AUSTRALIAN MINERAL EXPLORATION LICENCES						
Tenement	Granted	Expiry	Area (km <sup>2</sup> )	Locality	Licensee	Interest
EL 6569	18/10/2020	17/10/2022	104	Campfire Bore / Sandstone	Coombedown Resources Pty Ltd	10% <sup>1</sup>
EL 6199	04/06/2018	03/06/2023	27	Myrtle Springs	Kelaray Pty Ltd	100%
EL 6407	18/08/2019	17/08/2022	295	Lake Torrens	Kelaray Pty Ltd	30%
EL 5937 <sup>4</sup>	30/03/2017	29/03/2022	794	West Lake Torrens	Kelaray Pty Ltd	100%
EL 5945 <sup>4</sup>	20/04/2017	19/04/2022	221	Murdie	Kelaray Pty Ltd	100%
EL 6320	28/02/2019	27/02/2024	198	Andamooka Station	Kelaray Pty Ltd	100%
EL 6554	07/12/2020	06/12/2022	960	Frome Downs	Trachre Pty Ltd	100%
EL 6555	07/12/2020	06/12/2022	947	Curnamona	Trachre Pty Ltd	100%
EL 6624 <sup>2</sup>	23/07/2021	22/07/2027	952	Cummins	Groundwater Science Pty Ltd	Option to acquire 100%
EL 6703 <sup>2</sup>	03/02/2022	02/02/2028	987	Erudinna	Groundwater Science Pty Ltd	Option to acquire 100%

QUEENSLAND MINING LEASE						
Tenement	Granted	Expiry	Area (km <sup>2</sup> )	Locality	Licensee	Interest
ML 5631	16/05/1974	31/05/2026	0.32	Kroombit	Kelaray Pty Ltd	100%

QUEENSLAND MINERAL DEVELOPMENT LICENCE						
Tenement	Granted	Expiry	Area (km <sup>2</sup> )	Locality	Licensee	Interest
MDL 2002	03/08/2016	31/08/2026	0.64	Kroombit	Kelaray Pty Ltd	100%

ZAMBIAN LARGE SCALE EXPLORATION LICENCES						
Tenement	Granted	Expiry	Area (km <sup>2</sup> )	Locality	Licensee	Interest
22399-HQ-LEL <sup>3</sup>	29/12/2017	28/12/2021	521	North Western Province	Mwombezhi Resources Ltd	90%
23232-HQ-LEL	10/04/2019	09/04/2023	226	North Western Province	Sunrise Exploration and Mining Limited	90%
23474-HQ-LEL	18/12/2018	17/12/2022	41.58	North Western Province	Sunrise Exploration and Mining Limited	90%

ZAMBIAN SMALL SCALE EXPLORATION LICENCES						
Tenement	Granted	Expiry	Area (km <sup>2</sup> )	Locality	Licensee	Interest
23606-HQ-SEL	18/12/2018	17/12/2022	9.4	North Western Province	Sunrise Exploration and Mining Limited	90%
26458-HQ-SEL	10/06/2020	09/06/2024	9.72	North Western Province	Sunrise Exploration and Mining Limited	90%

WESTERN AUSTRALIAN MINERAL EXPLORATION LICENCES						
Tenement	Granted	Expiry	Area (km <sup>2</sup> )	Locality	Licensee	Interest
E 63/1773 <sup>2</sup>	08/05/2017	07/05/2022	21	Hayes Hill	Loded Dog Prospecting Pty Ltd	51%
E15/1523 <sup>2</sup>	08/05/2017	07/05/2022	42	Higginsville	Loded Dog Prospecting Pty Ltd	51%
E15/1489 <sup>3</sup>	14/08/2017	13/08/2022	52	Higginsville	Loded Dog Prospecting Pty Ltd	51%
E15/1588 <sup>3</sup>	01/12/2017	30/11/2022	61	Higginsville	Loded Dog Prospecting Pty Ltd	51%

NORTHERN TERRITORY MINERAL EXPLORATION LICENCES						
Tenement	Granted	Expiry	Area (km <sup>2</sup> )	Locality	Licensee	Interest
EL 31451	08/09/2017	07/09/2023	484.52	Mount Douglas	Trachre Pty Ltd	100%

NORTHERN TERRITORY MINERAL EXPLORATION LICENCE APPLICATIONS						
Tenement	Applied	Expiry	Area (km <sup>2</sup> )	Locality	Licensee	Interest
ELA 32445	25/06/2020	-	230.24	T-Bone	Trachre Pty Ltd	100%
ELA 32446	25/06/2020	-	63.71	Ranger NE	Trachre Pty Ltd	100%
ELA 32038	22/11/2018	-	127.49	Mount Douglas (Mary River)	Trachre Pty Ltd	100%
ELA 32075	15/12/2021	-	103.63	Mount Douglas (Ban Ban)	Trachre Pty Ltd	100%
ELA 32088	20/12/2021	-	473.23	Woolner	Trachre Pty Ltd	100%
ELA 32089	20/12/2021	-	458.81	Marrakai	Trachre Pty Ltd	100%

**Table 2 – Summary of mining tenements acquired in Quarter**

There were three tenements acquired in the March 2022 Quarter.

SOUTH AUSTRALIAN MINERAL EXPLORATION LICENCE APPLICATIONS						
Tenement	Applied	Expiry	Area (km <sup>2</sup> )	Locality	Licensee	Interest
2022/00007	11/02/2022	-	977	Lake Frome	Kelaray Pty Ltd	100%

**Table 3 – Summary of mining tenements surrendered in Quarter**

There were no tenements surrendered in the March 2022 Quarter

<sup>1</sup> Kelaray holds a 33% interest in Coombedown Resources Pty. Ltd.

<sup>2</sup> Under option agreement.

<sup>3</sup> Licence interest subject to dispute.

<sup>4</sup> Undergoing renewal.



## Appendix 5B

### Mining exploration entity or oil and gas exploration entity quarterly cash flow report

Name of entity

Argonaut Resources NL

ABN

97 008 084 848

Quarter ended ("current quarter")

March 2022

Consolidated statement of cash flows		Current quarter \$A'000	Year to date 9 months \$A'000
<b>1.</b>	<b>Cash flows from operating activities</b>		
1.1	Receipts from customers	-	-
1.2	Payments for		
	(a) exploration & evaluation	-	-
	(b) development	-	-
	(c) production	-	-
	(d) staff costs	(168)	(541)
	(e) administration and corporate costs	(356)	(903)
1.3	Dividends received (see note 3)	-	-
1.4	Interest received	1	2
1.5	Interest and other costs of finance paid	-	-
1.6	Income taxes paid	-	-
1.7	Government grants and tax incentives	-	-
1.8	Other (provide details if material)	-	-
<b>1.9</b>	<b>Net cash from / (used in) operating activities</b>	<b>(523)</b>	<b>(1,442)</b>
<b>2.</b>	<b>Cash flows from investing activities</b>		
2.1	Payments to acquire or for:		
	(a) entities	-	-
	(b) tenements	-	-
	(c) property, plant and equipment	-	-
	(d) exploration & evaluation	(396)	(3,370)
	(e) investments	-	-
	(f) other non-current assets	-	-

<b>Consolidated statement of cash flows</b>		<b>Current quarter \$A'000</b>	<b>Year to date 9 months \$A'000</b>
2.2	Proceeds from the disposal of:		
	(a) entities	-	-
	(b) tenements	-	-
	(c) property, plant and equipment	-	-
	(d) investments	-	-
	(e) other non-current assets	-	-
2.3	Cash flows from loans to other entities	-	-
2.4	Dividends received (see note 3)	-	-
2.5	Grant from the South Australian Government	-	330
<b>2.6</b>	<b>Net cash from / (used in) investing activities</b>	<b>(396)</b>	<b>(3,040)</b>

<b>3.</b>	<b>Cash flows from financing activities</b>		
3.1	Proceeds from issues of equity securities (excluding convertible debt securities)	-	-
3.2	Proceeds from issue of convertible debt securities	-	-
3.3	Proceeds from exercise of options	-	-
3.4	Transaction costs related to issues of equity securities or convertible debt securities	-	(24)
3.5	Proceeds from borrowings	-	-
3.6	Repayment of borrowings	-	-
3.7	Transaction costs related to loans and borrowings	-	-
3.8	Dividends paid	-	-
3.9	Seed capital invested into subsidiary company	-	370
<b>3.10</b>	<b>Net cash from / (used in) financing activities</b>	<b>-</b>	<b>346</b>

<b>4.</b>	<b>Net increase / (decrease) in cash and cash equivalents for the period</b>		
4.1	Cash and cash equivalents at beginning of period	2,128	5,345
4.2	Net cash from / (used in) operating activities (item 1.9 above)	(523)	(1,442)
4.3	Net cash from / (used in) investing activities (item 2.6 above)	(396)	(3,040)

<b>Consolidated statement of cash flows</b>		<b>Current quarter \$A'000</b>	<b>Year to date 9 months \$A'000</b>
4.4	Net cash from / (used in) financing activities (item 3.10 above)	-	346
4.5	Effect of movement in exchange rates on cash held	-	-
<b>4.6</b>	<b>Cash and cash equivalents at end of period</b>	<b>1,209</b>	<b>1,209</b>

<b>5.</b>	<b>Reconciliation of cash and cash equivalents</b> at the end of the quarter (as shown in the consolidated statement of cash flows) to the related items in the accounts	<b>Current quarter \$A'000</b>	<b>Previous quarter \$A'000</b>
5.1	Bank balances	1,059	1,978
5.2	Call deposits	150	150
5.3	Bank overdrafts	-	-
5.4	Other (provide details)	-	-
<b>5.5</b>	<b>Cash and cash equivalents at end of quarter (should equal item 4.6 above)</b>	<b>1,209</b>	<b>2,128</b>

<b>6.</b>	<b>Payments to related parties of the entity and their associates</b>	<b>Current quarter \$A'000</b>
6.1	Aggregate amount of payments to related parties and their associates included in item 1	164
6.2	Aggregate amount of payments to related parties and their associates included in item 2	-
<i>Note: if any amounts are shown in items 6.1 or 6.2, your quarterly activity report must include a description of, and an explanation for, such payments.</i>		

## Mining exploration entity or oil and gas exploration entity quarterly cash flow report

7.	<b>Financing facilities</b> <i>Note: the term “facility” includes all forms of financing arrangements available to the entity.</i> <i>Add notes as necessary for an understanding of the sources of finance available to the entity.</i>	<b>Total facility amount at quarter end \$A’000</b>	<b>Amount drawn at quarter end \$A’000</b>
7.1	Loan facilities	-	-
7.2	Credit standby arrangements	-	-
7.3	Other (please specify)	-	-
7.4	<b>Total financing facilities</b>	-	-
7.5	<b>Unused financing facilities available at quarter end</b>		-
7.6	Include in the box below a description of each facility above, including the lender, interest rate, maturity date and whether it is secured or unsecured. If any additional financing facilities have been entered into or are proposed to be entered into after quarter end, include a note providing details of those facilities as well.		

8.	Estimated cash available for future operating activities	\$A'000
8.1	Net cash from / (used in) operating activities (item 1.9)	(523)
8.2	(Payments for exploration & evaluation classified as investing activities) (item 2.1(d))	(396)
8.3	Total relevant outgoings (item 8.1 + item 8.2)	(919)
8.4	Cash and cash equivalents at quarter end (item 4.6)	1,209
8.5	Unused finance facilities available at quarter end (item 7.5)	-
8.6	Total available funding (item 8.4 + item 8.5)	1,209
8.7	<b>Estimated quarters of funding available (item 8.6 divided by item 8.3)</b>	1.3
<i>Note: if the entity has reported positive relevant outgoings (ie a net cash inflow) in item 8.3, answer item 8.7 as "N/A". Otherwise, a figure for the estimated quarters of funding available must be included in item 8.7.</i>		
8.8	If item 8.7 is less than 2 quarters, please provide answers to the following questions:	
8.8.1	Does the entity expect that it will continue to have the current level of net operating cash flows for the time being and, if not, why not?	
Answer: No. June quarter cash outflows are expected to be lower with Murdie project drilling on hold pending drying of the salt lake allows access, and further activity at Lumwana West deferred pending confirmation on title restoration		
8.8.2	Has the entity taken any steps, or does it propose to take any steps, to raise further cash to fund its operations and, if so, what are those steps and how likely does it believe that they will be successful?	
Answer: The Board is currently reviewing the rolling forward cashflow budgets to weigh up all funding options. The Board are confident that they will be in a position to achieve further funding.		

## Mining exploration entity or oil and gas exploration entity quarterly cash flow report

8.8.3 Does the entity expect to be able to continue its operations and to meet its business objectives and, if so, on what basis?

Answer: Yes. The Company may raise further capital in the future [via the issue of new shares and / or the sale of non-core assets] for the purpose of funding its planned mining exploration operations.

*Note: where item 8.7 is less than 2 quarters, all of questions 8.8.1, 8.8.2 and 8.8.3 above must be answered.*

## Compliance statement

- 1 This statement has been prepared in accordance with accounting standards and policies which comply with Listing Rule 19.11A.
- 2 This statement gives a true and fair view of the matters disclosed.

Date: 29 April 2022

Authorised by: Lindsay Owler – Director and CEO

(Name of body or officer authorising release – see note 4)

## Notes

1. This quarterly cash flow report and the accompanying activity report provide a basis for informing the market about the entity's activities for the past quarter, how they have been financed and the effect this has had on its cash position. An entity that wishes to disclose additional information over and above the minimum required under the Listing Rules is encouraged to do so.
2. If this quarterly cash flow report has been prepared in accordance with Australian Accounting Standards, the definitions in, and provisions of, *AASB 6: Exploration for and Evaluation of Mineral Resources* and *AASB 107: Statement of Cash Flows* apply to this report. If this quarterly cash flow report has been prepared in accordance with other accounting standards agreed by ASX pursuant to Listing Rule 19.11A, the corresponding equivalent standards apply to this report.
3. Dividends received may be classified either as cash flows from operating activities or cash flows from investing activities, depending on the accounting policy of the entity.
4. If this report has been authorised for release to the market by your board of directors, you can insert here: "By the board". If it has been authorised for release to the market by a committee of your board of directors, you can insert here: "By the [name of board committee – eg Audit and Risk Committee]". If it has been authorised for release to the market by a disclosure committee, you can insert here: "By the Disclosure Committee".
5. If this report has been authorised for release to the market by your board of directors and you wish to hold yourself out as complying with recommendation 4.2 of the ASX Corporate Governance Council's *Corporate Governance Principles and Recommendations*, the board should have received a declaration from its CEO and CFO that, in their opinion, the financial records of the entity have been properly maintained, that this report complies with the appropriate accounting standards and gives a true and fair view of the cash flows of the entity, and that their opinion has been formed on the basis of a sound system of risk management and internal control which is operating effectively.