Reedy Lagoon Corporation Limited

ABN 41 006 639 514

ASX Release ASX Code: RLC

26 July 2023

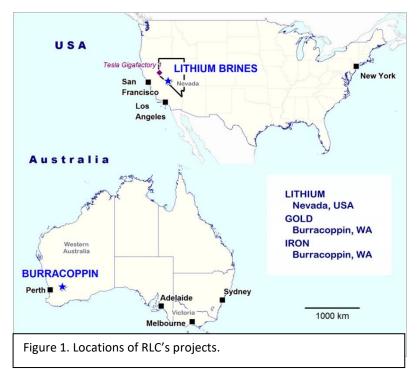
Quarterly Report for the period ended 30 June 2023

Lithium : RLC 100%

- Investigations into the distribution of lithiumbearing sedimentary deposits continued at the Alkali Lake North project area.
- 157 lode claims staked during prior period duly filed with the BLM.

Burracoppin Gold: RLC 100%

- All outstanding gold assays received from soil samples collected during the prior report period.
- Anomalous gold results substantiate and extend the Company's earlier results



with along strike dimensions exceeding 1,000 meters at two new sites.

• Shear Luck and Zebra prospects initiated.

Burracoppin Iron: RLC 100%

- Strategies for funding planned resource drilling at the Burracoppin Magnetite deposit were pursued.
- Continued assessment of potential intermediary products for sale prior to establishing pig iron production.

Corporate

□ Cash at end of quarter: \$206,790



CURRENT EXPLORATION ACTIVITIES

NORTH AMERICAN PROJECTS

Nevada Lithium Brine Projects

Nevada, USA

Reedy Lagoon holds two lithium brine projects located in Nevada: Alkali Lake North ("ALN") and Clayton Valley ("CV"). The projects are located in large and separate ground water catchment areas.

The projects are located within 30 kilometres of the Silver Peak Lithium brine operation owned by Albemarle Corp. and the direct extraction pilot plant operated by Schlumberger under a joint venture with Pure Energy which are located 360 kilometres by road (US-95 route) from the Tesla Gigafactory (lithium-ion batteries) in Reno. Several other advanced lithium projects are active in the area and are shown in Figure 2. The most significant recent development is the identification of substantial clay hosted lithium deposits located to the north of the Company's ALN project.

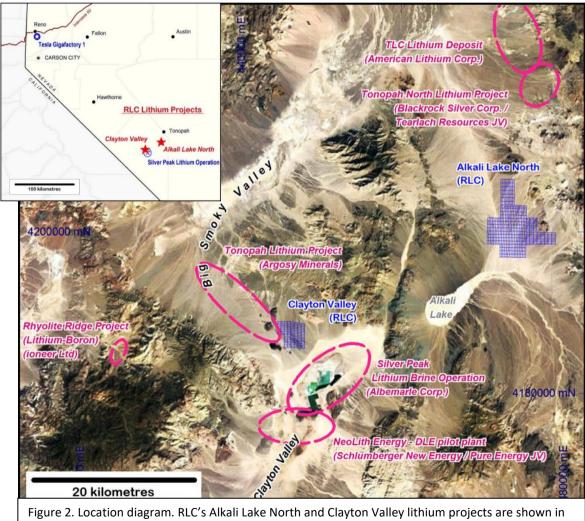
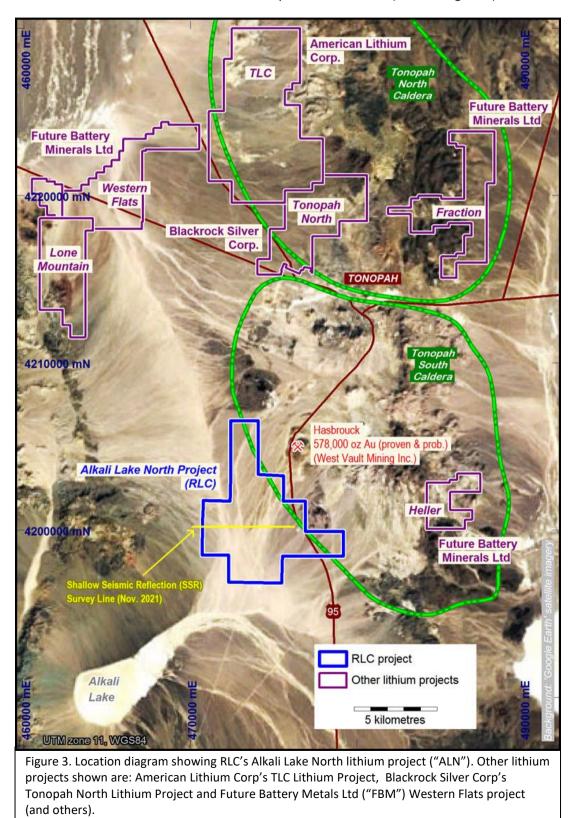


Figure 2. Location diagram. RLC's Alkali Lake North and Clayton Valley lithium projects are shown in blue. Other lithium projects shown are: Silver Peak Lithium Brine Operation (Albemarle Corp.), NeoLith Energy – Direct Extraction Li-brine Pilot Plant (Schlumberger/Pure Energy), Rhyolite Ridge Project (Li-mineral) (Ioneer Ltd), Tonopah Lithium Project (Argosy Minerals), TLC Lithium Deposit (Liclay) (American Lithium Corp.) and Tonopah North Lithium Project (Li-clay) (Blackrock Silver Corp./Tearlach Resources).

Alkali Lake North Project (Nevada)		Lithium
RLC 100%	334 placer claims and 157 lode claims	9,657 acres (3,908 ha)

During the report period studies into the distribution of lithium and the Siebert Tuff were continued. Of note is the identification of lithium in Siebert Tuff announced on 13 April 2023 by Future Battery Minerals Ltd ("FBM") in drilling conducted at its Western Flats project. The area is located 15 kilometres to the northwest of ALN west from the Tonopah North Caldera (refer to Figure 3).



Quarterly activities report for the period ended 30 June 2023

RLC staked 157 lode claims at the Alkali Lake North project during the prior period (refer ASX release 28/04/2023). The process of filing the claims with the County and Bureau of Land Management ("BLM") was completed during the current quarter with all claims now filed with the County and BLM. The filing process corrected the number of lode claims to 157 in total not 158 as is stated in the Company's March Quarterly Activities Report and ASX release of 28/04/2023. The stated area under claim is not changed.

Other work during the period included preparations for a drill program targeting Li-clay sediments/tuffs and these expanded ongoing plans for a drill program to test a shallow 2D-AMT conductor which coincides with Pleistocene lake sediments interpreted in Shallow Seismic Reflection ("SSR") survey data acquired last year (refer ASX release <u>6/01/2022</u>).

Clayton Valley Project (Nevada)	Lithium
RLC 100%	112 claims 2,240 acres (906 ha)

No field work was conducted on the Clayton Valley project during the quarter.

A brine target potentially comprising a 200 metre thick interval of sediments containing multiple brine filled aquifers has been identified in audio magnetotelluric (3D AMT) survey data (refer ASX <u>release</u> <u>23/08/2018</u>).

Drilling previously planned includes a core hole to 500 metres depth to investigate the brine target interpreted in the 3D AMT data. This work remains planned but is held pending developments in connection with water rights within the Clayton Valley Hydrographic Basin.

Work in relation to discontinued Projects

Columbus Salt Marsh (Nevada)

The Columbus Salt Marsh project was divested at the end of August 2019 and areas disturbed by the Company's prior drilling activities were contoured and seeded later that year. The rehabilitation work was inspected by the Bureau of Land Management ("BLM") in May 2020 and the reclamation obligation was reduced from US\$21,599 to US\$5,429. An inspection by the BLM during the June 2021 quarter found regrowth had been set-back by drought conditions and as a consequence an inspection following in the latter half of 2022 was scheduled but to the Company's knowledge not undertaken. The balance of the bond (US\$5,429) will remain held by the BLM until the desired regrowth has been established.

AUSTRALIAN PROJECTS

Burracoppin Gold Project (WA)

RLC 100%

E70/4941, E70/5467, E70/5544 (241 km²)

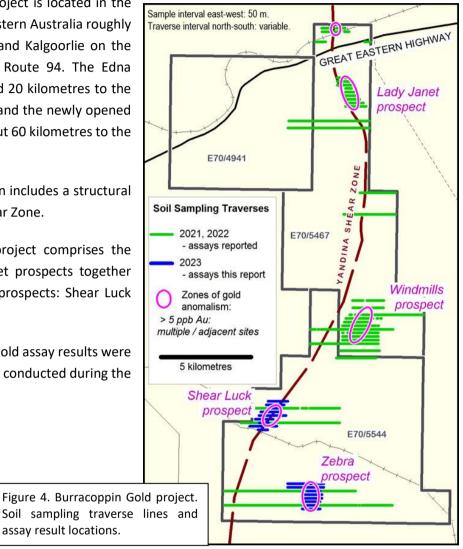
Gold

The Burracoppin Gold project is located in the central Wheatbelt of Western Australia roughly midway between Perth and Kalgoorlie on the Great Eastern Highway, Route 94. The Edna May Gold Mine is located 20 kilometres to the northeast of the project and the newly opened Tampia Gold Mine is about 60 kilometres to the south (refer to Figure 5).

Initial focus of exploration includes a structural feature, the Yandina Shear Zone.

The Burracoppin Gold project comprises the Windmills and Lady Janet prospects together with two newly minted prospects: Shear Luck and Zebra.

During the June quarter gold assay results were received for the sampling conducted during the prior quarter.

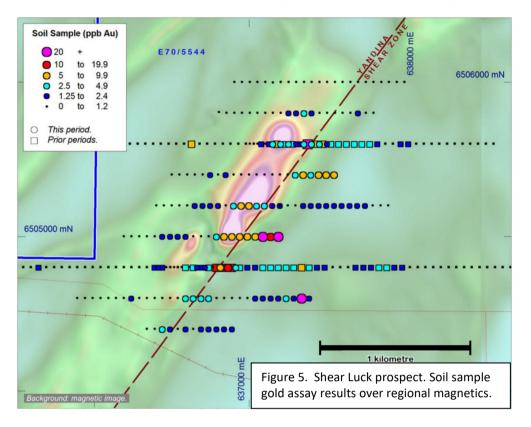


Shear Luck prospect

Sampling along 5 adjacent traverse lines 200 metres apart has recovered gold levels of at least 5 ppb forming an anomalous gold zone of at least 1,000 metres length along the Yandina Shear Zone.

The anomalous gold zone has been named the Shear Luck prospect and is located in the southwest part of the project area about 6 kilometres from the southern boundary (refer to Figures 4 & 5). The infill sampling followed-up anomalous gold results recovered last year. Two exploratory traverses had recovered anomalous gold highlighting a section of the Yandina Shear Zone coincident with a magnetic anomaly likely related to a mapped occurrence of metamorphosed banded iron-formation. The new gold assay results highlight the potential for this structural setting to be favourable for gold mineralisation and provide focus for further investigation (refer to ASX <u>release 3/07/2023</u>).

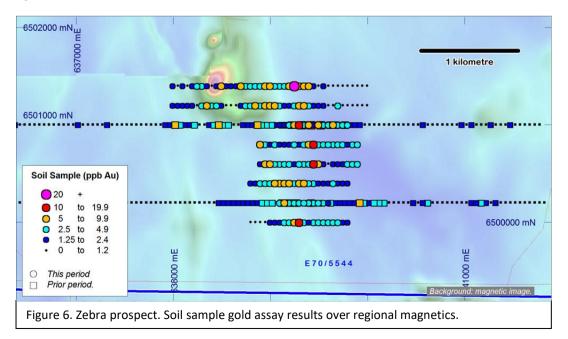
Quarterly activities report for the period ended 30 June 2023



Zebra prospect

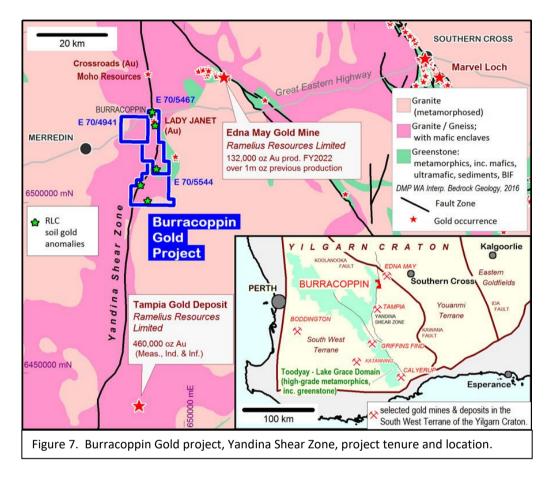
In an area located near the southern boundary of the project, new gold assay results include levels of at least 5 ppb along all 8 adjacent E-W soil traverse lines for a N-S distance of 1,400 metres (refer to Figure 6). These results are the basis of an additional prospect named Zebra. Additional sampling is required to investigate for north and south extensions to the anomalous gold zone identified in the current data.

The Zebra prospect is located about 4 kilometres east from the mapped location of the Yandina Shear Zone. The longer axis of the anomalous gold zone is approximately parallel to the Shear Zone (refer to Figure 4).



Next steps under consideration or planned include:

- additional infill and extension sampling at both Shear Luck and Zebra to better constrain the surface gold anomaly extent;
- additional assay, including multi-element, to investigate for both gold and lithium path-finder elements in samples already collected and
- geophysical surveys to acquire data to aid interpreting structural targets to assist in planning drill programs.



Burracoppin Iron Project (WA)	Iron
RLC 100%	E70/4941 (area 5,854 ha)

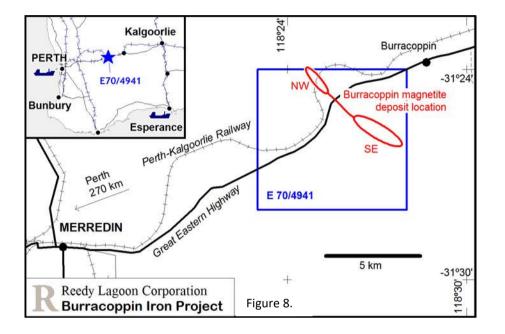
Work during the quarter was focussed on planning and funding the drilling at the Burracoppin magnetite deposit. No field work was conducted on the magnetite deposit during the quarter.

The Burracoppin Iron project plans to mine iron from the Burracoppin magnetite deposit by mining and processing the ore into an iron concentrate for smelting into pig iron using carbon from biomass. The plan incorporates HIsmelt technology which is well suited to processing the coarse grained high-purity iron concentrate that the Burracoppin magnetite mineralisation can produce. The planned smelt reactor produces High Purity Pig Iron ("HPPI") at a rate of 1 million tonnes per annum ("mtpa") upgradable to 2 mtpa. A pig iron production rate of 1 mtpa would require about 1.6 mtpa iron concentrate (3.2 mtpa for the higher rate). The requirement for 1.6 mtpa iron concentrate is well matched to the likely scale

of mining operations that may prove possible at Burracoppin and the available public access infrastructure.

The project aims to be a low-cost producer of green high purity pig iron.

The Burracoppin magnetite deposit is located half-way between Perth and Kalgoorlie near the town of Burracoppin on the Great Eastern Highway, east of Merredin. The Trans-Australian Railway passes over the north-western extension of the deposit providing heavy-haul goods service and access to ports (refer to Figure 8).



Metallurgical testwork conducted on core samples from 3 holes drilled into the Burracoppin magnetite deposit has identified mineralisation well suited to HIsmelt. The testwork to date indicates the Burracoppin mineralisation can produce an iron concentrate of at least 67% Fe and low impurities at a grind size of 80% passing 150 micron (refer ASX releases: <u>18/01/2013</u> and <u>17/11/2014</u>).

Results from a study by CSIRO using advanced modelling of the magnetic field associated with the deposit have been used by Reedy Lagoon to determine an Exploration Target of 240 to 300 million tonnes at 20 to 25 Wt% iron at Burracoppin and are being used to assist planning the Company's drilling to establish the presence of sufficient magnetite to support the planned pig iron production (refer ASX release <u>29/04/2022</u>).

The Exploration Target stated above is a product of research which, whilst based on robust physics, is conceptual in nature. There has been insufficient exploration to define a Mineral Resource and it is uncertain if further exploration will result in the determination of a Mineral Resource.

Further drilling and metallurgical testwork is planned to establish Indicated Resources which, if achieved, will enable financials for the mining and production of iron concentrate for the planned smelter to be estimated.

Quarterly activities report for the period ended 30 June 2023

During the quarter reviews of potential development options were continued, including the option of progressing the project by initial production for sale of Direct Reduction Magnetite Concentrate ("DR Magnetite Concentrate"). DR Magnetite Concentrate typically requires less than 2% total silica and alumina and greater than 70% Fe. The metallurgical work to date indicates the Burracoppin mineralisation may produce such a concentrate at the 45 micron grind size usually required for pelletising. DR Magnetite Concentrate would be marketed primarily to be processed into pellets to make direct reduced iron for Electric Arc Furnaces.

Development of the project to produce green high purity pig iron using HiSmelt and +67% Fe concentrate (at +100 micron) with no pelletising stage remains the preferred option (including because of its potentially lower net GHG¹ emissions), but the production and marketing of DR Magnetite Concentrate as an intermediary stage in the project's development could expand RLC's market options while allowing progression in the future to the production of green pig iron.

The Company believes that securing access to a supply of Burracoppin HPPI may attract users of green high purity pig iron to partner in the development.

Note 1: Green House Gas ("GHG") emissions include carbon dioxide, methane and nitrous oxide.

CORPORATE

<u>Cash</u>

At 30 June 2023 Reedy Lagoon had \$206,790 in bank accounts and deposits. The Company also had the amount of US\$5,429 (A\$8,352) in a security bond held by the Bureau of Land Management (USA) for the Company's relinquished Columbus Salt Marsh project in North America. This remaining bond amount is expected to be refunded in 2023 following satisfactory assessment of the Company's rehabilitation of areas disturbed by the Company's drilling.

At 26 July 2023 Reedy Lagoon had \$190,947 in bank accounts and deposits.

Exploration Expenditure

During the quarter, the total cash outflow for exploration activities was \$59,994. During the quarter there were no mining production and development activities.

Related Parties

Payments to related parties during the quarter totalled \$33,233 plus \$500 G.S.T. (refer 6.1 (\$33k) in the accompanying Appendix 5B for the period). The payments are for remuneration comprising wages, fees and superannuation paid to directors.

During the quarter a director provided \$100,000 to RLC by way of an interest-free subordinated loan repayable on demand but only if RLC is able to make repayment and remain solvent (that is, the loan is effectively subordinated to all other creditors).

FORTHCOMING ACTIVITIES

Project	Activity Planned	Timetable
Alkali Lake North Lithium	Drill to test for lithium bearing clay deposits. ¹ Drill to recover stratigraphic information to identify	TBD
	sedimentary layers indicated by SSR survey. ¹ Drill to test conductivity target located in eastern	TBD
	side of basin. ¹ Geophysical survey (3D AMT) planned to enable drill targeting over central portion of project area not	TBD
	covered by existing survey. ¹	TBD
Clayton Valley Lithium	Drill to test conductivity targets is planned but held pending availability of water rights.	TBD
New Project Development Lithium	Office studies to assess and build new projects.	On going
Burracoppin Iron Magnetite	Drill to establish resources. ¹	TBD
Biomass/Biochar Pig iron	Continued investigations into biomass / biochar production – currently on hold.	TBD
Burracoppin Gold Gold	Soil sampling – infill and extension at existing prospects and exploratory traverses. ¹ Multi-element assay for both gold and lithium	TBD
	pathfinder elements in samples already collected. ¹	TBD
	Geophysical surveys at the 4 existing prospects. ¹	TBD
	Heritage surveys in preparation for drilling. ¹	TBD
Relinquished project (Columbus Salt Marsh)	Revisit and complete any required further rehabilitation of decommissioned drill site and access track.	NA

Note 1: Subject to funding or farm-out.

TBD : to be determined.

Authorised for release on behalf of the Company.

For further information, please contact: Geof Fethers, Managing Director. Telephone: (03) 8420 6280 or visit our Website at <u>www.reedylagoon.com.au</u>

Competent Persons' Statement:

The information in the section headed "Australian Projects" in this report that relates to Exploration Results is based on information compiled by Geof Fethers, who is a member of the Australian Institute of Mining and Metallurgy (AusIMM). Geof Fethers is a director of the Company and has sufficient experience which is relevant to the style of mineralisation and type of deposit under consideration and to the activity he is undertaking to qualify as a Competent Person as defined in the 2012 Edition of the "Australasian Code for the Reporting of Exploration Results, Mineral Resources and Ore Reserves (the JORC Code). Geof Fethers consents to the inclusion in the report of the matters based on his information in the form and context in which it appears.

The information in the section headed "North American Projects" of this report as it relates to exploration results and geology was compiled by Mr Geoff Balfe who is a Member of the Australasian Institute of Mining and Metallurgy and a Certified Professional. Mr Balfe is a consultant to Reedy Lagoon Corporation Limited. Mr Balfe has sufficient experience which is relevant to the style of mineralisation and type of deposit 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 Exploration Results, Mineral Resources and Ore Reserves'. Mr Balfe consents to the inclusion in the report of the matters based on the information in the form and context in which it appears.

Company Statement:

Where Exploration Results have been reported in earlier RLC ASX Releases referenced in this report, those releases are available to view on the <u>INVESTORS page</u> of reedylagoon.com.au. The Company confirms that it is not aware of any new information or data that materially affects the information included in those earlier releases. 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.

Mining tenements.

Located in Australia

Tenements at end of quarter		
Project / Location	Tenement number	Company Interest (%)
BURRACOPPIN IRON & BURRACOPPIN GOLD (WA)	E70/4941	100%
BURRACOPPIN GOLD (WA)	E70/5467	100%
BURRACOPPIN GOLD (WA)	E70/5544	100%

Located in USA

Tenements (all Placer Claims and Lode Claims held 100%) at end of quarter

Claim Name	Claim Numbers	Corresponding BLM NMC Num		Total Claims	Total Area
Alkali Lake North	Project				
WH Claims	WH-1 to WH-7	NV101828616 NV101828622	to	7	
	WH-8 to WH-29	NV101830001 NV101830022	to	22	
	WH-30 to WH-51	NV101571222 NV101571243	to	22	2,596 ha
	WH-52 to WH-63	NV101572484	to	12	
	WH-64 to WH72	NV101572495 NV101572601	to	9	
	WH-73 to WH94	NV101572609 NV101573822	to	22	
	WH-95 to WH-115	NV101573843 NV101573822	to	21	
	WH-116 to WH-123	NV101573843 NV101576089	to	8	
	WH-124 to WH-128	NV101576096 NV101576201	to	5	
	WH-129 to WH-334	NV101576205 NV105269236 NV105269441	to	206	
AC Claims	AC-1 to AC-63	NV105205441 NV105815722 NV105815784	to	63	1,312 ha
	AC-64 to AC-157	NV105829725 NV105829818	to	94	-,
Clayton Valley Pro	oject				
CV Claims	CV-1 to CV-112	NMC 1176204 NMC 1176315	to	112	906 ha

Tenements / claims changed during the quarter:

	Tenement number (claim)	Nature of change
Alkali Lake North Project, Nevada, USA	AC-158	Invalid Lode Claim number
		(included in prior period report)

Joint ventures changed during period: Nil

Appendix 5B

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

Name of entity	
REEDY LAGOON CORPORATION LIMTED	

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Quarter ended ("current quarter")

30	June	2023
 00	00110	-0-0

Con	solidated statement of cash flows	Current quarter \$A'000	Year to date (12 months) \$A'000
1.	Cash flows from operating activities		
1.1	Receipts from customers		
1.2	Payments for		
	(a) exploration & evaluation	(60)	(226)
	(b) development	-	-
	(c) production	-	-
	(d) staff costs	(29)	(111)
	(e) administration and corporate costs	(14)	(208)
1.3	Dividends received (see note 3)	-	-
1.4	Interest received	-	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 (payments to directors in respect of previously forgone emoluments relating to prior periods)	-	(112)
1.9	Net cash from / (used in) operating activities	(103)	(655)

2.	Cash flows from investin	ig activities	
2.1	Payments to acquire or for:		
	(a) entities		-
	(b) tenements		-
	(c) property, plant and equip	oment	-
	(d) exploration & evaluation		-
	(e) investments		-
	(f) other non-current assets		-

Consolidated statement of cash flows		Current quarter \$A'000	Year to date (12 months) \$A'000
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	Other (provide details if material)	-	-
2.6	Net cash from / (used in) investing activities	-	-

3.	Cash flows from financing activities		
3.1	Proceeds from issues of equity securities (excluding convertible debt securities)	-	111
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	-	-
3.5	Proceeds from borrowings	100	200
3.6	Repayment of borrowings	-	-
3.7	Transaction costs related to loans and borrowings	-	-
3.8	Dividends paid	-	-
3.9	Other (provide details if material)	-	-
3.10	Net cash from / (used in) financing activities	100	311

4.	Net increase / (decrease) in cash and cash equivalents for the period		
4.1	Cash and cash equivalents at beginning of period	210	552
4.2	Net cash from / (used in) operating activities (item 1.9 above)	(103)	(655)
4.3	Net cash from / (used in) investing activities (item 2.6 above)	-	-
4.4	Net cash from / (used in) financing activities (item 3.10 above)	100	311

Consolidated statement of cash flows		Current quarter \$A'000	Year to date (12 months) \$A'000
4.5	Effect of movement in exchange rates on cash held	-	(1)
4.6	Cash and cash equivalents at end of period	207	207

5.	Reconciliation of cash and cash equivalents at the end of the quarter (as shown in the consolidated statement of cash flows) to the related items in the accounts	Current quarter \$A'000	Previous quarter \$A'000
5.1	Bank balances	127	84
5.2	Call deposits	80	126
5.3	Bank overdrafts	-	-
5.4	Other (provide details)	-	-
5.5	Cash and cash equivalents at end of quarter (should equal item 4.6 above)	207	210

6.	Payments to related parties of the entity and their associates	Current quarter \$A'000
6.1	Aggregate amount of payments to related parties and their associates included in item 1	33
6.2	Aggregate amount of payments to related parties and their associates included in item 2	-
	if any amounts are shown in items 6.1 or 6.2, your quarterly activity report must incluc vation for, such payments.	le a description of, and an

7.	Financing facilities Note: the term "facility' includes all forms of financing arrangements available to the entity. Add notes as necessary for an understanding of the sources of finance available to the entity.	Total facility amount at quarter end \$A'000	Amount drawn at quarter end \$A'000
7.1	Loan facilities	-	-
7.2	Credit standby arrangements	-	-
7.3	Other (please specify)	-	-
7.4	Total financing facilities	-	-
7.5	Unused financing facilities available at qu	arter end	-
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.	Estim	ated cash available for future operating activities	\$A'000
8.1	Net ca	sh from / (used in) operating activities (item 1.9)	(103)
8.2		ents for exploration & evaluation classified as investing es) (item 2.1(d))	-
8.3	Total r	elevant outgoings (item 8.1 + item 8.2)	(103)
8.4	Cash a	and cash equivalents at quarter end (item 4.6)	207
8.5	Unuse	d finance facilities available at quarter end (item 7.5)	-
8.6	Total a	available funding (item 8.4 + item 8.5)	207
8.7 Estimated quarters of for item 8.3)		ated quarters of funding available (item 8.6 divided by .3)	2.00
	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.		
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?		
	Answe N/A	er:	
	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?		
	Answe N/A	er:	

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?
Answe	r:
N/A	
Note: w	here 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: 26 July 2023

Authorised by the board.

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.