

## ASX ANNOUNCEMENT

31<sup>st</sup> January 2024

### DECEMBER 2023 QUARTERLY ACTIVITIES REPORT

Great Dirt Resources Limited (“Great Dirt” or “the Company”) is pleased to announce its Quarterly Activities Report and Appendix 5B for the period ended 31 December 2023 (the Quarter).

#### HIGHLIGHTS

- Great Dirt successfully lists manganese projects in the New England Orogen, NSW, where battery grade (74.3% Mn) and metallurgical grade (46% Mn) manganese oxide was historically mined as a direct ship ore (ASX Announcement 15 November 2023)
- Field work at the Doherty Project comprised preliminary rock chip and soil geochemistry and additionally, Thomson Airborne Pty Ltd completed an aerial geophysical survey.
- Rock chip samples assayed from the Doherty Mine extension returned grades up to 59.29% Mn and from the Junior Mine extension up to 57.14% Mn (ASX Announcement 8 December 2023).
- Soil anomalism to the west of the Junior Mine highlights a broad and elongate exploration target (ASX Announcement 18 December 2023).
- Infill and extensional soil sampling programs to further define Junior and Doherty Mine extensions being designed for Q1 CY 2024.

#### EXPLORATION SUMMARY

During the Quarter the first programs of rock chip and soil sampling to define extensions to historic mines and locate other favourable manganese-bearing host rocks were completed. The sampling was conducted within EL 9527 where rocks of the Devonian aged Woolomin Group form part of the accretionary complex forming the central part of the Southern New England Orogen.

A total of 195 rock chip samples with some associated petrological analysis was completed and reported. Also 647 soil samples were taken and assays returned.

The results from the rock chip sampling not only confirmed very high-grade manganese but also helped develop the soil sampling program with results to 59.29% Mn.

Results from the soil sampling returned broad anomalism which is not yet fully resolved and further extension and infill sampling is planned to further refine these targets.

Thomson Airborne completed an aerial geophysical survey comprising magnetic, radiometric, and digital elevation components. This survey is being processed and will be used for targeting in the quarter ending 31 March 2024.

Results to date have shown high grade manganese in rock chip and soil geochemistry, which is encouraging and possibly pointing to a larger scale target.

### **SOIL GEOCHEMISTRY**

Two programs of soil geochemistry, comprising 66 and 581 samples respectively were completed.

The second soil program was conducted following the first program of rock chip and soil sampling which defined extensions to favourable manganese-bearing host rocks. The sampling was conducted within EL 9527 where rocks of the Devonian aged Woolomin Group form part of the accretionary complex forming the central part of the Southern New England Orogen.

The sampling was conducted on nominal 200 metre lines with samples taken every 50m along the line. The samples were processed at ALS in Brisbane by a standard multielement method.

Anomalies, at the Doherty Mine and surrounds, clearly define an extension to the south of the mine area. Further lines are planned to infill the areas directly to the north of the mine area to better refine the extension to the mine stratigraphy and ore zones.

At the Junior Mine and surrounds, soil sampling has returned broad anomalism which is not yet fully resolved and further extension and infill sampling will be needed to completely define this target. These results lend further weight to Great Dirt's belief that larger district scale targets exist in the area, likely formed as primary exhalative stratiform manganese oxide deposits.

These potential larger district scale targets remain untested by modern exploration and follow-up work is being planned and designed for Q1 CY 2024 to further test this. Infill sampling will also be used to test for the mine extensions at Doherty and Junior.

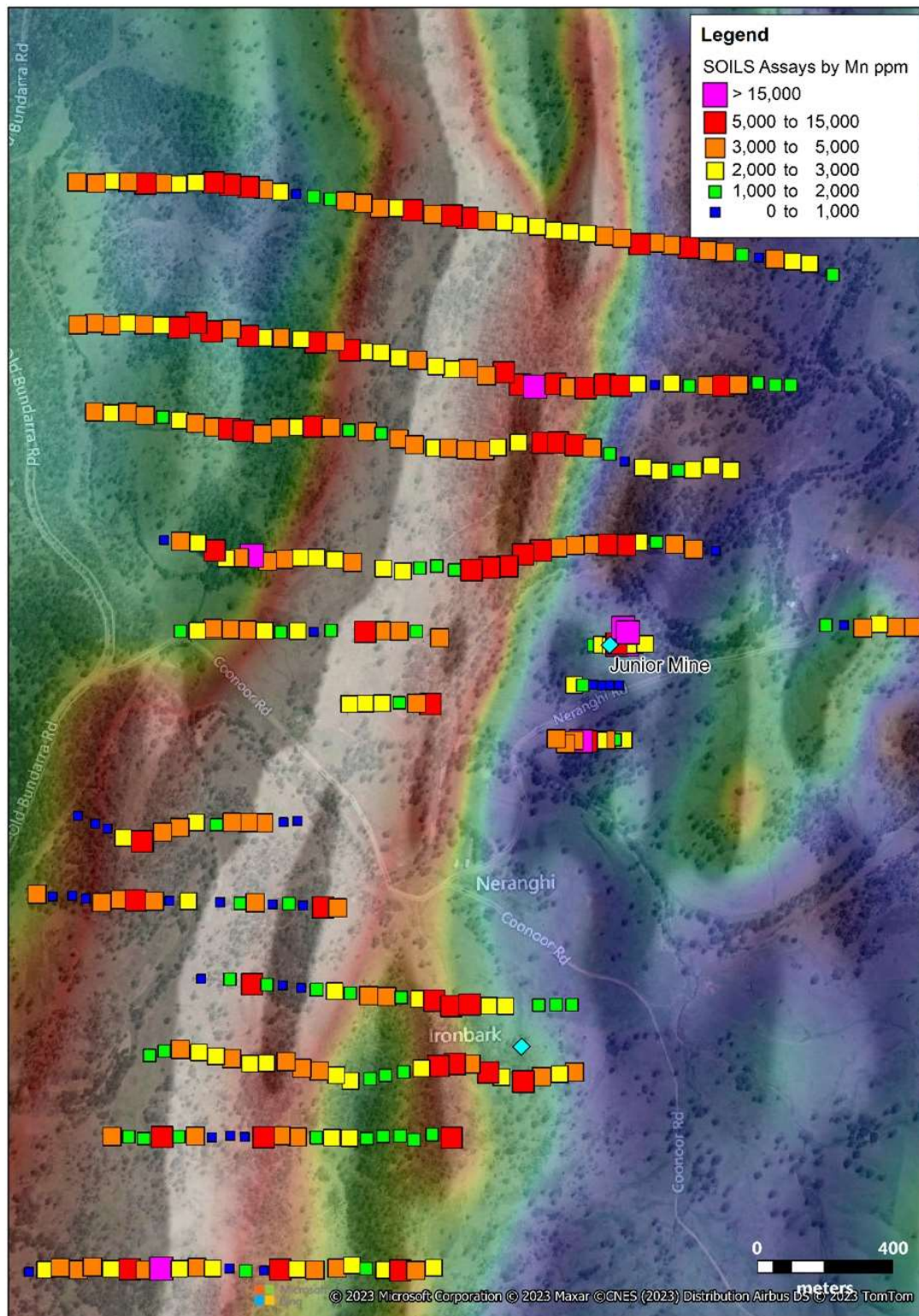


Figure 1: Junior Mine and western extension soil sampling results (ASX Announcement 18 December 2023)



## ROCK GEOCHEMISTRY AND PETROLOGY

Initial rock chip sampling at the Doherty Project comprised 195 samples and was conducted to define extensions of favourable manganese-bearing host rocks which helped define the extent of soil sampling programs.

The rock chip samples were taken across the Doherty and Junior Mines and their northern and southern extensions. All samples were taken from outside the historical open cut and underground mine workings, adhering to land access agreements and the Company's occupation health and safety protocols. Samples from the Doherty Mine extension have returned grades up to 59.29% Mn, while samples from the Junior Mine extension have returned grades up to 57.14% Mn.

Importantly, rock chip sample results confirm that the high-grade mineralisation that was mined at the Doherty and Junior mines between 1940 and 1962, exists outside of the current mined areas. These areas will be targeted in future exploration efforts.

Numerous rock chip samples were sent for petrographic analysis, with polished thin sections being made from each sample. The thin sections were then examined microscopically in transmitted and reflected light. The textural and mineralogical characteristics of each sample were favourably described by Paul Ashley Petrographic and Geological Services.

Two of the rock chip samples (GRR003, GRR041) are described as being almost entirely composed of manganese oxide material related to supergene processes. The manganese oxides are ultrafine (cryptocrystalline) to fine grained, with textures including massive colloform banded, vein and crustiform infill material. The actual manganese mineral phases are likely hollandite and romanechite. Historically this would have been described as "psilomelane", a term no longer used. Some minor clay and goethite were also noted. Analysis of these samples by geochemical analysis yielded 56.4% and 34.07% Mn.

The remaining samples (GRR043, 044, 050, 054 and Junior Mine) were described as being fine grained chert, often fractured, with manganese oxide occurring as infillings, disseminated aggregates in adjacent host rock and as inter-grain impregnations. The actual manganese mineral phases are likely hollandite and romanechite, with significant quartz, with minor amounts of goethite, sericite and other minerals. These samples yielded between 0.85% and 30.09% Mn in geochemical analysis. Importantly these types of rocks were not mined historically and represent areas that require follow up exploration.

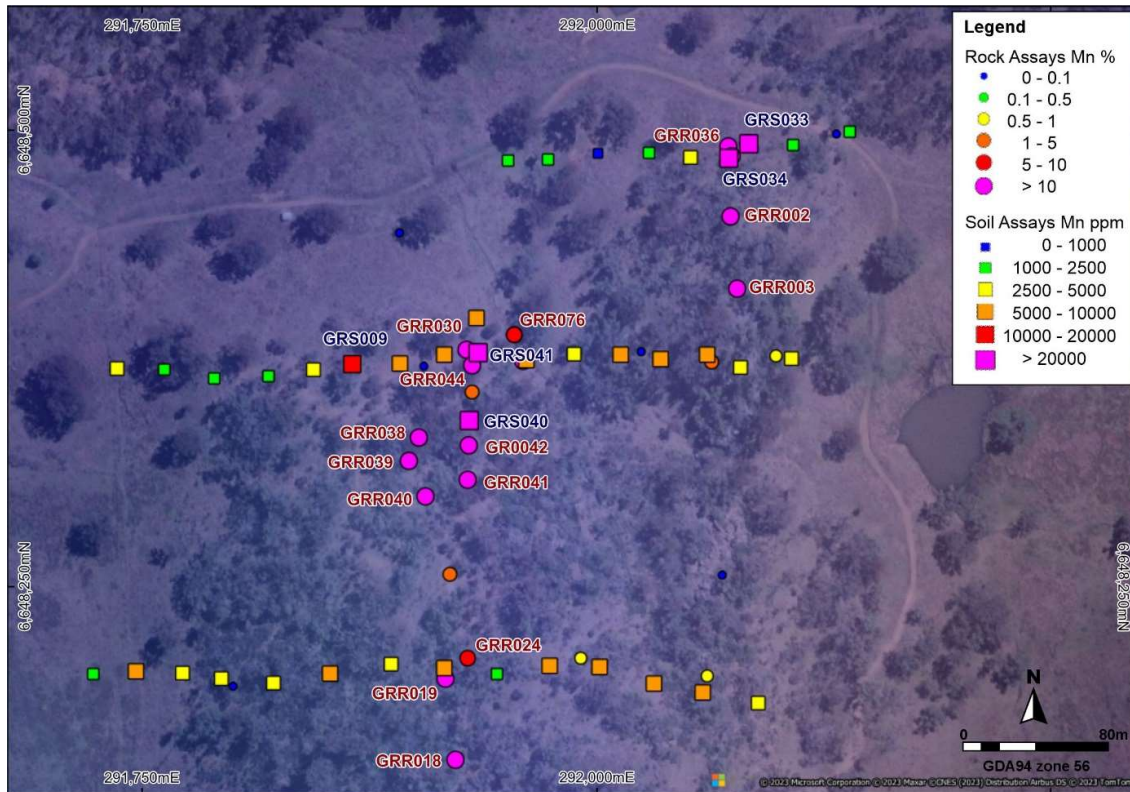


Figure 2: Doherty extension sampling with rock chip and soil sampling (ASX Announcement 8 December 2023)

## AERIAL GEOPHYSICS

Thomson Airborne successfully completed an aerial geophysical survey over the Doherty Manganese Project and surrounds. A total of 1,165 line kilometres were flown and accepted after quality control checks were completed.

The data derived from the survey was processed and delivered to the Southern Geoscience for interpretation and targeting, and will be the preliminary component of the geographic information system to be developed for the Doherty Project. The backbone of the data is the digital elevation model derived from the survey and augmented with regional data sources.

## ONGOING OPERATIONS UPDATE

Systematic grided soil geochemistry has been planned for Q1 CY 2024, to further map manganese mineralisation highlighting strike extensions away from historical mines and areas of known mineralisation. Infill soil sampling of current anomalism and additional reconnaissance geological mapping and rock sampling will also be completed.

**CORPORATE**

The Company's Quarterly Cashflow Report (Appendix 5B) follows this activities report. The Company had \$4.036 million in cash at 31<sup>st</sup> December 2023.

**MATERIAL EVENTS SUBSEQUENT TO THE END OF QUARTER**

None.

**GUIDANCE NOTE 23 DISCLOSURES****Details of mining exploration activities**

Details of exploration activities during the quarter are set out above.

The \$263,000 of exploration and evaluation expenditure was largely attributed to rock chip sampling, soil sampling, aerial magnetics, and geological salaries/wages/consulting costs.

**Details of mining production and development activities**

No production and development activities were undertaken during the quarter.

**Details of tenement activities**

The tenement schedule included below shows all holdings and any change for the Company and its subsidiaries.

**Details of related party payments**

The aggregate amount of payments to related parties and their associates included in the current quarter cash flows from operating activities was \$155,000, comprising director fees and remuneration (inclusive of superannuation). Some of these were one-off costs related to admission to the ASX.

## FINANCE AND USE OF FUNDS

Pursuant to ASX listing rule 5.3.4, the Company provides a comparison of its actual expenditure against the estimated expenditure on items set out in section 2.6 of the Company's Prospectus (ASX Announcement 8 November 2023).

Use of Funds	Funds allocated pursuant to Prospectus. (8 Quarters) \$	Actual cash expenditure for the quarter ended 31 Dec 2023 (Q1) * \$	Balance Remaining \$
Land access and environmental	300,000	26,536	273,464
Exploration on the Projects	2,900,000	348,916	2,551,084
Expenses of the Offers	264,444	253,218	11,226
Capital raising fee	300,000	300,000	-
Working capital	1,528,073	323,144	1,204,929
<b>Total</b>	<b>5,292,517</b>	<b>1,251,814</b>	<b>4,040,703</b>

*\*Quarter 1 is 3 months plus 23 days (i.e. 1.25 quarters) which includes spend from the Prospectus Date of; 8<sup>th</sup> September 2023. Accordingly, Quarter 8 will be slightly shorter by the same amount.*

## TENEMENT SCHEDULE (AS AT 31 DECEMBER 2023)

Details of the Tenement comprising the Doherty Project and Basin Project are set out below.

Tenement	Area (units)	Grant Date	Expiry Date
EL9527	56	8 February 2023	8 February 2026

Authorised for release to the ASX by the Board of Great Dirt Resources Limited.

For further information, please visit or contact:



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



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



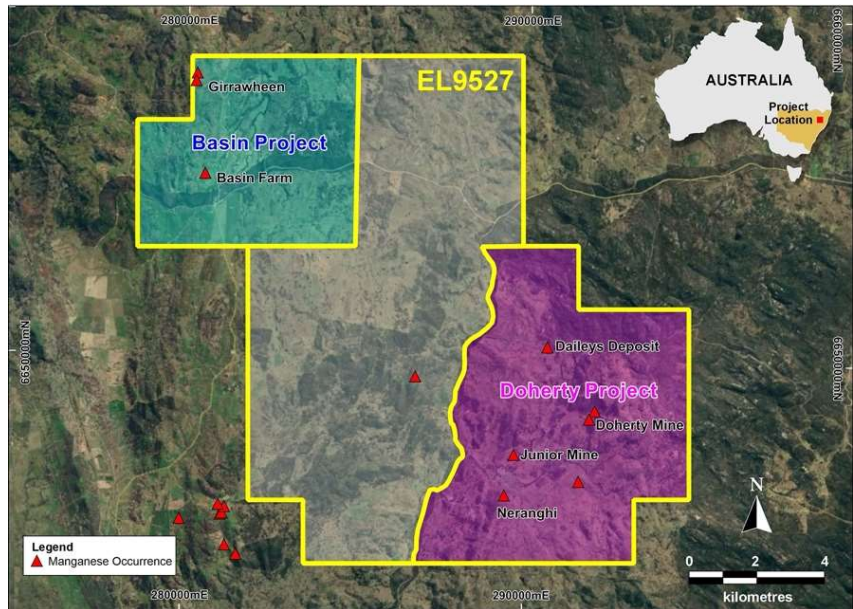
## About Great Dirt Resources Limited

Great Dirt's Doherty and Basin Projects are contained within EL 9527, located near the Barraba township, in northern NSW. These projects are prospective for high-grade manganese, with both projects having produced metallurgical and battery grade manganese historically. The Doherty Project comprises the old Doherty and Junior Mines, plus other workings and occurrences of manganese. The Basin Project contains several smaller manganese workings.

From 1941, for two decades, mines of the Doherty Project produced around 9,000 tonnes of battery and metallurgical grade manganese, both from opencut and underground operations. The battery grade ore was delivered to Eveready in Sydney for use in dry cell batteries, the metallurgical grade ore was purchased by BHP for use in steel production.

Great Dirt believes that historical work, while having discovered manganese, is unlikely to have located all sources in the area. Floaters, large rock fragments in the soil profile, of high-grade manganese ore reported outside known mine areas are a direct indication of unidentified manganese mineralisation. Additionally, notes on the mineral occurrences of the area refer to extensions and deposits along strike that were not mined.

A program of modern, systematic, geochemical and geophysical surveys will test known targets and their extents and could locate previously unrecognised blind deposits. Subsurface geophysical methods and drilling is likely to yield further targets that could be developed into projects to produce metallurgical and battery grade manganese.



## Competent Person's Statement

Information in this announcement that relates to exploration results is based on and fairly represents information and supporting documentation prepared and compiled by Mr Michael Leu, who is a Member of the Australian Institute of Geoscientists and a Member of the Australasian Institute of Mining and Metallurgy. Mr Leu is the geological consultant for Great Dirt Resources Limited. Mr Michael Leu 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 Exploration Results, Mineral Resources and Ore Reserves. Mr Michael Leu consents to the inclusion in the announcement of the matters based on this information in the form and context in which it appears.

## No New Information

Except where explicitly stated, this announcement contains references to prior exploration results, all of which have been cross-referenced to previous market announcements made by the Company. The Company confirms that it is not aware of any new information or data that materially affects the information included in the relevant market announcements.

## Forward Looking Statement

This report contains forward looking statements concerning the projects owned by Great Dirt Resources LTD. If applicable, statements concerning mining reserves and resources may also be deemed to be forward looking statements in that they involve estimates based on specific assumptions. Forward-looking statements are not statements of historical fact and actual events and results may differ materially from those described in the forward-looking statements as a result of a variety of risks, uncertainties and other factors. Forward looking statements are based on management's beliefs, opinions and estimates as of the dates the forward looking statements are made and no obligation is assumed to update forward looking statements if these beliefs, opinions, and estimates should change or to reflect other future developments.



## Appendix 5B

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

Name of entity

Great Dirt Resources Limited

ABN

44 670 840 301

Quarter ended ("current quarter")

31 December 2023

Consolidated statement of cash flows		Current quarter \$A'000	Year to date (6 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 (if expensed)	-	-
	(b) development	-	-
	(c) production	-	-
	(d) staff costs	(47)	(47)
	(e) administration and corporate costs	(234)	(254)
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>(280)</b>	<b>(299)</b>

<b>2.</b>	<b>Cash flows from investing activities</b>		
2.1	Payments to acquire:		
	(a) entities	-	-
	(b) tenements	-	-
	(c) property, plant and equipment	(99)	(104)
	(d) exploration & evaluation	(263)	(373)
	(e) investments	-	-
	(f) other non-current assets	-	-

Consolidated statement of cash flows		Current quarter \$A'000	Year to date (6 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)	-	-
<b>2.6</b>	<b>Net cash from / (used in) investing activities</b>	<b>(362)</b>	<b>(477)</b>

<b>3.</b>	<b>Cash flows from financing activities</b>		
3.1	Proceeds from issues of equity securities (excluding convertible debt securities)	4,998	5,263
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	(461)	(553)
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	Other (provide details if material)	-	-
<b>3.10</b>	<b>Net cash from / (used in) financing activities</b>	<b>4,537</b>	<b>4,710</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	141	102
4.2	Net cash from / (used in) operating activities (item 1.9 above)	(280)	(299)
4.3	Net cash from / (used in) investing activities (item 2.6 above)	(362)	(477)
4.4	Net cash from / (used in) financing activities (item 3.10 above)	4,537	4,710

Consolidated statement of cash flows		Current quarter \$A'000	Year to date (6 months) \$A'000
4.5	Effect of movement in exchange rates on cash held	-	-
4.6	<b>Cash and cash equivalents at end of period</b>	<b>4,036</b>	<b>4,036</b>

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	196	141
5.2	Call deposits	3,840	-
5.3	Bank overdrafts	-	-
5.4	Other (provide details)	-	-
5.5	<b>Cash and cash equivalents at end of quarter (should equal item 4.6 above)</b>	<b>4,036</b>	<b>141</b>

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	97
6.2	Aggregate amount of payments to related parties and their associates included in item 2	58
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		

Payments included in item 6.1 and 6.2 are related to fees and remuneration (inclusive of superannuation) paid to Directors.



<b>7.</b>	<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	-	-
7.4	<b>Total financing facilities</b>	-	-
7.5	<b>Unused financing facilities available at quarter end</b>	<div>-</div>	
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.		
N/A			

<b>8.</b>	<b>Estimated cash available for future operating activities</b>	<b>\$A'000</b>
8.1	Net cash from / (used in) operating activities (Item 1.9)	(280)
8.2	(Payments for exploration & evaluation classified as investing activities) (item 2.1(d))	(263)
8.3	Total relevant outgoings (Item 8.1 + Item 8.2)	(543)
8.4	Cash and cash equivalents at quarter end (Item 4.6)	4,036
8.5	Unused finance facilities available at quarter end (Item 7.5)	-
8.6	Total available funding (Item 8.4 + Item 8.5)	4,036
8.7	<b>Estimated quarters of funding available (Item 8.6 divided by Item 8.3)</b>	7.43
	<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?	
	N/A	
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?	
	N/A	
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?	
	N/A	
	<i>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.</i>	

## 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: 31 January 2024

Authorised by: "By the Board"

(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.== == == == ==