



ASX SYMBOL: AMD

QUARTERLY ACTIVITIES REPORT PERIOD ENDED 30 SEPTEMBER 2023

Highlights

Simandou North Iron Project, Guinea, West Africa

- Arrow secures rights to earn a 100% interest in the Simandou North Iron Project
- Scout drilling has intersected zones of enriched high-grade haematite in similar geological domains to known Simandou Range iron ore deposits
- Importantly, the Dalabatini Target, where a high-grade intercept includes:
 - 12m @ 60.1% Fe (DALDDH003)
displays similarities in orientation, geology and geochemistry to SIMFER Rio Tinto's Pic de Fon deposit located ~100km south
- Preparations underway to resume diamond drilling at the high priority targets of Kalako and Dalabatini following cessation of the wet season and subject to funding

SUMMARY OF ACTIVITIES DURING THE SEPTEMBER QUARTER

Guinea – Simandou North Iron Project Scout Drilling Program

Arrow Minerals Limited (ASX: AMD) (**Arrow** or the **Company**) currently holds a beneficial 33.3% interest in the Simandou North Iron Project and is working toward increasing its interest to 60.5%. Arrow secured rights to advance to 100% ownership in the Project during the September 2023 quarter (see ASX announcement 30 August 2023).

Dalabatini Target

The Dalabatini Target consists of an identified prominent iron-rich ridge that extends for 3,000m in a north-south direction and is approximately 500m wide. Geochemical rock chips include numerous high grade iron assay results with eight rock chip samples above 60% Fe over a 900m central zone.

Five (5) scout diamond drill holes were completed at the Dalabatini Target for a total of 206m (**Figure 1**). The best zone of iron-rich haematite was reported from DALDDH003, comprising **12m at 60.1% Fe** from 2m (**Figure 2**) and DALDDH001 located 400m to the east assayed **12m at 55.0% Fe** from 2m.



DIRECTORS / OFFICERS

Tommy McKeith
Chairman

Hugh Bresser
Managing Director

Frazer Tabcart
Non-Executive Director

Alwyn Vorster
Non-Executive Director

**Catherine Grant-Edwards &
Melissa Chapman**
Joint Company Secretary

WEBSITE

www.arrowminerals.com.au

EMAIL

info@arrowminerals.com.au

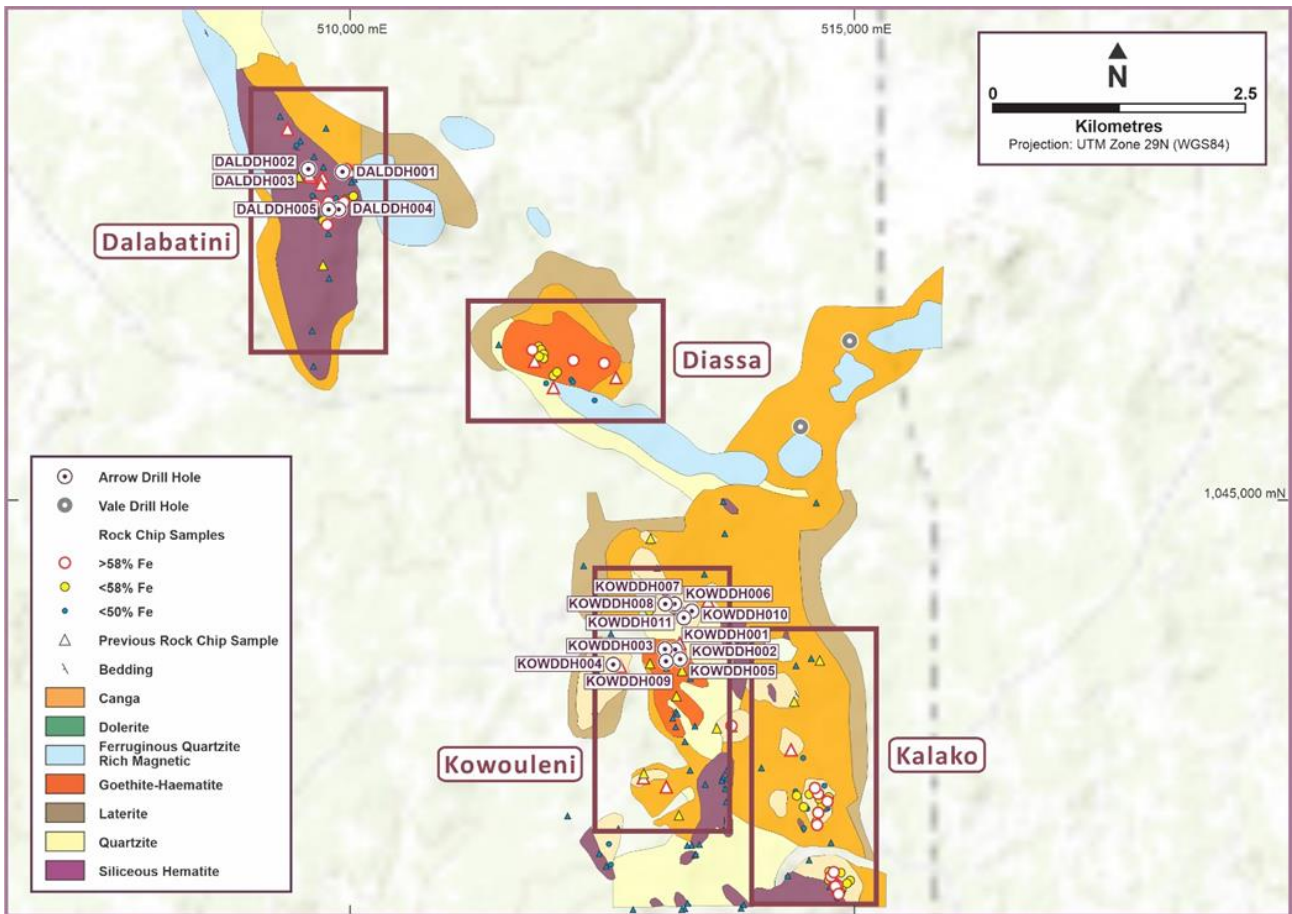


Figure 1. Detailed geological map showing the four distinct target areas, Dalabatini, Diassa, Kowouleni and Kalako and scout diamond drillhole collar locations for Simandou North Iron Project completed as part of the first pass scout drilling program prior to the on-set of the wet season.

A further 400m south, DALDDH004 and 005 tested beneath a zone of extensive iron laterite development. These holes penetrated directly into structurally deformed laminated magnetite Banded Iron Formations (BIF), but failed to intersect the synform structures that provide the fluid conduits for the creation of the main haematite rich zones.

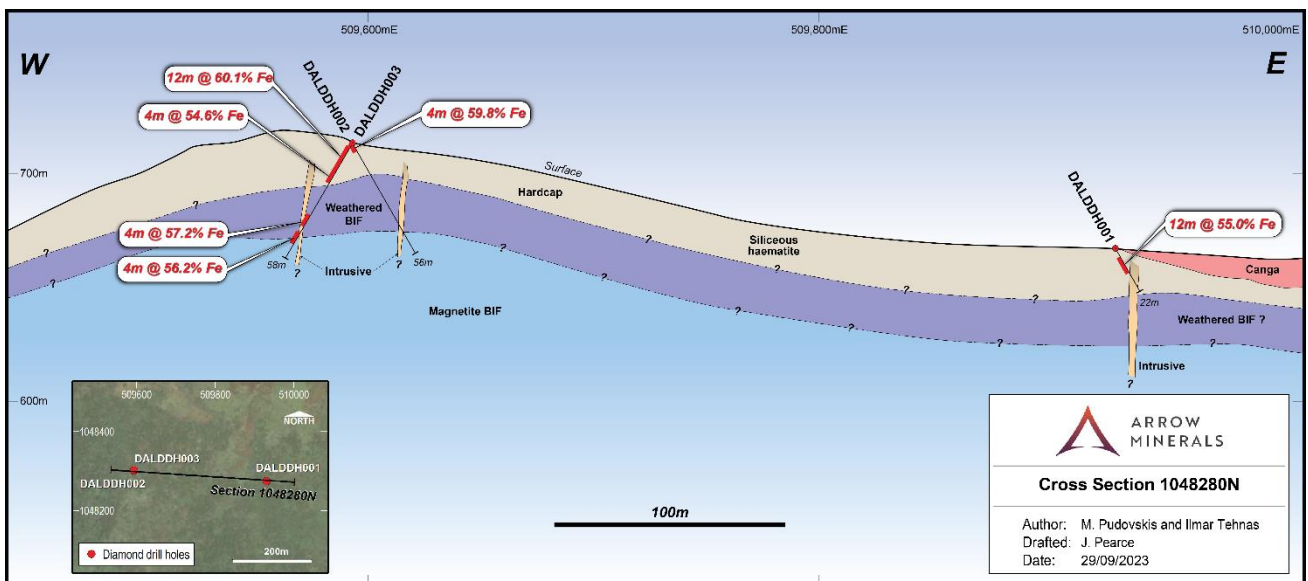


Figure 2. Simplified interpreted geological cross section developed from drill core logs at the Dalabatini target showing significant iron intercepts and BIF distribution.

Dalabatini Target Comparison with Pic de Fon Deposit (Rio Tinto SIMFER)

Pic de Fon is an iron oxide deposit that forms part of the 2.8Bt at 65.8% Fe Mineral Resource Estimate reported by Rio Tinto Simfer (SIMFER S.A.)¹. Pic de Fon is located within the southern portion of the Simandou Range (Blocks 3 & 4) approximately 100km south of Arrow's Simandou North Iron Project.

The deposit occurs on a prominent ridge and is divided into three contiguous high-grade iron zones, Northern, Central and Southern that extend for 7.5km along strike. BIF at Pic de Fon were structurally deformed regional tectonic events providing conduits for hydrothermal fluids along synformal keels. These hydrothermal fluids precipitated haematite and dissolved quartz resulting in significant iron enrichment of the BIFs in these areas from 30-35% Fe to >65% Fe over thicknesses of at least 250m (Cope et al. 2008²).

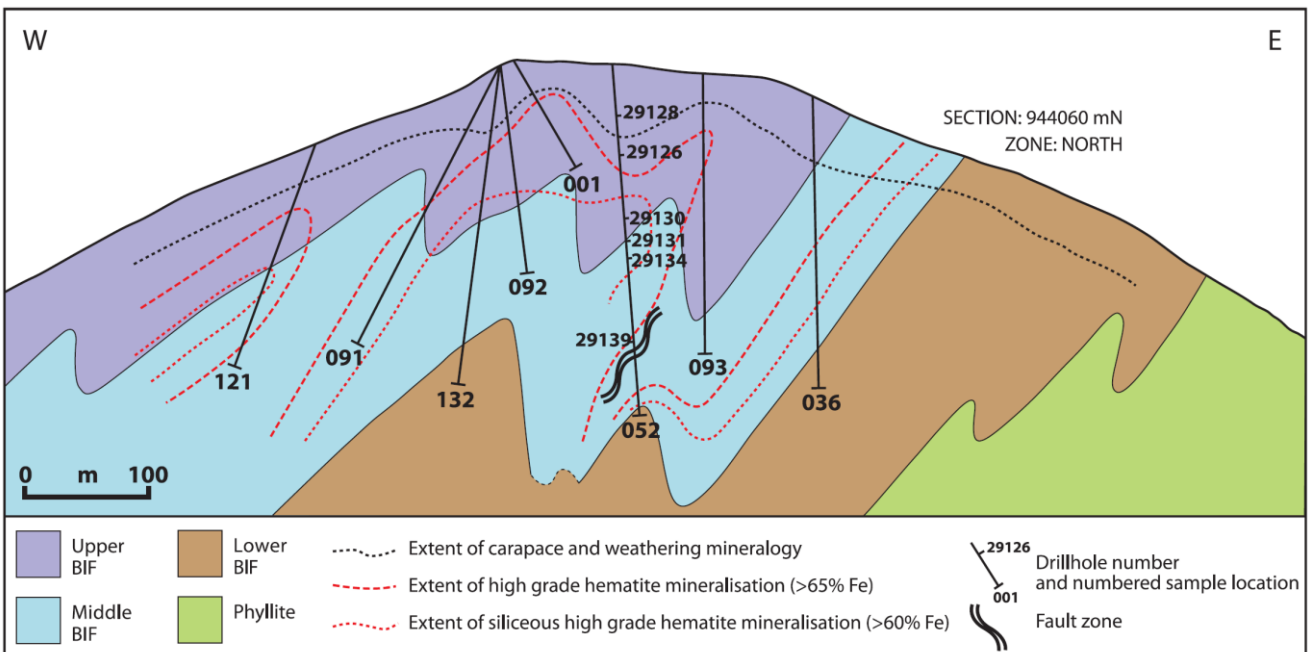


Figure 3. Simplified east-west cross section at 944060mN, Northern zone, showing interpreted phyllite-BIF stratigraphy, drill holes, and selected sample locations. Also shown are the interpreted depth of weathering and the extent of high-grade (>65%) and siliceous high-grade (>60%) enrichment which appear to transgress the BIF banding and locally extend to depth. Vertical = horizontal scale (Cope et al. 2008²).

Comparing the geology and distribution of high-grade mineralisation shown in Figures 2 and 3, the Company believes drilling at Dalabatini has intersected a high-grade iron zone, with an average of 60.1% iron over a downhole width of 12m in the upper silicious haematite cap (**Figure 2**) similar to shallow high-grade mineralisation observed at Pic de Fon (**Figure 3**).

Notably the main high grade iron zones at Pic de Fon shown in Figure 3 occur at vertical depths in excess of 80m whilst drilling at Dalabatini has only penetrated to a depth of around 50m vertically. This highlights the significant potential to be tested with deeper drilling at Dalabatini.

Kowouleni Target

The Kowouleni Target consists of a zone 3,000m long and between 500m and 1,500m wide. This geologically complex area has mapped zones of siliceous haematite, goethite-haematite and canga surrounded by a quartzite. Geophysical modelling reflects the geological detail mapped at surface and suggests high potential for enriched haematite development.

¹ Rio Tinto Annual Report 2022

² Cope, I.L., Wilkinson, J.J., Boyce, A. J., Chapman, J.B., Herrington, R.J. and Harris, C.J., 2008 Genesis of the Pic de Fon Iron Oxide Deposit, Simandou Range, Republic of Guinea, West Africa: Society of Economic Geologists SEG Reviews vol. 15, p. 339-360.

Initial scout drilling at the Kowouleni Target focused beneath zones of mapped haematite rich lithologies at surface where elevated iron assays have been reported from rock chip samples collected as part of the regional exploration program. Geophysical modelling over these areas is also consistent with the high potential for rich haematite development.

A total of eleven (11) scout diamond drill holes have been completed (620m) at the Kowouleni Target (**Figure 1**) with analytical results received from all eleven holes along four separate sections. All holes intersected the anticipated BIF formations with seven (7) terminating in the apparent crystalline basement. Analytical results are indicative of lower grade iron stone formations with consistent results around 45% Fe.

Forward Exploration Program

Initial high priority target areas identified within Arrow's Simandou North Iron Project have had preliminary field work conducted on them, the results of which have allowed the Company to develop four main target areas where area coincident modelled geophysical responses combined with favourable geology and elevated iron geochemistry demonstrate the potential for significant haematite development and enrichment within the iron bearing lithologies.

A three-stage systematic exploration program has now commenced with Stage 1 underway. Stages 2 & 3 are planned to commence after the wet season, and subject to results from Stage 1.

Stage 1 - Refine targets (underway)

- Compile and analyse geological, geochemical and geophysical data collected by the Company in combination with public domain geological data to provide a better understanding of the stratigraphic position of the project area in relation to other known high-grade deposits contained within the Simandou Range.
- Undertake a detailed structural analysis of the four target areas to the southern boundary of the permit to identify structural corridors that may reflect synformal deformations and conduits for hydrothermal fluids that result in haematite upgrading.
- Complete detailed geological mapping of the Kalako Target ridgeline extending from the southern boundary north for approximately 2km covering the area of significant surface geochemical anomalism reported from rock chips to tie the known geology of WCS's Block 1 into Arrow's Simandou North Iron Project geology.

Stage 2 - Advance current drill targets

- Execute two detailed single traverse lines, consisting of 6 to 10 regularly spaced vertical diamond drill holes over the highest ranked sections at the Kalako Target to enable drilling to vector in on potential structural conduits for hydrothermal fluids capable of upgrading haematite within synforms.
- Diamond drilling at Dalabatini to extend the known high-grade iron zones intersected in DALDDH001 & DALDDH003 and test to depth to ascertain the potential for similar mineralisation to that observed at Pic de Fon at depth.

Stage 3 - Regional target generation

- The four target areas, Dalabatini, Diassa, Kowouleni and Kalako occur in the southern 25% of the Simandou North Iron Project permit area. Additional work including detailed geological mapping and geochemical sampling of 75% of the permit area lying north of Dalabatini will be conducted to identify additional target zones with potential for significant high-grade iron mineralisation.

CORPORATE AND FINANCIAL

Rights to Earn a 100% Interest in the Simandou North Iron Project

Arrow currently holds a beneficial 33.3% interest in the Simandou North Iron Project in Guinea, West Africa (**Project**) and can increase this to a 60.5% controlling interest in the project (see ASX announcement 24 October 2022).

On 30 August 2023 the Company announced it had executed a binding term sheet (**Agreement**) to acquire the remaining 39.5% interest in Amalgamated Minerals Pte. Ltd. (**Amalgamated**), a private Singaporean registered company, which would give Arrow a 100% interest in the Project.

Key commercial milestones are:

- 80% ownership through the completion of a Pre-Feasibility Study or expenditure of A\$15,000,000, whichever is less;
- 90% ownership through the completion of a Feasibility Study or expenditure of an additional A\$22,500,000, whichever is less;
- 100% ownership following Amalgamated reaching a decision to mine in exchange for a US\$1/tonne royalty.

Refer to Announcement dated 30 August 2023 for further details.

Sale of Residual Mineral Rights, Western Australia

On 7 August 2023 the Company announced that it entered into a binding option and earn-in agreement with Raiden Resources Limited (ASX:RDN) (**Raiden**) for the sale of Arrow's lithium-caesium-tantalum (Li-Cs-Ta) mineral rights in tenements E47/3476 & E47/3478 (**Tenements**) located in the Pilbara, Western Australia (**Mineral Rights**).

Under the terms of the agreement, Raiden may either:

- purchase 100% interest, for \$550,000 (cash and shares) within 3 months, with Arrow retaining a 1% NSR royalty; or
- earn up to 85% interest through staged payments totalling \$750,000 and meeting exploration expenditure commitments of \$8,000,000.

Refer to Announcement dated 7 August 2023 for further details.

Financial Position

As at 30 September 2023 Arrow had \$265,000 in available cash.

The Company is in discussions with potential financiers to provide additional capital to support the Company's planned activities.

Expenditure on Mining Exploration Activities

In accordance with ASX Listing Rule 5.3.1, the Company advises its exploration and evaluation expenditure during the September 2023 quarter totalled \$74,000 (Burkina Faso holding costs only). This amount is included at Item 2.1(d) of the Appendix 5B and includes geological consultants and employee costs (\$32,000), tenement applications, rents, rates and management (\$29,000); and other costs (\$13,000) associated with maintaining interests in the Burkina Faso projects.

Pursuant to the terms of the Definitive Agreement, Arrow has agreed to provide, by way of an unsecured, interest-free shareholder loan to Amalgamated, \$2,500,000 of exploration expenditure funding for the Simandou North Iron Project within 24 months from Stage 1 completion (**Expenditure Commitment**). During the quarter the Company invested \$525,000 in the Simandou North Iron

Project under this Expenditure Commitment. This amount is included at Item 2.5(a) of the Appendix 5B.

Administration and Corporate Costs

Item 1.2(e) of the Appendix 5B indicates total payments for administration and corporate costs during the quarter of \$181,000. This amount includes listed company compliance costs (\$34,000), consultants (\$44,000), and other administrative costs (\$103,000).

Payments to Related Parties and their Associates

In accordance with ASX Listing Rule 5.3.5, payments to related parties of the Company and their associates during the quarter totalled \$114,508. The Company advises that \$104,454 of this relates to Directors fees. An amount of \$10,054 was paid to Mitchell River Group (a director-related party of Dr Frazer Tabcart) for data analysis. These amounts are included at Item 6 of the Appendix 5B.

Capital Structure

During the quarter, movements in securities were as follows:

- 37,500,000 unlisted options exercisable at 1.45¢ expired on 22 August 2023; and
- 69,682,300 performance rights expired on 26 August 2023.

The capital structure of Arrow at 30 September 2023 is set out below:

Quoted Securities

Ordinary shares on issue (ASX:AMD)	3,023,765,096
------------------------------------	---------------

Unquoted Securities

Unlisted options exercisable at 1.0¢ on or before 11/12/2023	2,850,000
Unlisted options exercisable at 0.825¢ on or before 22/02/2024	284,393,941
Unlisted options exercisable at 0.9¢ on or before 11/10/2024	4,300,000
Unlisted options exercisable at 0.9¢ on or before 25/11/2024	8,000,000
Unlisted options exercisable at 0.6¢ on or before 05/08/2025	49,900,000
Unlisted options exercisable at 0.7¢ on or before 24/10/2025	5,000,000
Unlisted options exercisable at 1.1¢ on or before 25/11/2025	5,000,000
Unlisted options exercisable at 0.7¢ on or before 22/02/2026	40,000,000
Performance Rights subject to performance conditions (ex. 31/12/2026)	96,000,000
Convertible Notes	1,000,000

Announcement authorised for release by Hugh Bresser, Managing Director of Arrow.

For further information visit www.arrowminerals.com.au or contact: info@arrowminerals.com.au

FOLLOW US

Twitter: <https://twitter.com/arrowminerals>

LinkedIn: <https://www.linkedin.com/company/arrow-minerals-limited>

JORC Code 2012 Compliance Statement

The technical information contained within this Quarterly Report is extracted from numerous announcements made by Arrow Minerals Ltd to the ASX which are available to view on www.arrowminerals.com.au. The company confirms that 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.

About Arrow Minerals

Arrow Minerals has a strategy of delivering long-term value to shareholders through the discovery and development of economic mineral deposits in West Africa. Arrow has beneficial rights of 33.3% in the Simandou North Iron Project, Guinea and a clear road map to extend these rights to 100% by delivering on key milestones (AMD ASX Announcement 30 August 2023). Arrow aims to systematically advance the Simandou North Iron Project over the coming months to identify areas of high-grade iron within the project area and realise the potential value released through the major infrastructural upgrades, rail and port, underway in the region.

Appendix A – Schedule of West African tenement interests as at 30 September 2023

Tenement ID	Country	Status	Interest at beginning of quarter	Interest acquired or disposed	Interest at end of quarter	Note
Simandou North						
Permit 22967	Guinea	Granted	33.3%	-	33.3%	(a)
Divole East & West						
20/193/MMC/SG/DGCM	Burkina Faso	Renewed	100%	-	100%	
20/192/MMC/SG/DGCM	Burkina Faso	Renewed	100%	-	100%	
19/047/MMC/SG/DGCM	Burkina Faso	Granted	100%	-	100%	
20/190/MMC/SG/DGCM	Burkina Faso	Granted	100%	-	100%	
Houde South & Nako						
20/084/MMC/SG/DGCM	Burkina Faso	Renewed	100%	-	100%	
20/161/MMC/SG/DGCM	Burkina Faso	Renewed	100%	-	100%	
20/162/MMC/SG/DGCM	Burkina Faso	Renewed	100%	-	100%	

Note:

(a) Simandou North Iron Project (Permit 22967) is owned by Mineralfields Guinea SARL. Mineralfields Guinea SARL is a wholly owned subsidiary of Amalgamated Minerals Pte. Ltd. Arrow holds a 33.3% beneficial interest in Amalgamated Minerals Pte. Ltd.

Appendix 5B

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

Name of entity

ARROW MINERALS LIMITED

ABN

49 112 809 846

Quarter ended ("current quarter")

30 September 2023

Consolidated statement of cash flows	Current quarter \$A'000	Year to date (9 months) \$A'000
1. Cash flows from operating activities		
1.1 Receipts from customers		
1.2 Payments for		
(a) exploration & evaluation	-	-
(b) development	-	-
(c) production	-	-
(d) staff costs	(114)	(370)
(e) administration and corporate costs	(181)	(612)
1.3 Dividends received (see note 3)	-	-
1.4 Interest received	1	7
1.5 Interest and other costs of finance paid	(22)	(63)
1.6 Income taxes paid	-	-
1.7 Government grants and tax incentives	-	-
1.8 Other (provide details if material)	-	-
1.9 Net cash from / (used in) operating activities	(316)	(1,038)

2. Cash flows from investing activities		
2.1 Payments to acquire or for:		
(a) entities	-	-
(b) tenements	-	-
(c) property, plant and equipment	-	-
(d) exploration & evaluation	(74)	(227)
(e) investments	-	-
(f) other non-current assets	-	-

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

Consolidated statement of cash flows		Current quarter \$A'000	Year to date (9 months) \$A'000
2.2	Proceeds from the disposal of:		
	(a) entities	-	-
	(b) tenements	50	50
	(c) property, plant and equipment	-	-
	(d) investments	145	145
	(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)	-	-
	(a) Shareholder Loan to Amalgamated ^(A)	(525)	(1,852)
2.6	Net cash from / (used in) investing activities	(404)	(1,884)

3.	Cash flows from financing activities		
3.1	Proceeds from issues of equity securities (excluding convertible debt securities)	-	2,695
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	-	(104)
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)	-	-
3.10	Net cash from / (used in) financing activities	-	2,591

4.	Net increase / (decrease) in cash and cash equivalents for the period		
4.1	Cash and cash equivalents at beginning of period	989	617
4.2	Net cash from / (used in) operating activities (item 1.9 above)	(316)	(1,038)
4.3	Net cash from / (used in) investing activities (item 2.6 above)	(404)	(1,884)
4.4	Net cash from / (used in) financing activities (item 3.10 above)	-	2,591

Appendix 5B

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

Consolidated statement of cash flows		Current quarter \$A'000	Year to date (9 months) \$A'000
4.5	Effect of movement in exchange rates on cash held	(4)	(21)
4.6	Cash and cash equivalents at end of period	265	265

(A) Pursuant to the terms of the Definitive Agreement, Arrow has agreed to provide, by way of an unsecured, interest-free shareholder loan to Amalgamated, \$2,500,000 of exploration expenditure funding for the Simandou North Iron Project within 24 months from Stage 1 completion (**Expenditure Commitment**). During the quarter the Company invested \$525,000 in the Simandou North Iron Project under this Expenditure Commitment.

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	265	990
5.2	Call deposits	-	-
5.3	Bank overdrafts – credit card	-	(1)
5.4	Other (provide details) – cash on hand	-	-
5.5	Cash and cash equivalents at end of quarter (should equal item 4.6 above)	265	989

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	104
6.2	Aggregate amount of payments to related parties and their associates included in item 2	10

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.

Item 1.2 (d) contains \$10k to Geogen Consulting Pty Ltd for Dr Frazer Tabear's director fees, \$73k to Milagro Ventures Pty Ltd for Mr Hugh Bresser's director fees, \$10k to Earthstone Resources Pty Ltd for Mr Alwyn Vorster's director fees, and \$11k to other directors on payroll.

Item 2.1 (d) includes \$10k to Mitchell River Group, a related party of Dr Frazer Tabear. Transactions between related parties are on normal commercial terms and conditions no more favourable than those available to other parties.

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

7. Financing facilities	Total facility amount at quarter end \$A'000	Amount drawn at quarter end \$A'000
<i>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.</i>		
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 quarter 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. Estimated cash available for future operating activities	\$A'000
8.1 Net cash from / (used in) operating activities (item 1.9)	(316)
8.2 (Payments for exploration & evaluation classified as investing activities) (item 2.1(d))	(74)
8.3 Total relevant outgoings (item 8.1 + item 8.2)	(390)
8.4 Cash and cash equivalents at quarter end (item 4.6)	265
8.5 Unused finance facilities available at quarter end (item 7.5)	-
8.6 Total available funding (item 8.4 + item 8.5)	265
8.7 Estimated quarters of funding available (item 8.6 divided by item 8.3)	0.7
<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: Yes. Expenditure in the current quarter reported is representative of the Company's current and expected level of net operating cash flows. The Company's planned exploration work for the next quarter will be adjusted based on the quantum of existing funds and new funds that may be raised via an equity raising.	
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: Yes. As detailed above, the Company continues to review its funding options including the raising of additional capital through an equity raising.	

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 Directors believe that it is reasonably foreseeable that the Company will continue as a going concern based on the following factors:

- Adjusting planned exploration activities (subject to available funds)
- Raising additional funds (as outlined above)

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: 31 October 2023

Authorised by: Board of Directors
(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.