

Latest high-grade bauxite assays extend known Niagara mineralisation to 5 km²

The Niagara discovery is rapidly developing genuine scale and achieving high grade within trucking distance of the multi-user railway; Results from 111 holes pending.

Highlights

- Latest assays from 30 holes include;
 - o BS000096, 4 metres at 50.3% Al₂O₃, 3.1% SiO₂ from surface
 - o BS000072, 4 metres at 46.6% Al₂O₃, 0.7% SiO₂ from 1 metre
 - BS000076, 6 metres at 47.1% Al₂O₃, 2.3% SiO₂ from surface
 - o BS000075, 15 metres at 43.1% Al₂O₃, 3.7% SiO₂ from surface
 - o BS000086, 3 metres at 50.1% Al₂O₃, 4.4% SiO₂ from surface
 - BS000090, 7 metres at 43.8% Al₂O₃, 4.1% SiO₂ from surface
 - o BS000094, 3 metres at 48.8% Al₂O₃, 3.3% SiO₂ from surface
 - o BS000097, 2 metres at 54.6% Al₂O₃, 2.2% SiO₂ from surface
- Results from the first three batches totalling 73 holes confirm continuous high grade bauxite over 5km²
- Results from a further 111 holes testing additional extensions are due in coming weeks
- Guinea is the world's largest producer of bauxite, typically attracting a premium for high grade and low silica content
- Following the drilling of 180 holes (on 800 by 800 metres spacings) by Vale in 2007, Arrow has defined nine priority bauxite exploration target areas; The 5km² area comprises three of these targets
- Discussions with potential bauxite customers are ongoing, generating significant interest at a time of record high bauxite prices of \$US90-100/t CFR China

Arrow Minerals Limited (ASX: **AMD**) (**Arrow** or the **Company**) is pleased to report further outstanding assays from its maiden drilling program at the Niagara Bauxite Project¹ in Guinea. The project is located within trucking distance (~100km) of the multi-user Trans-Guinean Railway (refer Figure 1).

Arrow has already completed first pass baseline environmental studies, community engagement, and commenced recruitment of people from local communities to support the current operations.

Managing Director, David Flanagan, said: "These latest outstanding results confirm that Niagara is a substantial bauxite discovery with high-grade mineralisation already outlined over 5km², with results from another 111 holes offering potential to grow the discovery further."

Arrow Minerals Limited ABN 49 112 609 846 Unit 4, 38 Colin Street, West Perth WA 6005 **Tel:** +61 8 9383 3330

Web: www.arrowminerals.com.au **ASX**: AMD

¹ Refer to ASX Announcement dated 1 August 2024 entitled "Arrow Expands Bulks Presence with Major Bauxite Transaction" for further details.

"This is all within trucking distance of a multi-user railway at a time of record alumina and bauxite prices."

"Guinea is the world's largest and most important supplier of high-quality bauxite. These results are comfortably in line with the product that has made Guinea the world's number one bauxite producer."

"Guinea bauxite is in high demand, contributing approximately 30% of global supply with a premium product specification at 45% Al₂O₃ and 3% SiO₂ attracting prices that are currently at all-time record highs, of circa US\$100/t CIF China."

"Coupled with the broad expanse of bauxite prospective lithologies intersected in drilling and our proximity to the multi-user Trans-Guinean railway, the Niagara Bauxite Project presents an excellent opportunity to create value for shareholders, generate jobs in local communities, and position Arrow to achieve its goal of establishing itself as a new independent, highly profitable supplier of high quality bauxite."

"With SRK's site visit due for January 2025, we aim to estimate a maiden Mineral Resource to form the basis for our planned Scoping Study to follow in the first half of 2025."

Niagara Bauxite Project and Bauxite Background

Arrow is exploring the Niagara Bauxite Project with the benefit of work done on this project by various mining companies from the 1960's, including geology and assays from 180 holes drilled by Vale in 2007. This announcement includes results for 30 drill holes on 300 by 300 metre spacings, completed and assayed as part of a program of 184 holes targeting high grade mineralisation intercepted in historical drilling.

With the guidance of Independent Resource Consultants, SRK Consulting (UK) Ltd (**SRK**), the Company has designed the current program with the intention of delivering sufficient indicated and inferred resources required to underpin a scoping study. Drilling includes twinning previous Vale holes, a programme of shallow pitting in areas of mineralisation as well as all the required quality control sampling and value in use ore characterisation studies required to comply with modern resource reporting standards.

A typical commercially viable Guinea plateau bauxite deposit is flat with a thickness that varies from 1 to 10 metres, on average, will have 44 to 46% alumina and silica levels typically averaging 3%. Mineralisation is typically thickest along the edges of plateaus coincidence with subtle changes in gradient of 1 to 3 degrees, where meteoric waters, over geological time have enhanced grade and removed deleterious elements.

The application of surface miners to bauxite mining is now common throughout the industry, negating the need for drill and blast, and crushing and screening. The ability to excavate consolidated material (i.e. no drill and blast) and mine a minimum mining thickness of approximately 300mm using high precision GPS machine guidance makes the surface miner well suited to plateau bauxite mining in Guinea. The Company has visited bauxite mining operations, inspected various mining equipment and met with several contractors with current operating experience in bauxite mines in Guinea. The information collected during these visits, combined with the results from the current drilling campaign, allows the Company to start to define important operating parameters that will ultimately be fed into a planned Scoping Study subject to the estimation of sufficient Mineral Resources.

Arrow has also commenced and completed preliminary baseline social and environmental impact studies. The Company remains committed to progressing this work and continuing to engage with all relevant stakeholders through the permitting processes to conclude them in a timely manner. No

impediments to exploration or mining have been identified and the Company has established productive relationships with key community and government stakeholders.

There are several existing rural and national roads which can be leveraged to link the project to the Trans-Guinean Railway (**TGR**) which is currently under construction (Figure 1). The TGR is being commissioned and funded by a large consortium in a joint venture which includes the Government of Guinea as a 15% part owner. Members of the consortium include Baosteel, Chinalco, Winning, Rio Tinto, Hongqiao and the Government of Guinea. The TGR will be operated by a management company that will provide ore haulage services to the developers of the two large mines at Simandou and other third parties (Figure 4).

Arrow has previously signed a Memorandum of Understanding (MOU) with Baosteel². This MOU, subject to the Company delivering a fully permitted mining project, contemplates concluding a binding mine gate sale agreement for iron ore from Arrow's Simandou North Iron Project to Baosteel. The railway is due for commissioning in late 2025.

The Company intends to take full advantage of the multi-user obligations of the TGR to underpin the development of the Niagara Bauxite Project for the benefit of shareholders and the people of Guinea.

Against a backdrop of currently record high bauxite prices, the drilling results at Niagara have so far delivered high grade intercepts from surface in several drill holes across substantial lateral extent. Given the location is within potential trucking distance of the TGR, the Company is very encouraged by the drilling results received to date.

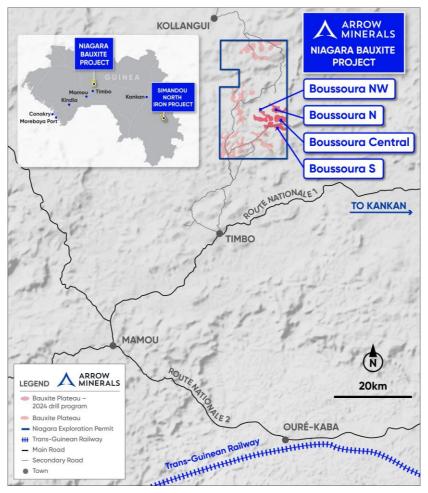


Figure 1: Map of Niagara Bauxite Project showing Boussoura prospect areas tested in Arrow's first campaign of drilling.

² Refer to ASX Announcement dated 21 October 2024 entitled "Baosteel and Arrow sign Iron Ore Development MOU" for further details.

Geological Results

Analysis from the 30 drill holes (the subject of this announcement) for a total of 365 metres of drilling have been received from ALS Global, all of which are from the Boussoura Central plateau area, and include holes BS000065, BS000069 to BS000076, and BS000079 to BS000099.

Results are reported in Table 1 using a 1m minimum intercept, nil dilution for intervals less than 4m, 1m dilution for intervals greater than 4m, and a cut-off grade of 40% Al₂O₃. Drill holes that return assays below cut-off grade are omitted from reporting but may subsequently be reported subject to the results of metallurgical testwork. The locations of all drill intercepts are shown in Figure 3.

Table 1. Selected Significant Intercepts for Boussoura Central drill holes BS000065, BS000069 to BS000076, and BS000079 to BS000099 inclusive, reported at a cut-off grade of 40% Al₂O₃ with simplified geology (Bx = bauxite, BxL = bauxite with visible iron oxides). Intercepts highlighted in italics include dilution.

Hole_ID	From (m)	To (m)	Interval (m)	Al ₂ O ₃ (%)	SiO ₂ (%)	Fe ₂ O ₃ (%)	LOI ¹⁰⁰⁰ (%)	Logged Geology
BS000065	0	2	2	47.3	1.4	24.3	22.2	Bx
BS000069	0	2	2	50.2	1.2	18.6	25.4	Bx
BS000070	0	6	6	41.4	1.3	31.1	21.7	Вх
BS000071	0	1	1	40.4	2.8	32.1	20.2	Bx/BxL
BS000072	0	5	5	44.4	0.9	27.2	22.9	Bx/BxL
BS000073	0	5	5	41.3	2.8	30.4	21.9	Bx/BxL
BS000073	7	10	3	40.0	4.0	30.6	21.1	BxL
BS000074	1	4	3	47.7	3.1	22.2	22.6	Bx/BxL
BS000075	0	15	15	43.1	3.7	26.1	23.3	Bxl/L
BS000076	0	6	6	47.1	2.3	22.2	24.7	Bx
BS000079	0	5	5	44.5	5.8	23.5	22.8	Bx
BS000080	0	2	2	45.2	2.4	24.2	21.4	Bx
BS000080	6	7	1	42.3	1.3	29.3	22.4	BxL
BS000081	0	1	1	40.8	0.9	28.8	21.0	Bx
BS000082	0	4	4	44.3	0.9	28.4	22.2	Вх
BS000082	0	2	2	48.6	1.1	22.1	23.8	Bx
BS000082	3	4	1	45.4	0.6	26.7	23.1	Bx
BS000084	0	1	1	41.6	1.2	32.4	20.5	BxL
BS000085	0	1	1	51.4	1.5	17.0	26.2	Bx
BS000085	7	9	2	45.4	1.1	25.6	23.4	Bx
BS000086	0	3	3	50.1	4.4	17.1	25.4	Bx
BS000087	0	2	2	41.9	6.4	25.4	22.5	Bx
BS000087	5	14	9	41.4	6.0	26.4	22.5	Bx/BxL
BS000088	0	2	2	49.9	3.4	18.6	25.2	Bx
BS000088	6	8	2	41.4	3.6	28.3	22.8	Bx
BS000089	0	3	3	47.6	2.7	22.5	23.6	Bx
BS000089	9	11	2	41.3	4.1	29.3	22.4	BxL
BS000090	0	7	7	43.8	4.1	25.6	22.9	Bx
BS000091	0	2	2	46.0	1.9	24.7	24.1	Bx
BS000092	0	4	4	45.0	2.6	25.2	23.7	BxL
BS000093	0	2	2	44.0	3.2	26.1	21.9	BxL
BS000094	0	3	3	48.8	3.3	19.9	23.0	Bx
BS000094	4	5	1	41.4	3.5	28.7	21.8	Вх
BS000094	6	8	2	43.0	3.1	27.5	22.4	BxL
BS000095	2	3	1	40.4	4.7	30.2	20.4	BxL
BS000096	0	4	4	50.3	3.1	19.6	21.9	Bx
BS000097	0	2	2	54.6	2.2	11.9	25.6	Bx
BS000097	7	8	1	43.0	0.8	28.9	22.8	BxL
BS000098	0	1	1	43.7	2.3	26.9	23.3	Bx

Hole_ID		To (m)	Interval (m)	Al ₂ O ₃ (%)	SiO ₂ (%)	Fe ₂ O ₃ (%)	LOI ¹⁰⁰⁰ (%)	Logged Geology
BS000099	0	3	3	45.0	5.7	22.1	23.8	Вх
BS000099	4	5	1	41.1	3.0	29.2	21.8	BxL

Full details of all intercepts produced from the currently reported round of results are given in Appendix I. Drill collar locations, and simplified geology for drill holes reported in this announcement were previously reported in Appendix I of the Company's report to the ASX dated 25 November 2024³.

Samples for XRF analysis are processed and reported by ALS Global in batches of approximately 200 samples. This represents the first batch of 449 analyses (2 batches) in the Company's second consignment of 874 samples.

Results reported herein continue to confirm the presence of bauxites with grades in the range of 40 – 54% total alumina across the Boussoura Central plateau. Elevated thicknesses of bauxite most notably in drill hole BS00075 (15m grading 43.1% Al_2O_3) is also noted in drill holes BS000087 (9m grading 41.4% Al_2O_3), BS00094 (8m grading 43.6% Al_2O_3), BS000028 (previously reported 7m, grading 47.1% Al_2O_3), and BS00090 (7m grading 43.8% Al_2O_3). The thickening is generally associated with the plateau flanks, where weathering and associated bauxitisation is most concentrated.

The Company will continue to appraise the commercial significance of all bauxites encountered within the current drill program upon receipt of all drill results, and the results of metallurgical testwork from pitting and drill hole composites.

Thickness of total bauxite (bauxite + ferruginous bauxite) interpreted from geological logging is shown in Figure 2 and Figure 3 along with significant intercepts. Simplified geological logs used to determine the total bauxite thickness were reported by the Company to the ASX on 25 November 2024³.

Cautionary Statement: Beyond the analyses for the 73 holes reported to date (including this announcement), the Company is highly encouraged by the geology identified in drilling completed to date and summarised in the ASX announcement dated 25 November 2024³, but notes that chemical analyses are yet to be completed for the outstanding holes by independent assay laboratory, ALS Global. The identification of bauxite by geological logging of drill cuttings, and subsequent estimates of bauxite thickness does not imply bauxite mineralisation that is of potential economic significance for all or part of any lithological intercept until it is confirmed by chemical assay. Widths reported are downhole, which given the tabular nature of residual bauxite deposits, are considered as true widths of logged geological units.

There has been insufficient exploration work completed to estimate a Mineral Resource, and it is uncertain if further exploration will result in the estimation of a Mineral Resource.

Exploration

Following the drilling of 180 holes (on 800 by 800 metres spacings) by Vale in 2007, Arrow has defined 9 bauxite resource targets, 3 of which have been tested in the current campaign.

³ Refer to ASX Announcement dated 25 November 2024 entitled "High grade assays confirm bauxite discovery" for further details.

Arrow has completed the programme comprising 184 drill holes for a total of 2,166m of drilling (Figure 2). Of this, 2,163m of drilling have been logged and sampled. 3m were not sampled due to void or wet ground conditions during drilling (BS000083, 2m, and BS000015, 1m).

As of 9th December 2024, all samples for the 2024 campaign have now been submitted for analysis on a priority basis to ALS Global's analytical laboratory in Loughrea, Ireland. A total of 2,721 samples including 2,163 drill samples from 2,166m for 184 drill holes, and a further 558 Quality Assurance & Quality Control (QAQC) samples comprised of field and pulp duplicates, blanks, and Certified Reference Materials.

The first 449 chemical analyses from the second batch of 874 samples for 30 drill holes are reported herein. Analyses for the remaining samples, comprising the remaining 425 samples from the second sample consignment, and all 1,218 samples from the third and final consignment, are expected to be received through December 2024.

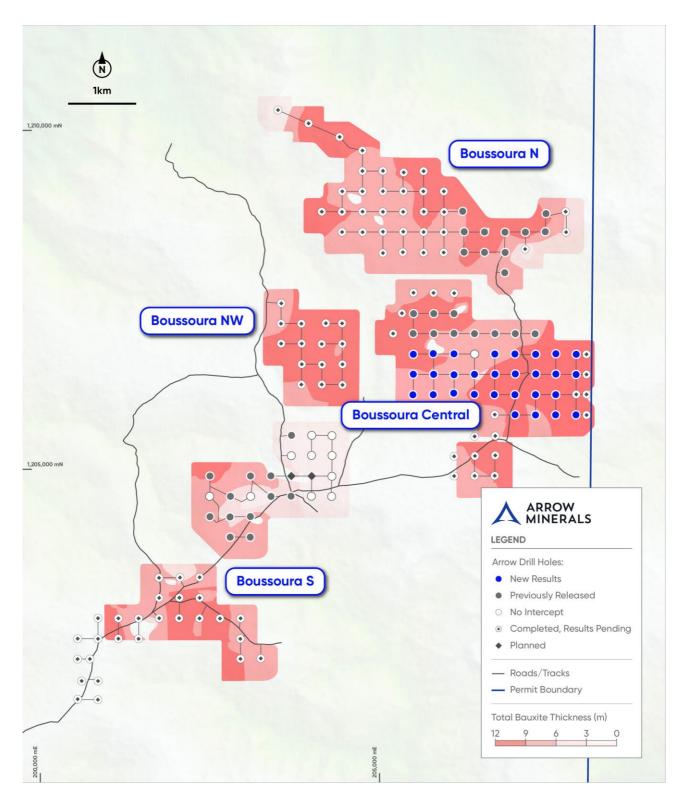


Figure 2. Drill Status Plan showing total bauxite thickness from logged geology, and SRTM topography.

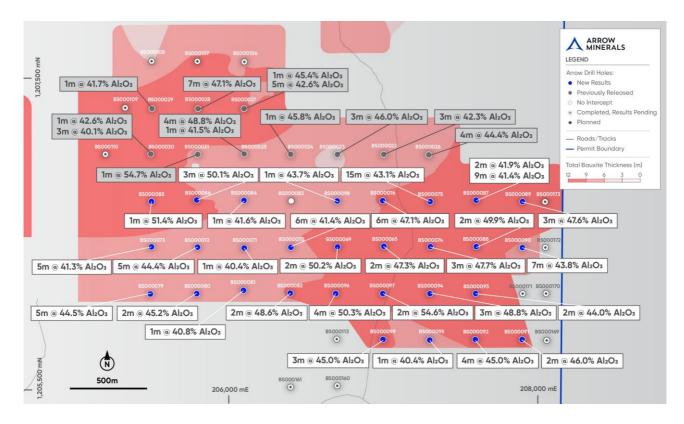


Figure 3. Boussoura Central analytical results reported as significant intercepts with a 40% Al₂O₃ cut-off, overlain on total bauxite thickness from logged geology, and SRTM topography

Community and Environment

In addition to mapping, drilling and pitting, the Company has also undertaken meetings with key community stakeholders and is continuing to collect baseline environmental data in support of permitting for any potential future mining operations.

Customer Discussions

On 21 October 2024, Arrow announced the signing of an MOU with Baosteel⁴ contemplating mine gate sales of iron ore from Simandou North.

Discussions with potential bauxite customers have commenced with meetings held in Beijing, Singapore, and during 'Aluminium Week' in Kunming. These interactions have focused on understanding customers' requirements with regard to product specifications, building relationships, and gathering market intelligence, with a view to future sales agreements.

⁴ Refer to ASX Announcement dated 21 October 2024 entitled "Baosteel and Arrow sign Iron Ore Development MOU" for further details.



Figure 4. Arrow project locations

Announcement authorised for release by the Board 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

About Arrow Minerals

Arrow is focused on creating value for shareholders through the discovery and development of multiple economic iron ore and bauxite prospects at its Simandou North Iron Project and its Niagara Bauxite Project⁵, located in Guinea, West Africa, and through validation and resource drilling, economic studies, permitting and development pathways. The Company intends to fully realise the value of the Projects by accessing multi-user rail and port infrastructure.

Competent Person's Statement

The information in this announcement that relates to Exploration Results is based on, and fairly represents, information and supporting documentation prepared by Marcus Reston, a Competent Person who is a Fellow of The Australasian Institute of Mining and Metallurgy. Mr Reston has sufficient experience that is relevant to the style of mineralisation and type of deposit under consideration and to the activity being undertaken 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 Reston is an employee of the Company and has performance incentives associated with the successful development of the Company's minerals project portfolio. Mr Reston consents to the inclusion in the report of the matters based on his information in the form and context in which it appears.

⁵ Refer to ASX Announcement dated 1 August 2024 entitled "Arrow Expands Bulks Presence with Major Bauxite Transaction" for further details.

APPENDIX I

BOUSSOURA CENTRAL

Full Significant Intercepts for Boussoura Central drill holes BS000065, BS000069 to BS000076, and BS000079 to BS000099 inclusive, reported at a cut-off grade of 40% Al₂O₃ with simplified geology (Bx = bauxite, BxL = bauxite with visible iron oxides). Intercepts in italics denote internal dilution included. Drill hole BS000083 returned assays below cut-off grade and is not reported.

Hole_ID	From (m)	To (m)	Interval (m)	Al ₂ O ₃ (%)	SiO ₂ (%)	Fe ₂ O ₃ (%)	LOI ¹⁰⁰⁰ (%)	Logged Geology
BS000065	0	2	2	47.3	1.4	24.3	22.2	Bx
BS000069	0	2	2	50.2	1.2	18.6	25.4	Bx
BS000070	0	6	6	41.4	1.3	31.1	21.7	Вх
BS000070	0	1	1	41.0	2.5	32.5	19.7	Bx
BS000070	2	6	4	42.6	0.7	29.6	22.6	Bx
BS000071	0	1	1	40.4	2.8	32.1	20.2	Bx/BxL
BS000072	0	5	5	44.4	0.9	27.2	22.9	Bx/BxL
BS000072	1	5	4	46.6	0.7	24.8	23.9	Вх
BS000073	0	5	5	41.3	2.8	30.4	21.9	Bx/BxL
BS000073	0	4	4	41.9	3.2	29.4	22.1	Bx/BxL
BS000073	7	10	3	40.0	4.0	30.6	21.1	BxL
BS000073	9	10	1	41.9	3.3	29.3	21.6	BxL
BS000074	1	4	3	47.7	3.1	22.2	22.6	Bx/BxL
BS000075	0	15	15	43.1	3.7	26.1	23.3	Bxl/L
BS000076	0	6	6	47.1	2.3	22.2	24.7	Bx
BS000079	0	5	5	44.5	5.8	23.5	22.8	Bx
BS000080	0	2	2	45.2	2.4	24.2	21.4	Bx
BS000080	6	7	1	42.3	1.3	29.3	22.4	BxL
BS000081	0	1	1	40.8	0.9	28.8	21.0	Bx
BS000082	0	4	4	44.3		28.4	22.2	
		2	2		0.9			Bx
BS000082	0			48.6	1.1	22.1	23.8	Bx
BS000082	3	4	1	45.4	0.6	26.7	23.1	Bx
BS000084	0	1	1	41.6	1.2	32.4	20.5	BxL
BS000085	0	1	1	51.4	1.5	17.0	26.2	Bx
BS000085	7	9	2	45.4	1.1	25.6	23.4	Bx
BS000086	0	3	3	50.1	4.4	17.1	25.4	Bx
BS000087	0	2	2	41.9	6.4	25.4	22.5	Bx
BS000087	5	14	9	41.4	6.0	26.4	22.5	Bx/BxL
BS000087	8	14	6	41.9	7.4	24.5	22.4	Bx/BxL
BS000088	0	2	2	49.9	3.4	18.6	25.2	Bx
BS000088	6	8	2	41.4	3.6	28.3	22.8	Bx
BS000089	0	3	3	47.6	2.7	22.5	23.6	Bx
BS000089	9	11	2	41.3	4.1	29.3	22.4	BxL
BS000090	0	7	7	43.8	4.1	25.6	22.9	Bx
BS000091	0	2	2	46.0	1.9	24.7	24.1	Bx
BS000092	0	5	43.6	2.7	27.1	23.1	43.6	BxL
BS000092	0	4	4	45.0	2.6	25.2	23.7	BxL
BS000093	0	2	2	44.0	3.2	26.1	21.9	BxL
BS000094	0	8	8	43.6	3.4	26.7	21.8	Bx/BxL
BS000094	0	3	3	48.8	3.3	19.9	23.0	Bx
BS000094	4	5	1	41.4	3.5	28.7	21.8	Bx
BS000094	6	8	2	43.0	3.1	27.5	22.4	BxL
BS000095	2	3	1	40.4	4.7	30.2	20.4	BxL
BS000096	0	4	4	50.3	3.1	19.6	21.9	Bx
BS000097	0	2	2	54.6	2.2	11.9	25.6	Вх
BS000097	7	8	1	43.0	0.8	28.9	22.8	BxL
BS000098	0	1	1	43.7	2.3	26.9	23.3	Bx
BS000099	0	5	5	42.9	4.7	25.8	22.8	Bx/BxL
BS000099	0	3	3	45.0	5.7	22.1	23.8	Вх
BS000099	4	5	1	41.1	3.0	29.2	21.8	BxL

JORC Code, 2012 Edition – Table 1 report template

Section 1 Sampling Techniques and Data

(Criteria in this section apply to all succeeding sections.)

Criteria	JORC Code explanation	Commentary
Sampling techniques	 Nature and quality of sampling (eg cut channels, random chips, or specific specialised industry standard measurement tools appropriate to the minerals under investigation, such as down hole gamma sondes, or handheld XRF instruments, etc). These examples should not be taken as limiting the broad meaning of sampling. Include reference to measures taken to ensure sample representivity and the appropriate calibration of any measurement tools or systems used. Aspects of the determination of mineralisation that are Material to the Public Report. In cases where 'industry standard' work has been done this would be relatively simple (eg 'reverse circulation drilling was used to obtain 1 m samples from which 3 kg was pulverised to produce a 30 g charge for fire assay'). In other cases more explanation may be required, such as where there is coarse gold that has inherent sampling problems. Unusual commodities or mineralisation types (eg submarine nodules) may warrant disclosure of detailed information. 	Sampling and geological logging is conducted in 1 metre intervals of auger samples drilled vertically, and targeting residual bauxite mineralisation associated with the tropical weathering of mafic intrusive sills that sit on top of pronounced incised plateaux. Representivity of the 1m sample used for both logging and geochemical sample is sought by homogenisation of the full 1m drilled interval by passing it through a riffle splitter to reduce the full metre sample to a nominal 3kg homogenised sample. Moist or sticky samples that are prone to choking the riffle splitter are homogenised using quartering, recompositing, and cone quartering to achieve the aforementioned 3kg target mass. Details regarding the sampling procedure for chemical analysis are addressed below. Determination of mineralisation is made initially on the basis of field observations based on expertise of field geological personnel. All primary logging is checked and revised as necessary by a principal level geologist with direct experience in residual bauxite mineralisation. The identification of mineralisation is also validated against geological models consistent with plateau style bauxite deposits formed by the lateritic weathering of predominantly mafic intrusives, that were developed and published by Dr V Mamedov (deceased 2022), a reputed and published bauxite expert who had over 40 years' experience working on the bauxites of Guinea. The identification of mineralisation is also cross referenced against historic drill logging conducted during 2006-2007. Subsequent revision of geological logging of mineralisation is conducted
Drilling	Drill type (eg core, reverse circulation, open-hole hammer, rotary air	with chemical analyses as they become available. Drilling reported herein is open hole auger that has been drilled with
techniques	blast, auger, Bangka, sonic, etc) and details (eg core diameter, triple or standard tube, depth of diamond tails, face-sampling bit or other type, whether core is oriented and if so, by what method, etc).	1.8m and 3.6m long 140mm diameter flights all with three wing tungsten carbide all-purpose bits. Two augers were deployed in the 2024 program, operated by Guinean bauxite specialist contractors and consultants Geoprospects Ltd SARLU (Geoprospects).

Criteria	JORC Code explanation	Commentary
Drill sample recovery	 Method of recording and assessing core and chip sample recoveries and results assessed. Measures taken to maximise sample recovery and ensure 	Drill cutting weights are systematically recorded as part of the geological logging to assess sample recovery. Cavities and low recoveries are recorded by the rig geologist to flag areas of potential low recovery.
	 representative nature of the samples. Whether a relationship exists between sample recovery and grade and whether sample bias may have occurred due to preferential loss/gain of fine/coarse material. 	Recovery is optimised by using expert drilling personnel with extensive experience in drilling bauxite. Cuttings are typically recovered in runs ranging between 1m and 20cm dependent on moisture content, with shorter runs used for moist samples to minimise contamination and/or sample loss.
		In instances where the water table is intersected and the sample presents as a wet slurry, the hole is abandoned and will be repeated later in the drill season.
		Auger flights are cleaned frequently with a wire brush to the satisfaction of the logging geologist to avoid contamination.
		No relationship between recovery and grade is evident from the analytical results received to date. Several pits are in process of being excavated to produce sample for metallurgical and physical testwork. The pits are sunk onto a previously drilled auger hole, and sampled every 25cm. A comparison of channel sample and corresponding auger assay data will be completed on receipt of the pit samples.
Logging	 Whether core and chip samples have been geologically and geotechnically logged to a level of detail to support appropriate Mineral Resource estimation, mining studies and metallurgical studies. 	All drill cuttings are logged for lithology, texture, colour, moisture, style of bauxite mineralisation where present, and physical characteristics. Each drill hole is logged in full to end of hole regardless of lithology. Due to the destructive nature of auger drilling, no geotechnical logging is conducted.
	 Whether logging is qualitative or quantitative in nature. Core (or costean, channel, etc) photography. The total length and percentage of the relevant intersections logged. 	Samples are not systematically photographed due to the destructive nature of auger drilling, coupled with the generally homogenous appearance of disaggregated sample piles.
		Reference samples are collected and stored in plastic chip trays at metre intervals.
		The geological information collected is considered to be quantitative in nature and is of comparable standard to information supporting Mineral Resources that have been estimated by Independent Consultants and published for peer bauxite projects within Guinea. The Company considers therefore that the geological information has been collected at sufficient levels of detail and quality to be used to inform the estimation of Mineral Resources.

Criteria	JORC Code explanation	Commentary
		A series of jackhammer excavated pits are in process of being completed at the time of this report, from which undisturbed samples are collected for physical and metallurgical tests to further inform mining studies.
Sub-sampling techniques and sample	 taken. If non-core, whether riffled, tube sampled, rotary split, etc and whether sampled wet or dry. 	Sample preparation is conducted at a sample preparation laboratory owned and operated by Guinean bauxite specialist consultancy Geoprospects.
preparation	 whether sampled wet or dry. For all sample types, the nature, quality and appropriateness of the sample preparation technique. Quality control procedures adopted for all sub-sampling stages to 	Samples are reduced to a nominal sample mass of 3kg using a riffle splitter when dry, or by cone quartering where sticky, wet, or otherwise unable to pass freely through the riffle splitter.
	 Quality control procedures adopted for all sub-sampling stages to maximise representivity of samples. Measures taken to ensure that the sampling is representative of the in situ material collected, including for instance results for field duplicate/second-half sampling. 	Sample preparation for analysis following initial reduction of sample mass to 3kg in the field includes:
		 Ambient air drying for 24 hours
	 Whether sample sizes are appropriate to the grain size of the material 	Jaw crush at CSS 5mm
	being sampled.	 Riffle split to produce a 300g aliquot
		 Oven dry at 105°C for 4 hours
		 Pulverise to 95% passing 75 microns
		 Split 50g for chemical analysis
		 250g retained for reference
		The sample preparation technique is comparable to preparation techniques offered by other geochemistry laboratories and is considered appropriate in terms of method and quality for the target mineralisation. Both preparation and analytical laboratories conduct routine sizing tests on assay pulps to ensure adequate pulverisation of the sample, with regrinding of the batch being completed on failure. At the time of this report, no sizing failures have been encountered following sizing checks at ALS Global Laboratory, Loughrea, Ireland.
		The sample mass has been validated using the nomogram method of sample size determination based on average grainsize as given in the Field Geologists' Manual Fifth Edition, Monograph 9, published by The Australasian Institute of Mining and Metallurgy, Carlton, Victoria 3053 Australia.

Criteria	JORC Code explanation	Commentary
Quality of assay data and	 The nature, quality and appropriateness of the assaying and laboratory procedures used and whether the technique is considered partial or total. 	All pulp samples are submitted to ALS Global laboratories at either Loughrea, Ireland, or Johannesburg, South Africa using ALS standard fused disc XRF analytical package for bauxite (ME_XRF13u).
laboratory tests	 For geophysical tools, spectrometers, handheld XRF instruments, etc, the parameters used in determining the analysis including instrument make and model, reading times, calibrations factors applied and their derivation, etc. 	Elements and oxides included in this analytical suite are: Al ₂ O ₃ , BaO, CaO, Cr ₂ O ₃ , Fe ₂ O ₃ , K ₂ O, MgO, MnO, Na ₂ O, P ₂ O ₅ , SiO ₂ , SO ₃ , SrO, TiO ₂ , V ₂ O ₅ , Zn, & ZrO ₂ .
	 Nature of quality control procedures adopted (eg standards, blanks, duplicates, external laboratory checks) and whether acceptable levels of accuracy (ie lack of bias) and precision have been established. 	ME_XRF13u also reports includes Loss on Ignition (LOI) measured by muffle furnace or Thermogravimetric Analyser (TGA) to determine the loss of mass due to volatiles that are driven off when the sample is heated from 105°C to 1,000°C after the removal of free moisture.
		Detection limits and other information regarding this method are available for review on the ALS Global website.
		All pulps are checked for sizing on receipt at a frequency of approximately 1 check per 20 samples.
		QAQC protocols include:
		Field duplicates inserted at approximately 5% by the logging geologist.
		Every 20th hole is also submitted as a full drill hole duplicate.
		Pulp duplicates, blanks, and certified reference materials (CRM) are also inserted at a frequency of approximately 5%.
		CRMs used by the Company for the current program are matched to expected alumina grade range of mineralisation expected, and are: PBS-74, PBS-75, and PBS-62 which are produced by ISO and NATA accredited laboratory Independent Mineral Standards (IMS).
		ALS Global conduct internal duplicates and standards as part of their QA/QC processes. ALS QAQC CRMs nominated for use with the ME_XRF13u method are: Geostats GBAP-3, GBAP-12, GBAP-16 and LGC Standards - NIST696.
		Assessment of precision and accuracy of analytical procedures for the first consignment of results given in this report has been completed and has concluded that all results reported are within the precision and accuracy statements provided by ALS Global for the analytical method (ME_XRF13u) used.

Criteria	JORC Code explanation	Commentary
Verification of sampling and	The verification of significant intersections by either independent or alternative company personnel.	Significant intersections are validated by alternative Company personnel from primary assay data.
assaying	 The use of twinned holes. Documentation of primary data, data entry procedures, data 	Drill logging is checked and validated by two principal level geologists.
	 Documentation of primary data, data entry procedures, data verification, data storage (physical and electronic) protocols. Discuss any adjustment to assay data. 	No twinned drill holes have been completed by the Company, however, jackhammered bulk sample pits are being completed during the current work program which are sunk on previously drilled auger holes, and are channel sampled to contribute to validation of primary assay data.
		Primary logging data is captured on paper logging sheets which are transcribed into Microsoft Excel spreadsheets on a daily basis. Primary log sheets are scanned and stored as PDF documents. Spreadsheet transcription is validated by a senior geologist.
		All working primary digital data is stored in the Company's Microsoft SharePoint site, and on a locally mirrored Network Attached Storage (NAS) appliance which is further used to store large read-only datasets such as satellite imagery and high resolution scanned maps.
		Validated logs, drill collars, and assays are stored in a drillhole database (MaxGeo Datashed5) managed by a third party database consultant in Perth, Australia.
		Assay data is imported directly into Datashed5 using established procedural importation with no manual transcription.
		Geological logging may be adjusted from time to time following review by a senior geologist, and/or on receipt of assay data.
		No other data adjustments are made.
Location of data points	 Accuracy and quality of surveys used to locate drill holes (collar and down-hole surveys), trenches, mine workings and other locations used in Mineral Resource estimation. 	The spatial reference system used for all point locations uses the WGS84 ellipsoid, and the Universal Transverse Mercator Zone 29N projection.
	Specification of the grid system used.Quality and adequacy of topographic control.	Elevations are referenced to the WGS84 ellipsoidal elevation datum.
	Quality and adequacy of topographic control.	Drill collar locations are pegged using Garmin GPSMAP GPS units with a nominal accuracy of ±15m.
		Final survey of drill collars will be completed using SOKKIA Total Station survey stations with a nominal accuracy of ±3mm
		Topographic control has been established using a 1 Arc Second DEM produced from the NASA Shuttle Radar Topography Mission (SRTM).

Criteria	JORC Code explanation	Commentary
		The Company is in process of acquiring a 2.5m nominal resolution DEM (AW3D Standard DEM) produced from PRISM data acquired by the Advanced Land Observing Satellite (ALOS) from the Japan Aerospace Exploration Agency (JAXA). The AW3D DEM will supersede the SRTM DEM currently being used by the Company. The nominal accuracy of the AW3D DEM is ±5.0m for X, Y, and Z axes.
Data spacing and distribution	 Data spacing for reporting of Exploration Results. Whether the data spacing and distribution is sufficient to establish the degree of geological and grade continuity appropriate for the Mineral Resource and Ore Reserve estimation procedure(s) and classifications applied. Whether sample compositing has been applied. 	Dominant drill spacing used in this drill campaign is 300 x 300m closing from 600 x 600m on a square grid. Peer bauxite projects in Guinea have achieved levels of geological and grade continuity to support the estimation of Mineral Resources at both spacings, which informed the selection of the spacings used. It is therefore considered likely that the data spacing will be sufficient to inform the estimation of Mineral Resources.
Orientation of data in relation to geological structure	 Whether the orientation of sampling achieves unbiased sampling of possible structures and the extent to which this is known, considering the deposit type. If the relationship between the drilling orientation and the orientation of key mineralised structures is considered to have introduced a sampling bias, this should be assessed and reported if material. 	Drill planning and collar locations are consistent with peer plateau style bauxite projects in Guinea. Drill holes are vertical, and generally orthogonal to the tabular and sub-horizontal bauxite bodies which are strongly correlated with plateau morphology, occupying plateau tops.
Sample security	The measures taken to ensure sample security.	Samples are taken at the end of each drill shift to a secure compound in a nearby village under the management of Geoprospects.
		Samples are periodically transported under the supervision of a Geoprospects geologist to the preparation laboratory in Sangaredi. The Company conducts periodic spot checks to ensure sample security of primary samples.
		Geoprospects retain a 250g pulp reference sample at their secure facility in Sangaredi, Guinea.
		On completion of sample preparation, pulp samples are delivered in sealed paper envelopes to the Company, who transport the samples either by hand by commercial airline, or airfreight to ALS Global who maintain secure storage for pulps at both Loughrea, Ireland and Johannesburg, South Africa laboratories.
Audits or reviews	The results of any audits or reviews of sampling techniques and data.	The Company has not undertaken any audits or reviews of historic sampling or data to date.

Criteria	JORC Code explanation	Commentary
		A site visit, and review of sampling techniques and data will be conducted by an Independent Consultant as a part of the Mineral Resource estimation that will be completed in H1 2025 using data from the current drill program.

Section 2 Reporting of Exploration Results

(Criteria listed in the preceding section also apply to this section.)

Criteria	JORC Code explanation	Commentary
Mineral tenement and land tenure	 Type, reference name/number, location and ownership including agreements or material issues with third parties such as joint ventures, partnerships, overriding royalties, native title interests, 	The Niagara Bauxite Project consists of a single permit awarded to "Societe KC Bauxite SARLU" (KCB) by the Minister of Mines and Energy under Arrete A/2020/1696/MMG/SGG dated 2 June 2020.
status	 historical sites, wilderness or national park and environmental settings. The security of the tenure held at the time of reporting along with any known impediments to obtaining a licence to operate in the area. 	Arrow has entered into an agreement with G Conakry Bauxite Pty Ltd (GCB), the sole shareholder of KCB, and Kabunga Holdings Pty Ltd, the Vendor, to be granted a 12 month option to acquire 100% of the shares in GCB (Agreement).
		An option fee is payable to the Vendor following the Permit being renewed.
		Terms of the Agreement were reported to the ASX on 1 August 2024.
		The permit is governed by terms set out in Guinea's Code Minier (Mining Code), Law L/2011/006/CNT dated 09 September 2011, and subsequently modified by Law L/2013/053/CNT dated 08 April 2013. The area of the permit is 499.61km ² with the first 3 year term anniversary date of 01 June 2023.
		The renewal process for the first 2-year term is in progress, pursuant to Article 24 of the Mining Code. As part of the renewal application, per the Guinean Mining Code, the exploration permit area will be reduced in surface area by 50%.
		The Vendor has provided Arrow with certification of good standing of the permit from the Guinean Ministry of Mines and Geology.
Exploration done by other parties	Acknowledgment and appraisal of exploration by other parties.	The permit has been subject to at least two documented phases of exploration work involving drilling during the early 1970's and more recently during 2007. The most accessible historic summaries of activity for the permit are:

Criteria	JORC Code explanation	Commentary
		 The 2010 two volume publication "Geologie de la Republique de Guinée" - a comprehensive and sizeable package of work appraising the mineral prospectivity of the whole country, with specific emphasis on bauxite; and
		 "Carte du Potentiel Bauxitique de la République de Guinée." - first published in 2005 and updated in 2017, a map presenting a summary of the status of all bauxite assets known to the author at the date of publication.
		The northernmost two plateaux within the Niagara tenement (N'Dire and Langué) were subject to initial exploration work by Swiss company SOMIGA who completed 253 drillholes on the two plateaux. Historic foreign estimates of mineral resources are presented in cited publications; however these are excluded from this report since the primary supporting data has not been located to date by the Company. Bauxite thickness is quoted as averaging 5.9m for the two plateaux, and grades presented are within the range of $40-50\%$ Al ₂ O ₃ . No information is provided in historic documentation regarding analytical methods used for chemical assay therefore grades should be considered as approximations only.
		Six plateaux (collectively Pandiya and Boussoura) were historically identified in the Dabola region of the permit by Soviet geologists (OSRG-Zarubezhgeologia) who conducted reconnaissance level works during 1972 and 1973. Rock chip sampling and reconnaissance level drilling were conducted with 10 holes completed, which are reported to have verified the presence of bauxite with grade ranges consistent with known Guinea bauxite deposits. Average thicknesses of bauxite in the Pandiya and Boussoura plateaux are quoted to be between 4 and 5 metres, which is consistent with genetic models for in-situ lateritic bauxite deposit types. Historic foreign Mineral Resources were estimated on the basis of these works, however these are not reported herein due to lack of access to primary information regarding chemical analysis.
		A total of 263 drill holes were completed across Tougué and Dabola during these phases of work.
		A subsequent phase of exploration was conducted in 2007 by Vale Guinea, who completed a further 180 drillholes over the plateaux validating the 1970's work. The Company has obtained digital copies of the Vale data in digital tabular form, however this is not reported since no

Criteria	JORC Code explanation	Commentary
		primary information has been located to date to validate the provenance of the data.
		Historic reports, drillhole results, statistical summaries of drilling results and historic and/or foreign estimates have been used to target the current drill program.
		All historic data referenced herein appears to have been conducted in accordance with professional standards of the period of work. Since the historic works cannot be validated using the guidelines and criteria set out in the JORC Code, the Company has determined that they should be considered only as a conceptual assessment of mineral potential.
Geology	Deposit type, geological setting and style of mineralisation.	Regional geological mapping has identified that the plateaux within the permit are mafic and ultramafic rocks of the Mesozoic Trapp formation, which is the principal parent rock package for the formation of bauxite within Guinea. The mafic lithologies, present as dolerite, gabbro and diabase sills are more favourable for bauxite formation than the ultramafics due to their elevated content of alumina. The bauxite mineralisation sits atop incised plateaux, associated with intense tropical weathering of the aforementioned lithologies.
		The bauxite encountered in drilling to date occurs in two modes of occurrence:
		 Gelomorphic, oolitic, and pisolitic bauxite that is very pale in colour, and depleted in iron oxides, and; Bauxite that contains some visible iron oxide and is termed Lateritic or Ferruginous bauxite.
		Both types of bauxite noted above, and identified during the current Arrow drill campaign align with established genetic models of bauxite mineralisation within Guinea.
Drill hole Information	 A summary of all information material to the understanding of the exploration results including a tabulation of the following information for all Material drill holes: easting and northing of the drill hole collar elevation or RL (Reduced Level – elevation above sea level in metres) of the drill hole collar dip and azimuth of the hole down hole length and interception depth 	The identification of bauxite mineralisation within the current Arrow drilling program validates the presence of bauxite in locations, and in thicknesses documented in publications that are available in the public domain, primarily in the works of Dr V Mamedov. The identification of potentially economic bauxite mineralisation from the current drill program is subject to assay data. Any drill intersections based on lithology only are not intended to be interpreted as any estimation regarding bauxite quality.

Criteria	JORC Code explanation	Commentary
	 hole length. If the exclusion of this information is justified on the basis that the information is not Material and this exclusion does not detract from the understanding of the report, the Competent Person should clearly explain why this is the case. 	The Company reports thicknesses of bauxite bodies intersected in drilling based on geological logging due to the ongoing receipt of assay data. The potential economic significance of the bauxitic units noted in this report is dependent on the determination of grade of alumina and deleterious elements / oxides.
		Full and complete information regarding bauxite thickness by geological logging, and grade reported as significant intercepts are reported along with full drill collar metadata and logged geology in this, or previous reports.
		Drillholes whose chemical analyses fail to meet the nominal cut-off grade as specified below are excluded since they are considered to likely be sub-economic. However, these drillholes may be reported in due course subject to receipt of metallurgical testwork that may demonstrate that lower grade bauxite below the 40% total Al ₂ O ₃ grade may be economic.
Data aggregation methods	 In reporting Exploration Results, weighting averaging techniques, maximum and/or minimum grade truncations (eg cutting of high grades) and cut-off grades are usually Material and should be stated. Where aggregate intercepts incorporate short lengths of high grade results and longer lengths of low grade results, the procedure used for such aggregation should be stated and some typical examples of such aggregations should be shown in detail. The assumptions used for any reporting of metal equivalent values 	Significant intercepts are reported using a 40% Al ₂ O ₃ cut-off grade; no top-cut is used. Significant intercepts are calculated using sample length weighted averaging, despite all sample intervals being at consistent 1m intervals. No metal equivalent values are reported.
Relationship between mineralisation widths and intercept lengths	 should be clearly stated. These relationships are particularly important in the reporting of Exploration Results. If the geometry of the mineralisation with respect to the drill hole angle is known, its nature should be reported. If it is not known and only the down hole lengths are reported, there should be a clear statement to this effect (eg 'down hole length, true width not known'). 	The bauxite mineralisation at the Niagara project is tabular, and generally orthogonal to vertical drill hole angle used. The style of mineralisation is consistent with many other plateau associated deposits in Guinea, where a strong relationship between lithology, grade, and topographic morphology is noted. The practice of drilling these deposits with vertical auger holes is considered appropriate for the style of mineralisation. From the limited assay data available to date, the relationship between mineralisation width and intercept lengths is considered to be well understood and appraised both by geological logging, and associated chemical analysis where present.
Diagrams	 Appropriate maps and sections (with scales) and tabulations of intercepts should be included for any significant discovery being reported These should include, but not be limited to a plan view of 	An illustration showing drill collars completed correct as of 28 November 2024 is included in the body of this report, also showing bauxite

Criteria	JORC Code explanation	Commentary
	drill hole collar locations and appropriate sectional views.	thickness derived from geological logging, and assay results reported as significant intercepts as available.
		Tabulated significant intercepts are provided in the body of this report.
Balanced reporting	 Where comprehensive reporting of all Exploration Results is not practicable, representative reporting of both low and high grades and/or widths should be practiced to avoid misleading reporting of Exploration Results. 	The Company has reported results from all drillholes covered by the analytical results received to date against a nominal cut-off grade of 40% total Al ₂ O ₃ . Intercepts below the nominal cut-off grade are considered sub-economic until proven otherwise by metallurgical testwork.
Other substantive exploration data	Other exploration data, if meaningful and material, should be reported including (but not limited to): geological observations; geophysical survey results; geochemical survey results; bulk samples – size and method of treatment; metallurgical test results; bulk density, groundwater, geotechnical and rock characteristics; potential deleterious or contaminating substances.	All substantive information available to the Company at the date of this report is disclosed in the body text of this report. The substantive information contained herein has confirmed by chemical analysis the presence of bauxites in locations, and at thicknesses and grades consistent with information that is available in previously published technical reports, and associated maps.
Further work	 The nature and scale of planned further work (eg tests for lateral extensions or depth extensions or large-scale step-out drilling). Diagrams clearly highlighting the areas of possible extensions, including the main geological interpretations and future drilling areas, provided this information is not commercially sensitive. 	A series of jackhammered pits are being excavated to provide undisturbed bulk samples to be used for metallurgical and physical testwork to inform the estimation of Mineral Resources in accordance with the JORC Code in the first half of 2025. The Company also intends to complete a Scoping level mining and economic study for Niagara in the first half of 2025.