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Date and Currency

This document is dated 13 September 2023 ("Preparation Date") and is based on the Company's prospectus dated 14 May 2021 ("Prospectus") for an offer to acquire fully paid ordinary shares ("Shares") in the capital of the Company ("Offer"), updated for the results of the Offer, and Barton ASX announcements as from the date of the Prospectus. A copy of the Prospectus is available for download at www.bartongold.com.au or www.asx.com.au. The delivery of this document at any time after the Preparation Date does not imply the information contained in it is correct at any time after the Preparation Date. Delivery of this document does not imply, and is not to be relied upon as a representation or warranty that: (i) there has been no change since the Preparation Date in the business, operations, financial condition, prospects, creditworthiness, status or affairs of the Company's related bodies corporate or affiliates; or (ii) the information contained in this document remains correct and not misleading at any time after the Preparation Date. The information in this document should be considered dynamic and may change over time. Subject to its obligations at law, Barton has no responsibility or obligation to update this document or inform the recipient of any matter arising or coming to their notice after the Preparation Date which may affect any matter referred to in the document. All dollar values expressed in this document are Australian dollars (\$, A\$, or AUD).



South Australia's Gold Co

Strategic 'first mover' advantage re-opening a proven gold district



Central South Australia: an overlooked gold jurisdiction

- South Australia: 25% of Australian gold / 2.5% of production (1)
- 130 year high-grade gold production history (2)
- Under-explored with Multi-Moz discovery potential



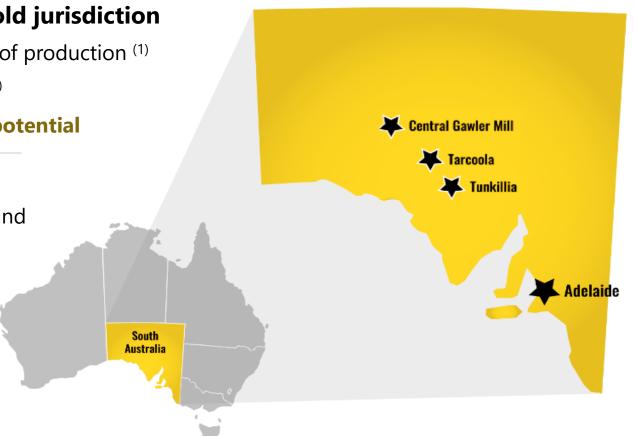
Regionally strategic leadership position

- ~5,000km² tenements over best historical ground
- 100% ownership of region's only gold mill
- 1.3 Million ounces Au and growing (3)



Excellent corporate platform

- Clear strategy and strong leadership
- Monetizing assets, with ~A\$14m cash and gold in concentrates (4)



¹ Government of South Australia – Dept for Energy & Mining, Geoscience Australia

² Refer to Prospectus

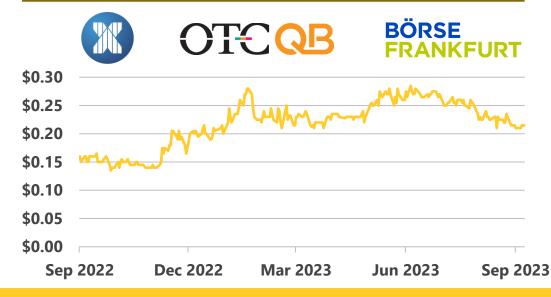
³ Refer to Annexures and ASX announcements dated 26 April and 1 September 2023

⁴ Refer to ASX announcements dated 25 July and 21 August 2023



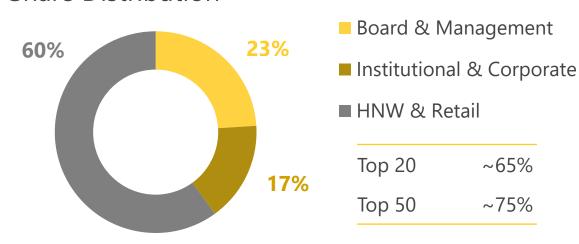
(\$AUD)

Shares on issue ⁽¹⁾ Market Cap (\$0.215 / share) ⁽²⁾	195.3 million \$41.2 million
Cash (3)	\$10.5 million
Enterprise Value (4)	\$30.7 million
Options on issue (1)	18.6 million
Gold in concentrates (5)	\$4.2 million



Accessible, aligned, and institutionally supported

Share Distribution ⁶











BALLINGAL INVESTMENT ADVISORS



Experienced Leadership

Strong SA and gold pedigree

Board of Directors



Ken Williams Non-Executive Chairman

- ~30 years in mining, aviation & financial services
- Former CFO Normandy Mining (Newmont Australia)



Christian Paech Non-Executive Director

- ~30 years in private and public legal practice
- Former Santos Ltd General Counsel and CoSec



Graham Arvidson Non-Executive Director

- ~20 years' experience in mechanical engineering
- Development and operations specialist



Shannon Coates Company Secretary

- ~25 years in legal and Company Secretarial roles
- Qualified lawyer and Chartered Secretary

Senior Management



Alexander Scanlon Managing Director & CEO

- ~20 years in principal investments and resources
- Founder of Barton Gold, former MD PARQ Capital



David Wilson General Manager, Projects

- ~40 years in mining and project management
- Former Normandy Chief Surveyor & Technical Super



Marc Twining General Manager, Exploration

- ~25 years in resources exploration and development
- Former Normandy / Newmont exploration geologist



Ian Garsed **Principal Geologist**

- ~30 years in resources discovery and definition
- Extensive Australian gold and IOCG experience



The Big Picture



Large-scale ambition

- Build SA's largest independent gold producer (150kozpa)
- Open pit focus: lower cost / risk



Tarcoola: Stage 1 opportunity

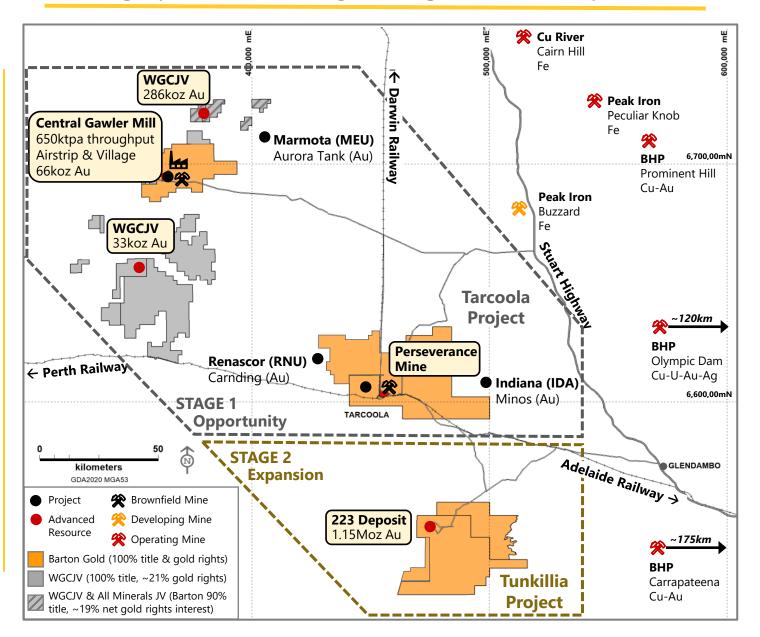
- Fully permitted MLs and mill, proven logistics and metallurgy (1)
- Free cash flow → Stage 2 Expansion



Tunkillia: Stage 2 expansion

- Bulk open pit operations and new mill \rightarrow efficiencies of scale
- Tarcoola high-grade → Tunkillia
- Regional toll milling opportunity around Central Gawler Mill

Leverage platform to long-term gold leadership





Barton Gold is applying new technologies and leveraging its asset platform to accelerate regional development, reduce exploration and discovery costs, and minimise dilution

Significant ongoing success and value created since June **2021 IPO** with material growth and asset monetisation:



new gold zones (~2.5km new strike) (1)



\$975k grants from SA Government (2)



\$5.2m cash generated



Building momentum and on track to generate nearly \$10 million in additional non-dilutive cash

- 1 Refer to Prospectus and ASX announcements dated 27 Oct and 3 / 8 / 15 Nov 2021, 5 Sep 2022 and 19 Apr 2023
- 2 Refer to ASX announcements dated 4 Aug and 7 Dec 2021, and 15 Jun 2022
- 3 Refer to ASX announcements dated 28 / 30 Jun, 26 Sep, 25 Oct and 11 Nov 2022, 28 Mar 2023 & FY 2022 / 2023 Appendix 5Bs
- 4 Based on current concentrate stocks on hand and current AUD gold prices; refer to ASX announcement dated 21 August 2023
- 5 Timeline: Refer to ASX announcements dated 20 Dec 2022 and 28 Mar, 26 Apr, 1 / 19 / 26 June, 10 / 19 Jul, and 14 / 21 Aug

Laying solid foundations for long-term value



Central Gawler Mill cleanout Q

\$490,000 gold sale

223 Deposit → 1.15Moz Au (

\$3.5m Insto Placement

Gold concentrates → \$3.4m

\$1.2m Share Purchase Plan

Seismic targeting program (

Gold concentrates \rightarrow \$4.1m

Seismic & A.I. programs, Resource growth drilling, &

regional discovery work



Tarcoola High-Grade History

Potential high-grade 'Stage 1' feed and future 'Stage 2' blend



ML6455: the home of SA gold

- Hosted SA's 1893 gold rush (~77koz Au @ 37.5 g/t Au from 1900 - 1955) (1)
- Perseverance Mine produced ~3.8 g/t Au to Barton's Mill during 2018 (1)



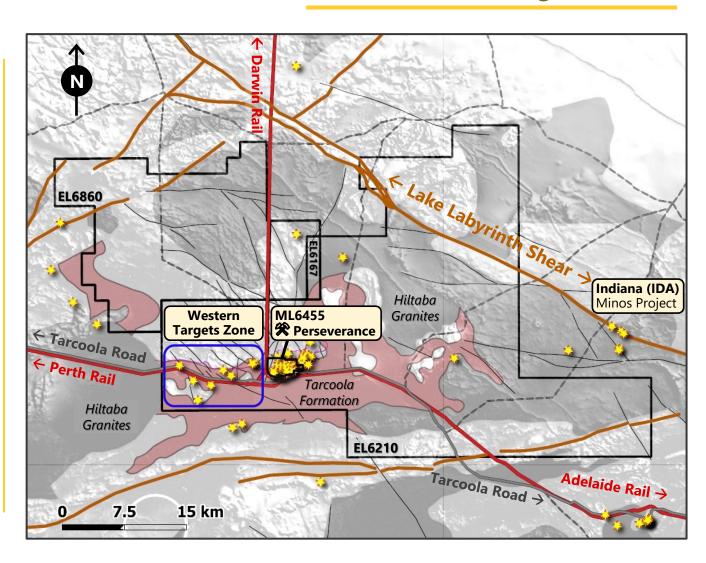
Perseverance open pit mine

- Shallow open pit on fully permitted ML
- Potential repeats adjacent to pit
- Potential Stage 1 production opportunity



EL6210: large scale target systems

- ~15km long 'western targets' corridor (1)
- ~25km untouched Lake Labyrinth Shear



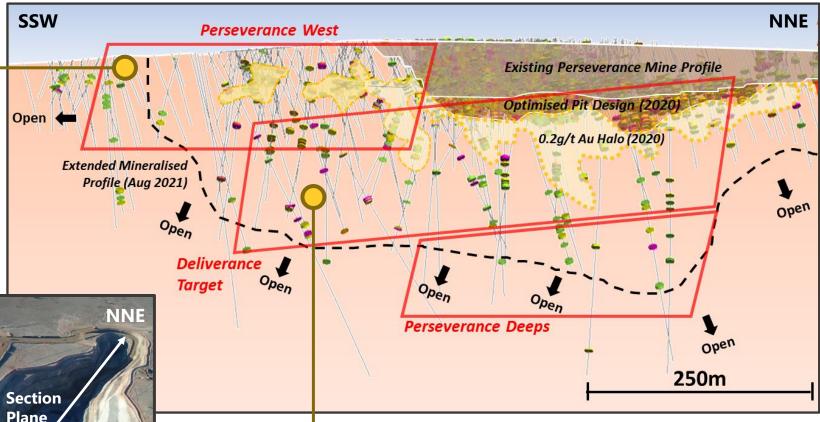


Tarcoola Perseverance Mine

Majority of intersections not yet modeled in Mineral Resources

Perseverance West (1)

- 4m @ 6.85 g/t Au from 28m
- **7m @ 9.72 g/t Au** from 42m
- 5m @ 20.6 g/t Au from 59m
- **6m @ 8.76 g/t Au** from 96m
- 4m @ 11.4 g/t Au from 111m
- 5m @ 48.9 g/t Au from 115m



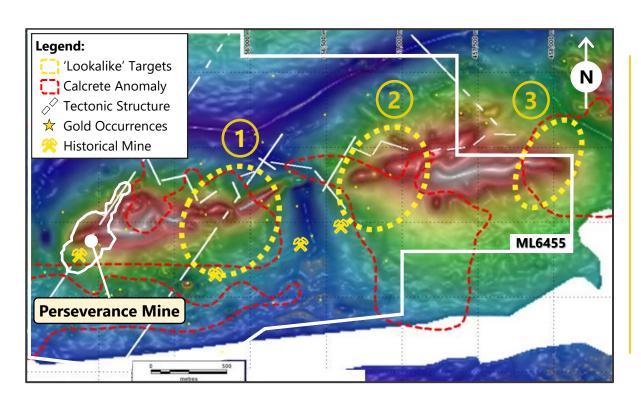
Deliverance Target (1)

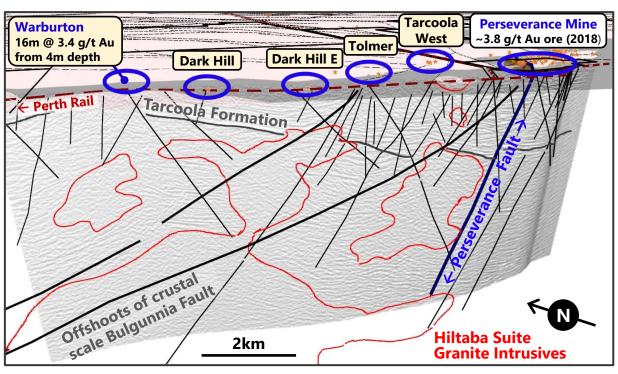
- 2m @ 56.7 g/t Au from 92m 2m @ 15.1 g/t Au from 158m
- 4m @ 11.4 g/t Au from 107m 6m @ 43.6 g/t Au from 197m
- 4m @ 14.8 g/t Au from 138m 3m @ 33.7 g/t Au from 220m



Tarcoola Highly Prospective

Mapping out an exciting system of potential 'repeats' targets





- Priority targets identified across ML6455 and EL6210 for potential repeats of Perseverance Mine mineralisation (1)
- ~15km long corridor of major crustal scale structures identified during 2020 seismic analysis (1)
- Seismic survey recently completed to help confirm most prospective targets for 2023 / 2024 discovery drilling (2)
- Attractive bookends: Warburton in the west (16m @ 3.4 g/t Au from 4m), and Perseverance Mine in the east (3)



Tunkillia Growing Rapidly

Systematically building large-scale, bulk open-pittable mineralisation



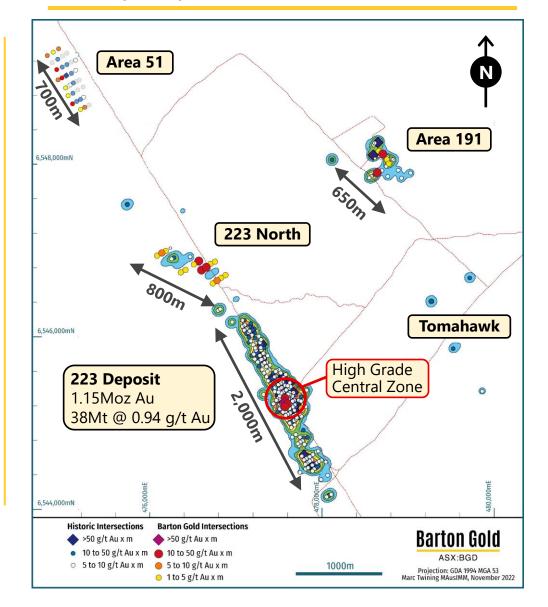
+1Moz gold platform

- Gold endowment broader than previously recognised
- Shallow historical drilling during low gold prices: 80% completed between 1996 2005 (gold <US\$400/oz) (1)
- 3 new gold zones since Nov 2021 (223N, 191 & 51) (2)
- Barton has grown the 223 Deposit twice since 2020



Significant growth potential

- 223 Deposit remains open to depth and strike extensions
- Areas 223N, 191 and 51 not included in JORC Resources
- Recent 189koz upgrade at all-in cost of ~A\$12 / oz (3)
- Multiple growth targets and ~20km of untouched shear



¹ Company analysis

² Refer to Prospectus and ASX announcements dated 3 / 8 / 15 Nov 2021, 5 Sep 2022 and 19 Apr 2023

³ Refer to ASX announcement dated 26 Apr 2023



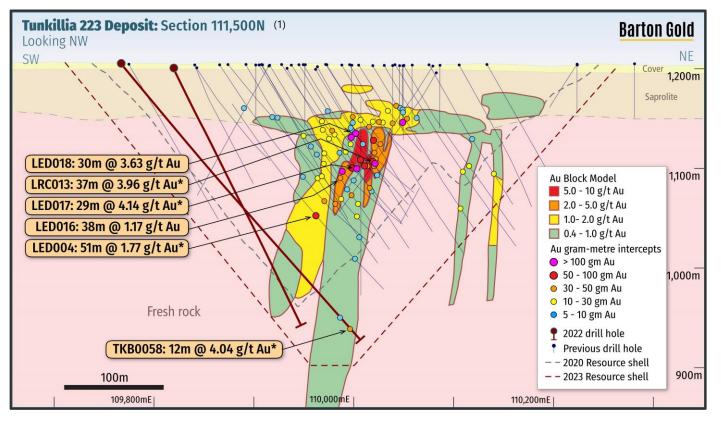
Tunkillia 223 Deposit

Conservative modeling with production mentality → goal is bulk efficiency & strong reconciliations

~200m ~400m

Oblique View of 223 Deposit Wireframe Model (Looking NW)⁽¹⁾

- > ~80% of MRE tonnes & ounces within 200m of surface (1)
- > ~300m long high-grade core with 80m+ width (1)
- ~225koz Au in shallow (~40m deep) supergene blanket (1)





Tunkillia District Scale Potential

20km+ of untested strike on a major shear system



District scale geology

- 'Triple point' of major geological formations (1)
- Kilometres-wide Kalgoorlie style shear zone (2)
- Potential for areas of significant fluid flow



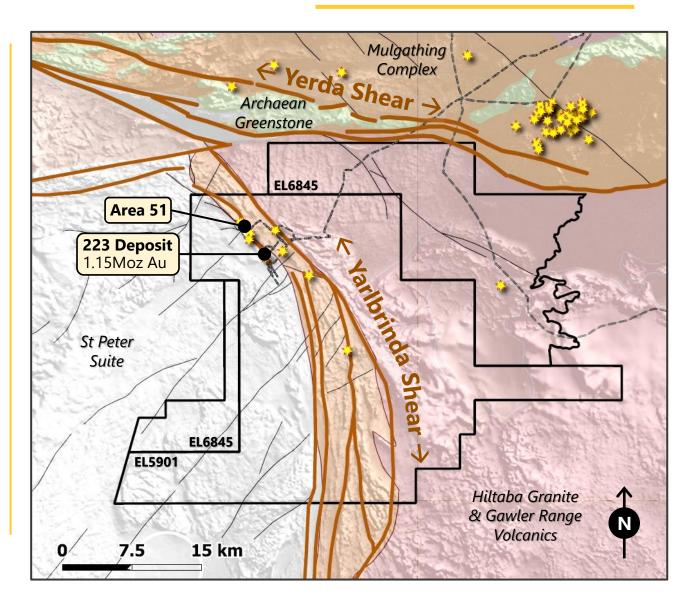
Majority untested

- Current focus area only ~10% of shear
- New gold zones all within ~3km cluster
- More than 20km untested along strike



Strong exploration pipeline

- Area 51 was just the first 'step out' target
- Actively pursuing major targets along strike





Tunkillia	H1 CY23	H2 CY23	H1 CY24
Resource drilling	 	•	•
Regional exploration drilling	I		
Tarcoola	i		
Structural interpretation	1 		
Seismic and targeting	i	•	
Resource drilling	 	$ \bullet \longrightarrow $	$\qquad \qquad \bullet \qquad \qquad \\$
Regional exploration drilling	I I		
Corporate	I		
Institutional Placement & SPP			
Mineral Resources update	√		
Gold sales (1)	\checkmark		•
Studies	 	-	





Summary Platform & performance → Value



Strategic platform with valuable existing infrastructure



Growing quickly under strong and aligned leadership



Well capitalized with clear development pathway



Multiple catalysts and frequent news

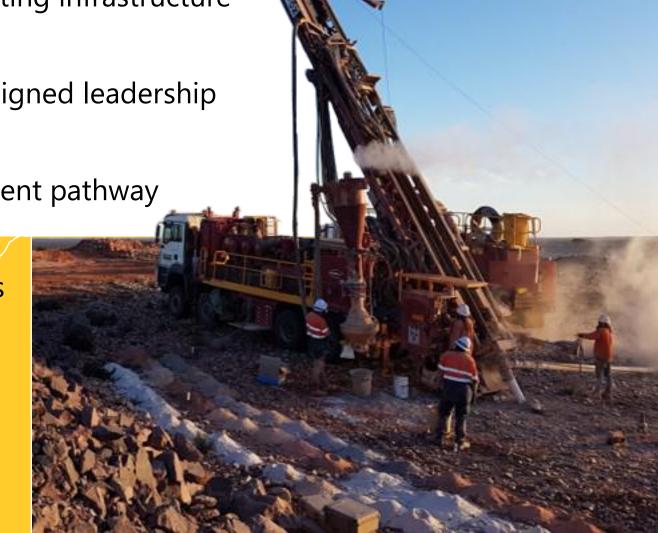


Accessible in AUD, USD and EUR on Australian, US and German markets



OTECE







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JORC (2012) Mineral Resources⁽¹⁾

Project	Zone	Indicated		Inferred			TOTAL			
		MT	g/t Au	koz Au	MT	g/t Au	koz Au	MT	g/t Au	koz Au
Tunkilla*	Oxide Zone	0.3	1.19	11	0.3	1.00	8	0.5	1.10	19
	Transitional Zone	3.70	1.05	124	2.91	0.87	82	6.61	0.97	206
(100%)	FreshZone	18.0	0.92	535	12.8	0.96	394	30.9	0.94	929
	Sub-Total	22.0	0.95	670	16.0	0.94	484	38.0	0.94	1,154
Tarcoola*	Perseverance Pit	0.07	1.7	3.8	0.07	1.1	2.4	0.14	1.4	6.2
(100%)	Low Grade Stockpile - Oxide		-		0.17	1.2	6.9	0.17	1.2	6.9
	Low Grade Stockpile - Fresh			**	0.06	1.4	2.7	0.06	1.4	2.7
	Sub-Total	0.07	1.7	3.8	0.30	1.2	12.0	0.37	1.3	15.8
Challenger*	Above 215 RL Fault	9.55		570.0	0.32	4.1	42.6	0.32	4.1	42.6
(100%)	Challenger Deeps (below 90m RL)				0.21	3.5	23.0	0.21	3.5	23.0
	Sub-Total		-	-	0.53	3.9	65.6	0.53	3.9	65.6
WGCJV*^	Golf Bore	0.6	1.0	18	3.2	1.0	100	3.8	1.0	119
(-20-22%)	Campfire Bore	**		**	2.8	1.2	109	2.8	1.2	109
	Greenewood	0.1	1.4	7	0.8	1.6	39	0.9	1.6	46
	Monsoon	1944			0.6	0.8	17	0.6	0.8	17
	Typhoon				0.3	1.9	16	0.3	1.9	16
	Mainwood	Ore		**	0.4	1.1	12	0.4	1.1	12
	Sub-Total	0.7	1.1	25	7.99	1.1	294	8.7	1.1	319
TOTAL ATTRIBUTABL	E	22.2	1.0	679	18.4	1.0	618	40.6	1.0	1,297

Table shows complete Mineral Resources Estimate (MRE) for each Project on a 100% basis, with Barton's ownership interest indicated below each Project's name

Total Attributable endowment of 1,297koz gold reflects Barton's aggregate pro-rata ownership of each respective Project's Mineral Resources

- * Additional Notes: Figures subject to rounding; tonnages are dry-metric tonnes; all Mineral Resources classified as 'inferred' are approximate; cut-off grades applied are 0.4 g/t Au (Tunkillia), 0.4 g/t Au (Tarcoola), 2.0 g/t Au (Challenger), 0.5 g/t Au (WGCJV).
- ^ **WGCJV:** Pursuant to the current terms of the WGCJV and the All Minerals JV, the Company has a present gold rights interest of 21.16% in the Monsoon and Typhoon deposits, and 19.04% in the Golf Bore, Campfire Bore, Greenewood and Mainwood deposits. Accordingly, the Company's approximate attributable Mineral Resources inventory from the WGCJV is 61,400 ounces Au.

Please note that, pursuant to the Company's ASX announcement dated 1 September 2023, Barton has given notice of its withdrawal from its regional minority joint venture interests and accordingly, when this withdrawal process is complete, Barton's total JORC Mineral Resource endowment will reduce by 61,400 ounces Au.

The information relating to Exploration Results and Mineral Resources in this presentation is extracted from the Company's Prospectus dated 14 May 2021 (Prospectus) and Barton ASX announcements as cross-referenced in the body of this presentation. A copy of the Prospectus is available for download at www.bartongold.com.au or www.asx.com.au. Following publication of the Prospectus, the Company published details of updated Mineral Resource Estimates (including in respect of the Company's attributable ownership where a project is not wholly owned) on 14 October 2021 (for the Western Gawler Craton Joint Venture Project) and 26 April 2023 (for the Tunkillia Project). The Company confirms that the form and context in which the applicable Competent Persons' findings are presented have not been materially modified from the relevant market announcement.

Competent Persons (Tarcoola)

The information in this presentation that relates to the estimate of Mineral Resources for the Tarcoola Gold Project is based upon, and fairly represents, information and supporting documentation compiled by Dr Andrew Fowler MausIMM CP (Geo). Dr Fowler is an employee of Mining Plus Pty Ltd and has acted as an independent consultant on Barton Gold's Tarcoola Gold Project, South Australia. Dr Fowler is a Member of the Australian Institute of Mining and Metallurgy (AusIMM) and has sufficient experience with the style of mineralisation, the deposit type 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" (The JORC Code).

The information in this presentation that relates to Exploration Results for the Tarcoola Gold Project prior to 15 Nov 2021 (including drilling, sampling, geophysical surveys and geological interpretation) is based upon, and fairly represents, information and supporting documentation compiled by Mr Colin Skidmore BSc Hons (Geology) MAppSc. Mr Skidmore is an employee of Mining Plus Pty Ltd a1nd has acted as an independent consultant on Barton Gold's Tarcoola Gold Project, South Australia. Mr Skidmore is a Member of the Australian Institute of Geoscientists (AIG Member 05415)) and has sufficient experience with the style of mineralisation, the deposit type 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" (The JORC Code).

The information in this announcement that relates to new Exploration Results for the Tarcoola Gold Project after 15 Nov 2021 (including drilling, sampling, geophysical surveys and geological interpretation) is based upon, and fairly represents, information and supporting documentation compiled by Mr Marc Twining BSc Hons (Geology). Mr Twining is a full-time employee of Barton Gold Holdings Ltd, and is a Member of the Australasian Institute of Mining & Metallurgy (AusIMM Member 112811) and has sufficient experience with the style of mineralisation, the deposit types 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" (The JORC Code).

Competent Person (Tunkillia)

The information in this presentation that relates to the estimate of Mineral Resources for the Tunkillia Gold Project (including drilling, sampling, geophysical surveys and geological interpretation) is based upon, and fairly represents, information and supporting documentation compiled by Mr Ian Taylor BSc (Hons). Mr Taylor is an employee of Mining Associates Pty Ltd and has acted as an independent consultant on Barton Gold's Tunkillia Gold Project, South Australia. Mr Taylor is a Fellow and certified Professional of the Australian Institute of Mining and Metallurgy (110090) and has sufficient experience with the style of mineralisation, the deposit type 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" (The JORC Code).

The information in this presentation that relates to Exploration Results for the Tunkillia Gold Project prior to 15 Nov 2021 (including drilling, sampling, geophysical surveys and geological interpretation) is based upon, and fairly represents, information and supporting documentation compiled by Mr Colin Skidmore BSc Hons (Geology) MAppSc. Mr Skidmore is an employee of Mining Plus Pty Ltd and has acted as an independent consultant on Barton Gold's Tunkillia Gold Project, South Australia. Mr Skidmore is a Member of the Australian Institute of Geoscientists (AIG Member 05415)) and has sufficient experience with the style of mineralisation, the deposit type 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" (The JORC Code).

The information in this announcement that relates to new Exploration Results for the Tunkillia Gold Project after 15 Nov 2021 (including drilling, sampling, geophysical surveys and geological interpretation) is based upon, and fairly represents, information and supporting documentation compiled by Mr Marc Twining BSc Hons (Geology). Mr Twining is a full-time employee of Barton Gold Holdings Ltd, and is a Member of the Australasian Institute of Mining & Metallurgy (AusIMM Member 112811) and has sufficient experience with the style of mineralisation, the deposit types 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" (The JORC Code).

Competent Person (Challenger)

The information in this presentation that relates to the estimate of Mineral Resources for the Challenger Mine is based upon, and fairly represents, information and supporting documentation compiled by Mr Dale Sims, a Competent Person, who is a Chartered Professional Fellow of the Australasian Institute of Mining and Metallurgy (AusIMM) and a Member of the Australian Institute of Geoscientists (AIG). Mr Sims is the principal of Dale Sims Consulting Pty Ltd and an independent consultant engaged by Barton Gold for this work and 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 Competent Person as defined in the 2012 edition of the "Australasian Code for Reporting of Exploration Results, Mineral Resources and Ore Reserves" (The JORC Code).

Competent Person (Western Gawler Craton Joint Venture)

The information in this presentation that relates to Exploration Results and the estimate of Mineral Resources for the Western Gawler Craton Joint Venture is based upon, and fairly represents, information and supporting documentation compiled by Mr Richard Maddocks who is a Fellow of the Australasian Institute of Mining and Metallurgy (AusIMM). Mr Maddocks is an independent consultant geologist with Auranmore Consulting who prepared the information, and 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 December 2012 edition of the "Australasian Code for Reporting of Exploration Results, Mineral Resource and Ore Reserves" (the JORC Code).