



6 May 2024

## **+30,000M DRILLING PROGRAM TO COMMENCE ACROSS BRIGHTSTAR'S ENLARGED 1.45MOZ AU PORTFOLIO**

### **HIGHLIGHTS**

- **+30,000m Reverse Circulation and Diamond Drilling programs to commence imminently across the Brightstar portfolio, targeting resource upgrades & extensions in conjunction with feasibility workstreams at Menzies and Laverton, as well as Linden Gold's Second Fortune and Jasper Hills Gold Projects**
- **RC drilling targeting gold mineralisation within conservative (\$2,750/oz<sup>1</sup> and \$2,800/oz<sup>2</sup>) economic pit shells and underground designs previously announced in Brightstar Scoping Studies<sup>1,2</sup>, potentially generating higher confidence mineral resources (M&I) and de-risking early stages of future mining operations at Lady Shenton & Lord Byron open pits**
- **Surface & underground diamond drilling at Second Fortune to build confidence in FY2025 mine plans, with complementary underground exploration program leveraging synergies to explore Second Fortune at depth below the current Mineral Resource Estimate**
- **RC drilling across Menzies including Link Zone and the greenfields St Francis prospect, located 1.5km along strike from the Selkirk Mine, which was the recent subject of a successful mining JV, generating \$6.5M in net profit<sup>3</sup> to Brightstar**
- **Brightstar's technical team further bolstered by key appointments to geological leadership roles**

Brightstar Resources Limited (ASX: BTR) (**Brightstar**) is pleased to advise that a large reverse circulation (RC) and diamond drilling (DD) program will commence immediately across the broader 1.45Moz Brightstar & Linden Gold (subject of an off-market takeover offer)<sup>4</sup> portfolio, targeting gold mineralisation within known pit shells and underground designs outlined within Brightstar's Scoping Studies.

The RC program will initially commence at Menzies, where Brightstar aims to increase the geological confidence of the Lady Shenton System into Measured & Indicated status, thereby de-risking early stages of mining and providing valuable information for mine planning purposes. As outlined in the September 2023 Scoping Study<sup>1</sup>, approximately 100,000oz Au are to be mined from open pits within the Lady Shenton system across two virgin pits and a cut-back of the existing Lady Shenton mine.

Concurrently with this infill program at Menzies, Brightstar will also take advantage of operational synergies and drill the St Francis prospect, located 1.5km north-west along strike of the Selkirk deposit which was recently the focus of a successful mining joint venture which generated \$6.5M profit to Brightstar.

Additional RC & DD drilling has been planned at Cork Tree Well and Linden Gold's Second Fortune and Jasper Hills (Fish and Lord Byron deposits) projects to target both high-grade underground gold resources and baseload feed open pit targets.

Brightstar's Managing Director, Alex Rovira, commented *"This drilling program is the start of an aggressive exploration campaign by Brightstar, including deposits within the recently announced Linden Gold merger. Beyond the initial RC campaign at Menzies, the drill rigs will then head to Brightstar's Laverton Hub with the view to complete diamond and reverse circulation drilling programs across the enlarged Brightstar portfolio. We expect these holes to deliver valuable information for geological, mine planning, geotechnical and metallurgical purposes ahead of the combined pre-feasibility study to be released by the end of the year. We're also targeting greenfields exploration growth at the St Francis and Delta 2 prospects within the Menzies and Laverton Gold Projects respectively, with both highly compelling targets identified for drill testing.*

*Concurrently with these programs, we are also thrilled to announce the commencement of Jonathan Gough as General Manager - Geology along with the recent appointment of Edward Keys as Exploration Manager. Jonathan and Ed both come to Brightstar with proven successes in their recent geology management roles at Musgrave Minerals and Prodigy Gold, respectively. In addition, Linden Gold has recently appointed Jamie Brown as Chief Geologist initially based at Second Fortune, with the site team bolstered by Jamie's strong background in operational underground mine geology.*

*We are fortunate to attract such high-quality mining professionals with a combined +50 years of gold exploration and mining experience joining our team, and we look forward to their contributions to Brightstar's exciting growth trajectory as we explore and build on our existing 1.45Moz resource base in the Eastern Goldfields of WA".*

## TECHNICAL DISCUSSION

Brightstar is commencing a surface RC and DD campaign across all major deposits within the larger Brightstar & Linden Gold portfolio, along with minor exploration programs targeting near-surface gold mineralisation under shallow cover at the St Francis prospect in Menzies, the Delta 2 prospect located near Cork Tree Well, along with confirmatory drilling at the Beta deposit adjacent to the Brightstar plant.

These programs will commence imminently, with approximately five months of RC drilling including three months of concurrent diamond drilling completed from surface, with a complementary underground program scheduled for June to explore Second Fortune at depth. *Table 1* below outlines the broad overview of the program, with one surface RC rig, one surface DD rig and one underground DD rig being utilised in the coming months.

*Table 1 – Drilling location & planned productivities (subject to change)*

Location / Drilling	May	June	July	August	September
Menzies – RC	~ 5,000m		~ 1,500m	~ 2,500m	
Menzies – DD		~ 500m			
Second Fortune – RC/DD		~ 3,300m	~ 350m		
Second Fortune – UG DD		~ 500m			
Jasper Hills – RC & DD		~ 4,800m	~ 5,850m	~ 1,500m	
Menzies Exploration – RC				~ 1,500m	
Laverton – RC				~ 1,500m	~ 3,000m

## MENZIES DRILLING:

Drilling programs commencing at Menzies (*Figures 1 & 2*) will consist of:

- Infill RC and DD programs at the Link Zone, targeting near-surface material at all three deposits<sup>5</sup>.
  - The primary focus of the program is to delineate mineralisation within potential economic open pit optimisation shells being studied in order to finalise a potential small mining campaign in 2H 2024.
  - A modest DD program at Link Zone will be conducted to provide material for geotechnical and metallurgical testwork ahead of a “Decision to Mine”.
- Infill RC programs at the Lady Shenton open pit system.
  - Drilling of early mine-life material from the unmined Pericles and Stirling deposits will be completed to 20m x 20m patterns to ensure appropriate drill density to enable increase in confidence classification to Measured & Indicated status (and potential Ore Reserves as part of the PFS), with a small program targeting a discrete lode adjacent to the Lady Shenton pit.
- Greenfields exploration at the St Francis prospect, which is located along strike to the north of the Selkirk open pit and Aspacia deposit and presents a compelling greenfields exploration target.

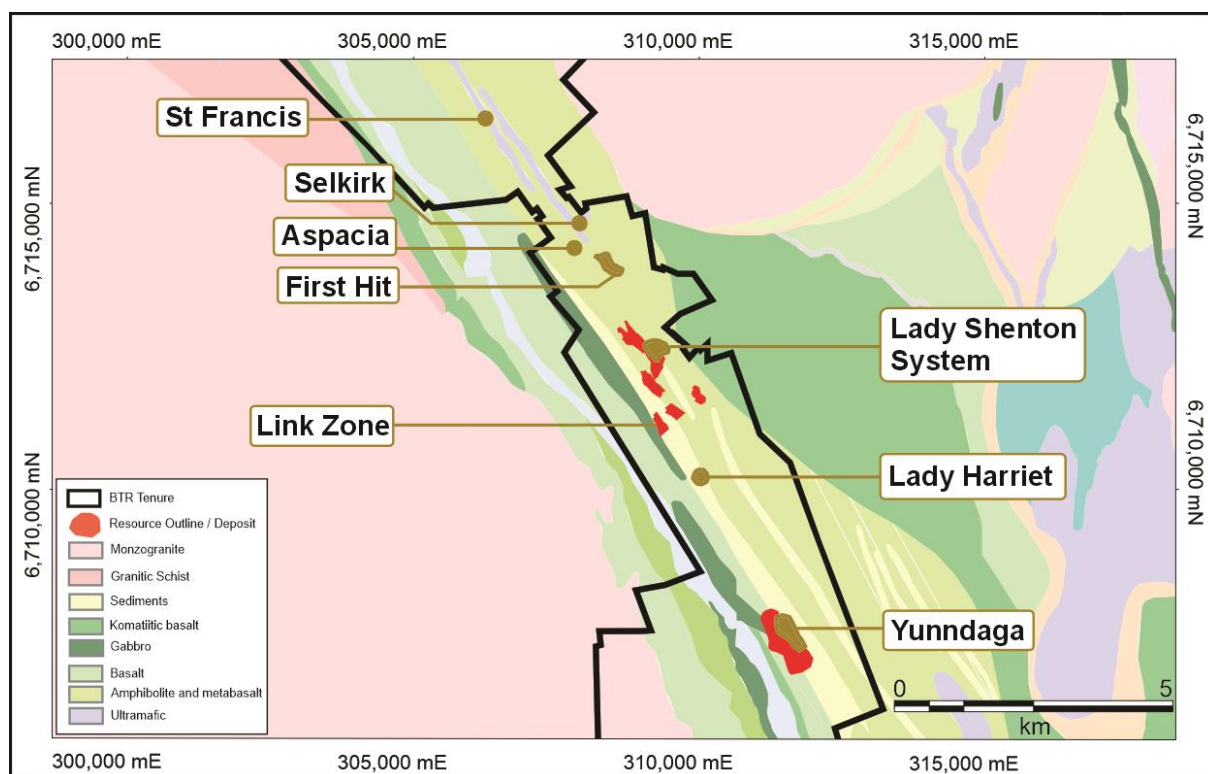


Figure 1 - Menzies Simplified Geology and deposits / prospects

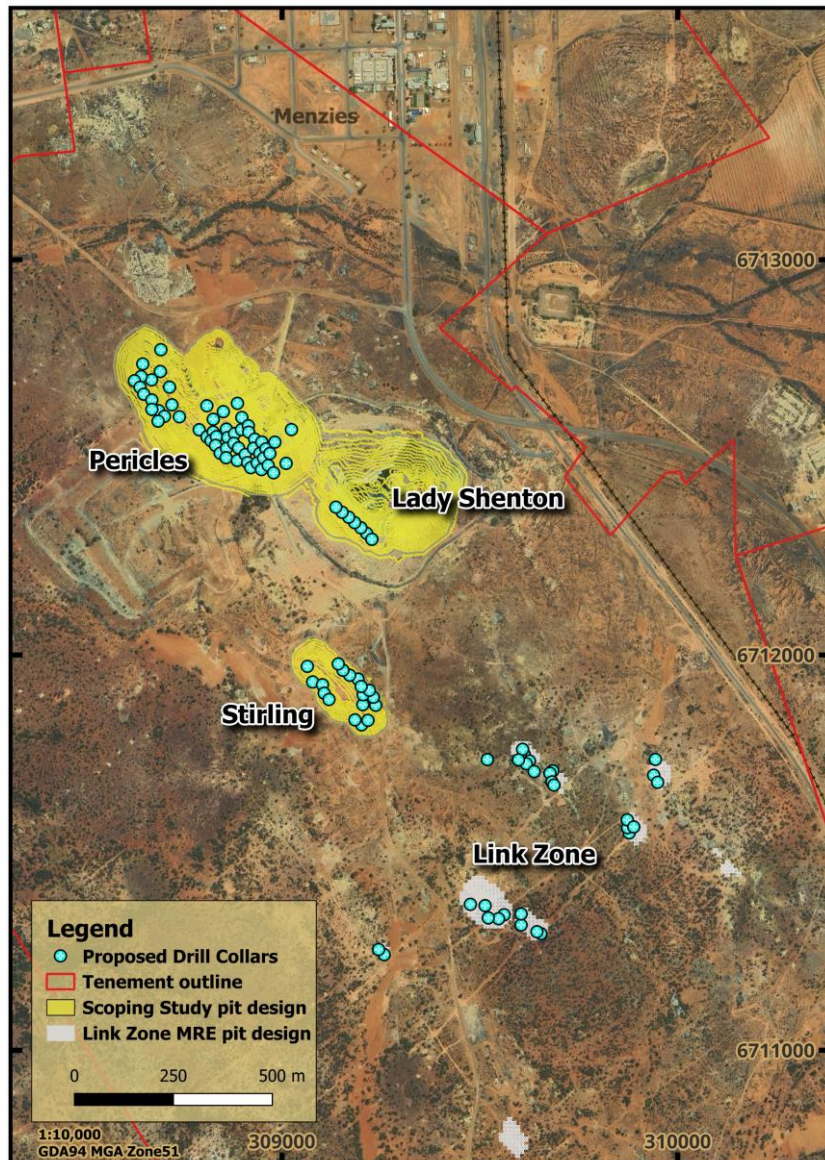


Figure 2 - Lady Shenton and Link Zone planned drilling programs

## SECOND FORTUNE DRILLING:

Brightstar is planning a surface and underground drilling campaign at Second Fortune, targeted to enable increased confidence classification of the existing MRE and assist with mine planning activities. The drilling programs will consist of eight diamond holes with RC 'pre-collars', targeting pierce points at the southern and northern end of the ore body.

The central zone of the Second Fortune orebody will be drilled from underground to enable better orientation for drilling pierce points with respect to the mineralisation and proximity to the existing and planned UG development.

The oblique section show below in *Figure 3* below illustrates the planned drill traces, current mineral resource block model and existing underground development.

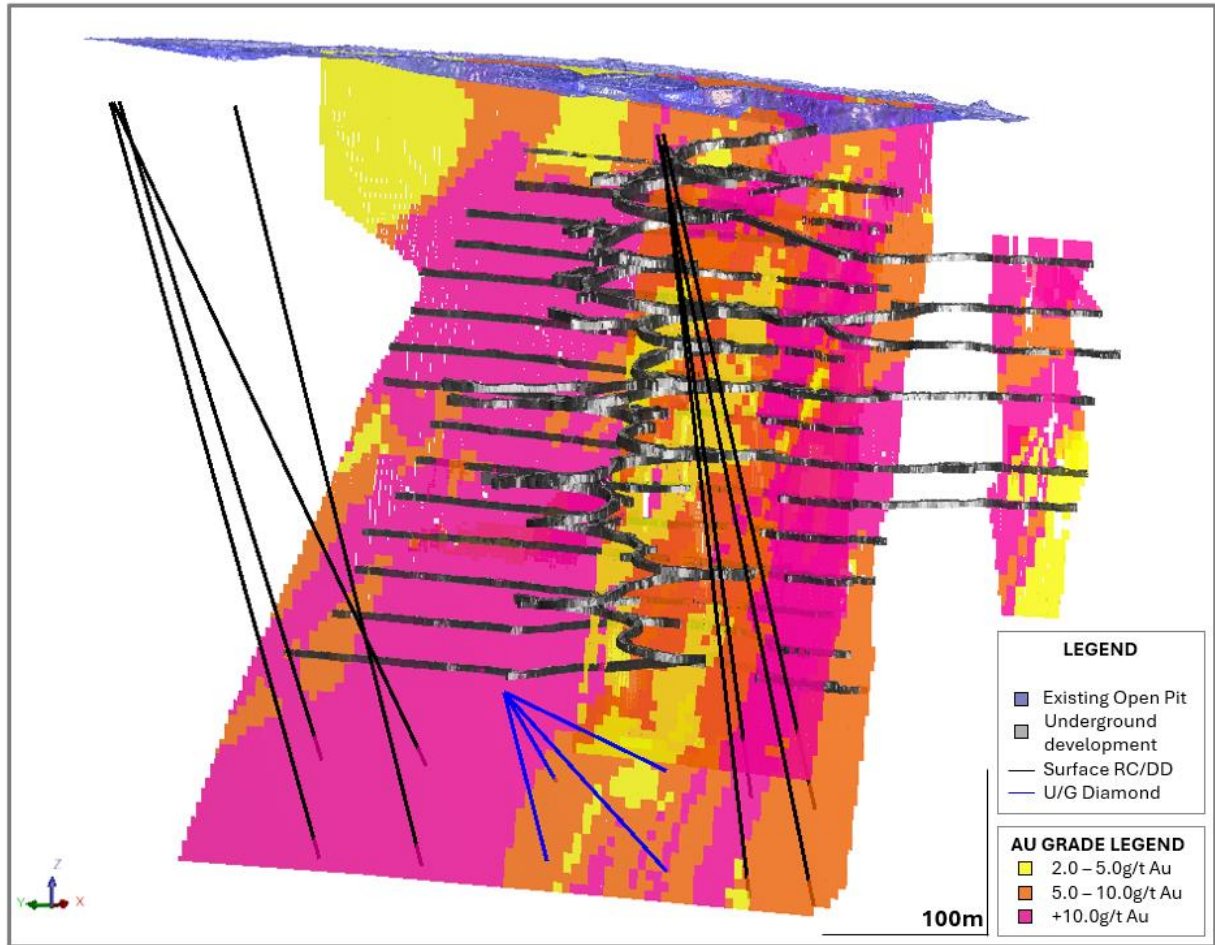


Figure 3 - Oblique section of proposed surface and underground drilling at Second Fortune

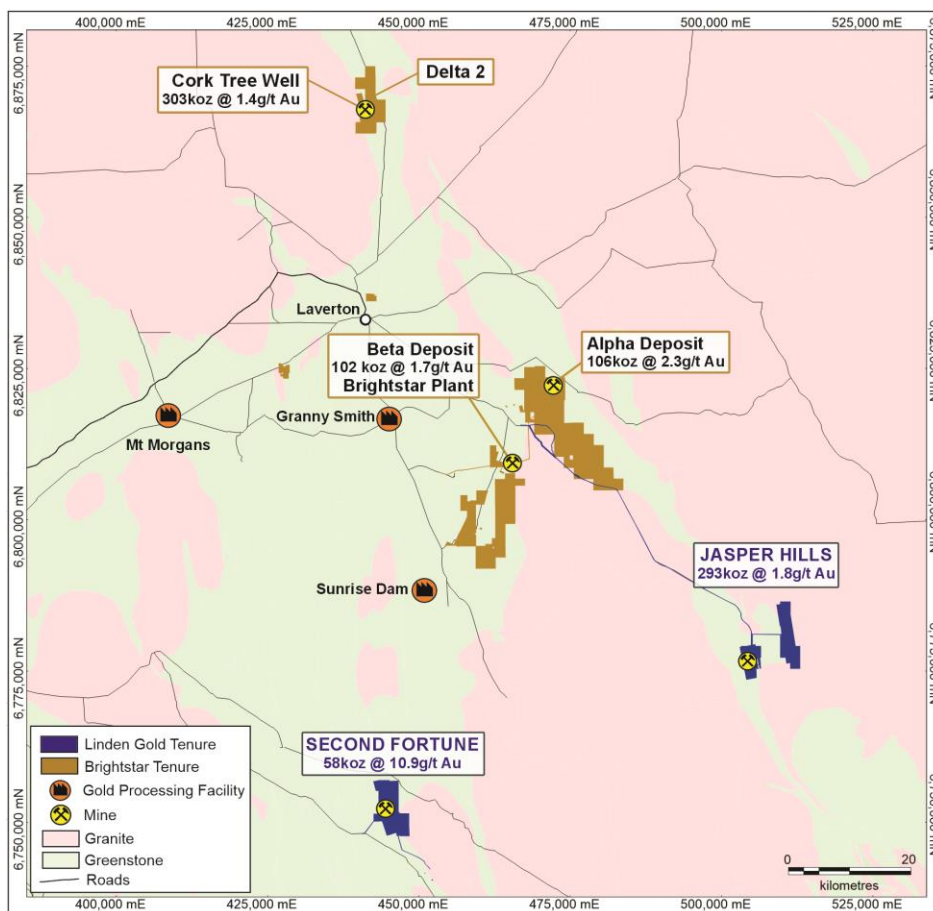


Figure 4 - Second Fortune underground portal

## LAVERTON DRILLING:

Drilling at the Laverton hub (*Figure 5*) encompasses RC and DD programs at several key projects as follows:

- Resource definition drilling at both Jasper Hills deposits (Fish and Lord Byron; *Figure 6*) in preparation of possible mining activities in 2025:
  - Brightstar's March 2024 Jasper Hills Scoping Study<sup>2</sup> outlined the production of 141koz Au over four years from Jasper Hills, with 115koz @ 1.62g/t Au to be mined from the proposed Lord Byron open pit.
- An RC infill program at Lord Byron and Fish, designed to increase drill density to improve orebody knowledge and Mineral Resources classification.
- Diamond Drilling at Lord Byron for geotechnical & metallurgical testwork purposes as part of the PFS that is underway.
- Exploration RC drilling at the Delta 2 prospect<sup>5</sup>, located ~3km north-east of the 303koz Au Cork Tree Well deposit.
- Infill RC drilling within optimised pit shells at the Cork Tree Well and testing extensional targets.
- Confirmatory RC drilling at Beta to test lode orientations.



*Figure 5 – Brightstar's Laverton Hub*

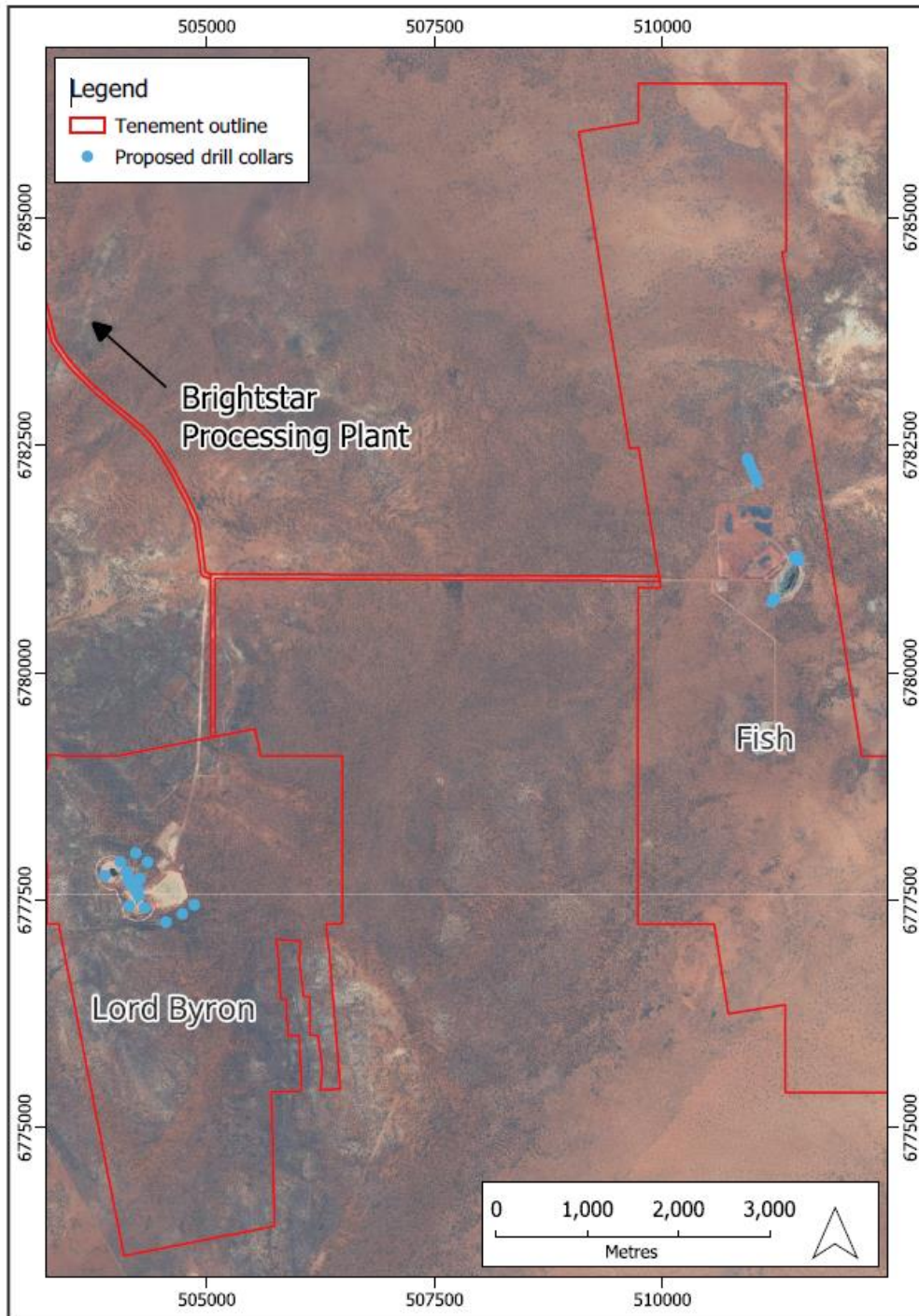


Figure 6 - Jasper Hills project area and proposed drilling program

### Next Steps

Brightstar will advise the market of further drilling progress, including assay results and geological interpretations when they are completed.

## References

1. Refer Brightstar Resources ASX announcement dated 6 September 2023 "Menzies and Laverton Gold Project Mine Restart Study"
2. Refer Brightstar Resources ASX announcement dated 25 March 2024 "Jasper Hills Scoping Study"
3. Refer Brightstar Resources ASX announcement dated 29 April 2024 "Quarterly Activities / Appendix 5B Cash Flow Report"
4. Refer Brightstar Resources ASX announcement dated 25 March 2024 "Brightstar makes recommended takeover offer for Linden Gold Alliance Limited"
5. Refer Brightstar Resources ASX announcement dated 15 November 2023 "Maiden Link Zone Mineral Resource"
6. Refer Brightstar Resources ASX announcement dated 4 October 2022 "Delta 2 RC Drilling Program Identifies New Mineralised Lode at CTW"

This ASX announcement has been approved by the Managing Director on behalf of the board of Brightstar.

## FOR FURTHER INFORMATION, PLEASE CONTACT:

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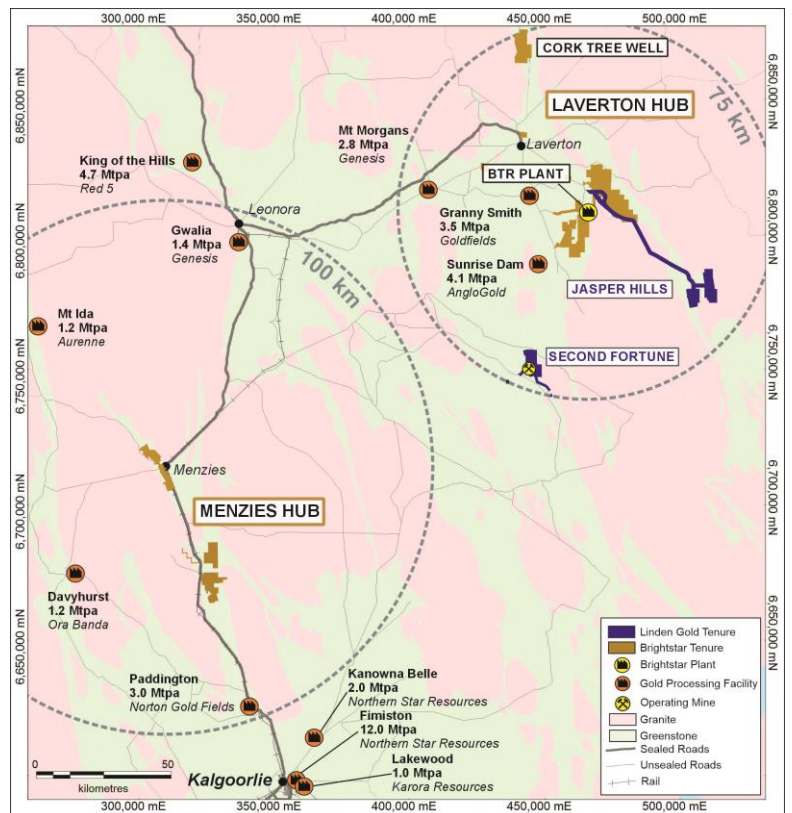
## ABOUT BRIGHTSTAR RESOURCES

Brightstar Resources Limited is a Perth-based gold exploration and development company listed on the Australian Securities Exchange (**ASX: BTR**).

In May 2023, Brightstar completed a merger with Kingwest Resources Limited via a Scheme of Arrangement which saw the strategic consolidation of Kingwest's Menzies Gold Project and Brightstar's Laverton Gold Project.

During 2023, Brightstar commenced mining operations at the Menzies Gold Project via a Profit Share Joint Venture, with first gold poured in March 2024 and \$6.5M profit generated by Brightstar.

In March 2024, Brightstar announced the off-market takeover of unlisted WA-based gold mining company Linden Gold Alliance Limited which is currently operating the underground Second Fortune Gold Mine south of Brightstar's Laverton project area.



*Brightstar Eastern Goldfield Asset locations*

Hosted in the prolific Eastern Goldfields of Western Australia and ideally located proximal to significant regional infrastructure and suppliers, post completion of the Linden transaction Brightstar will emerge with a significant **JORC Mineral Resource of 28.4Mt @ 1.6g/t Au for 1.45Moz Au**.

Importantly, Brightstar owns the Brightstar processing plant (currently on care and maintenance), a 60-man accommodation camp and non-processing infrastructure, located 30km SE of Laverton and within 75km of +800koz Au JORC Resources within the Laverton Hub.

Brightstar's strategy is to explore and develop its mineral resource inventory in the Tier-1 gold district of the Eastern Goldfields with the view to becoming a substantial ASX gold producer.

*Consolidated JORC Resources of Laverton & Menzies Gold Projects*

Location	Au Cut-off (g/t)	Measured			Indicated			Inferred			Total		
		Kt	g/t Au	Koz	Kt	g/t Au	Koz	Kt	g/t Au	Koz	Kt	g/t Au	Koz
Alpha	0.5	623	1.6	33	374	2.1	25	455	3.3	48	1,452	2.3	106
Beta	0.5	345	1.7	19	576	1.6	29	961	1.7	54	1,882	1.7	102
Cork Tree Well	0.5	-	-	-	3,036	1.6	157	3,501	1.3	146	6,357	1.4	303
<b>Total – Laverton</b>		<b>968</b>	<b>1.6</b>	<b>52</b>	<b>3,986</b>	<b>1.6</b>	<b>211</b>	<b>4,917</b>	<b>1.6</b>	<b>248</b>	<b>9,691</b>	<b>1.6</b>	<b>511</b>
Lady Shenton System (Pericles, Lady Shenton, Stirling)	0.5	-	-	-	2,770	1.3	119	4,200	1.3	171	6,970	1.2	287
Yunndaga	0.5	-	-	-	1,270	1.3	53	2,050	1.4	90	3,310	1.3	144
Yunndaga (UG)	2.0	-	-	-	-	-	-	110	3.3	12	110	3.3	12
Aspacia	0.5	-	-	-	137	1.7	7	1,238	1.6	62	1,375	1.6	70
Lady Harriet System (Warrior, Lady Harriet, Bellenger)	0.5	-	-	-	520	1.3	22	590	1.1	21	1,110	1.2	43
Link Zone	0.5	-	-	-	145	1.2	6	470	1.0	16	615	1.1	21
Selkirk	0.5	-	-	-	30	6.3	6	140	1.2	5	170	2.1	12
Lady Irene	0.5	-	-	-	-	-	-	100	1.7	6	100	1.7	6
<b>Total – Menzies</b>		<b>-</b>	<b>-</b>	<b>-</b>	<b>4,872</b>	<b>1.4</b>	<b>214</b>	<b>8,898</b>	<b>1.3</b>	<b>383</b>	<b>13,760</b>	<b>1.3</b>	<b>595</b>
<b>Total – BTR</b>		<b>968</b>	<b>1.7</b>	<b>52</b>	<b>8,858</b>	<b>1.5</b>	<b>425</b>	<b>13,715</b>	<b>1.4</b>	<b>625</b>	<b>23,351</b>	<b>1.5</b>	<b>1,106</b>

Refer Note 1 below. Note some rounding discrepancies may occur.

Pericles, Lady Shenton & Stirling consolidated into Lady Shenton System; Warrior, Lady Harriet & Bellenger consolidated into Lady Harriet System.

Note 1: This Announcement contains references to Brightstar's JORC Mineral Resources, extracted from the ASX announcements titled "Maiden Link Zone Mineral Resource" dated 15 November 2023, "Cork Tree Well Resource Upgrade Delivers 1Moz Group MRE" dated 23 June 2023, and "Aspacia deposit records maiden Mineral Resource at the Menzies Gold Project" dated 17 April 2024.

*Linden Gold Alliance JORC Mineral Resources*

Location	Au Cut-off (g/t)	Measured			Indicated			Inferred			Total		
		Kt	g/t Au	Koz	Kt	g/t Au	Koz	Kt	g/t Au	Koz	Kt	g/t Au	Koz
Lord Byron	0.5	453	1.8	26	1,141	1.6	58	2,929	1.7	160	4,523	1.7	244
Fish	0.6	26	7.7	6	149	5.8	28	51	4.3	7	226	5.7	41
Gilt Key	0.5	-	-	-	15	2.2	1	153	1.3	6	168	1.3	8
Jasper Hills Subtotal		<b>479</b>	<b>2.1</b>	<b>33</b>	<b>1,305</b>	<b>2.1</b>	<b>87</b>	<b>3,133</b>	<b>1.7</b>	<b>173</b>	<b>4,917</b>	<b>1.8</b>	<b>293</b>
Second Fortune	2.5	17	16.9	9	78	8.2	21	71	12.3	28	165	10.9	58
<b>Total</b>		<b>496</b>	<b>2.6</b>	<b>42</b>	<b>1,384</b>	<b>2.4</b>	<b>108</b>	<b>3,2,4</b>	<b>2.0</b>	<b>201</b>	<b>5,082</b>	<b>2.1</b>	<b>351</b>

Refer Note 2 below. Note some rounding discrepancies may occur.

Note 2: This Announcement contains references to Linden's JORC Mineral Resources, extracted from the ASX announcement titled "Brightstar Makes Recommended Bid for Linden Gold", dated 25 March 2024.

### **Forward-Looking Statements**

This document may include forward-looking statements. Forward-looking statements include, but are not limited to, statements concerning Brightstar Resources Limited's planned exploration program and other statements that are not historical facts. When used in this document, the words such as "could," "plan," "expect," "intend," "may", "potential," "should," and similar expressions are forward-looking statements. Although Brightstar believes that its expectations reflected in these forward- looking statements are reasonable, such statements involve risks and uncertainties and no assurance can be given that further exploration will result in the estimation of a Mineral Resource.

### **Competent Person Statement – Exploration**

The information presented here relating to exploration of the Menzies and Laverton Gold Project areas are based on information compiled by Mr Edward Keys, MAIG. Mr Keys is a Member of the Australasian Institute of Geoscientists (AIG) and has sufficient experience relevant to the style of mineralisation and type of deposit under consideration and to the activity he is undertaking to qualify as a "Competent Person" as that term is defined in the 2012 Edition of the "Australasian Code of Reporting of Exploration Results, Mineral Resources and Ore Reserves (JORC Code 2012)". Mr Keys is a fulltime employee of the Company in the position of Exploration Manager and has provided written consent approving the inclusion of the Exploration Results in the form and context in which they appear.

### **Competent Person Statement – Mineral Resources**

The information in this report that relates to Mineral Resources at the Menzies Gold Project (excluding the Aspacia and Link Zone Gold Deposits) is based on information compiled by Mr Mark Zammit who is a Member of the Australian Institute of Geoscientists. Mr Zammit is a Principal Consultant Geologist at Cube Consulting. Mr Zammit has sufficient experience that is relevant to the style of mineralisation, type of deposit under consideration and to the activity that they are undertaking to qualify as a Competent Person as defined in the 2012 edition of the 'Australasian Code for Reporting of Exploration Results, Mineral Resources and Ore Reserves' and consents to the inclusion in this report of the matters based on their information in the form and context in which they appear.

The information in this report that relates to Mineral Resources at the Aspacia and Link Zone Gold Deposit located within the Menzies Gold Project, and Cork Tree Well Gold deposit within the Laverton Gold Project, and the information in this report is based on, and fairly represents, information and supporting documentation compiled by Kevin Crossling holding a B.Sc. Honours in Geology. Mr. Crossling is the Principal Geologist at ABGM Pty Ltd and is a registered member with South African Council for Natural Scientific Professionals (SACNASP), and a member of the Australian Institute of Mining and Metallurgy (AUSIMM). with over 22 years of experience. Mr. Crossling has sufficient experience which is relevant to the style of mineralisation and type of deposit under consideration and to the activity which he is undertaking to qualify as a Competent Person as defined in the JORC Code.

The information in this report that relates to Mineral Resources at the Alpha and Beta Gold deposits within the Laverton Gold Project is based on information compiled by Mr Richard Maddocks. Mr Maddocks is a Fellow of the Australasian Institute of Mining and Metallurgy (AusIMM) and has sufficient experience which is relevant to the style of mineralisation and type of deposit under consideration and to the activity he has undertaken to qualify as a "Competent Person" as that term is defined in the 2012 Edition of the "Australasian Code for Reporting of Exploration Results, Mineral Resources and Ore Reserves (JORC Code 2012)". Mr Maddocks consents to the inclusion in this announcement of the matters based in this information in the form and context in which it appears. Mr Maddocks was employed as a contractor of Brightstar.

**Compliance Statement**

With reference to previously reported Exploration Results and Mineral Resources, the Company confirms that it 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 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.