

Advanced Exploration in Tier 1 Jurisdictions

AGM Presentation • November 2023



Disclaimer

Deposit	Competent Person	Employer	Professional Institute
Duketon, East Laverton and Mon Ami Exploration Results and Geological Interpretation	Rachel Backus	Resourceful Exploration Services Pty Ltd	AIG, AUSIMM
Mon Ami Mineral Resource	Dr Michael Cunningham	SRK Consulting (Australasia) Pty Ltd	MAusIMM, MAIG
Edinburgh Park Project	Rachel Backus	Resourceful Exploration Services Pty Ltd	AIG, AUSIMM

Competent Persons Statement

The information in this report that relates Exploration Results and Mineral Resources is based on the information of the Competent Persons listed in the table above Each of the Competent Persons have sufficient experience relevant to the style of mineralisation and type of deposit under consideration and to the activity they are undertaking to qualify as Competent Persons under the JORC Code 2012 For new information each consent to the inclusion in the report of the matters based on his information in the form and context in which they occur Previously announced information is cross referenced to the original announcements In these cases, the Company is not aware of any new information or data that materially affects the information presented and that the technical parameters underpinning the estimates continue to apply and have not materially changed The Company confirms that the form and context in which the Competent Persons findings are presented have not been materially modified from the original market announcements of (GSN 25/1/19, 12/8/20, 2/3/21, 14/4/21, 21/7/21, 21/9/21, 5/10/21, 11/10/21, 28/10/21, 13/12/21, 17/1/22, 9/3/22, 31/3/22, 15/6/22, 29/6/22, 5/7/22, 8/11/22, 13/12/22, 27/3/23, 16/5/23, 21/6/23, 9/10/23 and 9/11/23. References to ASX RRL announcements of 18/1/11, 8/3/11, 6/4/21, 31/3/22 are noted in the presentation).

ASX announcements are available on the Company's website at www.gsml.com.au

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Corporate Snapshot

A\$17.4M Market Cap (at \$0.023 per share)

755M

Shares on Issue (incl. Goldfields Subscription)

31.6M Options (\$0.10-\$0.20 exercise price)

A\$0.8M

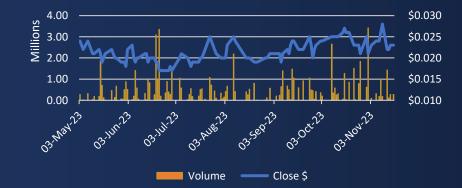
Cash (at 30 Sept 23, excl. A\$1.0M received post Qtr

A\$0.3M

Listed Investment (ASX:RRR share holding value at 21 Nov 23)

Shareholders





John Terpu Executive Chairman

DIRECTORS

Over 22 years' experience in the mining & exploration sector, through acquisition and investment in many projects. Founder of Conquest Mining which discovered the Mt Carlton mine and went on to become gold major Evolution Mining. As Chairman of Emerchants Ltd, drove the company's market cap from A\$1m to over A\$150m.

Matt Keane

Managing Director

Geologist with 25 years of experience in mining, exploration and financial markets, including 8 years as a Resources Analyst. Mr Keane's technical career incorporated 10 years with BHP across various commodity groups.

Matthew Blake

Non-Executive Director

Mr Blake has 25 years' experience in the financial services industry and with companies listed on the ASX. Executive Director of Javelin Minerals Limited and NED with Unith Limited.

Andrew Caruso Non-Executive Director

Mining executive with over 25 years' experience in the Australian and international mining industries, including significant corporate leadership and business development experience.

Investment Highlights



Advanced exploration projects in established mining districts



Primed for major gold, nickel and copper discoveries



All projects located within 40km of hungry mills

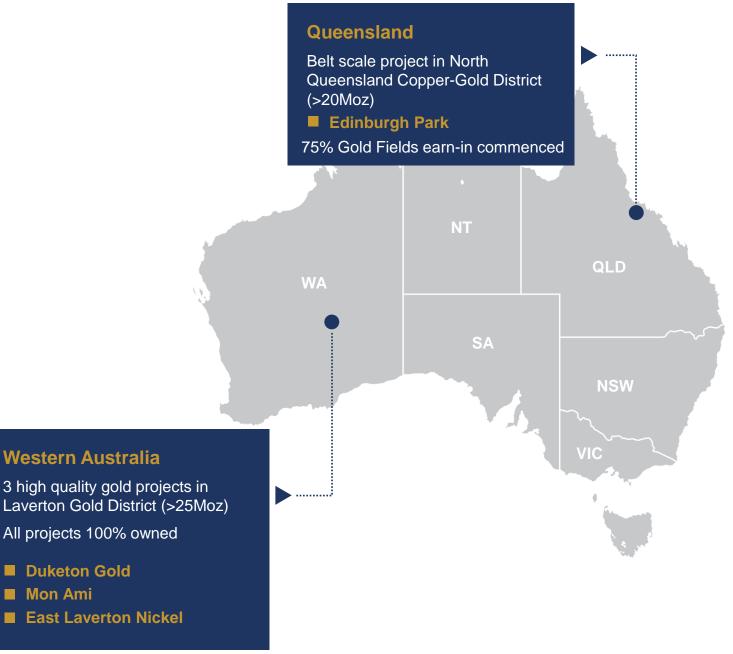


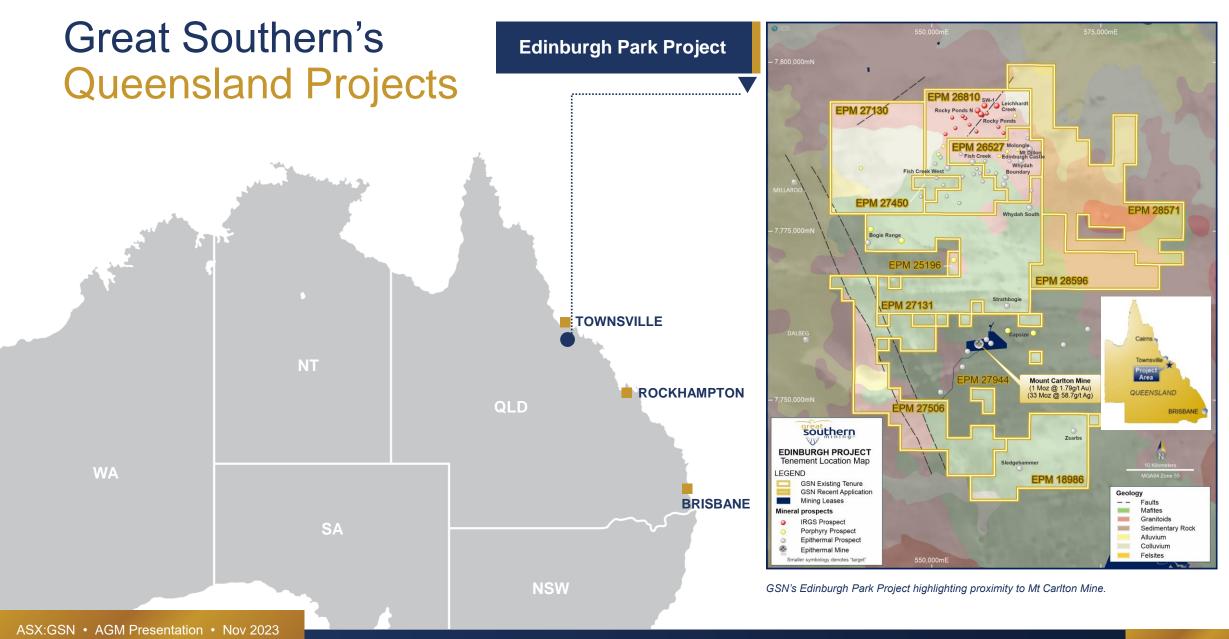
Major exploration programs planned for 2023/2024 significant newsflow



Quality Board with skin in the game and an experienced exploration team

Mon Ami





Edinburgh Park Gold Fields Earn-In, Credentialed Partner for Tier One Discoveries

- Belt scale play with ~1,750km² tenure surrounding 1.7Moz Au Eq Mt Carlton Mine
- Prospective for gold-copper porphyry mineralisation, as well as high and low sulphidation gold-silver-copper mineralisation
- 29 epithermal and porphyry targets identified by GSN¹
- High priority targets at the Molongle, Mt Dillion, Red Rock, Leichhardt Creek and Sledgehammer target areas

Gold Fields Earn-in

- Gold Fields spending up to A\$15m over 6 years to earn a 75% interest²
 - Minimum spend of A\$2.5m in the first 2 years
- Gold Fields also subscribed to A\$1m GSN shares for a 5.4% holding
- Gold Fields is the ideal partner with experience and funding to discover major porphyry/epithermal deposits
- Geophysics commencing in Q4 2023 then drilling expected in early-2024

1 Refer to GSN:ASX announcement date 29 June 2023





Epithermal style quartz stockworks at Megan Veins target, with rock chip samples grading up to 10g/t gold

Quartz, pyrite fracture veining at Leichhardt Creek target



Copper and silver rich porphyry specimen from Molongle Creek target

Advanced Western Australia Projects

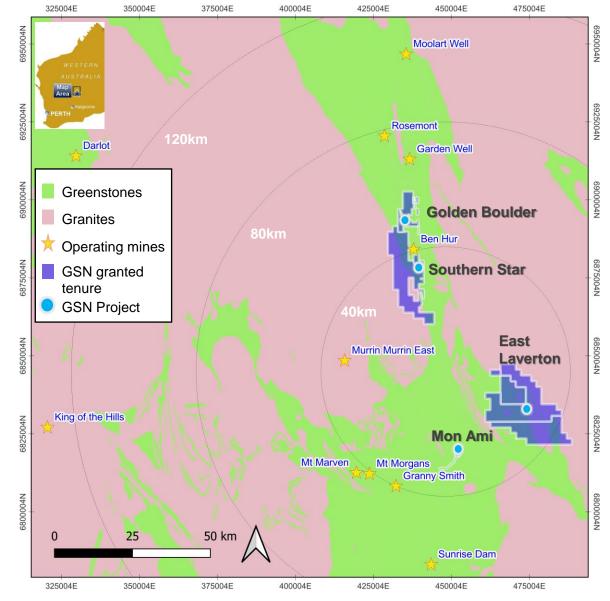




Advanced Western Australia Projects

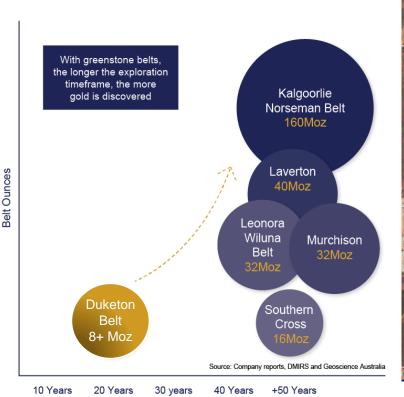
LAVERTON-LEONORA "Game of Mines"

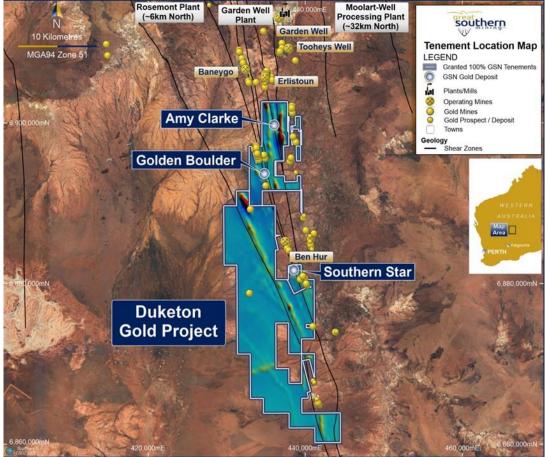
- Consolidation underway around existing infrastructure throughout the goldfields – Why is this happening?
 - Existing mills are growing short of ore feed
 - In the current environment, it is expensive to build new infrastructure
 - Permitting and access to people and materials is pushing out development timelines
- Significant advantage for advanced projects around installed infrastructure, compared to a standalone resource
- GSN WA projects are surrounded by significant installed milling capacity
 - Approx. 20Mtpa mill capacity within 200km of GSN projects
 - On current throughput, these mills ~20% underfed or mills are on care and maintenance



Duketon Gold Underexplored greenstone belt

- Duketon Belt is still immature compared to other WA Greenstone Belts
- Gold deposits focussed on three major structural trends
- All three trends continue through GSN 269km² tenure
- GSN tenure remains sparsely drilled
- Yet three compelling prospects defined to date, all with high grade intercepts and scale potential
- Multiple other high priority targets remain untested



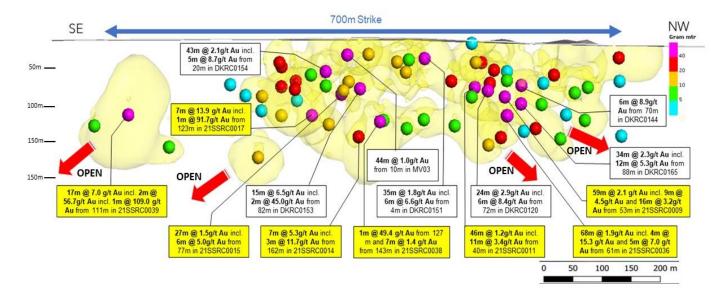


Map of GSN's 100% owned Duketon Gold Project and surrounding operating mills owned by Regis (ASX: RRL)

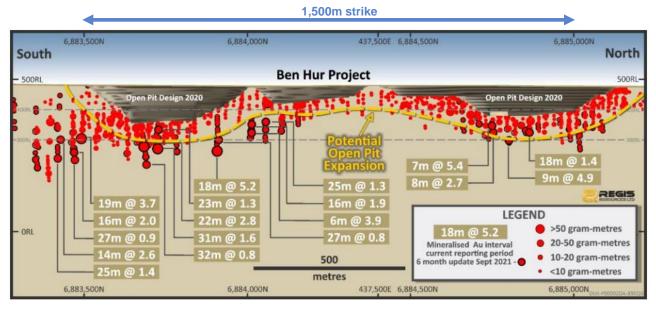
Southern Star Ben Hur Analogue

- Southern Star is a large contiguous mineralised gold system currently defined over ~700m
- Southern Star is considered an analogue to Regis Resources' Ben Hur deposit, located ~3km to the north within the same geological host
- Ben Hur 390koz @ 1.2g/t Au based on ~130,000m drilling.
 Southern Star has just ~20,000m drilled to date
- Majority of Southern Star drilling above 140m below surface
 well within reach of potential open pit mining
- Better drill intercepts to date include¹:
 - 69m @ 1.1g/t Au from 39m, incl. 10m @ 3.5g/t AU
 - 68m @ 1.9g/t Au from 61m, incl. 4m @ 15.3g/t Au
 - 59m @ 2.1g/t Au from 53m, incl. 9m @ 4.5g/t Au
 - 17m @ 7.0g/t Au from 11m incl. 1m @ 109.0g/t Au





Long Section of the Southern Star mineralisation showing selected gold intercepts. Mineralisation remains open in nearly every direction including down-plunge, down-dip and along strike to the north and south.

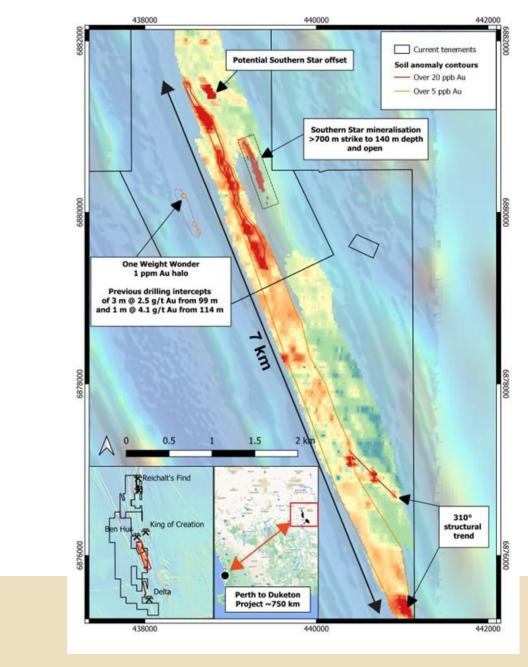


Long section of RRL's Ben Hur deposit taken from RRL presentation released 6 September 2022

Southern Star

- GSN has 6.7km to test along the interpreted Rosemont-Ben Hur trend at Southern Star
 - ~1.5km to the north of Southern Star and ~4km to the south of current mineralisation
- Open in all directions with limited drilling along strike or at depth
- Drilling program underway targeting:
 - > Strike extensions
 - Depth and down plunge extensions
 - Geochemical heat map (right) showing gold anomalism from a recent soil survey underlain by aeromagnetic imagery. Results show a distinct 7 km anomalous trend to the west of Southern Star – being tested in current drill program.
 - > Fault offsets to the north of Southern Star

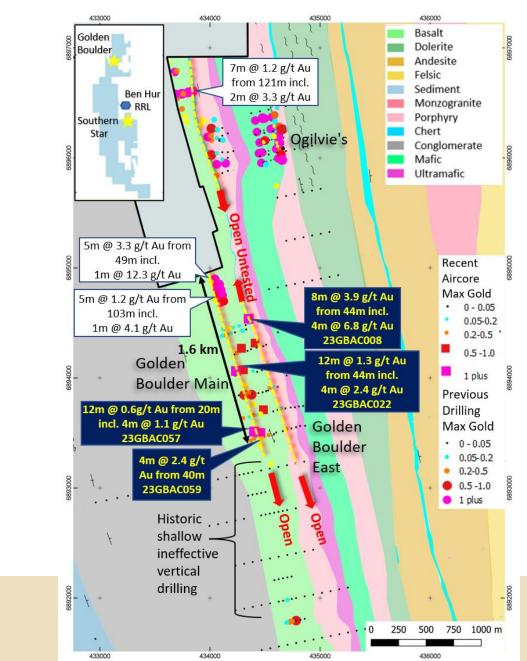
Next steps: RC drilling program underway



Duketon Gold Golden Boulder Area – Emerging Discovery

- Multiple parallel gold trends with over 50 historic shafts
- Historic drilling is sparce and shallow (average depth just 40m) and in some areas ineffective due to hard ferricrete crust
- RC drilling in 2021 returned 5m @ 3.3g/t Au from 49m, incl. 1m @ 12.3g/t Au and 8m @ 2.1g/t Au from 32m, incl. 4m @ 3.7g/t Au¹
- Aircore drilling in 2023 returned 8m @ 3.9g/t Au from 44m, incl. 4m @ 6.8g/t
 Au and 12m @ 1.2g/t Au, incl. 4m @ 2.4g/t Au²
- Mineralisation on Golden Boulder Main line defined over 1.6km strike
- Prospective horizon on Golden Bolder East identified over 3km on GSN tenure
- Mineralisation open along strike and at depth
- 1 Refer to ASX:GSN Announcements 8/7/21, 23/9/21
- 2 Refer to ASX GSN announcement 16/5/23

Next steps: Follow up and step out RC drilling

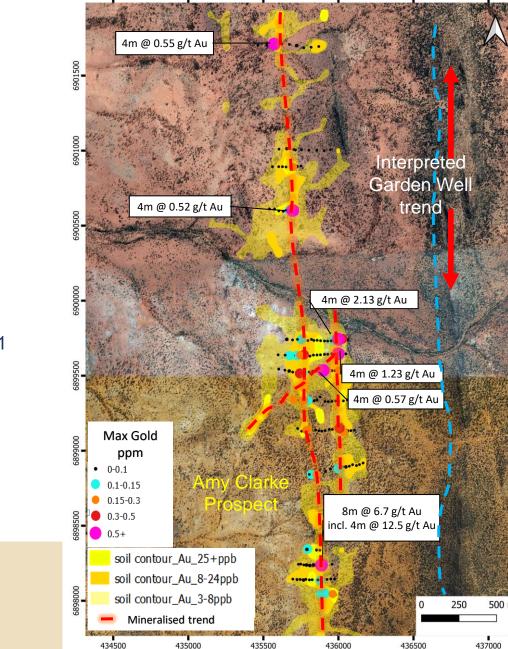


Duketon Gold Amy Clarke

- Tenement acquired in late-2020 with little historical exploration undertaken
- 8km from Garden Well processing facility
- 5km gold anomaly identified in shallow aircore drilling and soil geochemistry
- Main anomalism sits along strike (less than 3.5km) from Regis' Erlistoun pit with 320koz @ 1.9 g/t Au¹
- Similar surface gold anomalism to Regis' Garden Well anomaly prior to the 2.1 Moz @ 1.4 g/t Au gold discovery¹
- GSN drilling in 2021 confirmed two significant mineralised trends including an intercept of:
 - 8m @ 6.7g/t Au from 33m, including 4m @ 12.5g/t Au²
- Garden Well trend to the east remains virtually untested

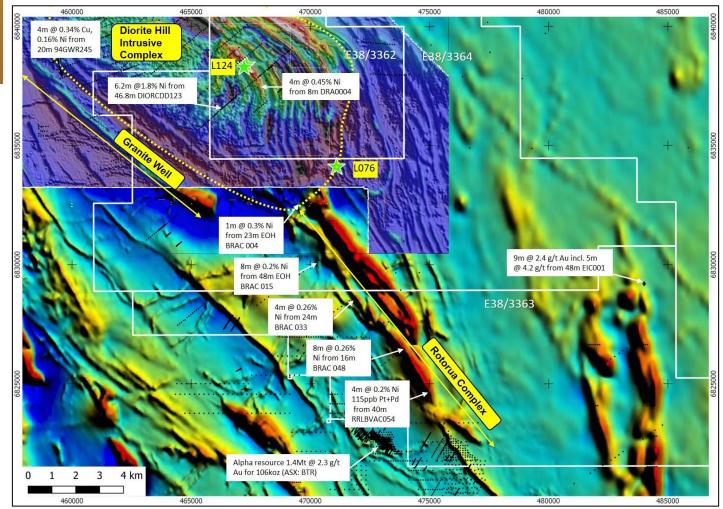
¹ Source: ASX:RRL announcements 8/3/11, 18/1/11 ² Refer ASX announcement 17/1/22

Next steps: Follow up RC drilling to previous high grade intercepts. Extensional aircore drilling over southern extension geochemical anomaly



East Laverton Project Nickel and Gold Potential

- Project area of 407km²
- Prospective for both intrusive magmatic and komatiitic nickel–copper-PGE mineralisation
- 4 conceptual target areas:
 - Diorite Hill layered intrusive
 - Rotorua Komatiite trend
 - Granite Well Komatiite trend
 - Karora Ultramafic trend
- Diorite Hill drilling program in late-2022 proved the right geology – follow up exploration required
- 14km of komatiite trends to be tested with EM in 2023, commencing in the June quarter
- Gold potential still to be tested
- Historic gold intercept of 9m @ 2.4g/t Au, incl. 5m @ 4.2g/t Au in the east never followed up



Magnetic image highlighting the Rotorua and Granite Well targets with drillhole database displaying Newmont significant intersections along the edge Rotorua complex. Refer to Brightstar Resources (BTR) 2021 Annual Report for Alpha Gold Resource.

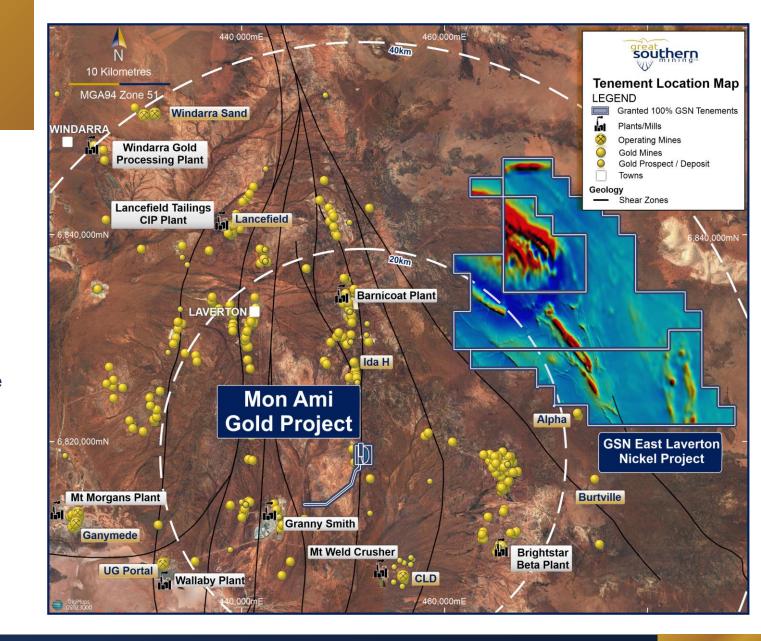
Mon Ami Gold

 Established 1.56Mt @ 1.11g/t Au for 55koz Mineral Resource¹

	COG (g/t)	Tonnage (Mt)	Grade (g/t Au)	Metal (Oz Au)
Indicated	0.5	1.41	1.16	52,500
Inferred	0.5	0.15	0.61	3,000
Total	0.5	1.56	1.11	55,500

- Shovel ready on a granted Mining License with requisite mining and environmental studies complete
- Permitted haul access route to nearest major highway
- Within trucking distance to at least three gold processing facilities

1 Source: ASX announcement 21/7/21. The Company confirms that it is not aware of any new information or data that materially affects the information included in the previous market announcements regarding the MRE.



Why invest in Great Southern Mining?

High quality projects in premium locations near hungry mills

Moving from target generation phase to high impact drilling in 2024



Significant newsflow planned over next 6-12 months



Contact Us

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Mill	Owner	Capacity (Mtpa)	Current Throughput (Mtpa Annualised)	Refer
Barnicoat	Focus Minerals Limited	1.5	On care and maintenance	Quart
Brightstar	Brightstar Resources Limited	0.5	On care and maintenance	Inves
Granny Smith	Goldfields	3.5	1.6	Opera
Sunrise Dam	Anglo Gold Ashanti	4.1	2.7	Marke
Mt Morgans	Dacian	2.8	Operations suspended	Quart
Duketon (Garden Well, Rosemont and Moolart Well)	Regis Resources Ltd	10.0	8.4	Quart 27/10
Gwalia	St Barbara	1.4	1.0	Quart

Reference

Quarterly Activities Report – released 28/4/23

Investor Presentation – released 8/6/23

Operational Update - released 4/5/23

Market Update Report – released 12/5/23

Quarterly Activities Report - released 27/4/23

Quarterly Reports – June 22 (released 26/7/22), Sep 22 (released 27/10/22), Dec 22 (released 25/1/23) and March 23 (released 27/4/23)

Quarterly Reports – June 22 (released 27/7/22), Sep 22 (released 18/10/22), Dec 22 (released 25/1/23) and March 23 (released 27/4/23)

Table 1 – Mills in Laverton/Leonora Area with estimated current throughputs based on available information.

