



## QUARTERLY ACTIVITIES REPORT

### 31 MARCH 2022

#### HIGHLIGHTS

- Focus this quarter was on expanding and advancing gold prospectivity at the Moorefield Project. Activity included RC drilling and the soil sampling at the Boxdale to Carlisle Reefs 15km long gold-arsenic-sulfide trend
- Nine (9) RC holes completed at Carlisle Reefs for 1,070m and twenty-three (23) RC holes was started during the quarter at Boxdale for 2,370m and has since completed, with 3,440 assays pending

#### **MOOREFIELD: GOLD TARGET**

- Strong near surface gold (Au) assays returned from fifteen RC holes drilled in December at Boxdale, incl. 5m at 4.16g/t Au from 24m
- Drill tested three (3) arsenic in soil anomalies, and further soil sampling (994) has since identified more anomalies
- Gold results confirm the success of the rapid exploration methods employed for this target style and highlights the growth potential of this 15km prospective gold trend

#### **CARGELLIGO: COPPER-GOLD-LEAD-ZINC TARGET**

- Achilles target geological interpretation works ongoing and shallow auger drill planning and permitting underway
- Land holder negotiations progressing well on the new Exploration Licence 9336

#### **GUNDAGAI: GOLD TARGET**

- RC drill planning completed and permitting received for maiden drilling scheduled for next quarter

Australian Gold and Copper Ltd (ASX: AGC) ("AGC" or the "Company") is pleased to report on its March 2022 quarter activities.

#### Corporate

On 20<sup>th</sup> January 2022, the Company completed its first anniversary since listing on the Australian Securities Exchange, after raising \$10 million (before costs) at IPO. The last 12 months has been an active and energetic year for the Company, expanding its discovery focused drill targets into attractive multi-kilometre scale projects.

## Forward Exploration Drilling Schedule

Outstanding assays are expected in May from RC drilling at Boxdale and Carlisle Reefs orogenic gold targets. The forward drilling schedule focuses on AGC's 100% owned gold targets and builds on previous drill intercepts. and maiden drilling at the Gundagai 'McPhillamys style' gold target. Auger drilling for Cobar style copper at the Cargelligo project is also planned.

## Exploration and Operations March Quarter

### **MOOREFIELD PROJECT: GOLD (EL7675 EL8669, AGC 100%)**

#### **RC DRILLING – BOXDALE TO CARLISLE REEFS**

During the quarter, strong first pass drilling results returned from December drilling at the 4km long, Boxdale gold target. Fifteen (15) RC holes (1,560m) were drilled within the 15km Boxdale-Carlisle Reefs gold trend, Moorefield Project in central NSW (ASX AGC 2<sup>nd</sup> March 2022).

5,000m have been drilled since December targeting areas of elevated arsenic in soil, and further soil sampling (994) during the quarter has identified more arsenic anomalies. 3,440m drill assays are currently pending from nine (9) RC holes completed at Carlisle Reefs for 1,070m and twenty-three (23) RC holes at Boxdale for 2,370m that was started during the quarter and have since been completed (ASX AGC 7<sup>th</sup> February 2022, 29<sup>th</sup> March 2022).

Drilling at both Carlisle Reefs and Boxdale intercepted encouraging zones of sulfides (pyrite and arsenopyrite, visually logged and pXRF analysed).

The host rocks are interbedded meta-siltstones and sandstones. The mineralisation is preferentially hosted within the sandstone units as the sandstones are brittle, allowing them to fracture. Mineralisation in veins develop within these fractures.

RC drill samples (3,440) will be reported on once received from the laboratory.

The style of gold deposits being explored are orogenic gold deposits whereby gold has a strong correlation with arsenic and the gold mineralisation is hosted in brittle fractures in the rock. The fractures are cemented with quartz/carbonate and sulfide minerals such as pyrite and arsenopyrite. This cementing process creates mineralised veins which host gold.

Such deposits include the World-class, multimillion ounce Victorian gold deposits, such as Bendigo and Fosterville (Kirkland Lake Gold).

Boxdale drill results included:

#### **Anomaly 3: BXRC002 returned:**

- 10m at 0.34g/t Au from 21m
- 37m at 0.81g/t Au from 35m, incl. 4m at 1.25g/t Au from 41m and 8m at 1.79g/t Au from 51m

#### **Anomaly 3: BXRC006, on section with BXRC002, returned:**

- 16m at 0.49g/t Au from 42m incl. 1m at 3.50g/t Au from 52m

#### **Anomaly 3: BXRC008, drilled 50m north of BXRC002 and BXRC006, returned:**

- 33m at 1.10g/t Au from 3m incl. 11m at 2.73g/t Au from 21m incl. 5m at 4.16g/t Au from 24m incl. 1m at 6.74g/t Au

#### **Anomaly 2: BXRC010, on section with BXRC011, returned:**

- 17m at 0.30g/t Au from 25m

**Anomaly 2: BXRC011**, on section with BXRC010, returned:

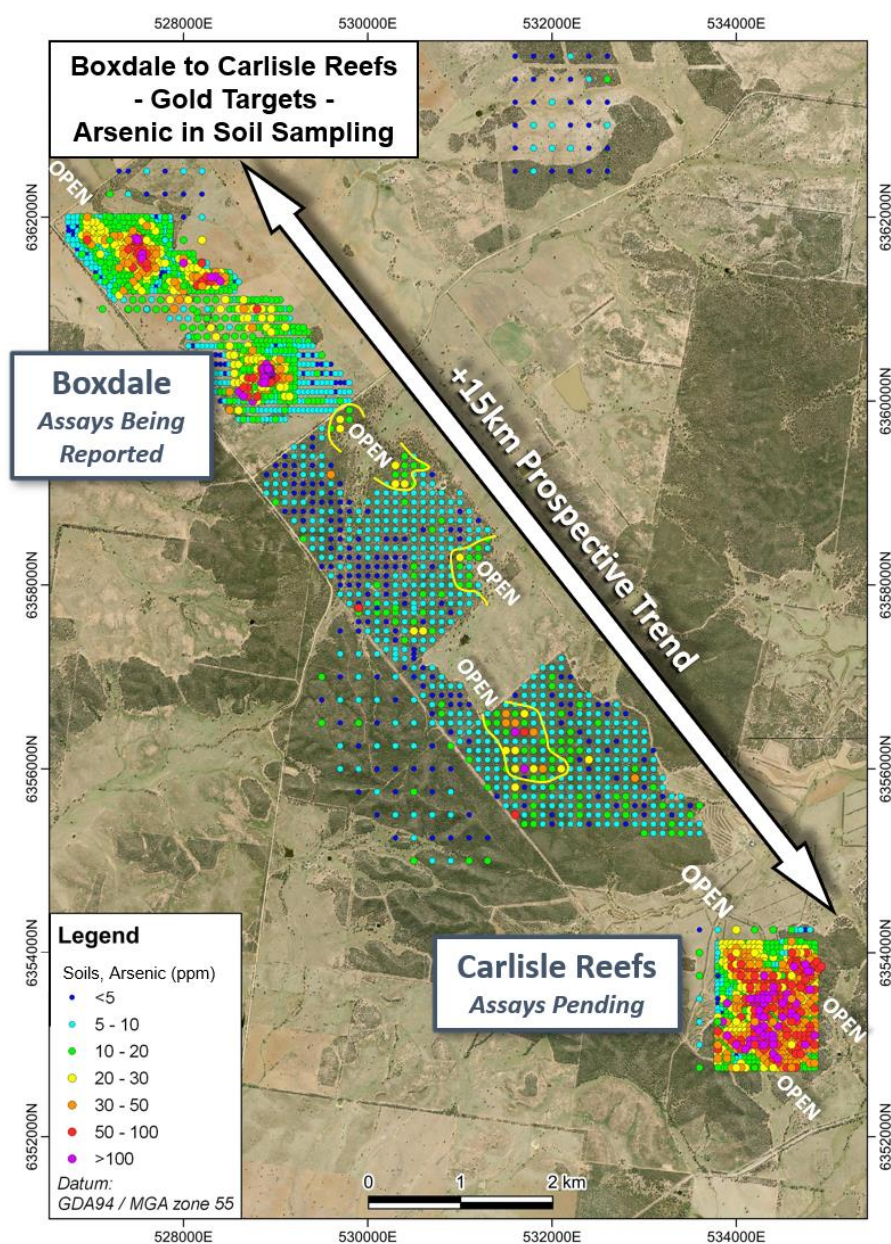
- 12m at 0.58g/t Au from 66m

**Anomaly 1: BXRC014**, returned multiple lenses:

- 15m at 0.85g/t Au from 60m incl. 9m at 1.10g/t Au from 66m
- 9m at 1.02g/t Au from 79m incl. 2m at 3.58g/t Au from 81m incl. 1m at 5.24g/t Au from 81m

**Anomaly 1: BXRC015**, returned:

- 4m at 0.49g/t Au from 10m incl. 1m at 1.26g/t Au from 12m



**Figure 1:** The +15km prospective trend from Boxdale to Carlisle Reefs (AGC IPO Prospectus 18 Nov 2020).





### **CARGELLIGO PROJECT: COPPER-GOLD-LEAD-ZINC (EL8968, AGC 100%)**

During the quarter, the Achilles target saw geological interpretation works ongoing and shallow auger drill planning and permitting underway.

Also, land holder negotiations progressed on new exploration licence 9336 on some of the key areas.

### **GUNDAGAI PROJECT: GOLD (EL8955, AGC 100%)**

During the quarter, permitting was granted for the upcoming drill program at the Grandview gold target. The area has an extensive mining history however only three historic drill holes completed in 1984. These holes produced encouraging results yet this was the only exploration completed on this site prior to AGC (AGC ASX prospectus lodged 18th November 2020).

The assaying of the historic drill holes was completed on 3m composites instead of the 1m composites that are general practice now. 3m compositing of drill holes is considered insufficient for this style of gold mineralisation. Nevertheless, results included (AGC ASX prospectus lodged 18th November 2020):

- PGH-G-1: 54m at 0.26g/t from 0m
  - inc 6m at 0.63g/t from 42m
- PGH-G-2: 6m at 1.0g/t from 36m and 21m at 0.38g/t Au from 66m
- PGH-G-3: 3m at 1.62g/t from 33m

Also, historic rockchips: 5.8m at 2g/t Au, 2.7m at 6.44g/t Au, 1.9m at 1.67g/t Au, 30m at 0.2g/t Au (in adit)

More recent work highlighted a large gold and pathfinder element soil anomaly with gold in rockchips to 35g/t, 33g/t, 26g/t, 17g/t and this target is considered a McPhillamys 2.2Moz style target (AGC ASX prospectus lodged 18th November 2020).

RC drilling is scheduled for next quarter.



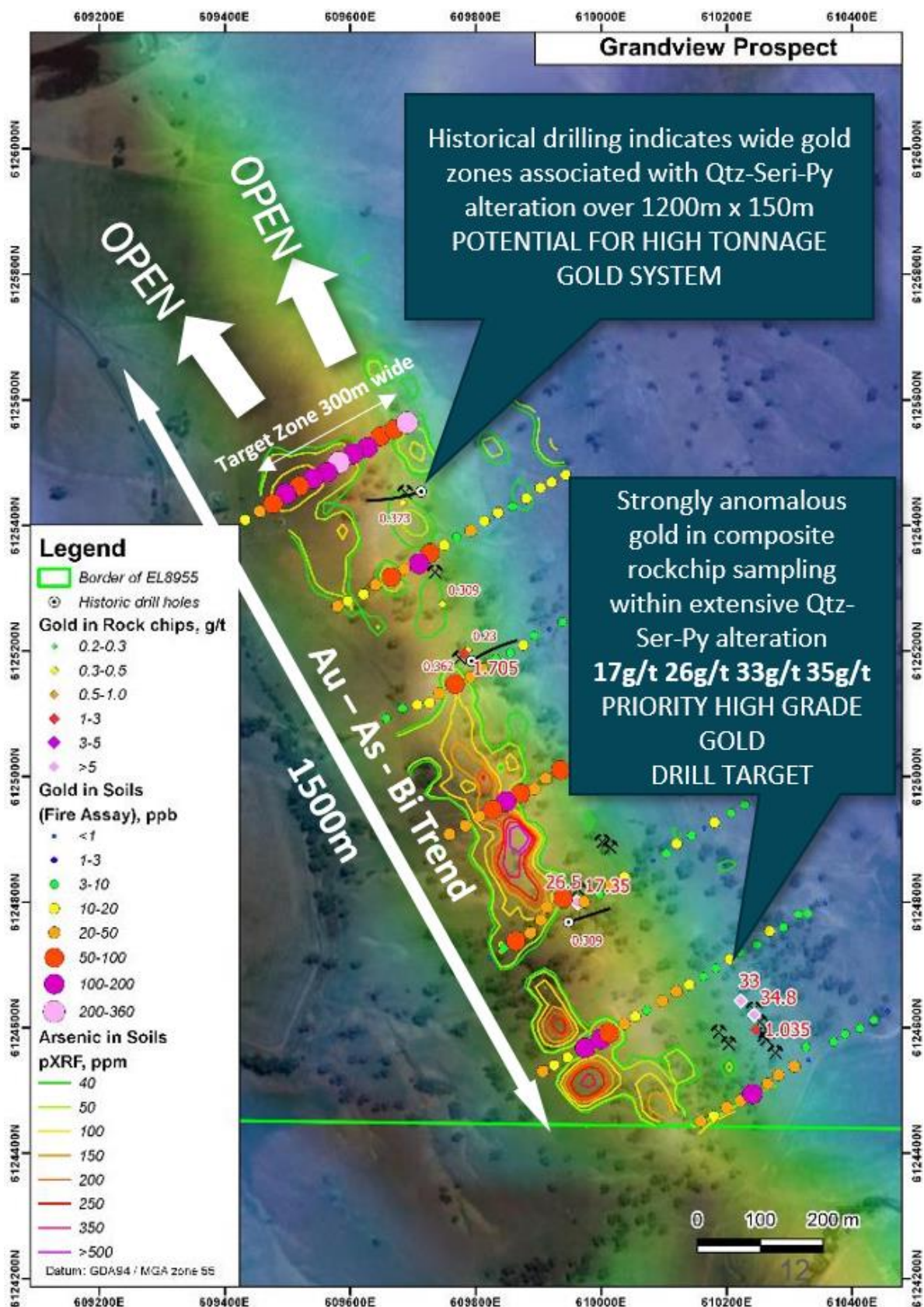


Figure 3: Grandview gold target at Gundagai to be drilled later this quarter.

## ASX Additional Information

As per ASX Listing Rule 5.3.1: Exploration and Evaluation Expenditure during the Quarter was \$395,000. Full details of exploration activity during the Quarter are set out in this report.

As per ASX Listing Rule 5.3.2: There were no substantive mining production and development activities during the Quarter.

As per ASX Listing Rule 5.3.5: Payments to related parties of the Company and their associates during the Quarter were \$150,000. The Company advises that this relates to director's fees, shared services and accounting and company secretarial related services.

As per ASX Listing Rule 5.3.4 the following expenditures have occurred since listing:

Item	Current Quarter	Year to date	As per IPO Prospectus dated 18 November 2020 *
Exploration – Moorefield	\$260k	\$1m	\$2.720m
Exploration – Cargelligo	\$117k	\$1.76m	\$2.280m
Exploration – Gundagai	\$18k	\$77K	\$1m
Working capital/operating expenses	-	\$719K	\$3m
Cost of offer – fundraising	-	\$615K	\$600K
Costs of offer – other	-	\$480K	\$400K

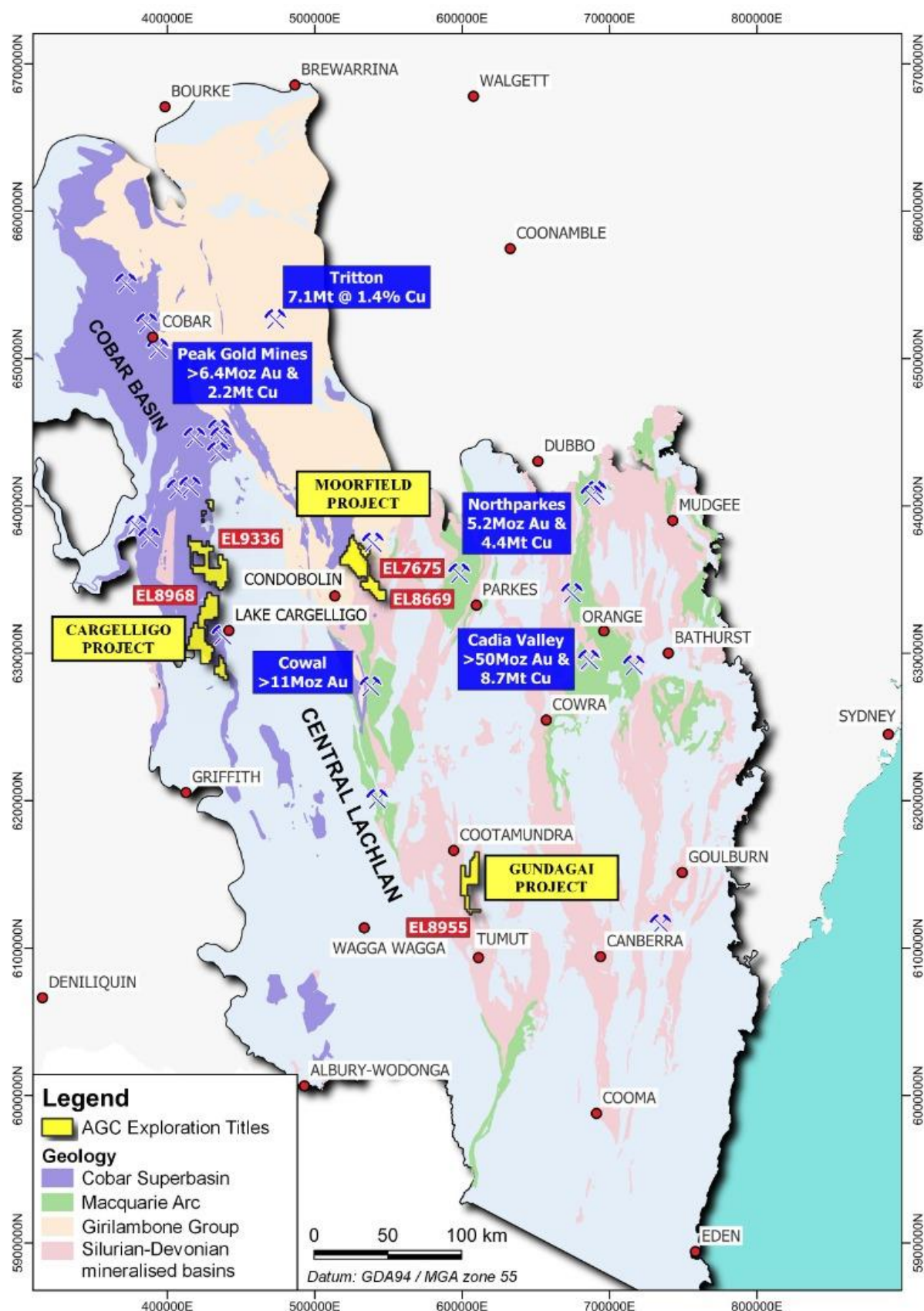
\* Costs per the prospectus are over the first two years following admission of the Company to the official list of ASX.

The differences in the above, as reported in previous quarters, are as follows:

- *Costs of Offer – Other.* These costs include legal costs, accounting and tax advice costs, and other support services
  - Legal and related costs increased due to an amendment to the offer, as evidenced by the Supplementary prospectus dated 30 November 2020);
  - Delays in the anticipated listing of the Company increased costs of the offer, predominantly legal costs;
  - The Company exceeded the Financial Acquisitions Threshold (FAT) and was therefore unable to claim all of the GST Input Tax Credits for Legal, ASX and associated costs relating to the IPO. The Prospectus was prepared assuming all GST Input Tax Credits could be claimed and were disclosed on an ex-GST basis.
- *Costs of Offer – Fundraising.* These costs included brokerage fees for the IPO. As the Company exceeded the Financial Acquisitions Threshold (FAT) they were not entitled to claim the full amount of the GST Input Tax Credits for brokerage fees.

## Projects Overview

AGC's portfolio located in the Central Lachlan Fold Belt of NSW includes the Moorefield gold project exploring for multi-million ounce orogenic gold deposits, the Cargelligo copper-gold/base-metal project in the southern Cobar Super-Basin exploring for Hera and Federation style deposits, and the Gundagai gold project, exploring for multi-million ounce McPhillamy's type gold deposits.



**Figure 4.** Location of the Cargelligo, Moorefield and Gundagai Projects in relation to major mines and deposits within the Lachlan Fold Belt., see p100 AGC ASX prospectus lodged 18th November 2020.



## REFERENCES

AGC ASX prospectus lodged 18th November 2020

### **ASX Market Sensitive Announcements**

21/01/2022 Boxdale Drilling Complete, Rig Mobilising to Carlisle Reefs

07/02/2022 Carlisle Reefs Drilling Completed

02/03/2022 Near Surface Gold Intersected Along Boxdale-Carlisle Reefs Trend

29/03/2022 Boxdale Drilling Underway to Extend Near Surface Gold Target

This announcement has been approved for release by the Board of AGC.

**ENDS**

### **For further information:**

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## Tenement Register

Tenement	Reference	Location	Interest at 01/01/22	Acquired/Disposed	Interest at 31/03/22
Moorefield	EL 7675	NSW	100%	N/A	100%
Derriwong	EL 8669	NSW	100%	N/A	100%
Cargelligo	EL 8968	NSW	100%	N/A	100%
Rast	EL 9336	NSW	100%	N/A	100%
Gundagai	EL 8955	NSW	100%	N/A	100%

There are no Farm-in or Farm-out Arrangements held by Australian Gold and Copper Ltd

### Competent Persons Statement

The information in this document that relates to Exploration Results, Mineral Resources or Ore Reserves is based on information compiled by Mr. Glen Diemar who is a member of the Australian Institute of Geoscientists. Mr. Diemar is a full-time employee of Australian Gold and Copper Limited, and is a shareholder, however Mr. Diemar believes this shareholding does not create a conflict of interest, and Mr. Diemar 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 2012 Edition of the "Australasian Code for Reporting of Exploration Results, Mineral Resources and Ore Reserves". Mr. Diemar consents to the inclusion in this presentation of the matters based on his information in the form and context in which it appears.

### Forward-Looking Statements

This announcement contains "forward-looking statements." All statements other than those of historical facts included in this announcement are forward-looking statements. Where the Company expresses or implies an expectation or belief as to future events or results, such expectation or belief is expressed in good faith and based upon information currently available to the company and believed to have a reasonable basis. Although the company believes the expectations expressed in such forward-looking statements are based on reasonable assumptions, such statements are not guarantees of future performance and no assurance can be given that these expectations will prove to be correct as actual results or developments may differ materially from those projected in the forward-looking statements. Forward-looking statements are subject to risks, uncertainties and other factors, which could cause actual results to differ materially from future results expressed, projected or implied by such forward-looking statements. Such risks include, but are not limited to, copper, gold, and other metals price volatility, currency fluctuations, increased production costs and variances in ore grade or recovery rates from those assumed in mining plans, as well as political and operational risks and governmental regulation and judicial outcomes. Readers are cautioned not to place undue reliance on forward-looking statements due to the inherent uncertainty thereof. The forward-looking statements contain in this press release are made as of the date of this press release and except as may otherwise be required pursuant to applicable laws, the Company does not undertake any obligation to release publicly any revisions to any "forward-looking statement".

### Previously Reported Information

The information in this report that references previously reported exploration results is extracted from the announcements referenced and the Company's ASX IPO Prospectus released on the date noted in the body of the text where that reference appears. The ASX IPO Prospectus is available to view on the Company's website or on the ASX website ([www.asx.com.au](http://www.asx.com.au)). The Company confirms that it is not aware of any new information or data that materially affects the information included in the original market announcements. 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 announcements.