

Barton Completes Phase 1 of CSIRO & Portable PPB Trials

HIGHLIGHTS

- Phase 1 trial of next-gen exploration technology completed at the Tarcoola Gold Project
- Orientation soil and biogeochemical samples collected, results expected February 2022
- Works co-funded by South Australian Government Accelerated Discovery Initiative (ADI)

Barton Gold Holdings Limited (**ASX: BGD**) (**Barton** or the **Company**) is pleased to announce that it has completed Phase 1 orientation sampling at the Tarcoola Gold Project (**Tarcoola**) in collaboration with the Commonwealth Scientific and Industrial Research Organisation (**CSIRO**).¹

Barton is trialling deployment of Portable PPB's detectORE™ technology, originally patented by CSIRO, across high priority Tarcoola targets. The technology offers the potential to revolutionise testing with gold results available in-field in as little as 8 hours' time versus several weeks for conventional lab-based assays.



Exploration Manager Marc Twining and MD Alexander Scanlon collecting soil and plant samples

This program forms part of the works co-funded by the Government of South Australia under the Accelerated Discovery Initiative (**ADI**), pursuant to which Barton has received \$100,000 in co-funding.¹

¹ Refer to Barton Gold Holdings Limited ASX announcements dated 28 July, 4 August and 6 October 2021.

Commenting on the completion of Phase 1 sampling trials, Barton MD Alexander Scanlon said:

“This sampling program concludes a very busy year in the field for Barton, during which we have completed multiple geophysical, geochemical and drilling programs. The results from Tarcoola ground penetrating radar, and over 10,300m drilling at the Tarcoola and Tunkillia Gold Projects, have been exceptional with the results of Tarcoola gravity surveys and this geochemical sampling due soon.²

“We plan to hit the ground running early next year following integration of these results with our evolving regional geological models, targeting over 20,000m of drilling and Mineral Resources Estimate updates for the Tarcoola and Tunkillia Gold Projects during 2022.

“With a cash balance of \$12.9m as at 30 September, we are exceptionally well-funded to pursue our scale exploration and Mineral Resources growth strategy as we move these projects toward feasibility studies.³ We are also immensely grateful to the Government of South Australia for its significant financial support to accelerate our innovation-driven exploration strategy and the very exciting results already achieved.”

Authorised by the Managing Director of Barton Gold Holdings Limited.

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² Refer to Barton ASX announcements dated 27 / 29 September, 20 / 27 October, and 3 / 8 / 15 November 2021.

³ Refer to Barton ASX announcement dated 14 October 2021.

About Barton Gold

Barton Gold is an ASX listed Australian gold exploration company with a **total attributable ~1.1Moz Au JORC (2012) Mineral Resources endowment** (28.68Mt @ 1.2 g/t Au), a pipeline of advanced exploration projects and brownfield mines, and **100% ownership of the only regional gold mill** in the central Gawler Craton of South Australia.*

Tarcoola Gold Project

- Existing brownfield open pit mine within trucking distance of Barton's processing plant
- Significant mineral extensions
- Under-explored asset with untapped scale potential

Tunkillia Gold Project

- **965koz Au Mineral Resources (26.1Mt @ 1.15 g/t Au)***
- Host structure extends 7km north and 7km south
- District-scale structures with advanced satellite targets

Infrastructure

- 650ktpa CIP process plant, 240 person village, workshop, labs and airstrip
- Tarcoola ~40 person lodging to support mine operations
- Tunkillia camp to support dedicated project team



Competent Persons Statement & Previously Reported Information

The information in this announcement that relates to the historic Exploration Results and Mineral Resources as listed in the table below is based on, and fairly represents, information and supporting documentation prepared by the Competent Person whose name appears in the same row, who is an independent consultant to the Company and is a Member or Fellow of the Australasian Institute of Mining and Metallurgy (AusIMM), Australian Institute of Geoscientists (AIG) or a Recognised Professional Organisation (RPO). Each person named in the table below has sufficient experience which is relevant to the style of mineralisation and types of deposits under consideration and to the activity which he has undertaken to qualify as a Competent Person as defined in the JORC Code 2012.

Activity	Competent Person	Membership	Status
Tarcoola Mineral Resource	Dr Andrew Fowler	AusIMM	Member
Tarcoola Exploration Results	Mr Colin Skidmore	AIG	Member
Tunkillia Exploration Results	Mr Colin Skidmore	AIG	Member
Tunkillia Mineral Resource	Dr Andrew Fowler	AusIMM	Member
Challenger Mineral Resource	Mr Dale Sims	AusIMM / AIG	Fellow / Member
Western Gawler Craton JV Mineral Resource	Mr Richard Maddocks	AusIMM	Fellow

The information relating to historic Exploration Results and Mineral Resources in this announcement is extracted from the Company's Prospectus dated 14 May 2021 or as otherwise noted in this announcement, available from the Company's website at www.bartongold.com.au or on the ASX website www.asx.com.au. The Company confirms that it is not aware of any new information or data that materially affects the Exploration Results and Mineral Resource information included in previous announcements and, in the case of estimates of Mineral Resources, that all material assumptions and technical parameters underpinning the estimates in the Prospectus continue to apply and have not materially changed. The Company confirms that the form and context in which the applicable Competent Persons' findings are presented have not been materially modified from the previous announcements.

Cautionary Statement Regarding Forward-Looking Information

This document may contain forward-looking statements. Forward-looking statements are often, but not always, identified by the use of words such as "seek", "anticipate", "believe", "plan", "expect", "target" and "intend" and statements than an event or result "may", "will", "should", "would", "could", or "might" occur or be achieved and other similar expressions. Forward-looking information is subject to business, legal and economic risks and uncertainties and other factors that could cause actual results to differ materially from those contained in forward-looking statements. Such factors include, among other things, risks relating to property interests, the global economic climate, commodity prices, sovereign and legal risks, and environmental risks. Forward-looking statements are based upon estimates and opinions at the date the statements are made. Barton undertakes no obligation to update these forward-looking statements for events or circumstances that occur subsequent to such dates or to update or keep current any of the information contained herein. Any estimates or projections as to events that may occur in the future (including projections of revenue, expense, net income and performance) are based upon the best judgment of Barton from information available as of the date of this document. There is no guarantee that any of these estimates or projections will be achieved. Actual results will vary from the projections and such variations may be material. Nothing contained herein is, or shall be relied upon as, a promise or representation as to the past or future. Any reliance placed by the reader on this document, or on any forward-looking statement contained in or referred to in this document will be solely at the readers own risk, and readers are cautioned not to place undue reliance on forward-looking statements due to the inherent uncertainty thereof.

* Refer to Barton Prospectus dated 14 May 2021 and ASX announcement 14 October 2021.