

Crater Gold Mining Limited ABN 75 067 519 779

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QUARTERLY ACTIVITIES REPORT For the period ended 30 June 2019

About Crater Gold Mining Limited

(ASX CODE: CGN)

Crater Gold Mining Limited ("Crater Gold" or the "Company") is focussed on the exploration of its highly prospective Crater Mountain Gold Project in Papua New Guinea (PNG), which includes two gold resources and evidence of potential copper-gold porphyry mineralisation. The Company is also exploring at the A2 Polymetallic and Golden Gate Graphite projects at Croydon in Queensland, Australia

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Russ Parker Managing Director

ACHIEVEMENTS DURING THE QUARTER

HGZ GOLD MINING PROJECT, CRATER MOUNTAIN, PNG

Gold production

POLYMETALLIC PROJECT, CROYDON, NTH QLD

• Grant of EPM 26749

CORPORATE

• Loan Facility

ACTIVITIES POST END OF QUARTER

GOLDEN GATE GRAPHITE PROJECT, NTH QLD

High Recovery & Purity from Metallurgical test results

CORPORATE

• \$2m Loan Facility

DEVELOPMENTS DURING THE QUARTER

CRATER MOUNTAIN GOLD PROJECT, PAPUA NEW GUINEA

High Grade Zone (HGZ) Gold Mine

Gold Production

In April the Company announced production of 87ozs of gold. The production was from a composite of high grade and low grade gold material.

The Company has been working on the renewal of several of its Exploration Licences and also started the process of preparing for the renewal application of its Mining Licence ML510, the first stage of which is complete with the issuance of the Environmental Permit (15 years). The main Exploration Licence,

EL1115, is currently under review with the PNG government and we expect an update during the September 2019 quarter.

During the quarter, the processing plant was reconfigured, which resulted in it operating at a reduced capacity. The first of the ordered skid steer loaders arrived in country and is now on site, with operational training now being carried out. The two skid steers ordered will dramatically improve the underground bogging operations and also increase the gold bearing tonnage being delivered to the processing plant.

Additional pneumatic jack hammers have been delivered to the mine site. These will allow more specific mining on an increased number of faces, thus providing additional high-grade gold bearing material to the processing plant.

The Company is confident that when the upgrade of the processing plant is completed and when the additional mining equipment is introduced it will all have a considerable effect in increasing gold production at the HGZ mine. Additionally, a night shift will be introduced at that time to increase processing capacity to match expected mine output.

POLYMETALLIC PROJECT, CROYDON, NORTH QLD

Grant of EPM 26749 - Wallabadah extended

During the quarter, the Company announced the grant of EPM 26749 ("Wallabadah Extended") for a term of 5 years effective 11 April 2019.

The Company applied for the 36 sub-block tenement of 115.2 km² to cover possible extensions of the high priority SGH soil anomalies identified from sampling of the A2 Polymetallic Project Area within the Wallabadah EPM 13775.

Several Geochemical anomalies detected by the sampling will be drill tested, as outlined in ASX Announcements dated 26 February 2018, 26 July 2018 and 12 December 2018. The tenement also encompasses residual gravity anomalies G1, G2 and G3 previously identified by the Company which have not yet been fully evaluated.

Field work will involve extension of the EPM 13775 SGH soil sampling into EPM 26749.



Figure 1 Shows the granted EPM area, the A2 Polymetallic Project area and the location of the high priority drill targets to test the SGH anomalies

CORPORATE

\$A500,000 LOAN FACILITY WITH FREEFIRE TECHNOLOGY LTD

On 10 June 2019 the Company announced that it entered into a new loan agreement for \$500,000. The funding to be provided by way of a loan facility from Company's major shareholder, Freefire Technology Ltd ("Freefire").

The use of the funds was further development of the High Grade Zone ("HGZ") at the Crater Mountain Project in Papua New Guinea.

Key terms of the loan facility include an interest rate of 8% p.a. with the repayment of the facility to occur within three months.

ACTIVITIES POST END OF QUARTER

GOLDEN GATE GRAPHITE PROJECT, CROYDON, NTH QLD

High graphite recovery and purity obtained from metallurgical test work

- Floatation test work by Brisbane Met Labs P/L on a nominal 56 micron composite drill core sample has achieved a 96% recovery of graphite into a floatation concentrate
- A 2-stage caustic bake on the concentrate successfully removed gangue minerals to achieve a very encouraging total carbon grade of 98.9%
- Further test work is to be focused on maximisation of graphite grain size and purity

The Company announced on 24 July 2019 the results of preliminary metallurgical test work undertaken by Brisbane Met Labs P/L (BML) on graphite recovery from graphite mineralised drill core from the Golden Gate Graphite Project.

As previously announced (ASX: 7 February 2018 "Thick Intervals Graphite Mineralisation Intersected at Golden Gate Project, Qld") two diamond drill holes returned the following results;

- GGDDH 1701: 62.7m (29.3 to 92.0m) @ 6.79% GC* at a cut-off of 3.4% GC*
- GGDDH 1702: 53.9m (69.1 to 123.0m) @ 6.79% GC* at a cut-off of 3.1% GC*

GC* = graphitic carbon

Petrological examination on samples of the graphite mineralisation from both holes (as announced ASX: 12 April 2018: "Jumbo and Large Flake Graphite Identified at Golden Gate") identified the presence of significant graphite flake sizes of 0.05 to 0.50mm, with an average of around 0.25mm. While this was encouraging, it is noted that the petrological work was undertaken on small core samples mainly selected to investigate specific textural features and minerals present and as such these are not necessarily representative of the overall graphite mineralisation.

In view of this, it was decided to undertake metallurgical test work on the graphite mineralisation to determine if high recovery of graphite into a floatation concentrate could be achieved which could then be economically upgraded to a graphite product of >95% GC*.

For the test work, a composite sample (minus 3.35mm grain size), grading 8.2% total carbon from 29.3 to 45.0m depth in hole GGDDH 1701, was prepared. This represents the top 15.7m of the graphite intersection in that hole, which would perhaps approximate the first two to three benches of an open cut mining operation.

The test work was contracted out to **Brisbane Met Labs P/L (BML)**. As total carbon assays in this style of mineralisation closely approximate graphitic carbon assays (essentially within normally expected assay error levels), only total carbon assays have been determined in the test work to minimise laboratory costs that are significantly higher for determining graphitic carbon values. Bench scale graphite concentration floatation test work was undertaken using standard floatation reagents (kerosene and MIBC) on pulverised splits of the composite sample at various grain sizes.

The following table summarises the work conducted, and the results obtained. The ensuing discussion is a summary extracted from BML's report.

FLOAT TEST ID	GRIND SIZE	PURPOSE	
Float 1	As received minus 3.35mm	Assess coarse graphite float	
Float 2	80% passing 300 microns	Assess a less coarse grind	
Float 3	80% passing 106 microns	Assess medium grind size	
Float 4	80% passing <20 microns	Assess ultra fine grind size	
Float 5	80% passing 56 microns	Assess intermediate size	
Float 6	80% passing 56 microns	Provide feed to cleaner test	
Float 7	80% passing 56 microns	Provide feed for caustic bake	

Encouragement was generated from flotation of a 58 micron sample (Float 6) from which a graphite recovery of 94% was reported into a rougher concentrate. Another nominal 56 micron grain size (P80/56) sample was prepared from the composite sample and subjected to floatation testing. This resulted in recovery of 96% of the graphite to a rougher concentrate at a total carbon grade of 16.9%, with 56% of the sample mass rejected as gangue. When the rougher concentrate was subjected to a two-stage caustic bake, a very encouraging total carbon product grade of 98.9% was achieved. This indicates that the caustic bake has been successful in removing the gangue contaminants (mainly phyllosilicates and other silicates).

Based on the objectives of the Company and the results as outlined in the BML report, recommendations for follow-up test work are as follows;

- Optimisation of the floatation work trying varying concentrations of the floatation reagents used (kerosene and MIBC) or introducing sodium silicate or some other dispersant to improve the rejection of gangue.
- Optimisation of grind size for achieving maximum graphite flake size.
- Optimisation of the caustic bake purification step

CORPORATE

\$A250,000 loan facility with Freefire

On the 1 July 2019 the Company announced that it executed a new loan agreement for \$250,000. The funding provided by way of a loan facility from Company's major shareholder, Freefire Technology Ltd ("Freefire").

The Company plans to use the funds to further develop the High Grade Zone ("HGZ") at the Crater Mountain Project in Papua New Guinea. The loan will also provide working capital to continue mining operations.

Key terms of the loan facility include an interest rate of 8% p.a. with the repayment of the facility on demand from the lender.

\$A2,000,000 loan facility with Freefire

On the 17 July 2019 the Company announced a \$2,000,000 loan facility to provide funding to allow the ongoing development of the High Grade Zone at the Crater Mountain Project in PNG and general working capital. The funding will be provided by way of an unsecured loan facility from Company's major shareholder, Freefire Technology Ltd ("Freefire").

Key terms of the loan facility include: - \$300,000 draw-down available at the option of Crater Gold. The balance is available upon agreement of Freefire with the request from the Company. - Repayable one year from date of first draw-down unless agreed otherwise in advance, and an applicable interest rate of 8% p.a.

COMPETENT PERSONS STATEMENT

The information contained in this report relating to exploration activities at the Crater Mountain Gold Project is based on and fairly represents information and supporting documentation prepared by appropriately qualified company personnel and reviewed by Ken Chapple, who is an Associate Member of The Australasian Institute of Mining and Metallurgy and a Fellow of the Australian Institute of Geoscientists. Mr Chapple has sufficient experience relevant to the style of mineralisation and type of deposit involved to qualify as a Competent Person as defined in the 2012 JORC Code. Mr Chapple is an independent principal geological consultant with KCICD Pty Ltd and consents to the inclusion in the report of matters based on his information in the form and context in which it appears.

Mr Chapple has also relied on independent consultants, Brisbane Met Labs Pty Ltd (BML), who specialise in metallurgical test work and who have submitted to the company a report on results obtained to date. Chris Bucknell, laboratory manager of BML, has consented to the inclusion of this information in the form and in the context in which it appears in this announcement.

The information contained in this report that relates to Exploration Results at the Golden Gate Graphite and the A2 Polymetallic Projects near Croydon, Queensland, is based on information compiled by Ken Chapple, or prepared by appropriately qualified external technical experts and reviewed by him. Mr Chapple is an Associate Member of The Australasian Institute of Mining and Metallurgy and a Fellow of the Australian Institute of Geoscientists. Mr Chapple has been assisting the Company as a technical consultant relating to his areas of expertise. Mr Chapple has sufficient experience relevant to the style of mineralisation and type of deposit involved to qualify as a Competent Person as defined in the 2012 JORC Code. Mr Chapple is an independent principal geological consultant with KCICD Pty Ltd and consents to the inclusion in the report of matters based on his information in the form and context in which it appears.

Forward Looking Statements

This Announcement may contain forward looking statements. The words 'anticipate', 'believe', 'expect', 'project', 'forecast', 'estimate', 'likely', 'intend', 'should', 'could', 'may', 'target', 'plan' and other similar expressions are intended to identify forward-looking statements. Forward-looking statements are subject to risk factors associated with the Company's business, many of which are beyond the control of the Company. It is believed that the expectations reflected in these statements are reasonable at the time made but they may be affected by a variety of variables and changes in underlying assumptions which could cause actual results or trends to differ materially from those expressed or implied in such statements. You should therefore not place undue reliance on forward-looking statements

Schedule of Crater Gold Mining Limited tenements:

Particulars	Project Name	Registered Holder	% Owned	Status	Expiry	Area (Km²)
EPM 8795	Croydon	CGN	100	Granted	6/09/2020	9.6
EPM 13775	Wallabadah	CGN	100	Granted	5/03/2020	16
EPM 16002	Foote Creek	CGN	100	Granted	30/01/2021	28.8
EPM 18616	Black Mountain	CGN	100	Granted	18/06/2020	57.6
EL 1115	Crater Mountain	Anomaly Ltd 1	100	Renewal lodged	25/09/2018	41
EL 2203	Ubaigubi	Anomaly Ltd 1	100	Renewal lodged	10/09/2017	88
EL 2249	Crater Mountain	Anomaly Ltd 1	100	Renewal lodged	10/11/2017	10
EL 2318	South Crater	Anomaly Ltd 1	100	Renewal lodged	10/09/2017	20
EL 2334	Crater Mountain	Anomaly Ltd 1	100	Renewal lodged	21/05/2017	68
EL 2335	Crater Mountain	Anomaly Ltd 1	100	Renewal lodged	22/05/2017	78
ML 510	Crater Mountain	Anomaly Ltd 1	100	Granted	4/11/2019	1.58

¹ Anomaly Limited is CGN's 100% owned PNG subsidiary