

Newcrest Mining Limited - Quarterly Exploration Report - 30 June 2023

25.07.2023 | [Newsfile](#)

Drilling results demonstrate further upside at Red Chris and Brucejack

Melbourne, July 24, 2023 - At Red Chris, drilling has intersected a new higher-grade zone of mineralisation east of the East Ridge Exploration Target (Far East Ridge) which has the potential to become the fifth porphyry centre along the Red Chris porphyry corridor.

- At Far East Ridge (outside of the previously released East Ridge Exploration Target) drilling of hole RC876 returned 274m @ 0.67g/t Au & 0.45% Cu from 998m including 42m @ 1.5g/t Au & 1.1% Cu from 1,080m, 14m @ 1.7g/t Au & 0.63% Cu from 1,144m and 26m @ 1.1g/t Au & 0.5% Cu from 1,170m. Mineralisation remains open to the east and at depth.
- Drilling within the East Ridge Exploration Target has also successfully confirmed continuity of the higher-grade mineralisation across the vertical extent of the deposit with a partial intercept in RC875# returning 406m @ 1.1g/t Au & 1.0% Cu from 486m**, including 248m @ 1.6g/t Au & 1.4% Cu from 644m**.

At Brucejack, growth drilling continues to intersect significant mineralisation outside of the Valley of the Kings (VOK) current Mineral Resource.

- Drilling during the quarter has extended the HBX domain by approximately 200m to the east. The HBX domain now has dimensions of 350m x 300m x 250m and remains open to the west and at depth, outside of the current Premium published Mineral Resource estimate. Results from the quarter include VU-5145 returning 38.5m @ 49g/t Au from 48m, including 1m @ 1,735g/t Au from 63.75m.
- The surface exploration program commenced during the quarter to test the potential of the VOK deposit beyond the limits of current underground development, with three drill rigs targeting opportunities around the VOK. Drilling is currently in progress at Flow Dome Zone and Bridge Zone.

At Havieron, all growth related drilling activities were completed in May 2023.

In the Western USA Newcrest (ASX: NCM) (TSX: NCM) (PNGX: NCM) has entered into an additional option and earn-in agreement with Headwater Gold Inc (Headwater Gold) to acquire up to a 75% interest in the Lodestar project located in Nevada, USA, north of the Spring Peak project. This has significantly expanded Newcrest's high grade epithermal search space in the highly prospective Aurora district. In addition, as part of Newcrest's strategy of gaining exposure to quality copper assets within Tier 1 jurisdictions, Newcrest also acquired a 9.5% strategic equity interest in [Metallic Minerals Corp.](#) which owns the La Plata Copper exploration project located in Colorado, USA.

Newcrest Interim Chief Executive Officer, Sherry Duhe, said, "The June quarter delivered another set of excellent exploration results across our global exploration portfolio.

"At Red Chris, we are exploring potential extensions to the Red Chris porphyry corridor and it was pleasing to deliver some impressive drilling results beyond the East Ridge Exploration Target, highlighting the potential for a fifth porphyry centre. Growth drilling at Brucejack also delivered some exciting results, with the potential for further brownfields growth in several targets outside the Valley of the Kings current resource.

"We also continued to expand our global exploration footprint with another emerging project in the Western

USA added to our portfolio during the quarter.

"We have demonstrated considerable exploration success across our portfolio in FY23 and remain well positioned to leverage our exploration capabilities and high-quality exploration pipeline into the future," said Ms Duhe.

drilling in progress, **partial intercept, assays pending

Red Chris, British Columbia, Canada⁽¹⁾

Red Chris is a joint venture between Newcrest (70%) and Imperial Metals Corporation (30%) and is operated by Newcrest.

The Brownfield Exploration program is focused on the discovery of additional zones of higher-grade mineralisation within the Red Chris porphyry corridor, including targets outside of Newcrest's Mineral Resource estimate. During the quarter, there were up to four diamond drill rigs in operation. A further 6,947m of drilling has been completed during the quarter from 11 drill holes, with all drill holes intersecting mineralisation. This contributed to a total of 317,632m of drilling from 312 drill holes since Newcrest acquired its interest in the joint venture in August 2019.

At East Ridge, located adjacent to the East Zone, 85 holes have now been completed. Assay results were received for 8 holes during the quarter, with assay results from 1 hole pending. The drilling was undertaken on a nominal 100m x 100m grid to determine the footprint, understand the mineralisation, geotechnical and geometallurgical characteristics and to determine the extent of continuity of the higher-grade mineralisation. Drilling to date has tested a corridor 1,000m long, 450m wide and to a vertical extent of 1,000m where zones of higher-grade mineralisation have been identified. Mineralisation remains open at depth and to the east.

An updated Exploration Target has been estimated for East Ridge (previously reported²), with ranges from a lower case of approximately 400Mt @ 0.42g/t Au & 0.49% Cu for 5.4Moz Au & 1.9Mt Cu to an upper case of approximately 500Mt @ 0.39g/t Au & 0.47% Cu for 6.1Moz Au & 2.3Mt Cu. The updated Exploration Target is exclusive of the current published Mineral Resource and relates to the portion of the deposit that has not yet been adequately drill tested. The potential quantity and grade of the Exploration Target is conceptual in nature. There has been insufficient exploration to estimate a Mineral Resource and it is uncertain if further exploration will result in the estimation of a Mineral Resource.

The grades and tonnages are estimates based on continuity of mineralisation defined by exploration diamond drilling results (previously reported including relevant sections and plans) within the Redstock Intrusive with the lower range estimate in the area with a nominal drill hole spacing of 100m x 100m and the upper range estimate extended into the area with a nominal drill hole spacing of 100m x 200m.

East Ridge is outside of Newcrest's published Red Chris Mineral Resource estimate. Geotechnical and metallurgical studies are currently in progress with the aim to deliver an updated Red Chris Mineral Resource estimate including East Ridge in calendar year 2023³.

A series of three diamond holes drilling from south to north, the opposite direction to most of the drilling to date has commenced. The aim of the drilling is to confirm the continuity of the mineralisation and test for any bias from the original drill orientation. The results from the first hole RC875# returned a partial intercept 406m** @ 1.1g/t Au & 1.0% Cu from 486m, including 248m** @ 1.6g/t Au & 1.4% Cu from 644m. This result successfully confirms the continuity of the higher-grade mineralisation across the vertical extent of the deposit. The program will recommence in the upcoming winter, when access conditions improve, subject to no further unforeseen delays.

Ongoing drilling east of the East Ridge Exploration Target has returned another significant higher-grade intercept, 100m east of RC860 (reported last quarter) with RC876 returning 274m @ 0.67g/t Au & 0.45 % Cu from 998m including 42m @ 1.5g/t Au & 1.1% Cu from 1,080m, 14m @ 1.7g/t Au & 0.63% Cu from 1,144m and 26m @ 1.1g/t Au & 0.5% Cu 1,170m. This intersection located approximately 200m east of the Exploration Target, demonstrates the prospectivity of this area for further discoveries. This new discovery, at

Far East Ridge, has the potential to become the fifth porphyry centre along the Red Chris porphyry corridor. Follow up drilling is planned for calendar year 2024³.

A regional exploration program commenced during the quarter, with a program of geological mapping, geochemical sampling and drilling, testing targets generated from the application of the knowledge gained from the Red Chris discoveries. Several high priority porphyry copper-gold targets across the 750km² of claims (previously reported) demonstrate the prospectivity of this region. Approximately 4,000m of growth-related drilling targeting higher-grade mineralisation within the Red Chris porphyry corridor at Far West and Gully Zone is planned for the September 2023 quarter utilising one drill rig³.

Refer to Appendix 1 for additional information, and the drill hole data table for all results reported during the period.

Figure 1. Schematic plan view map of the Red Chris porphyry corridor spanning Far East Ridge, East Ridge, East Zone and Main Zone showing significant Newcrest intercepts (drill intercepts have been reported in Appendix 2 of this report), 0.3g/t Au, 1g/t Au, 0.3% Cu and 1% Cu shell projections generated from a Leapfrog™ model.

To view an enhanced version of this graphic, please visit:

https://images.newsfilecorp.com/files/7614/174730_6751d549f4e65813_003full.jpg

Figure 2. Long section view (looking North West) of the Red Chris porphyry corridor showing drill hole locations, gold distribution and Exploration Target (previously released).

To view an enhanced version of this graphic, please visit:

https://images.newsfilecorp.com/files/7614/174730_6751d549f4e65813_004full.jpg

Brucejack, British Columbia, Canada⁽⁴⁾

The Brucejack Property hosts the Valley of the Kings (VOK) high grade gold deposit. The VOK is characterised by multiple occurrences of higher-grade mineralisation over selected intervals hosted within broader zones of stockwork and vein arrays. Growth activities are focused on both resource expansion within the existing mine area, as well as brownfields exploration activities within 4km of the mine area. Underground resource expansion drilling during the quarter was focused on targets in the Bridge Zone and Deep VOK. A total of 17,595m was completed in 52 drill holes using two underground diamond drill rigs. Assay results were received for three drill fans completed in Eastern Promises during the March 2023 quarter. All other assays are pending.

Assays results have been received for 5 of the 6 drill fans testing the Eastern Promises target and HBX Domain. Results from the HBX Domain have extended this zone by an additional 210m to the east and confirm the continuity of the higher-grade mineralisation. Mineralisation within the HBX Domain encompassing both 1080 HBX (previously reported) and Eastern Promises now has a footprint of 350m x 300m x 250m. This represents a highly prospective area for potential resource growth at the VOK. Highlights from the drilling include:

- VU-5144
 - o 13.9m @ 36g/t Au from 61.5m
 - o Including 1m @ 434g/t Au from 74.4m
- VU-5145
 - o 38.5m @ 49g/t Au from 48m
 - o including 1m @ 1,735g/t Au from 63.75m

A surface exploration program at Brucejack commenced during the quarter, with approximately 23,500m of drilling planned to test the potential of the VOK deposit in multiple areas beyond the limits of current

underground development, including:

- Flow Dome Zone, located 200m east of Eastern Promises, testing what is interpreted as the extension to the HBX Domain, east of the VOK;
- Bridge Zone, located approximately 400m south of the VOK;
- West VOK and Lookout Zone, both located west of the VOK on the west side of the Brucejack Fault; and
- Gossan Hill to Golden Marmot, multiple targets along the 4km epithermal corridor north of the VOK.

These areas are future targets of potential resource growth at the VOK. All assays are pending.

Refer to Appendix 2 for additional information, and the drill hole data table for all results reported during the period.

Figure 3. Plan view map of the Brucejack Property, spanning the 4km gossanous trend from Golden Marmot and Hanging Glacier in the northwest to Bridge Zone in the southeast.

To view an enhanced version of this graphic, please visit:

https://images.newsfilecorp.com/files/7614/174730_6751d549f4e65813_005full.jpg

Figure 4. Long section view (looking west) of the Brucejack Property. Refer to figure 3 for the location of the cross section. Viewing window is +/- 100 meters.

To view an enhanced version of this graphic, please visit:

https://images.newsfilecorp.com/files/7614/174730_6751d549f4e65813_006full.jpg

Figure 5. Plan map of the 1080 Level showing the HBX Domain intersected in the Eastern Promises drilling. Viewing window is +/- 30 meters.

To view an enhanced version of this graphic, please visit:

https://images.newsfilecorp.com/files/7614/174730_6751d549f4e65813_007full.jpg

Havieron Project, Western Australia, Australia⁽⁵⁾

The Havieron Project is operated by Newcrest under a Joint Venture Agreement (JVA) with Greatland Gold Plc (Greatland). Newcrest is the manager and holds a 70% interest in the Havieron Project (Greatland holds a 30% interest). The JVA includes tolling principles reflecting the intention of the parties that, subject to a successful exploration program, Feasibility Study and a positive decision to mine, the resulting joint venture mineralised material will be processed at Telfer.

The Havieron Project is centred on a deep magnetic anomaly located 45km east of Telfer in the Paterson Province. The deposit is overlain by more than 420m of post mineral Permian cover. The Joint Venture commenced drilling during the June 2019 quarter and has completed 303,200m of drilling from 341 drill holes to date (excluding holes in progress, abandoned holes, or drill holes which have not been sampled).

Drilling activities in the quarter have produced a further 4,772m of drilling from 6 holes with up to three drill rigs operating during the quarter. All drilling activities were completed in May 2023. This includes 5 infill drill holes within the current Crescent Inferred Resource which are not included in this report. New assay results are reported from 2 drill holes, (1 hole has assays pending from the previous quarter). Of the reported holes, HAD152W6 returned a broad low-grade intercept of 79m @ 0.60g/t Au and 0.05% Cu from 1,501m testing

for extensions of the SE Crescent Zone ~100 northwest of the current Mineral Resource. Additionally, HAD173 a step out hole testing a geophysical target ~600m to the SE of the Havieron system returned no significant assays.

Refer to Appendix 3 for additional information and drill hole data table for all results reported during the period.

Figure 6. Plan view schematic of a horizontal slice at 3900mRL through the Crescent Sulphide Zone and Breccia-hosted Zones, showing the extents of the 0.5 and 1.0 g/t Au Leapfrog™ grade shells with highlighted newly reported intercepts for this period. This diagram highlights >50 gram metres intersections drilled during the period, refer to inset diagram for relationship to all Havieron drilling.

To view an enhanced version of this graphic, please visit:

https://images.newsfilecorp.com/files/7614/174730_6751d549f4e65813_008full.jpg

Western USA

Within Western USA, the exploration strategy is focused on discovering high grade epithermal gold deposits and gaining exposure to high quality copper assets. As part of this strategy, during the quarter Newcrest entered into an additional option and earn-in agreement with Headwater Gold to acquire up to a 75% interest in the Lodestar project located in Nevada, USA, north of the Spring Peak project. This has significantly expanded Newcrest's high grade epithermal search space in the highly prospective Aurora district. In addition, Newcrest also acquired a 9.5% strategic equity interest in [Metallic Minerals Corp.](#), which owns the La Plata Copper exploration project located in Colorado, USA. The La Plata project is a district scale opportunity in a Tier 1 jurisdiction with an existing copper resource and open ended high grade intercepts. It is well aligned with Newcrest's strategy of increased copper exposure and plays to its strength in bulk underground mining.

Spring Peak Project, Nevada

Newcrest has an option to acquire up to a 75% interest (previously reported) in the Spring Peak project in Nevada, USA with Headwater Gold. The Spring Peak project is located approximately 35km southwest of Hawthorn, Nevada in the Aurora mining district. Exploration to date has defined a low sulfidation epithermal system over an interpreted area of 2.5km x 1.5km. Initial work focused on the Disco Zone where drilling has intersected high grade gold in multiple holes (previously reported) which has upgraded the project potential.

Drilling is scheduled to commence at Spring Peak in the September 2023 quarter⁶ and will focus on expanding the Disco Zone and to follow up drilling previously conducted at the Opal Ridge target. Target definition work will also be undertaken on the wider Spring Peak property.

Appaloosa Project, Nevada

Newcrest has entered into an option and earn-in agreement (previously reported) with [Gunpoint Exploration Ltd.](#) (Gunpoint) to acquire up to 75% of the Appaloosa property located in Nevada, USA (with an option to acquire the remaining 25% of Appaloosa post the earn-in period). Appaloosa is an underexplored mineralised structural zone situated within Gunpoint's Talapoosa gold-silver project. During 2022, Newcrest undertook target definition work including mapping, geophysics, rock chip and channel sampling that defined multiple drill targets on the property.

Drilling at Appaloosa began in April 2023 with an initial focus on surface geochemical and geological targets generated during the CY22 field program. To date six holes for 1,900m of diamond drilling has been completed with partial assays returned for all six holes. Drilling at the central target area has returned halo intercepts of gold, silver and pathfinder elements consistent with the peripheral and upper zones of a low sulfidation epithermal gold-silver system. Drilling to discover the more developed parts of the epithermal system is ongoing.

Refer to Appendix 4 for additional information, and the drill hole data table for all results reported during the period.

Australia

Wilki Project, Western Australia

The Wilki Project is an exploration farm-in with Antipa Minerals Limited (Antipa). The project area covers a strategic landholding of ~1,470km² surrounding the Telfer operation and is adjacent to the Havieron Project. Newcrest entered into this exploration farm-in and joint venture agreement with Antipa in March 2020. Newcrest currently also has a 9.9% shareholding in Antipa.

As previously highlighted, Newcrest has elected to proceed to the next stage (Stage 1) of the farm-in agreement following completion of the initial exploration expenditure commitment (A\$6 million). Newcrest has the potential to earn a 51% joint venture interest in the Wilki Project through expenditure of a further A\$10 million by March 2025 during Stage 1. As of 1 July 2022, Newcrest is the manager and operator of the Wilki Project.

Field activities resumed in the quarter, with an airborne geophysical survey (Falcon Gravity) commenced to inform the next stages of target generation field programs, as well as further surface geochemical sampling and reconnaissance drilling programs.

Juri Joint Venture, Western Australia

The Juri Joint Venture is a farm-in and joint venture agreement with Greatland with respect to the Black Hills and Paterson Range East projects, located within the Paterson Province approximately 50km from the Telfer operation and in proximity to the Havieron Project. The joint venture covers an area of approximately 248km². Newcrest currently has a 51% interest in the Juri Joint Venture. Under the terms of the agreement, Newcrest has the potential to earn an additional 24% joint venture interest through expenditure of a further A\$17 million by October 2024.

Field activities during the quarter focused on rehabilitation of prior field programs, ongoing target generation and project review. Newcrest has elected to assume management of the Juri Joint Venture from 1 July 2023.

Mount Coolon Project, Queensland

Newcrest has a farm-in agreement with GBM Resources Ltd (GBM) in relation to the Mount Coolon Project to advance gold exploration in the Drummond Basin in Queensland. The agreement provides the potential for Newcrest to acquire up to a 75% interest in the Mount Coolon Project tenements by spending A\$25 million and completing a series of exploration milestones in a 2-stage farm-in over six years.

Newcrest considers the Drummond Basin to be highly prospective for discovery of new higher-grade gold resources related to known epithermal gold deposits within the Mount Coolon Project area.

During the quarter, field programs, including a ground geophysical (Induced Polarisation) survey, surface geochemical sampling, and review and processing of historic drill core and drill chip samples, were undertaken to inform target assessment and first pass drilling in subsequent periods. A total of over 30 line kilometres of new IP data acquisition, and 2,000 soil samples have been acquired to progress the project. An airborne geophysical survey is planned to commence early in the September 2023 quarter⁷.

Northern Andes

Gamora Project, Ecuador

In southeast Ecuador, 3,247m of diamond core drilling was completed during the June 2023 quarter at the Gamora Project. Newcrest is conducting this work as the operator under an earn-in agreement with Lundin Gold Inc. (Lundin Gold), under which Newcrest can earn up to a 50% interest in eight exploration concessions. The concession areas cover strategic landholdings north and south of Lundin Gold's Fruta del Norte mining operation.

Drilling at Gamora focused on testing priority copper-gold targets in the Mirador copper porphyry district. Results from the drilling are in the process of being received and interpreted.

Appendix 1

Red Chris (70% Newcrest): JORC Table 1 Section 1: Sampling Techniques and Data

Criteria	Commentary
Sampling techniques	Core samples are obtained from core drilling. HQ and NQ diameter 6m run. Core was cut using an automatic core-cutter and half core sequences were not sampled. Core drilling was advanced with HQ3, HQ, NQ3 and NQ diameter.
Drilling techniques	Core from inclined drill holes are oriented on 3, 4.5m or 6m runs using (Reflex ACTIII and Axis Champ Ori). At the end of each run, the bottom of the core is cut off by the driller, which is later transferred to the whole drill core run length when required. Core recovery is systematically recorded from the commencement of each run against driller's depth blocks in each core tray with data recorded in the acQuire system. The data recorded includes the depth, interval of core recovered, and interval of core recovered.
Drill sample recovery	Core recoveries were typically 100%, with isolated zones of lower recovery. Geological logging recorded qualitative descriptions of lithology, alteration, and structure (for all core drilled - 6,947 in 11 holes - all holes intersected key geological features).
Logging	Geotechnical measurements were recorded including Rock Quality Index, solid core recovery and qualitative rock strength measurements. Magnetic susceptibility measurements were recorded every metre. All geological and geotechnical logging was conducted at the Red Chris Mine.
Sub-sampling techniques and sample preparation	Digital data logging was captured, validated and stored in an acQuire system. All drill cores were photographed, prior to cutting and/or sampling them. Sampling, sample preparation and quality control protocols are consistent across all sample types. Core was cut and sampled at the Red Chris Mine core processing facility. Cores were cut in pre numbered calico bags and grouped in wood crates for disposal. Sample sizes typically varied from 5 to 10kg. Sample sizes are considered appropriate for the analysis required. Core samples were freighted by road to the laboratory. Sample preparation was conducted at the independent ISO 9001 certified Veritas Commodities Canada Ltd Laboratory, Vancouver (Bureau Veritas). Samples were crushed to 95% passing 4.75 mm, and the split to obtain up to 1kg of material (1:20) for analysis (e.g. ICP-MS, XRF, etc.). The remaining material (LM2) to produce a pulped product with the minimum standard of 95% passing 4.75 mm.
	Duplicate samples were collected from crush and pulp samples at an acceptable level of variability for the material sampled and style of analysis. Periodic size checks (1:20) for crush and pulp samples and sample numbers recorded in the acQuire database.

Criteria	<p>Commentary</p> <p>Assaying of drill core samples was conducted at Bureau Veritas. Assays were conducted on 100g of sample using a 4-acid digestion followed by ICP-AES/ICP-MS determination. Gold was determined by 50g fire assay with ICP-ES finish (method FA350). Copper, zinc, lead and tin were determined by ICP-ES finish (method FA350). Nickel was determined by Leco (method TC000) and mercury using aqua regia digestion followed by atomic absorption (method AQ200).</p> <p>Sampling and assaying quality control procedures consisted of including certified reference materials (CRMs), coarse residue and pulp duplicates with each batch (at least one of each).</p> <p>Assays of quality control samples were compared with reference samples and verified as acceptable prior to use of data from analysed batches.</p>
Quality of assay data and laboratory tests	<p>Laboratory quality control data, including laboratory standards, blank and duplicate samples, are captured in the acQuire database and assessed for accuracy and precision. Due to the limited extent of the drilling program to date, extended duplicate sample submission has not been undertaken, whereby pulped samples will be submitted to an umpire laboratory for analysis and extensive re-submission programs.</p> <p>Analysis of the available quality control sample assay results indicates that the quality of the assay data is acceptable and precision has been achieved and the database contains no anomalies that suggest manipulation.</p> <p>The assaying techniques and quality control protocols used are considered to be appropriate and used for reporting exploration drilling results.</p> <p>Sampling intervals defined by the geologist are electronically assigned to the core cutting. Corresponding sample numbers matching pre-labelled sample tubes are assigned to the core interval.</p>
Verification of sampling and assaying	<p>All sampling and assay information were stored in a secure acQuire database.</p> <p>Electronically generated sample submission forms providing the sample number, assay value and quality control information are submitted with each submission to the laboratory. Assay results from the laboratory are loaded directly into the acQuire database.</p> <p>Assessment of reported significant assay intervals was verified by assessment of high resolution core photography. The verification of significant assay intervals is completed by company personnel and the Competent Person/Quality Control Manager. No adjustments are made to assay data, and no twinned holes have been found to have mineralisation at various angles.</p> <p>There are no currently known drilling, sampling, recovery, or other issues that affect the accuracy or reliability of the data.</p> <p>Drill collar locations were surveyed using a RTK GPS with GNSS receiver.</p> <p>Drill rig alignment was attained using an electronic azimuth aligner. A total station Downhole survey was collected at 9 to 30m intervals of the drill hole (using a total station (Leica EZ-SHOT and Axis Champ Gyro). At the end of hole, all holes have been surveyed from surface to surface (Reflex EZ-GYRO).</p>
Location of data points	<p>Topographic control is established from PhotoSat topographic data. The terrain topography is generally low relief to flat, with an average elevation of 1,000m above sea level. Gullies are present in the terrain.</p> <p>All collar coordinates are provided in the North American Datum (NAD83). The drill hole spacing ranges from 100 - 200m in lateral extent with a density of 1.5km² at the East Zone, 1.5km² at the Main Zone and 1.5km² at the Gully Zone. A detailed map of the drill hole locations for the East Zone, Main Zone and Gully Zone was released on 31 January 2023.</p>
Data spacing and distribution	<p>No sample compositing is applied to samples.</p>

Criteria

Commentary

Data aggregation methods

Significant assay intercepts are reported as (A) length or equal to 20m, with less than 10m of consecutive intervals exceeding 0.5g/t Au for greater than or equal to 10m, (C) length-weighted averages exceeding 1g/t Au for greater than or equal to 10m, with less than 10m of consecutive internal dilution; (D) length-weighted averages with less than 10m of consecutive internal dilution; and (E) greater than or equal to 10m, with less than 10m of consecutive internal dilution; and (F) intercept calculations.

Relationship between mineralisation widths and intercept lengths

Significant assay intervals reported represent apparent widths to confirm the geological model and true width of significant intercepts.

Diagrams

As provided.

This is the twenty-third release of Exploration Results

have been reported by Newcrest since January 2020.

Balanced reporting

Earlier reporting of exploration programs conducted by Newcrest has been reported. Exploration drilling programs are ongoing and will be reported in subsequent Newcrest releases.

Other substantive exploration data

Nil.

Further work

Further drilling is planned to define the extents of the mineralisation.

Drillhole data⁽¹⁾

Red Chris Project, British Columbia, Canada

Reporting Criteria: Intercepts reported are downhole drill width (not true width) Au >0.1ppm (0.1g/t Au) and minimum 20m downhole width with maximum consecutive internal dilution of 10m. Also highlighted are high grade intervals of Au >0.5ppm (0.5g/t Au), Au >1ppm (1g/t Au), Au >5ppm (5g/t Au), Au >10ppm (10g/t Au) and minimum 10m downhole width with maximum consecutive internal dilution of 10m. Gold and copper grades are reported to two significant figures. Samples are from core drilling which is HQ or NQ in diameter. Core is photographed and logged by the geology team before being cut. Half core HQ and NQ samples are prepared for assay and the remaining material is retained in the core farm for future reference. Each assay batch is submitted with duplicates and standards to monitor laboratory quality. Total depth (end of hole) is rounded to one decimal place for reporting purposes.

Hole ID	Hole Type	Easting (m)	Northing (m)	RL (m)	Total Depth (m)	Azimuth	Dip	From (m)	To (m)	Interval (m)	Au (ppm)
RC864W DD#8239;	453404	6397179	1466	2207.2	146	-56	1600	1686	86	0.17	
								1702	1866	164	0.55
							incl.	1734	1808	74	0.77
							incl.	1826	1850	24	0.57
								1878	1992	114	0.20
								2010	2080	70	0.17
								2092	2128	36	0.12
RC867 DD#8239;	453597	6397100	1424	740.7	148	-61	596	638	42	0.75	
							incl.	596	614	18	1.4
								1480	1722	242	0.47
							incl.	1580	1682	102	0.76
							incl.	1642	1670	28	1.4
							incl.	1706	1720	14	0.78
								1740	1832	92	0.20
							incl.	1748	1760	12	0.53
								1852	1954	102	0.17
RC872 DD#8239;	454180	6397146	1145	1974.6	151	-64	726	758	32	0.24	
								852	874	22	0.14
								1390	1538	148	0.11
RC873 DD#8239;	454320	6397177	1167	1743.0	147	-47				No significant intercepts	
RC874 DD#8239;	454320	6397177	1167	923.7	145	-66	772	792	20	0.16	
RC875# DD#8239;	453660	6396034	1377	866.0	326	-76	256	278	22	0.17	
								392	456	64	0.15
								486	892	406**	1.1

Hole ID	Hole Type	Easting (m)	Northing (m)	RL (m)	Total Depth (m)	Azimuth	Dip	From (m)		To (m)		Interval (m)	Au (ppm)
								incl.	586	602	16		
RC876	DD#8239;	454180	6397146	1145	1116.0	152	-55	998	1272	274	0.67		
								incl.	622	892	270**	1.6	
								incl.	644	892	248**	1.6	
								incl.	1066	1124	58	1.3	
								incl.	1080	1122	42	1.5	
								incl.	1136	1196	60	1.1	
								incl.	1144	1158	14	1.7	
								incl.	1170	1196	26	1.1	
								incl.	1210	1244	34	0.71	
RC878	DD#8239;	453011	6396424	915	1317.2	146	-65	68	94	26	0.29		
								148	310	162	0.22		
								330	372	42	0.15		
								384	440	56	0.14		
								612	636	24	0.60		
								852	890	38	0.18		
								904	1066	162	0.21		
								1272	1314	42	0.27		
												Hole abandoned	
RC880	DD#8239;	453809	6396676	1381	1268.1	147	-51					36	0.10
								866	902			94	0.14
RC882	DD#8239;	450360	6395055	1550	978.6	146	-56					Assays pending	
												Assays pending	
								149	-59			Assays pending	
RC885#	DD#8239;	450417	6395747	1519	164.2#	147	-50					Assays pending	

drilling in progress, **partial intercept, assays pending. ^updated intercept ^^previously reported intercept

Figure 7. Schematic plan view map of East Ridge and Far East Ridge showing drill hole locations (Newcrest & Imperial) and significant Newcrest intercepts (drill intercepts have been reported in Appendix 2 of this report, and in prior Newcrest exploration releases). 0.3 g/t Au, 1 g/t Au, 0.3% Cu and 1% Cu shell projections generated from a Leapfrog™ model.

To view an enhanced version of this graphic, please visit:

https://images.newsfilecorp.com/files/7614/174730_6751d549f4e65813_009full.jpg

Figure 8. Schematic cross section of RC878 (Section Line 31N - as shown on Figure 7) showing Newcrest and Imperial drill holes and Newcrest intercepts (drill intercepts have been reported in Appendix 2 of this report, and in prior Newcrest exploration releases) 0.1 g/t Au, 0.5 g/t Au and 1 g/t Au shell projections generated from Leapfrog™ model. Due to window size (+/- 50m) and section orientation (150˚) hole may appear on multiple sections.

To view an enhanced version of this graphic, please visit:

https://images.newsfilecorp.com/files/7614/174730_6751d549f4e65813_010full.jpg

Figure 9. Schematic cross section of RC875 (Section Line 34N - as shown on Figure 7) showing Newcrest and Imperial drill holes and Newcrest intercepts (drill intercepts have been reported in Appendix 2 of this report, and in prior Newcrest exploration releases) 0.1 g/t Au, 0.5 g/t Au and 1 g/t Au shell projections generated from Leapfrog™ model. Due to window size (+/- 50m) and section orientation (150˚) hole may appear on multiple sections.

To view an enhanced version of this graphic, please visit:

https://images.newsfilecorp.com/files/7614/174730_6751d549f4e65813_011full.jpg

To view an enhanced version of this graphic, please visit:
https://images.newsfilecorp.com/files/7614/174730_6751d549f4e65813_012full.jpg

Figure 10. Schematic cross section of RC864W (Section Line 38N - as shown on Figure 7) showing Newcrest and Imperial drill holes and Newcrest intercepts (drill intercepts have been reported in Appendix 2 of this report, and in prior Newcrest exploration releases) 0.1 g/t Au, 0.5 g/t Au and 1 g/t Au shell projections generated from Leapfrog™ model. Due to window size (+/- 50m) and section orientation (150°) hole may appear on multiple sections.

Figure 11. Schematic cross section of RC867 & RC880 (Section Line 39N - as shown on Figure 7) showing Newcrest and Imperial drill holes and Newcrest intercepts (drill intercepts have been reported in Appendix 2 of this report, and in prior Newcrest exploration releases) 0.1 g/t Au, 0.5 g/t Au and 1 g/t Au shell projections generated from Leapfrog™ model. Due to window size (+/- 50m) and section orientation (150°) hole may appear on multiple sections.

To view an enhanced version of this graphic, please visit:
https://images.newsfilecorp.com/files/7614/174730_6751d549f4e65813_013full.jpg

Figure 12. Schematic cross section of RC872 & RC876 (Section Line 44N - as shown on Figure 7) showing Newcrest and Imperial drill holes and Newcrest intercepts (drill intercepts have been reported in Appendix 2 of this report, and in prior Newcrest exploration releases) 0.1 g/t Au, 0.5 g/t Au and 1 g/t Au shell projections generated from Leapfrog™ model. Due to window size (+/- 50m) and section orientation (150°) hole may appear on multiple sections.

To view an enhanced version of this graphic, please visit:
https://images.newsfilecorp.com/files/7614/174730_6751d549f4e65813_014full.jpg

Figure 13. Schematic cross section of RC874 (Section Line 46N - as shown on Figure 7) showing Newcrest and Imperial drill holes and Newcrest intercepts (drill intercepts have been reported in Appendix 2 of this report, and in prior Newcrest exploration releases) 0.1 g/t Au, 0.5 g/t Au and 1 g/t Au shell projections generated from Leapfrog™ model. Due to window size (+/- 50m) and section orientation (150°) hole may appear on multiple sections.

To view an enhanced version of this graphic, please visit:
https://images.newsfilecorp.com/files/7614/174730_6751d549f4e65813_015full.jpg

Appendix 2

Brucejack (100% Newcrest): JORC Table 1 Section 1: Sampling Techniques and Data

Criteria

Sampling techniques

Commentary

Core samples are obtained from core drilling. NQ and HQ diameter Whole core was sampled at 1.5m intervals except where visible good sample length was shortened to 1.0 or 0.5m.

Criteria	Commentary Core drilling was advanced with NQ and HQ diameter coring config
Drilling techniques	Core from select inclined drill holes are oriented on 3m runs using ACTIII). At the end of each run, the bottom of hole position is marked to the whole drill core run length with a bottom of hole reference line. Core recovery is systematically recorded from the commencement of drilling against driller's depth blocks in each core tray with data recorded in the core log. The core log also records the orientation of the core, the depth provided the depth, interval of core recovered, and interval of core recovered.
Drill sample recovery	Core recoveries were typically 100%, with isolated zones of lower recovery. Geological logging recorded qualitative descriptions of lithology, alteration, structure (for all core drilled - 17,595m).
Logging	Geotechnical measurements were recorded including Rock Quality Index, solid core recovery and qualitative rock strength measurements.
Sub-sampling techniques and sample preparation	All geological and geotechnical logging was conducted at the Brucejack Project office.
Quality of assay data and laboratory tests	Digital data logging was captured, validated and stored in an Acquaintance database, which replaces the previous Geospark database.
	All drill cores were photographed, prior to sampling the core. Sampling, sample preparation and quality control protocols are consistent across all samples.
	Whole core NQ and HQ samples. Whole core samples were collected, pre-numbered sample tags and grouped into shipping bins for disposal and transport. Sample lengths were typically 1.5m, and weights typically 12.5 kg. Sample sizes are considered appropriate for the analysis.
	All drill core samples were freighted by road to the laboratory via haul truck.
	Sample preparation was conducted at the independent ISO 9001 certified Global preparation laboratories including Terrace, Kamloops, Yellowknife, and Yellowknife. Samples were crushed to 90% passing 2 mm, and split to obtain a fine pulverised (using LM2) to produce a pulped product with the minimum of 50g gravimetric overlimit method at 18 ppm).
	Duplicate sample data are available from crush and pulp samples and results show an acceptable level of variability for the material sampled. Assaying of drill core samples was conducted at ALS in North Vancouver using a 4-acid digestion followed by ICP-OES determination. Gold elements were determined by 50g fire assay with atomic absorption finish (minimum 50g gravimetric overlimit method at 18 ppm).
	Sampling and assaying quality control procedures consisted of inclusions (CRMs), coarse residue and pulp duplicates with each batch (at least one of each).
	Assays of quality control samples were compared with reference samples and verified as acceptable prior to formal use of data from analysed batches.
	Laboratory quality duplicates including replicates and preparation duplicates were included in the quality control database and assessed.
	Prepared pulp splits for mineralized samples were sent to MS Analytical for lab check work by comparable Au and ICP methods to ensure agreement is acceptable.
	Analysis of the available quality control sample assay results indicates that the data is consistent and precision has been achieved. The database contains no analytical data that has been manipulated.
	The assaying techniques and quality control protocols used are consistent with industry best practices and are used for reporting exploration drilling results.

Criteria

Verification of sampling and assaying

Location of data points

Data spacing and distribution

Orientation of data in relation to geological structure

Sample security

Audits or reviews

Section 2: Reporting of Exploration Results

Criteria

Mineral tenement and land tenure status

Commentary

Sampling intervals defined by the geologist are electronically assigned to core sampling. Corresponding sample numbers matching pre-labeled interval.

All sampling and assay information were stored in a secure Acquire database.

Sample submission forms providing the sample identification number were sent to the laboratory. Assay results from the laboratory with corresponding sample numbers were stored in the Acquire database.

Assessment of reported significant assay intervals was verified by core and review of high resolution core photography. The verification was completed by company personnel and the Competent Person/Qualified Person.

No adjustments are made to assay data, and no twinned holes have mineralisation at various angles.

There are no currently known drilling, sampling, recovery, or other factors that affect the accuracy or reliability of the data.

All collar coordinates are provided in the North American Datum (NAD83).

Eastern Promises: Underground drill collar locations are marked up with a white paint, and a back site and foresight are provided to enable alignment by the contractor based on the markup and sights, and a TN-14 collar Gauge for drilling. Topographic control is established from 2014 Lidar.

Eastern Promises: Drill hole spacing is 30m laterally. Assays have a vertical resolution of 1m which is insufficient for estimation of a Mineral Resource.

No sample compositing is applied to samples.

Drill holes at Eastern Promises are oriented towards 190 and 165 degrees to the broadly ENE oriented mineralization domains. Drilling intersects which are both hosted in the Eastern Promises Porphyry.

The security of samples is ensured by tracking samples from drill rig to transportation services, and third party laboratories with security procedures.

Drill core was delivered from the drill rig to the Brucejack Core Facility. High resolution core photography and whole core sampling was undertaken.

Sample numbers are obtained from pre-made sample tag books, filed in the database. Sample tags are inserted into labelled plastic bags and bagged sample secured with a zip tie.

Samples were grouped in sequence into rice bags, then placed into boxes for transport offsite. Samples are transported by road to the preparation facility. Verification of sample numbers and identification is conducted by the sample receipt advice issued to Newcrest.

Details of all sample shipments are recorded in a shipment tracking system prior to leaving the Brucejack site. Shipping dates, Hole IDs, sample numbers and sample descriptions are recorded with the dispatch of samples to the laboratory analytical service. The laboratory uses a workorder template of methods and duplicates by which to process samples. Any discrepancies noted during sample login at the laboratory are resolved.

Due to the limited duration of the program, no external audits or reviews were conducted.

Internal verification and audit of Newcrest exploration procedures are conducted by the company.

Mineral tenement and land tenure status

Commentary

Brucejack comprises 346 mineral tenures including four mineral exploration permits and one mineral lease held by [Newcrest Mining Ltd.](#)

All obligations with respect to legislative requirements are in place and standing.

Criteria	Commentary			
Exploration done by other parties	Granduc, Esso, Newhawk, Lacana Mining Corp., and between 1960 and 2010. Pretium Resources acquired the Brucejack Property in the Kings in 2011. North Block and 1080 level were first drilled in 1988 and 2011.			
Geology	The Brucejack Project is located in the Stikine terrane town of Stewart. Early Jurassic sedimentary and volcanic mineralisation. A pervasive quartz-pyrite-sericite alteration mineralisation. Gold mineralisation at Brucejack consists of veins, and veinlets.			
Drill hole information	As provided.			
Data aggregation methods	Significant assay intercepts are reported as length-weighted averages using a cut-off of 1.0 g/t Au and a minimum length of 7.5m, with less than 7.5m of consecutive internal dilution. Also reported are intervals greater than 100g/t Au. Intervals below a cutoff of 1.0g/t Au were not reported as significant results. Gold grades are reported to two significant figures. Samples are from core drilling which is HQ in diameter. Core is photographed and logged by the geology team before being whole core sampled and sent for assay. Each assay batch is submitted with duplicates and standards to monitor laboratory quality.			
Relationship between mineralisation widths and intercept lengths	Significant assay intervals reported represent apparent to confirm the geological model and true width of significant intercepts.			
Diagrams	As provided.			
Balanced reporting	This is the sixth release of Exploration Results for this year. This has been reported by Newcrest since April 2022.			
Other substantive exploration data	Exploration drilling programs are ongoing and further releases will be made by Newcrest.			
Further work	Nil.			
Drillhole data ⁽¹⁾	Follow up drilling is also being planned for the 1020 Hole.			
Brucejack, British Columbia, Canada				
Reporting Criteria: Intervals are reported as length-weighted averages using a cut-off of 1.0 g/t Au and a minimum length of 7.5m, with less than 7.5m of consecutive internal dilution. Also reported are intervals greater than 100g/t Au. Intervals below a cutoff of 1.0g/t Au were not reported as significant results. Gold grades are reported to two significant figures. Samples are from core drilling which is HQ in diameter. Core is photographed and logged by the geology team before being whole core sampled and sent for assay. Each assay batch is submitted with duplicates and standards to monitor laboratory quality.				
Hole ID; Hole Type; Easting (m); Northing (m); RL (m);				
VU-4971	DD	426913	6257940	1089
VU-4972*	DD	426912	6257940	1088
VU-4973*	DD	426912	6257940	1088
VU-4974*	DD	426912	6257940	1087
VU-4975	DD	426912	6257940	1087
VU-4976*	DD	426912	6257940	1086
VU-5140*	DD	426942	6257934	1087
VU-5141*	DD	426942	6257934	1088
VU-5142	DD	426942	6257934	1088
VU-5143	DD	426942	6257934	1089
VU-5144	DD	426942	6257934	1089
incl				

VU-5145	DD	426942	6257934	1090
incl	DD			
VU-5197	DD	426968	6257958	1087
incl				
VU-5198	DD	426968	6257958	1088
VU-5199*	DD	426968	6257958	1088
VU-5200	DD	426968	6257958	1088
VU-5201*	DD	426968	6257958	1089
incl				
incl				
VU-5202	DD	426968	6257958	1090

drilling in progress, **partial intercept, assays pending. ^updated intercept ^^previously reported intercept

*Intercept is located inside the Pretium resource area

Figure 14. Cross section for drill fan 1080_43_2 (location shown on Figure 5) showing all drill holes and significant intercepts. Due to window size (+/- 15m) and section orientation (270˚) holes may appear on multiple sections. *Intercept is located inside the Pretium resource area.

To view an enhanced version of this graphic, please visit:

https://images.newsfilecorp.com/files/7614/174730_6751d549f4e65813_016full.jpg

Figure 15. Cross section for drill fan 1080_45 (location shown on Figure 5) showing all drill holes and significant intercepts. Due to window size (+/- 15m) and section orientation (270˚) holes may appear on multiple sections. *Intercept is located inside the Pretium resource area.

To view an enhanced version of this graphic, please visit:

https://images.newsfilecorp.com/files/7614/174730_6751d549f4e65813_017full.jpg

Figure 16. Cross section for drill fan 1080_46 (as shown on Figure 5) showing all drill holes and significant intercepts. Due to window size (+/- 15m) and section orientation (270˚) holes may appear on multiple sections. *Intercept is located inside the Pretium resource area.

To view an enhanced version of this graphic, please visit:

https://images.newsfilecorp.com/files/7614/174730_6751d549f4e65813_018full.jpg

Appendix 3

Havieron Project (Greatland Gold Plc - Joint Venture Agreement): JORC Table 1
Section 1: Sampling Techniques and Data

Criteria	Commentary
Sampling techniques	Core samples are obtained from core drilling in Proterozoic basement. Core was drilled on a 6m run. Core was cut using an automated core saw into 1m intervals with breaks for major geological changes. Sampling intervals were not sampled.

Criteria	<p>Commentary</p> <p>Permian Paterson Formation cover sequence was drilled using mud rotary drilling. The cover sequence was observed to approximately 420m vertically below surface. Steel casings were run in the cover sequence and a pre-collar was run in the Paterson Formation. Core drilling was advanced from the base of the cover sequence with a diamond bit configuration.</p>
Drilling techniques	<p>Core from inclined drill holes is oriented on 3m and 6m runs using ACTIII). At the end of each run, the bottom of hole position is marked on the surface and the bottom of hole reference line is marked to the whole drill core run length with a bottom of hole reference line. Core recovery is systematically recorded from the commencement of each run against driller's depth blocks in each core tray with data recorded in the acQuire database. This provided the depth, interval of core recovered, and interval of core recovered.</p>
Drill sample recovery	<p>Core recoveries were typically 100%, with isolated zones of lower recovery.</p>
	<p>Cover sequence drilling by the mud-rotary drilling did not yield recoveries greater than 100%.</p> <p>Geological logging recorded qualitative descriptions of lithology, alteration, and structure (for all core drilled - 4,271m for 6 drill holes, all intersecting the Paterson Formation). All geological and geotechnical data was recorded in the acQuire database.</p>
Logging	<p>Geotechnical measurements were recorded including Rock Quality Index, solid core recovery and qualitative rock strength measurements.</p> <p>Magnetic susceptibility measurements were recorded every metre. The magnetic susceptibility interval was determined at site on whole core samples.</p>
	<p>All geological and geotechnical logging was conducted at the Havieron core processing facility. All data was recorded in the acQuire database.</p> <p>Digital data logging was captured on diamond drill core intervals on site and recorded in the acQuire database.</p>
	<p>All drill cores were photographed, prior to cutting and/or sampling to support geological and geotechnical logging. The logging is of sufficient quality to support Mineral Resource estimation.</p> <p>Sampling, sample preparation and quality control protocols are conducted at the Havieron core processing facility. All data was recorded in the acQuire database.</p>
Sub-sampling techniques and sample preparation	<p>Sampling, sample preparation and quality control protocols are conducted at the Havieron core processing facility. All data was recorded in the acQuire database.</p> <p>Core was cut and sampled at the Havieron core processing facility. Cores 2.0 m were collected in pre-numbered calico bags and grouped in sample sets. Sample weights typically varied from 0.5 to 8kg. Sample sizes are determined by mineralisation. Drill core samples were freighted by air and road to the independent laboratory.</p> <p>Sample preparation was conducted at the independent ISO17025 accredited laboratory (Intertek). Samples were dried at 105°C, and crushed to 95% passing 106µm. A 3kg sub-sample, which was pulverised (using LM5) to produce a powder of 95% passing 106µm. Routine grind size analysis is conducted on the powder.</p>
	<p>Duplicate samples were collected from crush and pulp samples at an acceptable level of variability for the material sampled and style of sample preparation.</p> <p>Periodic size checks (1:20) for crush and pulp samples and sample sets are conducted at the Havieron core processing facility and recorded in the acQuire database.</p>

Criteria	<p>Commentary</p> <p>Assaying of drill core samples was conducted at Intertek. All samples were acid digested followed by ICP-AES/ICP-MS determination (methane) to provide a total assay for copper. Gold analyses were determined by FA50N/AA, which is considered to provide a total assay for gold.</p> <p>Sampling and assaying quality control procedures consisted of including (CRMs), coarse residue and pulp duplicates with each batch (at least one of each).</p> <p>Assays of quality control samples were compared with reference standards to determine acceptability prior to use of data from analysed batches.</p>
Quality of assay data and laboratory tests	<p>Laboratory quality control data, including laboratory standards, blank and duplicate samples, are captured in the acQuire database and assessed for acceptability.</p> <p>Extended quality control programs including pulp samples submitted with more extensive re-submission programs have been completed.</p> <p>Analysis of the available quality control sample assay results indicates that acceptable precision has been achieved and the database contains no anomalous data that has been manipulated.</p> <p>The assaying techniques and quality control protocols used are consistent with industry best practices and are used for reporting exploration drilling results.</p> <p>Sampling intervals defined by the geologist are electronically assigned to the core cutting. Corresponding sample numbers matching pre-labelled sample tubes are assigned to each core interval.</p> <p>All sampling and assay information were stored in a secure acQuire database.</p>
Verification of sampling and assaying	<p>Electronically generated sample submission forms providing the sample ID, assay number, and assay value are generated for each submission to the laboratory. Assay results from the laboratory are loaded directly into the acQuire database.</p> <p>Assessment of reported significant assay intervals was verified by comparison with the assay data and assessment of high resolution core photography. The verification process is completed by company personnel and the Competent Person/Qualified Person.</p> <p>No adjustments are made to assay data, and no twinned holes have been identified.</p> <p>There are no currently known drilling, sampling, recovery, or other issues that affect the accuracy or reliability of the data.</p> <p>Drill collar locations were surveyed using a differential GPS with Global Positioning System (GPS) and all drill holes reported.</p>
Location of data points	<p>Drill rig alignment was attained using an electronic azimuth aligner to align the rig to the survey lines. Drill hole locations are surveyed every 10m in the cover sequence, and every 6 to 30m in diamond drill holes. Single shot surveys are conducted using a single shot (Axis Mining Champ Gyro). The single shot surveys have been converted to surface (Axis Mining Champ) along with a selection of drill holes using a DeviGyro tool - confirming sufficient accuracy for the survey.</p> <p>A LIDAR survey was completed over the project area in Nov 2019 to create a topographic model for the project with a spatial accuracy of +/- 0.1m. The topography is generally low relief to flat, elevation within the dune area is generally low, ranging from 100m to 200m above Australian Height Datum (AHD) steepening to the southeast. All coordinates are in the Geocentric Datum of Australian (GDA20 Zone 51). All relative depth measurements are in metres above sea level. Within the South-East Crescent and Breccia zone drill hole spacing is approximately 100m to 200m within the resource extents. Outside the initial resource boundary the spacing is approximately 200m to 300m in lateral extent within the breccia zone over an area of ~2km². The survey has a high degree of geological and grade continuity.</p>
Data spacing and distribution	<p>Significant assay intercepts remain open. Further drilling is required to delineate the defined mineralisation. No sample compositing is applied to samples.</p> <p>Drilling intersects mineralisation at various angles.</p>

Criteria	Commentary
Orientation of data in relation to geological structure	<p>Drill holes exploring the extents of the Havieron mineral system in siliciclastic sedimentary facies, mineralised breccia and sub-vertical has been interpreted from historic and Newcrest drill holes.</p> <p>Variable brecciation, alteration and sulphide mineralisation is observed 650m x 350m trending in a north west orientation and over 1000m.</p> <p>The subvertical southeast high grade arcuate crescent sulphide zone has been defined over a strike length of up to 550m, and extended cover.</p> <p>Drilling direction is oriented to intersect the steeply dipping high grade intersection angle of greater than 40 degrees. The drilled length of than true width of mineralisation.</p> <p>The security of samples is controlled by tracking samples from drill core.</p>
Sample security	<p>Drill core was delivered from the drill rig to the Havieron core yard and geotechnical logging, core processing was completed by Newcrest. High resolution core photography and cutting of drill core was undertaken at the core yard facilities.</p> <p>Samples were freighted in sealed bags by air and road to the Laboratory and geotechnical logging, core processing was completed by Newcrest. High resolution core photography and cutting of drill core was undertaken at the core yard facilities.</p> <p>Verification of sample numbers and identification is conducted by the Laboratory and geotechnical logging, core processing was completed by Newcrest. High resolution core photography and cutting of drill core was undertaken at the core yard facilities.</p>
Audits or reviews	<p>Details of all sample movement are recorded in a database table. Details of analytical suite requested are recorded with the dispatch of sample. Discrepancies logged at the receipt of samples into the analytical suite. Internal reviews of core handling, sample preparation and assays are conducted on a regular basis by both project personnel and owner representatives.</p> <p>In the Competent Person's opinion, the sample preparation, security and reporting of results are consistent with current industry standards and are entirely appropriate for the mineralisation identified and will be appropriate for use in the reporting of Resource estimates. There are no identified drilling, sampling or reporting issues with respect to the adequacy and reliability of the results of the drilling programme in place.</p>

Section 2: Reporting of Exploration Results

Criteria	Commentary
Mineral tenement and land tenure status	<p>The Havieron Project is entirely contained within mining lease M45/1287, held by Greatland Pty Ltd and Newcrest Operations Limited. The lease was granted (effective 30 November 2020) and Farm-In Agreement was signed with Greatland Gold plc. Newcrest is the manager of the Havieron Project (Greatland Gold holds a 30% interest).</p> <p>Newcrest and Jamukurnu-Yapalikurnu Aboriginal Corporation have entered into an Indigenous Land Use Agreement (ILUA) which relates to the use of native title land for Newcrest's exploration activities. The ILUA covers a 60km radius around Telfer and includes its exploration and mining tenement (held by Newcrest and Greatland Gold) at Havieron.</p>
Exploration done by other parties	<p>The mining tenement M45/1287 wholly replaces the 100% interest in the exploration tenement on which the Havieron Project was developed prior to 2020.</p> <p>Newcrest completed six core holes in the vicinity of the Telfer area. The completed drill targeting and drilling of nine Reverse Circulation holes for approximately 6,800m in 2018. Results of drilling programme have not been reported on the Greatland Gold website.</p> <p>Drilling has defined an intrusion-related mineral system with sulphide-hosted higher-grade gold-copper mineralisation.</p>

Criteria	Commentary
Geology	Gold and copper mineralisation at Havieron consists of gold and copper mineralisation typical of intrusion-related and epizonal mineralisation hosted by metasedimentary rocks (meta-sandstones, dolomites and metapelites) and rocks of an undetermined age. The main mineral assemblage is pyrite and pyrite sulphide mineral assemblages as breccia and vein mineralisation. This mineralisation event is associated with amphibole-carbonate mineralisation. Drilling has partially defined the extents of mineralisation and the locations of arcuate shaped mineralised zones, and to depths of up to 1500m. As provided.
Drill hole Information	Significant assay intercepts are reported as (A) lengths of mineralisation widths of 10m or greater and/or grade of 0.2g/t Au or greater than or equal to 10m, with a maximum of 5m consecutive intervals, and (B) intervals of >30g/t which are greater than or equal to 30m, and (C) intervals of >30g/t which are greater or equal to 10m and less than 30m. These criteria are applied to intercept calculations.
Data aggregation methods	Significant assay intervals reported represent apparent widths of mineralisation and true widths are less than downhole widths. This is possible when all results are received, and final geological interpretation is completed. As provided.
Relationship between mineralisation widths and intercept lengths	Significant assay intervals reported represent apparent widths of mineralisation and true widths are less than downhole widths. This is possible when all results are received, and final geological interpretation is completed. As provided.
Diagrams	This is the twenty-eighth release of Exploration Results for the Havieron Project. Exploration results have been reported by Newcrest since July 2018.
Balanced reporting	Earlier reporting of exploration programs conducted by Newcrest has been reported. Exploration drilling programs are ongoing and will be reported in subsequent Newcrest releases.
Other substantive exploration data	Nil
Further work	Growth drilling is targeting the extensions of the 30 July 2018 Resource Estimate and to define the limits of the Havieron mineralisation.
Drillhole data ⁽¹⁾	

Havieron Project, Paterson Province, Western Australia

Reporting Criteria: Intercepts reported are downhole drill width (not true width) Au >0.20ppm (0.2g/t Au) and minimum 20m downhole width with maximum consecutive internal dilution of 10m. Average grades are based on length-weighting of samples grades. Also highlighted are high grade intervals of Au >1.0ppm (1g/t Au) and minimum 10m downhole width with maximum consecutive internal dilution of 5m, and intervals of >30g/t which are greater or equal to 30 gram metres (Au_ppm x length) are tabled. Gold and copper grades are reported to two significant figures, the downhole lengths are rounded to 0.1m which may cause some apparent discrepancies in interval widths. Samples are from core drilling which is PQ, HQ or NQ in diameter. Core is photographed and logged by the geology team before being cut. Half core PQ, HQ and NQ samples are prepared for assay and the remaining material is retained in the core farm for future reference. Each assay batch is submitted with duplicates and standards to monitor laboratory quality. Total depth (end of hole) is rounded to one decimal place for reporting purposes. Collars denoted with a * show partial results, with further significant assays to be reported in subsequent exploration updates.

Hole ID	Hole Type	Easting (m)	Northing (m)	RL (m)	Total Depth (m)	Azimuth	Dip	From (m)	To (m)	Interval (m)	Au (ppm)	Cu (ppm)
HAD133W11	DDH	464072	7598317	5257	1588.0	171	-65					
HAD152W6	DDH	463401	7597059	5254	1845.8	33	-64	1501	1580	79	0.60	
								1757	1784	27	0.28	
HAD159W1	DDH	464076	7597251	5260	1322.4	29	-76					
HAD171W3	DDH	463672	7596940	5255	1736.0	26	-62					
HAD172W3	DDH	464463	7598018	5257	1549.0	217	-72					

HAD172W4	DDH	464463	7598018	5257	1552.0	217	-72	Resource Infill Hole
HAD173	MR-DDH	464533	7597145	5260	976.5	104	-64	No Significant Intercepts

drilling in progress, **partial intercept, assays pending. ^updated intercept ^^previously reported intercept, +intercept within published resource

Figure 17. Schematic plan view map showing drill hole locations and significant intercepts reported in this release superimposed on the interpreted geology. Previously reported holes are not shown for the sake of clarity.

To view an enhanced version of this graphic, please visit:

https://images.newsfilecorp.com/files/7614/174730_6751d549f4e65813_019full.jpg

Figure 18. Schematic cross section of geology and significant new drillhole intercepts (looking northwest, Section Line S1, +/-50m section width, as shown in Figure 17). Due to section window size and orientation holes may appear on multiple sections. This diagram highlights >50gram metres intersections drilled during the period. Reported drill holes are outside of the existing resource.

To view an enhanced version of this graphic, please visit:

https://images.newsfilecorp.com/files/7614/174730_6751d549f4e65813_020full.jpg

Appendix 4

Appaloosa (Gunpoint Exploration., Farm-In Agreement): JORC Table 1 Section 1: Sampling Techniques and Data

Criteria	Commentary
Sampling techniques	Core samples are obtained from core drilling. HQ diameter diamond core was used. Halved core was sampled at intervals ranging from 0.30m (1ft) with a diamond saw to 2.0 m (6.561 feet) in areas of minimally altered host rock. Diamond core has been utilised from surface. Core drilling was advanced in a configuration down to on average 50m (164ft) and then with HQ diameter core.
Drilling techniques	Core holes are inclined and core oriented on 3.048m runs using an Inclinometer (ACTIII). At the end of each run, the bottom of hole position is marked with a vertical orientation mark. This orientation mark is then transferred to the entire drill core run length.
Drill sample recovery	The drill rig is aligned with a Reflex TN14 gyrocompass, and down the hole orientation is checked every 100m (100ft) with a Reflex Ez-Gyro. Core recovery is systematically recorded from the commencement of each run against driller's depth blocks in each core tray with data recorded in the core log. This provided the depth, interval of core recovered, and interval of core sample.
Logging	Core recoveries were typically 100%, with isolated zones of lower recovery. Recovery was poor through the mineralised zone. Geological logging recorded qualitative descriptions of lithology, alteration, and structure. Geological logging was conducted at the Appaloosa Project site and in Sparks, Nevada. Digital data logging was captured, validated, and stored in MX Depth solution provided by Sequent Software. All drill core was photographed once sample intervals were established.

Criteria	Commentary
Data spacing and distribution	A total of 7 drillholes have been completed by Newcrest across an insufficient for estimation of a Mineral Resource.
Orientation of data in relation to geological structure	No sample compositing is applied to samples. Six holes have been drilled from four pads to test beneath outcrops the Central Target covering a strike extent of approximately 148 m different inclinations and azimuths to gain geological understanding different originations. The security of samples is ensured by tracking samples from drill rig personnel to transport core and samples, and third-party laboratory
Sample security	Drill core was delivered from the drill rig to the Reno core facility by high resolution core photography, cutting, and sampling is undertaken. Sample numbers are obtained from pre-made sample tag books, filed in the database. Sample tags are inserted into labelled Protexo fabric bagged sample secured with a drawstring.
Audits or reviews	Core samples were placed into dedicated sample shipment bins for samples are transported by truck to the preparation lab where transferred. Verification of sample numbers and identification is conducted by the sample receipt advice issued to Headwater Gold.
Section 2: Reporting of Exploration Results	Details of all sample shipments are recorded in chain of custody documents. Shipping dates, submittal IDs, sample ranges, and special dispatch of samples to the laboratory analytical services. Receiving of methods and duplicates by which to process the samples unless noted during sample login at the laboratory are communicated and Due to the early stage of the exploration program, no external audits are undertaken.
Criteria	Internal reviews of sample handling and preparation are undertaken methods, QAQC procedures, sample intervals, and sample recovery as appropriate.
Mineral tenement and land tenure status	Appaloosa comprises 234 unpatented lode mining claims held through its subsidiary Gunpoint Exploration with an agreement in place whereby American Gold Capital controls an Exploration Farm-In Agreement with Gunpoint, effective 2019. Newcrest is currently in the Option Phase of the project.
Exploration done by other parties	All obligations with respect to legislative requirements are in standing. Duval, Superior Oil, Homestake, Kennecott, Athena Gold, American Gold Capital, Chesapeake Gold, Gunpoint and 2019.
Geology	Newcrest optioned the Appaloosa Property in September 2018 for sampling leading to the current drill program. Previous exploration between 1974 and 1976, and Timberline between 2008 and 2010. The Appaloosa Project is located in the western part of Elko County, Nevada, U.S.A, 45 km east of the town of Reno, NV.
Drill hole information	Gold mineralisation is associated with a low-sulfidation epithermal event in the Talapoosa District. Mineralization is hosted in high-angle shear zones with associated alteration. Mineralized veins occur in Miocene sedimentary rocks.
Data aggregation methods	As provided.
Relationship between mineralisation widths and intercept lengths	Primary intervals are reported using 0.2 g/t Au cut off.
Diagrams	Significant assay intervals reported represent apparent widths and not yet known as the geometry of the mineralisation is not yet known.
	As provided.

Criteria	Commentary
Balanced reporting	This is the first release of Exploration Results for this Exploration drilling programs are ongoing and further Newcrest releases.
Other substantive exploration data	Nil.
Further work	The current drill program is ongoing with further assay
Drillhole data ⁽¹⁾	

Appaloosa, Nevada USA

Reporting Criteria: Intervals are reported as length-weighted averages using a cut-off of 0.2g/t Au and a minimum length of 0.3m, with less than 3m of consecutive internal dilution. Also reported are intervals greater than 1.0g/t Au. Intervals below a cut-off of 0.2g/t Au were not reported as significant results. Gold & Silver grades are reported to two significant figures. Samples are from core drilling which is HQ in diameter. Core is photographed and logged by the geology team before being half-core sampled and sent for assay. Each assay batch is submitted with duplicates and standards to monitor laboratory quality.

Hole ID	Hole Type	Easting (m)	Northing (m)	RL (m)	Total Depth (m)	Azimuth	Dip	From (m)	To (m)	Interval (m)	Au (ppm)	A
APP-0001**	DD	303100	4372308	1916	250	180	-45	103.33	132.3	28.97	0.47	
							Incl.	108.25	109.76	1.51	1.3	
							Incl.	114	115.4	1.4	1.3	
APP-0002**	DD	303100	4372308	1916	310	180	-70	104.62	117	12.38	0.47	
							Incl.	114.4	116	1.6	1.3	
APP-0003**	DD	303100	4372308	1916	275	360	-45	63.3	65.1	1.8	0.32	
							and	133.5	152.5	19	0.41	
							Incl.	151	152.5	1.5	1.0	
APP-0004**	DD	303070	4372485	1944	403	180	-50	168.16	195.1	26.94	0.59	
							Incl.	178.55	183.5	4.95	1.2	
							and	323.6	323.9	0.3	7.9	
							and	336.38	336.9	0.52	1.6	
APP-0005**	DD	303100	4372050	1884	310	360	-45	251	252.5	2.5	0.44	
APP-0006**	DD	302923	4372495	1940	405	180	-75	192	196	4.0	0.35	
							and	212.5	215	2.5	1.9	

drilling in progress, **partial intercept, assays pending. ^updated intercept ^^previously reported intercept

Figure 19. Plan view of the Appaloosa Project illustrating the location of drilling reported in this release along project location, general target areas and the location of Gunpoint's Talapoosa project.

To view an enhanced version of this graphic, please visit:

https://images.newsfilecorp.com/files/7614/174730_6751d549f4e65813_021full.jpg

Figure 20. North-South cross section from the central target area at Appaloosa illustrating the halo intercepts from assays returned to date. Section slice is 250m wide, drillhole APP-0006 is 148m off section (west) from holes APP-0001 to APP-0005, view is to the east. Drillhole locations are provided in Appendix 4.

To view an enhanced version of this graphic, please visit:

https://images.newsfilecorp.com/files/7614/174730_6751d549f4e65813_022full.jpg

Forward Looking Statements

This document includes forward looking statements and forward looking information within the meaning of

securities laws of applicable jurisdictions. Forward looking statements can generally be identified by the use of words such as "may", "will", "expect", "intend", "plan", "estimate", "target", "anticipate", "believe", "continue", "objectives", "outlook" and "guidance", or other similar words and may include, without limitation, statements regarding estimated reserves and resources, internal rates of return, expansion, exploration and development activities and the specifications, targets, results, analyses, interpretations, benefits, costs and timing of them; certain plans, strategies, aspirations and objectives of management, anticipated production, sustainability initiatives, climate scenarios, dates for projects, reports, studies or construction, expected costs, cash flow or production outputs and anticipated productive lives of projects and mines. The Company continues to distinguish between outlook and guidance. Guidance statements relate to the current financial year. Outlook statements relate to years subsequent to the current financial year.

These forward looking statements involve known and unknown risks, uncertainties and other factors that may cause the Company's actual results, performance, and achievements to differ materially from any future results, performance or achievements, or industry results, expressed or implied by these forward looking statements. Relevant factors may include, but are not limited to, changes in commodity prices, foreign exchange fluctuations and general economic conditions, increased costs and demand for production inputs, the speculative nature of exploration and project development, including the risks of obtaining necessary licences and permits and diminishing quantities or grades of resources or reserves, political and social risks, changes to the regulatory framework within which the Company operates or may in the future operate, environmental conditions including extreme weather conditions, recruitment and retention of personnel, industrial relations issues and litigation. For further information as to the risks which may impact on the Company's results and performance, please see the risk factors discussed in the Operating and Financial Review included in the Appendix 4E and Financial Report for the year ended 30 June 2022 and the Annual Information Form dated 14 December 2022 which are available to view at www.asx.com.au under the code "NCM" and on Newcrest's SEDAR profile.

Forward looking statements are based on management's current expectations and reflect Newcrest's good faith assumptions, judgements, estimates and other information available as at the date of this report and/or the date of Newcrest's planning or scenario analysis processes as to the financial, market, regulatory and other relevant environments that will exist and affect Newcrest's business and operations in the future. Newcrest does not give any assurance that the assumptions will prove to be correct. There may be other factors that could cause actual results or events not to be as anticipated, and many events are beyond the reasonable control of Newcrest. Readers are cautioned not to place undue reliance on forward looking statements, particularly in the current economic climate with the significant volatility, uncertainty and disruption caused by global events such as geopolitical tensions and the ongoing COVID19 pandemic. Forward looking statements in this document speak only at the date of issue. Except as required by applicable laws or regulations, Newcrest does not undertake any obligation to publicly update or revise any of the forward looking statements or to advise of any change in assumptions on which any such statement is based.

Ore Reserves and Mineral Resources Reporting Requirements

As an Australian Company with securities listed on the Australian Securities Exchange (ASX), Newcrest is subject to Australian disclosure requirements and standards, including the requirements of the Corporations Act 2001 and the ASX. Investors should note that it is a requirement of the ASX Listing Rules that the reporting of Ore Reserves and Mineral Resources in Australia is in accordance with the 2012 Edition of the Australasian Code for Reporting of Exploration Results, Mineral Resources and Ore Reserves (the JORC Code) and that Newcrest's Ore Reserve and Mineral Resource estimates and reporting comply with the JORC Code.

Newcrest is also subject to certain Canadian disclosure requirements and standards, as a result of its secondary listing on the Toronto Stock Exchange (TSX), including the requirements of National Instrument 43-101 - Standards of Disclosure for Mineral Projects (NI 43-101). Investors should note that it is a requirement of Canadian securities law that the reporting of Mineral Reserves and Mineral Resources in Canada and the disclosure of scientific and technical information concerning a mineral project on a property material to Newcrest comply with NI 43-101.

Newcrest's material properties are currently Cadia, Lihir, Red Chris and Wafi-Golpu. Copies of the NI 43-101 Reports for Cadia, Lihir and Wafi-Golpu, which were released on 14 October 2020, and Red Chris, which was released on 30 November 2021, are available at www.newcrest.com and on Newcrest's SEDAR profile.

Competent Person's Statement

The information in this document that relates to Exploration Targets, Exploration Results, and related scientific and technical information, is based on and fairly represents information compiled by Mr F. MacCorquodale. Mr MacCorquodale is the General Manager - Greenfields Exploration and a full-time employee of [Newcrest Mining Ltd.](#) He is a shareholder in [Newcrest Mining Ltd.](#) and is entitled to participate in Newcrest's executive equity long term incentive plan, details of which are included in Newcrest's 2022 Remuneration Report. He is a Member of the Australian Institute of Geoscientists. Mr MacCorquodale has sufficient experience which is relevant to the styles of mineralisation and types of deposits under consideration and to the activity which he is undertaking to qualify as a Competent Person as defined in the JORC Code and as a Qualified Person under NI 43-101. Mr MacCorquodale approves the disclosure of scientific and technical information contained in this document and consents to the inclusion of material of the matters based on his information in the form and context in which it appears.

Authorised by the Newcrest Disclosure Committee

For further information please contact

Investor Enquiries

Tom Dixon
+61 3 9522 5570
+61 450 541 389
Tom.Dixon@newcrest.com.au

Rebecca Lay
+61 3 9522 5298
+61 438 355 511
Rebecca.Lay@newcrest.com.au

North American Investor Enquiries

Vlada Cvijetinovic
+1 604 335 9202
+1 604 240 2998
Vlada.Cvijetinovic@newcrest.com.au

Media Enquiries

Celina Watt
+61 3 9522 4264
+61 436 677 220
Celina.Watt@newcrest.com.au

This information is available on our website at www.newcrest.com

¹ # drilling in progress ** partial intercept, assays pending ^ updated intercept or ^^ previously reported.

² The Exploration Target as at 6 March 2023 has been extracted from Newcrest's release titled "Red Chris exploration success expands East Ridge Exploration Target delivering additional mining potential" dated 14 March 2023 which is available at www.asx.com.au the code "NCM" and on Newcrest's SEDAR profile.

³ Subject to market and operating conditions and no unforeseen delays

⁴ # drilling in progress ** partial intercept, assays pending ^ updated intercept or ^^ previously reported.

⁵ # drilling in progress ** partial intercept, assays pending ^ updated intercept or ^^ previously reported.

⁶ Subject to market and operating conditions and no unforeseen delays.

⁷ Subject to market and operating conditions and no unforeseen delays.

To view the source version of this press release, please visit <https://www.newsfilecorp.com/release/174730>

Dieser Artikel stammt von [Rohstoff-Welt.de](https://www.rohstoff-welt.de)

Die URL für diesen Artikel lautet:

<https://www.rohstoff-welt.de/news/449096--Newcrest-Mining-Limited---Quarterly-Exploration-Report---30-June-2023.html>

Für den Inhalt des Beitrages ist allein der Autor verantwortlich bzw. die aufgeführte Quelle. Bild- oder Filmrechte liegen beim Autor/Quelle bzw. bei der vom ihm benannten Quelle. Bei Übersetzungen können Fehler nicht ausgeschlossen werden. Der vertretene Standpunkt eines Autors spiegelt generell nicht die Meinung des Webseiten-Betreibers wieder. Mittels der Veröffentlichung will dieser lediglich ein pluralistisches Meinungsbild darstellen. Direkte oder indirekte Aussagen in einem Beitrag stellen keinerlei Aufforderung zum Kauf-/Verkauf von Wertpapieren dar. Wir wehren uns gegen jede Form von Hass, Diskriminierung und Verletzung der Menschenwürde. Beachten Sie bitte auch unsere [AGB/Disclaimer](#)!

Die Reproduktion, Modifikation oder Verwendung der Inhalte ganz oder teilweise ohne schriftliche Genehmigung ist untersagt!
Alle Angaben ohne Gewähr! Copyright © by Rohstoff-Welt.de -1999-2026. Es gelten unsere [AGB](#) und [Datenschutzrichtlinen](#).