

ASX ANNOUNCEMENT 14 October 2022

Wildcat gold find at Comet

Marmota Limited (ASX: MEU) ("Marmota")

Marmota recently reported that a single isolated wildcat hole [ASX:MEU 24 Aug 2022], in the first drilling carried out by *any* company ever on the Comet (West) Tenement EL6084, located south of Aurora Tank [see Fig. 1], intersected gold (1.3 g/t over 4m composite).

Today, Marmota is very pleased to advise assay results from detailed 1m splits.

Importantly, the new detailed assays from 1m splits have:

- (i) confirmed the gold intersection at the wildcat hole on Comet, and
- (ii) substantially increased the grade to 7.7 g/t over 1m (at 47m from surface)

Accelerated Discovery Initiative (ADI) Program on Comet

- First drilling ever (apparently by anyone) on the Comet (West) tenement EL 6084.
- 7 reconnaissance holes were drilled on Comet as part of ADI program in June 2022.
- Potential for a new discovery
- Hidden at surface: no gold-in-calcrete expression of gold at surface

Marmota drilled 7 reconnaissance holes on the Comet (West) tenement [see the blue dots • in Fig. 1]. These were the first 7 holes ever drilled on the tenement shown in Fig. 1. One of the holes [Hole 22ADIRC017] intersected significant gold at 47m downhole, returning 7.7 g/t gold over 1m.

The hole is located *en échelon* with the Aurora Tank gold discovery and the Mars gold deposit to the NE [see Fig. 1]. The same hole is also highly anomalous in REE (Rare Earth Elements) [ASX:MEU 24 Aug 2022]. For a first pass drill program, with no gold-in-calcrete anomaly at surface, and with just 7 holes on a new tenement, it appears as an extremely promising start.

Table 1 Comet EL 6084 Reconnaissance RC Drilling: June 2022
Significant 1m Gold Intersections > 1 g/t Au

Hole ID	Easting	Northing	DIP	AZM	ЕОН	Depth From (m)	Depth To (m)	Intercept Width (m)	Au g/t
22ADIRC017	410,396	6,705,209	-90	0	72m	47	48	1 m	7.7

ADI Program

The above exploration work is jointly funded by the SA Government under a \$225,000 grant awarded to Marmota under the *Accelerated Discovery Initiative* (ADI) [ASX:MEU 24 June 2020, 23 June 2022]. The program involved a small number of holes drilled on two tenements located to the south of Marmota's Aurora Tank gold discovery (Woorong Downs and Comet). As far as Marmota is aware, this program included the first ever exploration drilling by any company on the Comet (West) Tenement (EL6084) located south of Aurora Tank [Fig. 1].

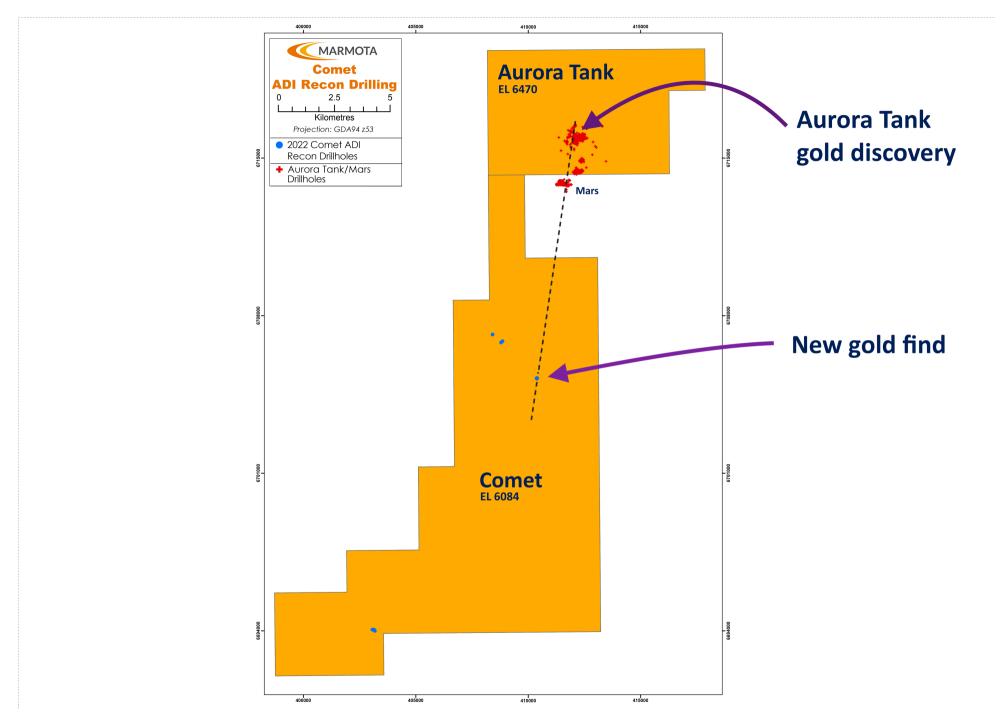


Figure 1: New gold find in line with Aurora Tank gold discovery and Mars deposit

Comment

Marmota Chairman, Dr Colin Rose, said:

"This is a highly unusual, intriguing and exciting outcome for a recon program.

To put this in context, the usual path to finding gold is to start with some surface expression of gold (e.g. calcrete sampling) that then guides drilling.

Here, by contrast, there is no expression of gold in the surface calcrete sampling.

Finding significant gold over 5 g/t on a single hole in the middle of nowhere, without surface expressions or other guiders ... is probabilistically like finding a needle in a haystack. Gold has now been confirmed in the 4m composite, in repeat samples and in the separate detailed 1m splits. There is no doubt that there is significant gold in the sample. More intriguingly, it is located on the same trend line as the Aurora Tank gold discovery and the Mars gold deposit 10km to the NE, with the ground on Comet inbetween never tested or drilled.

Marmota intends to carry out a follow-up program as a priority at Comet, **commencing** in early November, when the area re-opens following a Woomera Defence Closure. "

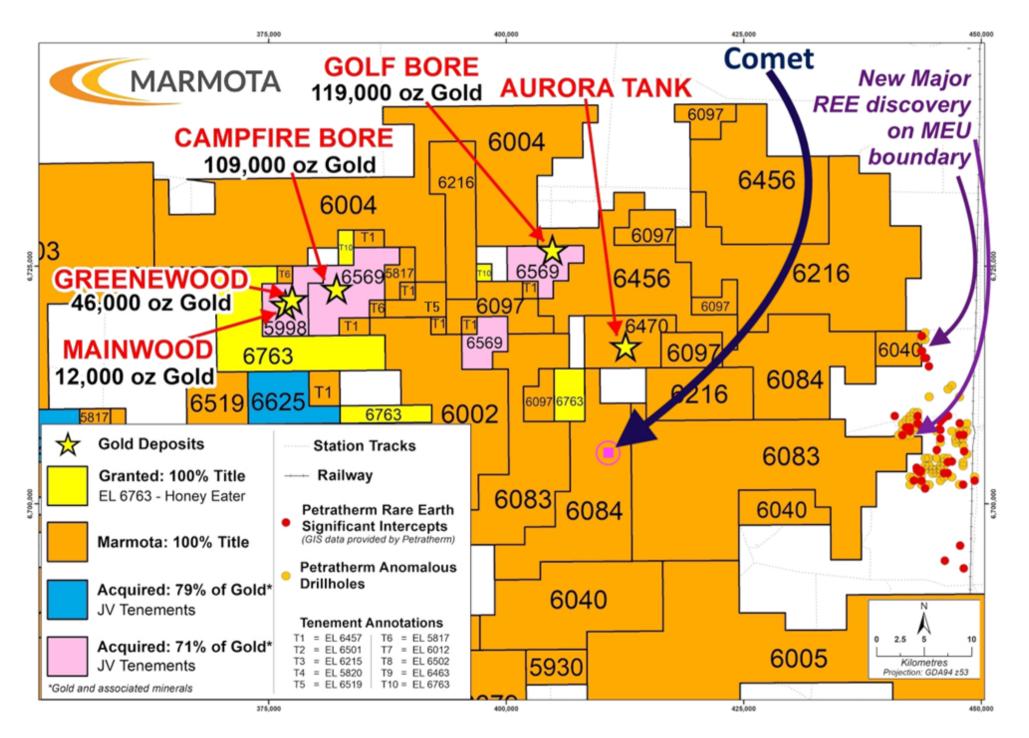


Figure 2: Location of Comet tenement relative to surrounding Marmota tenements, including Aurora Tank gold discovery

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About Marmota Limited

Marmota Limited (ASX: MEU) is a South Australian mining exploration company, focused on gold, copper and uranium. Gold exploration is centred on the Company's dominant tenement holding in the highly prospective and significantly underexplored Gawler Craton, near the Challenger gold mine, in the Woomera Prohibited Defence Area. The Company's copper project is based at the Melton project on the Yorke Peninsula. The Company's uranium JORC resource is at Junction Dam adjacent to the Honeymoon mine.

For more information, please visit: www.marmota.com.au

Competent Persons Statement

Information in this Release relating to Exploration Results is based on information compiled by Aaron Brown, who is a Member of The Australian Institute of Geoscientists. He has sufficient experience relevant to the styles of mineralisation and types of deposits under consideration and to the activities being undertaken to qualify as a Competent Person as defined in the 2012 Edition of the "Australasian Code of Reporting of Exploration Results, Mineral Resources and Ore Reserves." Mr Brown consents to the inclusion in this report of the matters based on this information in the form and context in which they appear.

Where results from previous announcements are quoted, Marmota confirms that it is not aware of any new information or data that materially affects the information included in the relevant market announcement and, in the case of estimates of Mineral Resources, that all material assumptions and technical parameters underpinning the estimates in the relevant market announcement continue to apply and have not materially changed.

For the purpose of ASX Listing Rule 15.5, the Board has authorised for this announcement to be released.

(Criteria in this section apply to all succeeding sections)

Criteria	JORC Code explanation	Commentary
Sampling techniques	 Nature and quality of sampling (e.g. cut channels, random chips, or specific specialised industry standard measurement tools appropriate to the minerals under investigation, such as down hole gamma sondes, or handheld XRF instruments, etc). These examples should not be taken as limiting the broad meaning of sampling. 	 A total of 20 RC holes were drilled in June 2022 as part of the ADI program, including 7 on the Comet (West) Tenement EL6084. Samples were collected at 1m intervals from the drilling cyclone and stored in separate bags at the drill site. The prenumbered bags containing the 1m samples were collected
	 Include reference to measures taken to ensure sample representivity and the appropriate calibration of any measurement tools or systems used. 	from site and were pulverised for lab assay. A 40g sub sample was selected for analysis by Lead Collection Fire Assay for Au.
	 Aspects of the determination of mineralisation that are Material to the Public Report. 	 Mixed Acid Digest: Analysed by Inductively Coupled Plasma Mass Spectrometry for Ag, As, Bi, Co, Cu, Ni, Pb and Sb.
	 In cases where 'industry standard' work has been done this would be relatively simple (e.g. 'reverse circulation drilling was used to obtain 1 m samples from which 3 kg was pulverized to produce a 30 g charge for fire assay'). In other cases more explanation may be required, such as where there is coarse gold that has inherent sampling problems. Unusual commodities or mineralisation types (e.g. submarine nodules) may warrant disclosure of detailed information. 	Only laboratory assay results were used to compile the table of intersections that appears in the report.
Drilling techniques	 Drill type (e.g. core, reverse circulation, open-hole hammer, rotary air blast, auger, Bangka, sonic, etc) and details (e.g. core diameter, triple or standard tube, depth of diamond tails, face-sampling bit or other type, whether core is oriented and if so, by what method, etc). 	 Drill Method was Reverse Circulation drilling. Hole diameters are 146.5 mm
Drill sample recovery	 Method of recording and assessing core and chip sample recoveries and results assessed. Measures taken to maximise sample recovery and ensure representative nature of the samples. 	 Drillholes and sample depths were recorded in hard copy format during drilling including description of lithology and sample intervals. Qualitative assessment of sample recovery and moisture content of drill samples was recorded.
	Whether a relationship exists between sample recovery and grade and whether sample bias may have occurred due to preferential loss/gain of fine/coarse material.	 Sample recoveries were generally high, and moisture in samples minimal. In some instances, where ground water influx was high, wet/moist samples were collected.
		 The sample system cyclone was cleaned at the end of each hole and as required to minimise up-hole and cross-hole contamination. No relationship is known to exist between sample recovery and grade, in part due to in-ground variation in grade. A potential bias due to loss/gain of fine/coarse material is not suspected. Drilling was halted between each interval to make sure the hole was cleared out before commencing the next interval.

Criteria	JORC Code explanation	Commentary
Logging	 Whether core and chip samples have been geologically and geotechnically logged to a level of detail to support appropriate Mineral Resource estimation, mining studies and metallurgical studies. Whether logging is qualitative or quantitative in nature. Core (or costean, channel, etc) photography. The total length and percentage of the relevant intersections logged. 	 All samples were geologically logged by Marmota geologists. The holes have not been geotechnically logged. Geological logging is qualitative. Chip trays containing 1m geological subsamples were collected. 100% of any reported intersections in this announcement have had geological logging completed.
Sub-sampling techniques and sample preparation	 If core, whether cut or sawn and whether quarter, half or all core taken. If non-core, whether riffled, tube sampled, rotary split, etc and whether sampled wet or dry. For all sample types, the nature, quality and appropriateness of the sample preparation technique. Quality control procedures adopted for all sub-sampling stages to maximise representivity of samples. Measures taken to ensure that the sampling is representative of the in situ material collected, including for instance results for field duplicate/second-half sampling. Whether sample sizes are appropriate to the grain size of the material being sampled. 	 1m samples were collected directly from the drill rig cyclone in individually numbered bags. Duplicate 1m samples were collected with a 50mm tube by diagonally spearing individual samples within bags. It is considered representative samples were collected after homogenizing of sample through drilling cyclone and unbiased spearing of samples in bags. Laboratory sample preparation includes drying and pulverizing of submitted sample to target of p80 at 75 um. No samples checked for size after pulverizing failed to meet sizing target in the sample batches relevant to the report. Duplicate samples were introduced into the sample stream by the Company.
Quality of assay data and laboratory tests	 The nature, quality and appropriateness of the assaying and laboratory procedures used and whether the technique is considered partial or total. For geophysical tools, spectrometers, handheld XRF instruments, etc, the parameters used in determining the analysis including instrument make and model, reading times, calibrations factors applied and their derivation, etc. Nature of quality control procedures adopted (eg standards, blanks, duplicates, external laboratory checks) and whether acceptable levels of accuracy (i.e. lack of bias) and precision have been established. 	 Bureau Veritas Minerals in Adelaide were used for analytical work. 1m Samples were analysed in the following manner for samples collected from exploratory holes on Comet and Woorong Downs tenements: Mixed Acid Digest: Analysed by Inductively Coupled Plasma Mass Spectrometry for Ag, As, Bi, Co, Cu, Ni, Pb and Sb. Fire Assay: Analysed by Inductively Coupled Plasma Mass Spectrometry for Au. For all samples, the Company introduced QA/QC samples at a ratio of one QA/QC sample for every 30 drill samples. The laboratory introduced additional QA/QC samples (blanks, standards, checks) at a ratio of greater than 1 QA/QC sample for every 10 drill samples Both the Company and laboratory QA/QC samples indicate acceptable levels of accuracy and precision have been established. Duplicates were introduced into the sample stream by the Company. The laboratory completed repeat assays on various samples. Standard samples were introduced into the sample stream by the Company, while the laboratory completed standard assays also.

Criteria	JORC Code explanation	Commentary
Verification of sampling and assaying	 The verification of significant intersections by either independent or alternative company personnel. The use of twinned holes. Documentation of primary data, data entry procedures, data verification, data storage (physical and electronic) protocols. Discuss any adjustment to assay data. 	 An alternative company representative has checked the calculation of the quoted intersections. No twinned holes were drilled in the program. No adjustments have been made to the assay data.
Location of data points	 Accuracy and quality of surveys used to locate drill holes (collar and down-hole surveys), trenches, mine workings and other locations used in Mineral Resource estimation. Specification of the grid system used. Quality and adequacy of topographic control. 	 For Exploration holes on Comet and Woorong Downs, drill hole coordinate information was collected using a Handheld GPS system with an autonomous accuracy of ± 3 m utilising GDA 94 Zone 53. Down hole surveys were undertaken at 30m intervals downhole, or as requested by the geologist. Area is approximately flat lying and topographic control uses SRTM 90 DEM.
Data spacing and distribution	 Data spacing for reporting of Exploration Results. Whether the data spacing and distribution is sufficient to establish the degree of geological and grade continuity appropriate for the Mineral Resource and Ore Reserve estimation procedure(s) and classifications applied. Whether sample compositing has been applied. 	Drill hole spacing is irregular as indicated in Appendix 2.
Orientation of data in relation to geological structure	 Whether the orientation of sampling achieves unbiased sampling of possible structures and the extent to which this is known, considering the deposit type. If the relationship between the drilling orientation and the orientation of key mineralised structures is considered to have introduced a sampling bias, this should be assessed and reported if material. 	Drill lines were new reconnaissance holes. Therefore, a sampling bias should not have occurred.
Sample security	The measures taken to ensure sample security.	 Company staff collected all laboratory samples. Samples submitted to the laboratory were transported and delivered by Company staff.
Audits or reviews	The results of any audits or reviews of sampling techniques and data.	No audit of data has been completed to date.

(Criteria listed in the preceding section also apply to this section.)

Criteria	JORC Code explanation	Commentary
Mineral tenement and land tenure status	 Type, reference name/number, location and ownership including agreements or material issues with third parties such as joint ventures, partnerships, overriding royalties, native title interests, historical sites, wilderness or national park and environmental settings. The security of the tenure held at the time of reporting along with any known impediments to obtaining a licence to operate in the area. 	 Comet (EL6084) and Woorong Downs (EL6083) are 100% owned by Marmota Limited. These EL's are located approximately 100 km southwest of Coober Pedy in South Australia. There are no third party agreements, non-government royalties, historical sites or environmental issues. Exploration is conducted within lands of the Antakirinja Matu-Yankunytjatjara Native Title Determination Area. The tenements are in good standing.
Exploration done by other parties	Acknowledgment and appraisal of exploration by other parties.	No previous exploration drill holes appear to have been carried out on the Comet tenement EL6084.
Geology	Deposit type, geological setting and style of mineralisation.	 All drilling occurred within geology of the Christie Domain of the western Gawler Craton. The Christie Domain is largely underlain by late Archaean Mulgathing Complex which comprises metasedimentary successions interlayered with Banded Iron Formations (BIF), chert, carbonates and calc-silicates. Marmota is targeting Challenger-style Late Archaean gold whilst also considering occurrence of a variety of other mineralisation styles which may exist in the tenement area.
Drill hole Information	 A summary of all information material to the understanding of the exploration results including a tabulation of the following information for all Material drill holes: easting and northing of the drill hole collar elevation or RL (Reduced Level – elevation above sea level in metres) of the drill hole collar dip and azimuth of the hole down hole length and interception depth hole length. If the exclusion of this information is justified on the basis that the information is not Material and this exclusion does not detract from the understanding of the report, the Competent Person should clearly explain why this is the case. 	The required information on drill holes is incorporated into Appendix 2 to the ASX Release.

Criteria	JORC Code explanation	Commentary
Data aggregation methods	 In reporting Exploration Results, weighting averaging techniques, maximum and/or minimum grade truncations (eg cutting of high grades) and cut-off grades are usually Material and should be stated. Where aggregate intercepts incorporate short lengths of high grade results and longer lengths of low grade results, the procedure used for such aggregation should be stated and some typical examples of such aggregations should be shown in detail. The assumptions used for any reporting of metal equivalent values should be clearly stated. 	 Any intersections are calculated by simple averaging of 1m samples. Where there are duplicate or repeat samples, an average Au grade is reported. Where aggregated intercepts are presented in the report, they may include shorter lengths of high-grade mineralisation; these shorter lengths are also tabulated. No metal equivalents are reported.
Relationship between mineralisatio n widths and intercept lengths	 These relationships are particularly important in the reporting of Exploration Results. If the geometry of the mineralisation with respect to the drill hole angle is known, its nature should be reported. If it is not known and only the down hole lengths are reported, there should be a clear statement to this effect (e.g. 'down hole length, true width not known'). 	 Drill coverage is considered sufficient to establish approximate true widths due the current geological understanding of mineralisation dip and strike Mineralisation intersections are downhole lengths; exact true widths are unknown but are similar to the intersection lengths as the mineralised zones are approximately normal to hole inclinations.
Diagrams	 Appropriate maps and sections (with scales) and tabulations of intercepts should be included for any significant discovery being reported These should include, but not be limited to a plan view of drill hole collar locations and appropriate sectional views. 	See Figures within ASX release
Balanced reporting	 Where comprehensive reporting of all Exploration Results is not practicable, representative reporting of both low and high grades and/or widths should be practiced to avoid misleading reporting of Exploration Results. 	 A cut-off grade of 1 g/t (1000 ppb) gold was applied in reviewing assay results and deemed to be appropriate at this stage in reporting of exploration results. Reporting is considered balanced.
Other substantive exploration data	Other exploration data, if meaningful and material, should be reported including (but not limited to): geological observations; geophysical survey results; geochemical survey results; bulk samples – size and method of treatment; metallurgical test results; bulk density, groundwater, geotechnical and rock characteristics; potential deleterious or contaminating substances.	See ASX Releases 24 August 2022
Further work	 The nature and scale of planned further work (e.g. tests for lateral extensions or depth extensions or large-scale step-out drilling). Diagrams clearly highlighting the areas of possible extensions, including the main geological interpretations and future drilling areas, provided this information is not commercially sensitive. 	 See attached release Marmota is currently reviewing results received to date and preparing additional work programs and additional extensional drilling.

APPENDIX 2 Drillhole collar summary: June 2022 RC drilling

Comet (EL 6084) and Woorong Downs (EL 6083): ADI recon holes

Hole ID	Tenement	Easting [GDA2020 z53]	Northing [GDA2020 z53]	RL	Dip	Azimuth (Mag)	EOH Depth
22ADIRC001	Woorong Downs	404,771	6,704,798	159	-90	0	49m
22ADIRC002	Comet	403,179	6,694,004	169	-60	150	84m
22ADIRC003	Comet	403,137	6,694,059	170	-60	150	84m
22ADIRC004	Comet	403,070	6,694,058	170	-60	150	84m
22ADIRC005	Woorong Downs	401,096	6,695,897	167	-60	150	67m
22ADIRC006	Woorong Downs	401,178	6,696,013	169	-60	150	96m
22ADIRC007	Woorong Downs	400,012	6,697,597	174	-90	0	72m
22ADIRC008	Woorong Downs	399,200	6,700,844	188	-60	150	84m
22ADIRC009	Woorong Downs	402,676	6,701,323	175	-60	150	84m
22ADIRC010	Woorong Downs	402,576	6,701,208	183	-60	150	84m
22ADIRC011	Woorong Downs	402,489	6,701,120	185	-60	150	90m
22ADIRC012	Woorong Downs	400,789	6,700,798	187	-60	150	80m
22ADIRC013	Woorong Downs	400,765	6,700,842	187	-60	150	84m
22ADIRC014	Woorong Downs	400,739	6,700,893	187	-60	150	90m
22ADIRC015	Woorong Downs	399,008	6,702,008	180	-90	0	70m
22ADIRC016	Woorong Downs	399,826	6,701,989	177	-90	0	72m
22ADIRC017	Comet	410,396	6,705,209	163	-90	0	72m
22ADIRC018	Comet	408,414	6,707,167	158	-90	0	72m
22ADIRC019	Comet	408,851	6,706,869	157	-60	150	84m
22ADIRC020	Comet	408,791	6,706,810	157	-60	150	84m