

### **ASX** Release

18 October 2018

# DRILLING UPDATE AT MORNING STAR GOLD MINE VISIBLE GOLD RESULTS CONFIRMED IN STACPOOLE NORTH

AuStar Gold Limited (ASX: AUL) ('AuStar Gold' or 'the Company') is pleased to provide an update in relation to the ongoing diamond drilling into the Stacpoole North structure at the Morning Star Gold Mine.

### **Highlights for MSA29:**

- Visible gold in Drill Core
- 6.35m @ 4.33 g/t Au including 2.05m @ 10.11 g/t Au with:
  - 0.20m @ 55.57g/t Au
  - 0.30m @ 22.73 g/t Au

**CEO Mr Tom de Vries said:** "Drilling for mineralisation associated with the Stacpoole North Target has commenced and by applying ongoing adjustments the program is beginning to show results. The assay results received for MSA29 are encouraging and confirm and expand the high-grade zone encountered in historical drillhole MS357.

Mr de Vries added "The team at Austar Gold continues to re-interpret the original database for opportunities with success. The database is a proven source of information which provides a springboard for drilling which is then judiciously and effectively applied by our exploration team.

Stacpoole North is located between 2 and 3 Level in the Morning Star mine, located geographically separate to the recent success of Stones and McNally's, which would allow operational flexibility if this area were to become significant and as such has become another priority for diamond drilling"

#### **Drill Program in the Morning Star Adit**

As previously reported in recent ASX announcements, AuStar has now has now commenced to test the Stacpoole North target around drill hole MS357 (4.10m @ 18.80 g/t Au - incl. 0.30m @ 216.00g/t Au). Stacpoole North is the second of the three initial exploration targets identified to date by AuStar within the Morning Star Dyke, the other targets being Stones/McNally reef and Kennys reef, with the former target being successfully identified, drilled, assayed and reported within a three month time frame (See ASX release dated 3 July 2018).

The first diamond drill hole in this program (MSA27) which was targeted to intersect the structure between MS357 and the interpreted dyke sediment contact failed to intersect the structure identified by the circa 1997 drill hole (MS357). The hole encountered the dyke - sediment contact earlier than anticipated, without intersecting any alteration or quartz veining. This hole is now interpreted as going over the top of the target area.

The second drill hole completed (MSA28) was targeted 20 metres north of MSA27 and again intersected the dyke - sediment contact without encountering any mineralisation. At a depth of 40.10m down-hole another diamond hole was intersected, this intersected hole is now

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interpreted to be MS357, which was initially plotted to be 10 metres further to the south. No significant assays results have been received from holes MSA27 and MSA28.

As a consequence of modifying the geological model based on the information about the true location of MS357, the third diamond drill hole in the current program (MSA29) has intersected an altered dyke and quartz - sulphide zone from approximately 40.30m downhole to 47.00m, interpreted to be the Stacpoole North structure. Fine visible gold has been observed in the core at approximately 40.90m downhole (refer to Photo 1.). The corresponding assay result for this zone returned a grade of **0.20m @ 55.5g/t Au** (see Table 1).

Targeted drilling is now continuing into the Stacpoole North Structure with drill holes MSA30 – MSA32 all intersecting the target horizon. Assay results for these holes are pending. Drilling is continuing from the current drill location.



Photograph 1: Visible Gold (inside yellow circles) from 40.90m. Drill hole MSA29.

#### Re-interpretation of drill hole MS357

The fortuitous intersecting of drill hole MS357 has reinforced the ongoing need to closely review all historic data to ensure opportunities and improvements are identified in a timely manner. MS357 was drilled in 1997 (by previous owners of the Morning Star mine), and was 205.30 metres in length with an intersection from 138.60m downhole (4.10m @ 18.80 g/t Au - incl. 0.30m @ 216.00g/t Au). The hole in the original database is not supported by any down-hole survey data and when replotted, allowing for the down-hole deviation required to intersect MSA28, results in the Stacpoole North target being deeper and further into the dyke, than that originally tested by MSA27 and MSA28. This means that the target may now be more accessible than previously thought, via Level 3 of the Morning Star shaft.

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Table 1. Drill Hole and Significant Intersection.

HOLE ID	Sample ID	From	То	Interval	Grade (g/t) Au	Comment
MSA29	A7582	40.75	40.95	0.20	55.57	Vis. Au Observed
MSA29	A7583	40.95	41.50	0.55	1.43	
MSA29	A7584	41.50	42.00	0.50	1.94	
MSA29	A7585	42.00	42.50	0.50	2.08	
MSA29	A7586	42.50	42.80	0.30	22.73	
MSA29	A7587	42.80	43.50	0.70	1.53	40.75 – 47.10m combined
MSA29	A7588	43.50	44.00	0.50	1.49	to 6.35m @ 4.33g/t Au.
MSA29	A7589	44.00	44.50	0.50	2.20	including 40.75 - 42.80m
MSA29	A7590	44.50	45.00	0.50	1.53	2.05m @ 10.11g/t Au
MSA29	A7592	45.00	45.70	0.70	1.31	
MSA29	A7593	45.70	46.25	0.55	1.49	
MSA29	A7594	46.25	46.70	0.45	1.57	
MSA29	A7595	46.70	47.10	0.40	1.55	

Table 2. Drill Hole Locations.

Hole_ID	MineGri d East	MineGrid North	RL (m)	Dip	Dir (MineGrid)	EOH (m)	Status
MSA27	8099.51	13086.15	688.43	-18.5	304.5	67.60	Completed – No Significant Assays
MSA28	8099.18	13087.16	688.08	-19.0	317.0	73.90	Completed – No Significant Assays
MSA29	8099.71	13086.19	688.04	-27.0	309.0	86.10	Completed – Part Assays Pending
MSA30	8099.96	13085.91	687.86	-38.0	306.0	42.40	Completed – Assays pending
MSA31	8100.66	13085.34	687.98	-58.0	302.0	44.80	Completed – Assays pending
MSA32*	8101.0*	13085.0*	688.2*	-48.0*	005.0	27.0	Completed – Assays pending

<sup>\*</sup>Coordinates are from drill design. Not yet surveyed.

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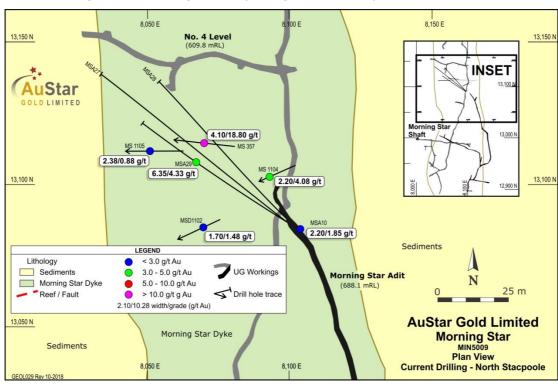
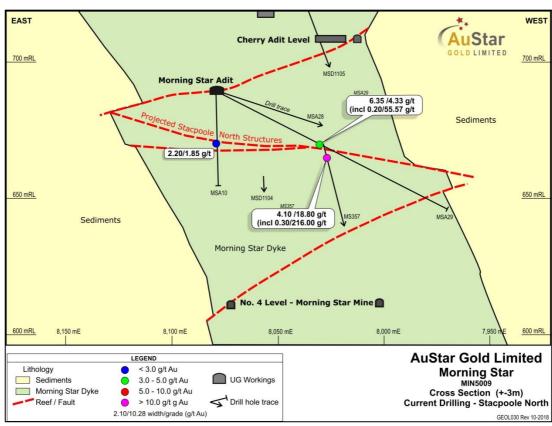


Figure 1: Plan Showing Location of Drilling Results and Stacpoole North Structure.





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#### **About AuStar Gold Limited:**

AuStar Gold is focused on building a valuable minerals inventory to generate sustainable economic production from its portfolio of advanced high-grade gold projects - with significant infrastructure including processing plant, a strategic tenement footprint, and prospectively-well positioned for near-term mining.

In addition, AuStar Gold intends to develop its adjoining tenements in the Walhalla to Jamieson gold district (particularly the prolific Woods Point Dyke Swarm) into low cost high grade gold production projects

#### For Further Information:

Tom de Vries Chief Executive Officer AuStar Gold Limited info@austargold.com

#### **Competent Persons Statement**

The information in this report that relates to exploration activities and exploration results is based geological information compiled by Mr Peter de Vries, (BAppSc) a consulting geologist, on behalf of AuStar Gold Limited. Mr de Vries is a member of the Australasian Institute of Mining and Metallurgy (MAIMM) and the Australian Institute of Geoscientists (MAIG) and is a Competent Person as defined by the 2012 edition of the Australasian Code for Reporting of Exploration Results, Mineral Resources and Ore Reserves (JORC Code), having more than five years' experience which is relevant to the style of mineralisation and type of deposit described in this report, and to the activity for which he is accepting responsibility. Mr de Vries consents to the publishing of the information in this report in the form and context in which it appears.

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# **Section 1 Sampling Techniques and Data**

(Criteria in this section apply to all succeeding sections.)

Criteria	JORC Code explanation C	Commentary
Sampling techniques	<ul> <li>Nature and quality of sampling (eg cut channels, random chips, or specific specialized 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.</li> <li>Include reference to measures taken to ensure sample representivity and the appropriate calibration of any measurement tools or systems used.</li> <li>Aspects of the determination of mineralisation that are Material to the Public Report.</li> <li>In cases where 'industry standard' work has been done this would be relatively simple.</li> </ul>	Full drill core has been submitted for analysis. The drill core is LTK 48 (35.3mm diameter) in size.  Sample intervals are between 0.30 and 1.0 metres as the mineralization consists of multiple narrow veins within a diorite host.  Samples are dried and pulverized to 90% passing -75µm 50g charge is taken and fire assayed to produce solid prill.  Prill is dissolved in acid and grade determined by AAS.
Drilling techniques	Drill type (eg core, reverse circulation, open-hole hammer, rotary air blast, auger, Bangka, sonic, etc) and details (eg 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).	utilizing a pneumatically powered Kempe diamond drill producing LTK 48 size drill core (and capable of drilling up and down holes to angles of ~85 degrees.  Drilling is being carried out by rig owned by Starwest Drilling.  Down hole surveys have been carried out.
Drill sample recovery	<ul> <li>Method of recording and assessing core and chip sample recoveries and results assessed.</li> <li>Measures taken to maximise sample recovery and ensure representative nature of the samples.</li> <li>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.</li> </ul>	The core is marked up and measured by geologists. Core recovered (CR) is compared with the metres drilled (MD, recorded by the drillers in their 'run sheets') and a 'core recovery' percentage is calculated; CR/MD x 100 = % recovered.  Vein density is random and variable within the gross structural controls. Vein orientation takes two preferred orientations. The general "type' vein orientation is a flat ~10 degree dipping TVA with the second orientation being a conjugate set which are generally smaller but cut the previous veinset with minor displacements
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	Logs exist for all of the drillholes on the property. The history of Exploration on the property has seen the one set of log codes utilized consistently.  The logging describes the dominant and minor rock types, colour, mineralisation, oxidation, alteration, vein type, core recovery, basic structure (hardness has not been logged).  Some geotechnical logging has taken place, though in most cases the existence of extensive underground development has meant that geotechnical work has been more focused on underground exposures.  Core is photographed after markup and before sampling.

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Criteria	JORC Code explanation	Commentary
	percentage of the relevant intersections logged.	Marked core for sampling is also photographed.
Sub-sampling techniques and sample preparation	<ul> <li>If core, whether cut or sawn and whether quarter, half or all core taken.</li> <li>If non-core, whether riffled, tube sampled, rotary split, etc and whether sampled wet or dry.</li> <li>For all sample types, the nature, quality and appropriateness of the sample preparation technique.</li> <li>Quality control procedures adopted for all sub-sampling stages to maximise representivity of samples.</li> <li>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.</li> <li>Whether sample sizes are appropriate to the grain size of the material being sampled.</li> </ul>	<ul> <li>Full core has been sampled</li> <li>Core samples were assayed at the Gekko laboratory located in Ballarat.</li> <li>Total pulverization before subsampling for assay is carried out at the lab by grinding via a mixer mill to 90% passing -75 microns.</li> <li>Final grade determination is by Fire Assay with an AAS finish.</li> <li>Fire assay charge size is 50 grams.</li> </ul>
Quality of assay data and laboratory tests	<ul> <li>The nature, quality and appropriateness of the assaying and laboratory procedures used and whether the technique is considered partial or total.</li> <li>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.</li> <li>Nature of quality control procedures adopted (eg standards, blanks, duplicates, external laboratory checks) and whether acceptable levels of accuracy (ie lack of bias) and precision have been established.</li> </ul>	A standard sample is randomly inserted for approximately every 15 – 20 samples that are submitted.  Laboratory blanks and random rechecks are also utilized by Gekko
Verification of sampling and assaying	<ul> <li>The verification of significant intersections by either independent or alternative company personnel.</li> <li>The use of twinned holes.</li> <li>Documentation of primary data, data entry procedures, data verification, data storage (physical and electronic) protocols.</li> </ul>	<ul> <li>All reported data was subjected to validation and verification prior to release</li> <li>Submitted standards are tabled and compared to stated value</li> <li>Data from logging and assay is being entered into excel and imported into a 3D computer modeling programs for modeling and geological analysis.</li> </ul>
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.	<ul> <li>All holes were located by direct measurement from underground survey points. Contract surveyors will pick up collars on completion of program for high level of accuracy.</li> <li>The coordinates used are a local mine grid with Morning Star Shaft collar points used as centre coordinate 8000mE and 13000mN. The vertical axis is ASL (m). All bearings are rotated</li> </ul>

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Criteria	JORC Code explanation	Commentary
Data spacing and distribution	<ul> <li>Specification of the grid system used.</li> <li>Quality and adequacy of topographic control.</li> <li>Data spacing for reporting of Exploration Results.</li> <li>Whether the data spacing and distribution is sufficient to establish the degree of geological and grade</li> </ul>	48 degrees counter-clockwise from true (Grid) north, 60.5 degrees from Magnetic North.  The topography control is of a high standard.  Drilling has been carried out from underground drill cuddies. Reported drill holes are designed to intersect projected structural target at around 10 metre centres  The aim of the drill program is to test for the presence of unmined mineralised structures that may contain economically
	continuity appropriate for the Mineral Resource and Ore Reserve estimation procedure(s) and classifications applied.  • Whether sample compositing has been applied.	<ul> <li>definable amounts of gold.</li> <li>Sample compositing has not been applied for individual assays.</li> <li>Where an interval of grade has been composited the Weighted Average Grade is width of intersection (W) multiplied by grade (G) divided by the Sum of the Total Width. Avg Grade = W₁xG₁ + W₂xG₂WոxGn / ∑W.</li> </ul>
Orientation of data in relation to geological structure	<ul> <li>Whether the orientation of sampling achieves unbiased sampling of possible structures and the extent to which this is known, considering the deposit type.</li> <li>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.</li> </ul>	<ul> <li>The drilling has been targeted to intersect mineralized veins at a steep angle, although some oblique holes have been drilled due to the locations of available drill sites. However, this has been taken into account in such a way as to eliminate sampling bias.</li> <li>No significant sample bias based on drill hole orientation is noted</li> <li>The mineralisation at the Morning Star mine consist of quartz infilled reverse faults of varying dips and orientations located with the Morning Star Diorite dyke.</li> </ul>
Sample security	The measures taken to ensure sample security.	The chain of custody for samples was managed by AuStar Gold Ltd, with an established set of procedures designed to maintain sample security
Audits or reviews	<ul> <li>The results of any audits or reviews of sampling techniques and data.</li> </ul>	No independent review has been undertaken of the announced drill results

Section 2 Reporting of Exploration Results
(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.	<ul> <li>The Morning Star mine is located within MIN5009, which is wholly owned by AuStar Gold and its subsidiaries.</li> <li>The assets were acquired from receivers in 2016.</li> <li>The Morning Star mine is located approximately 90km southeast of Mansfield in Eastern Victoria, near the town of Woods Point.</li> <li>The Rose of Denmark lies within MIN5299 and is wholly owned by AuStar Gold and its subsidiaries.</li> </ul>

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Criteria	JORC Code explanation	Commentary
Exploration done by other parties	Acknowledgment and appraisal of exploration by other parties.	<ul> <li>The Morning Star Gold mine has been intermittently active since 1861, with a large number of owners and operators.</li> <li>The mine was operated by Gold Mines of Australia between 1930 and 1960, and then briefly operated by Morning Star Gold Mines NL until 1963. Production up to that point has been variably estimated to be between 630,000 and 830,000 oz Au at grades from 25-30 g/t Au.</li> <li>Mount Conqueror acquired the asset in 1993 and carried out exploration development under that name and then subsequently under the name of Morning Star Gold. The company went into suspension in June 2012 and receivership in 2014.</li> </ul>
Geology	Deposit type, geological setting and style of mineralisation.	The project area lies within the Woods Point – Walhalla Synclinorium structural domain of the Melbourne zone, a northwest-trending belt of tightly folded Early Devonian Walhalla Group sandy turbidites. The domain is bounded by the Enoch's Point and Howe's Creek Faults, both possible detachment-related splay structures that may have controlled the intrusion of the Woods Point Dyke Swarm and provided the conduits for gold-bearing hydrothermal fluids. The local structural zone is referred to as the Ross Creek Faults Zone (RCFZ)  Most gold mineralisation in the Woods Point to Gaffney's Creek corridor occurs as structurally-controlled quartz ladder vein systems hosted by dioritic dyke bulges. Rose of Denmark exhibits all these characteristics
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:	See table in above document
Data aggregation methods	<ul> <li>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.</li> <li>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.</li> <li>The assumptions used for any reporting of metal equivalent values should be clearly</li> </ul>	<ul> <li>In all previous ASX releases the assays are given 'un-cut' unless otherwise stated &amp; weighted averaging of results is used: in which the average grade is the sum of the products of length and grade for each sample in the interval, divided by the total length of the interval. A nominal cutoff of 0.1g/t is used for identification of potentially significant intercepts for reporting purposes.</li> <li>Most of the reported intercepts are shown in sufficient detail, including gold maxima and subintervals, to allow the reader to make an assessment of the balance of high and low grades in the intercept.</li> <li>Metal equivalents are not used.</li> </ul>

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Criteria	JORC Code explanation	Commentary		
Relationship between mineralisatio n widths and intercept lengths	<ul> <li>stated.</li> <li>These relationships are particularly important in the reporting of Exploration Results.</li> <li>If the geometry of the mineralisation with respect to the drill hole angle is known, its nature should be reported.</li> <li>If it is not known and only the down hole lengths are reported, there should be a clear statement to this effect (eg 'down hole length, true width not known').</li> </ul>	<ul> <li>Mineralised structures at Morning Star are variable in orientation, and therefore drill orientations have been adjusted from place to place in order to allow intersection angles as close as possible to true widths.</li> <li>Exploration results have been reported as an interval with 'from' and 'to' stated in tables of significant economic intercepts. Tables clearly indicate that true widths will generally be narrower than those reported.</li> <li>An estimate of true width can be made based on the known strike of mineralised quartz veins or quartz breccias, although it should be noted that these features are not absolutely planar and anastomosing does occur, with variable strike and dip.</li> </ul>		
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 attached figures and plates.		
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.	Only initial significant results for the first hole is shown . Future drilling results will be followed by basic data.		
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.	<ul> <li>Results of an ongoing structural reappraisal of the mine are presented in some of the diagrams in this release.</li> <li>These diagrams are schematic in nature based on field observations yet to be fully digitized in 3D space (this work is ongoing)</li> </ul>		
Further work	<ul> <li>The nature and scale of planned further work (eg tests for lateral extensions or depth extensions or large-scale stepout drilling).</li> <li>Diagrams clearly highlighting the areas of possible extensions, including the main geological interpretations and future drilling areas, provided this information is not commercially sensitive.</li> </ul>	<ul> <li>Further exploration drilling from underground is planned, along in order to gain confidence regarding drilled grades.</li> <li>Gaining a correlation between drilled grades and recovered grades from large scale sampling is a key aim of this program and will be a significant factor in reporting resources and reserves to appropriate standards</li> </ul>		

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### **Section 3 Estimation and Reporting of Mineral Resources**

(Criteria listed in section 1, and where relevant in section 2, also apply to this section.) Section 3 does not pertain to this report.

# $Section\ 4\ Estimation\ and\ Reporting\ of\ Ore\ Reserves$

(Criteria listed in section 1, and where relevant in sections 2 and 3, also apply to this section.) Section 4 does not pertain to this report.

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