Alto Metals Limited

ABN: 62 159 819 173

ASX: AME

Suite 9, 12-14 Thelma St
West Perth
WA 6872
Phone: 61 8 9381 2808
Email:
admin@altometals.com.au
Website:
altometals.com.au

Directors:

Acting Chairman
Mr Terry Wheeler

Managing Director
Mr Dermot Ryan

Non-Executive Director
Dr Jingbin Wang

Company Secretary & CFO
Mr Patrick Holywell

ASX RELEASE **5 December 2018**

High Grade Gold Assays in 1m Samples from Vanguard RC hole SRC114, Sandstone, WA

- **One metre fire assay results from RC hole SRC114 confirm high grade at Vanguard**
- **40 samples of 1m length returned the following intervals:**

SRC0114	**:**	**40m**	**@**	**3.6g/t Au**	**from**	**61m**
incl.	**:**	**5m**	**@**	**8.7g/t Au**	**from**	**61m**
and	**:**	**19m**	**@**	**4.0g/t Au**	**from**	**69m**
and	**:**	**7m**	**@**	**3.0g/t Au**	**from**	**94m**

- **Individual 1m assays include: 1m from 63m @ 19.2g/t Au, 1m from 71m @ 15.1g/t Au, and 1m from 79m @ 11.9g/t Au.**

Alto Metals Limited (ASX: AME) ("Alto", "the Company") is pleased to advise that high grade 1m assay results have been returned from Vanguard reverse circulation (RC) drill hole SRC114 drilled at Vanguard in September to confirm the geological model and provide samples for preliminary metallurgical testwork.

VANGUARD REVERSE CIRCULATION DRILLING

RC hole SRC114 (total 102m) was drilled to provide samples for preliminary metallurgical testwork. The 4m composite assay results and metallurgical test results (93-94% recovery) were reported on 15 October 2018.

The +1.0g/t Au fire assay results for the 1m re-split samples in SRC114 are shown in Table 1 below and in Figures 1 - 3. All +0.5g/t Au assay for 1m re-split samples are included in Table 3.

Table 1. Vanguard RC Drill Hole SRC114,
Fire Assay Results +1.0g/t Au for 1 Metre Samples

Hole SRC114	From (m)	To (m)	Interval (m)	Grade (g/t Au)
	17	24	7	1.81
incl	**21**	**22**	**1**	**7.57**
and	**61**	**101**	**40**	**3.58**
incl	**61**	**66**	**5**	**8.66**
incl	**63**	**64**	**1**	**19.19**
and	**69**	**88**	**19**	**3.98**
incl	**71**	**72**	**1**	**15.09**
incl	**79**	**80**	**1**	**11.22**
and	**94**	**101**	**7**	**3.00**
incl	**98**	**99**	**1**	**6.54**

Table 2. Vanguard RC Drill Hole SRC114 Collar Details

Hole ID	East GDA94	North GDA94	Depth (m)	Dip (deg)	Azimuth (deg)
SRC114	740807	6884218	102	-82	197

Figure 1. Vanguard Section 40° NE (+/-30m Window) Showing A$2,000/oz Whittle Pit Shell for 2018 Mineral Resource Estimation and Location of Alto Hole SRC114

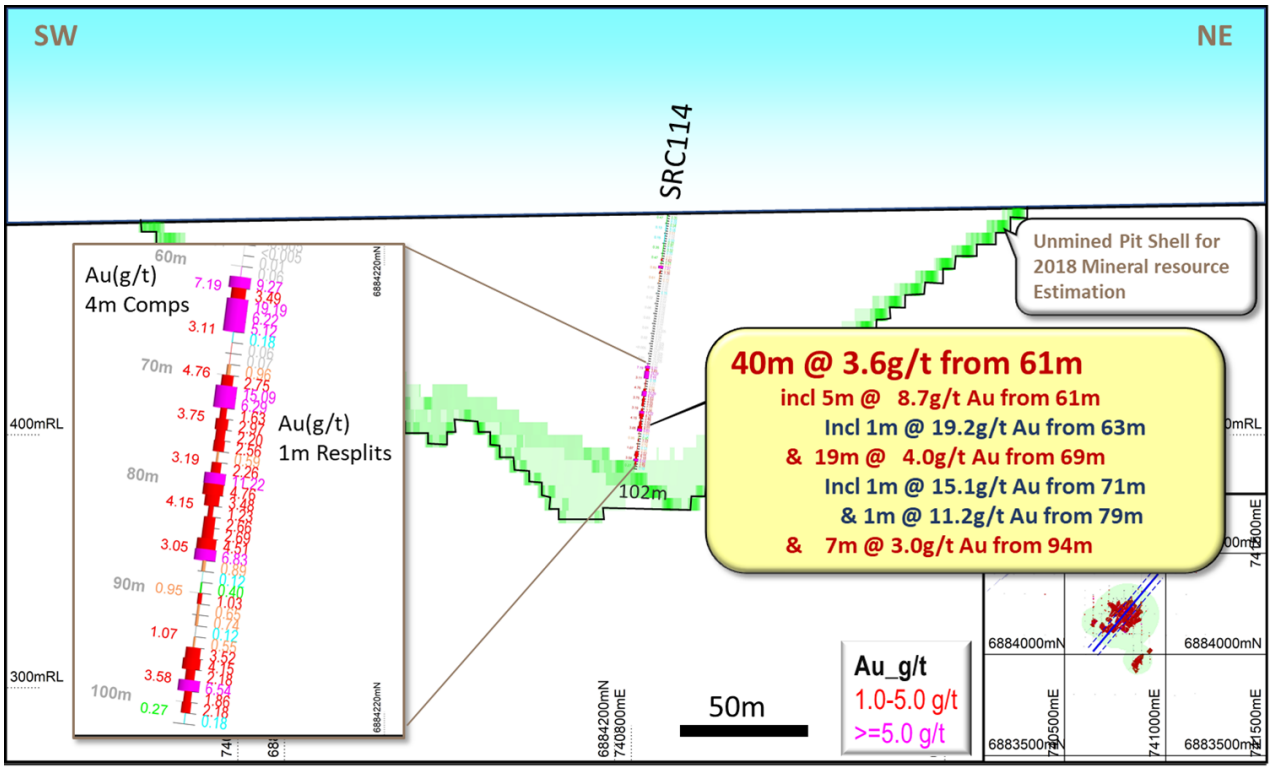


Figure 2. Vanguard Projection 130° SE (+/-150m) Showing A$2,000/oz Whittle Pit Shell for 2018 Mineral Resource Estimation and Location of Alto Hole SRC114

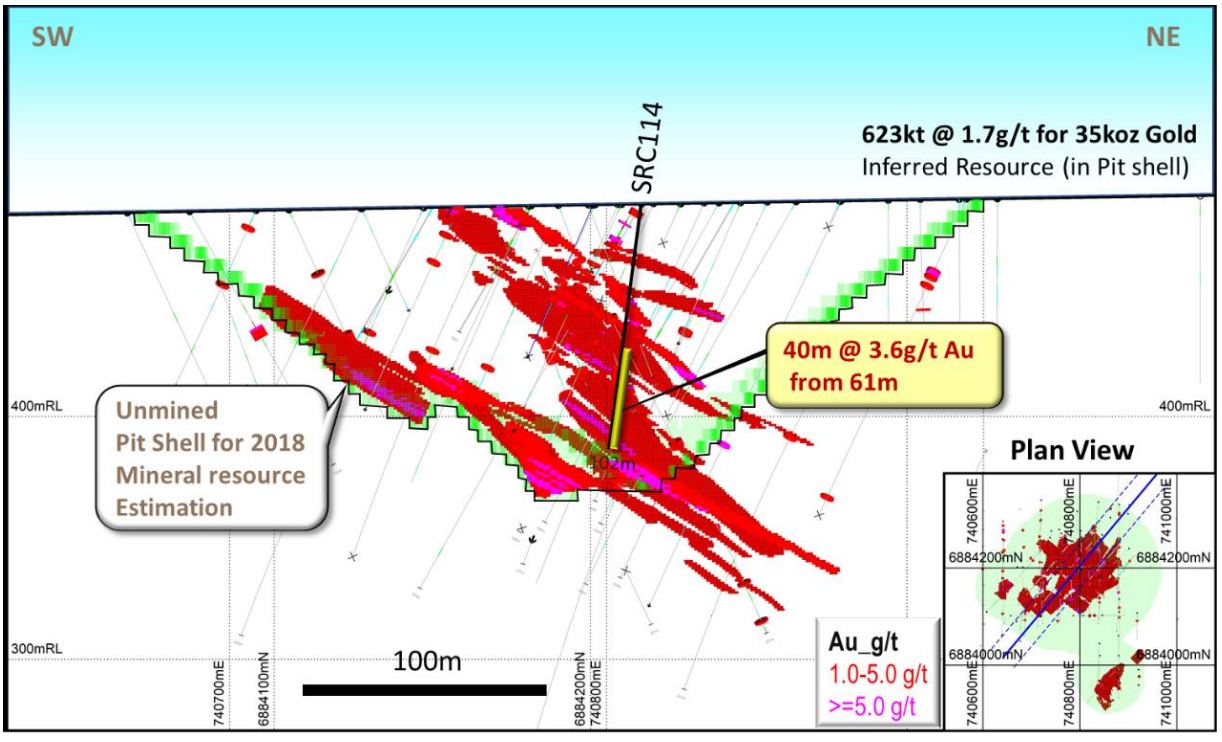
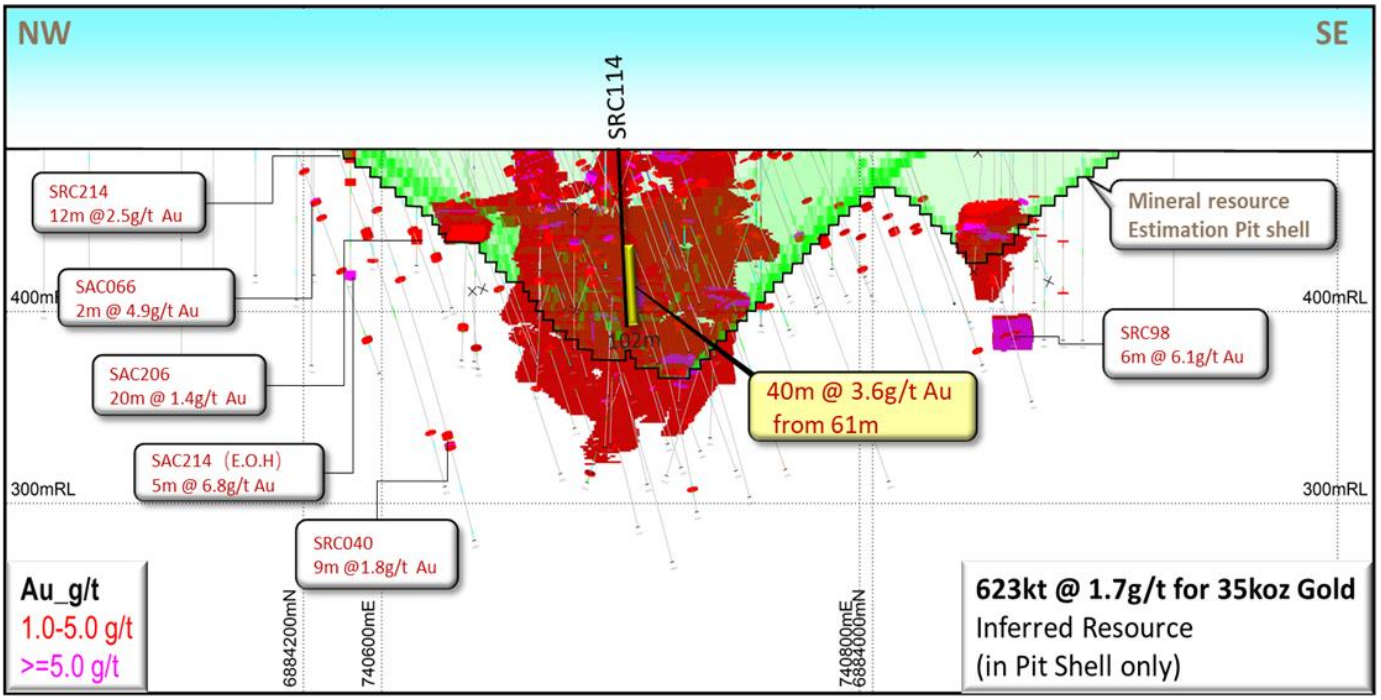


Figure 3. Vanguard Section 40° NE (+/-30m) Showing A$2,000/oz Whittle Pit Shell for 2018 Mineral Resource Estimation and Location of Alto Hole SRC114*



**White Labelled Intersections are OUTSIDE 2018 modelled Pit Shell & not in 2018 Mineral Resource Estimate*

Table 3. Vanguard RC Drill Hole SRC114, 1metre fire assays, +0.5g/t Au (minimum 3m internal dilution)

Hole No.	From (m)	To (m)	Grade (g/t Au)	Hole No.	From (m)	To (m)	Grade (g/t Au)
SRC114	7	8	0.514	SRC114	77	78	0.587
SRC114	17	18	0.505	SRC114	78	79	2.259
SRC114	18	19	1.623	SRC114	79	80	11.221
SRC114	19	20	0.212	SRC114	80	81	4.762
SRC114	20	21	0.869	SRC114	81	82	3.477
SRC114	21	22	7.574	SRC114	82	83	1.229
SRC114	22	23	0.576	SRC114	83	84	2.658
SRC114	23	24	1.358	SRC114	84	85	2.695
SRC114	26	27	0.723	SRC114	85	86	4.512
SRC114	61	62	9.268	SRC114	86	87	6.828
SRC114	62	63	3.494	SRC114	87	88	0.888
SRC114	63	64	19.186	SRC114	88	89	0.121
SRC114	64	65	6.225	SRC114	89	90	0.395
SRC114	65	66	5.119	SRC114	90	91	1.029
SRC114	66	67	0.185	SRC114	91	92	0.645
SRC114	67	68	0.061	SRC114	92	93	0.737
SRC114	68	69	0.067	SRC114	93	94	0.119
SRC114	69	70	0.964	SRC114	94	95	0.553
SRC114	70	71	2.748	SRC114	95	96	3.523
SRC114	71	72	15.089	SRC114	96	97	4.149
SRC114	72	73	6.285	SRC114	97	98	2.183
SRC114	73	74	1.629	SRC114	98	99	6.544
SRC114	75	76	2.202	SRC114	99	100	1.863
SRC114	76	77	2.556	SRC114	100	101	2.184

SRC114 drilled in Exploration Licence E57/1033, Co-ords in GDA94

FORWARD EXPLORATION PLANS Q4 2018 - 2019

The forward exploration plan at Sandstone will build on the work completed over the past 24 months and will include:

- RC and diamond core drilling at Vanguard Camp and Indomitable Camp deposits to define the extent of the mineralised structures
- AC drill testing of soil and laterite gold geochemical anomalies

The Company will also progress its resource evaluation work with:

- Maiden mineral resource estimation (JORC 2012) for Ladybird, Havilah and Sandstone North using existing available data
- Update to the Company's JORC 2012 Mineral Resource inventory
- Geotechnical drilling, bulk density measurements and metallurgical testwork where required to convert gold mineralisation into mineral resource

ABOUT ALTO AND THE SANDSTONE GOLD PROJECT

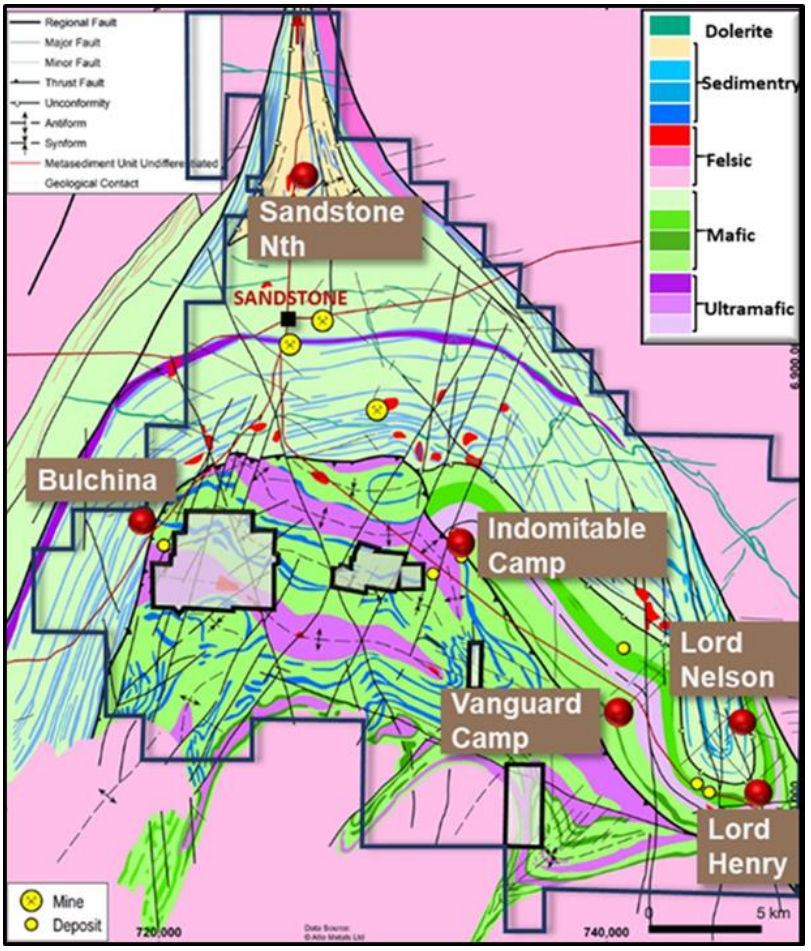
Alto holds ~800km^2 of the prospective Archaean Sandstone Goldfield, 600km north of Perth in the East Murchison Mineral Field of Western Australia.

Since acquiring the Project in June 2016, Alto has compiled and reviewed a large legacy database ahead of a series of focused exploration and drilling campaigns which commenced in late-2016.

Alto's goal is the delineation of a +1 million-ounce JORC 2012 Mineral Resource that could become the basis for a re-establishment of standalone oxide and primary gold mining and milling operations at the Project.

However, it is possible that in the short term, some of the existing open pit deposits may be amenable to treatment in a third party's operating plant.

Figure 4. Sandstone Geology Plan showing Alto Prospects and Landholdings



ALTO'S SANDSTONE 2018 MINERAL RESOURCE INVENTORY

Table 4. Sandstone Gold Project – Summary of Total Mineral Resources (JORC 2012)

Deposit	Classification	Cut-off Grade (g/t Au)	Tonnage (Kt)	Grade (g/t Au)	Contained Gold (oz)
Lord Henry[1]	Indicated	0.8	1,200	1.6	65,000
TOTAL INDICATED			1,200	1.6	65,000
Lord Henry[1]	Inferred	0.8	110	1.3	4,000
Lord Nelson[2]	Inferred	0.8	980	2.2	68,000
Indomitable Camp[3]	Inferred	0.5	1,730	1.3	74,000
Vanguard Camp[3]	Inferred	0.5	850	1.8	50,000
TOTAL INFERRED			3,670	1.7	196,000
TOTAL INDICATED & INFERRED[4]			4,870	1.7	261,000

Footnote 1: *AME ASX Release 16 May 2017. "Maiden Lord Henry JORC 2012 Mineral Resource of 69,000oz."*

Footnote 2: *AME ASX Release 28 April 2017. "Lord Nelson Mineral Resource Increased to 68,000oz."*

Footnote 3: *AME ASX Release 25 September 2018. "Maiden Gold Resource at Indomitable and Vanguard Camps, Sandstone WA"*

Footnote 4: *For reporting purposes, Table 6 totals have been rounded. Rounding may result in some slight discrepancies in totals reported*

All material assumptions and technical parameters underpinning the 2017 and 2018 JORC (2012) Mineral Resource estimates in the above ASX announcements continue to apply and have not materially changed since last reported.

Further information:

Dermot Ryan

Managing Director
+61 8 9381 2808 admin@altometals.com.au www.altometals.com.au

Competent Person Statement

The information in this Report that relates to Exploration Results is based on information compiled by Mr Dermot Ryan, who is an employee of XServ Pty Ltd and a Director and security holder of the Company. Mr Ryan is a Fellow of the Australasian Institute of Mining and Metallurgy (CP Geology) and has sufficient experience of relevance to the styles of mineralisation and the types of deposits under consideration, and to the activities undertaken, to qualify as a Competent Person as defined in the 2012 Edition of the Joint Ore Reserves Committee (JORC) Australasian Code for Reporting of Exploration Results, Mineral Resources and Ore Reserves.

Forward Looking Statements

Certain statements in this document are or maybe "forward-looking statements" and represent Alto's intentions, projections, expectations or beliefs concerning among other things, future exploration activities. The projections, estimates and beliefs contained in such forward-looking statements don't necessarily involve known and unknown risks, uncertainties and other factors, many of which are beyond the control of Alto, and which may cause Alto's actual performance in future periods to differ materially from any express or implied estimates or projections. Nothing in this document is a promise or representation as to the future. Statements or assumptions in this document as to future matters may prove to be incorrect and differences may be material. Alto does not make any representation or warranty as to the accuracy of such statements or assumptions.

JORC 2012 TABLE 1 REPORT
SANDSTONE PROJECT

SECTION 1 - Sampling Techniques and Data

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

Criteria	Commentary
Sampling techniques	• Reverse Circulation (RC) samples were passed directly from the in-line cyclone through a rig mounted cone splitter. Samples were collected in 1m intervals into bulk plastic bags and 1m calico splits (which were retained for later use). • From the bulk sample, a 4 metre composite sample was collected using a split PVC scoop and then submitted to the laboratory for analysis. • RC 1m splits were submitted to the laboratory if the composite sample assay values are equal to or greater than 0.2g/t Au.
Drilling techniques	• RC drilling was with a KWL 350 drill rig with an onboard 1100/350 compressor using a sampling hammer of nominal 140mm hole.
Drill sample recovery	• RC samples had excellent good recovery. • Recovery was estimated as a percentage and recorded on field sheets prior to entry into the database.
Logging	• RC drill chips were sieved from each 1m sample and geologically logged. • Washed drill chips from each 1m sample were stored in chip trays and photographed. • Geological logging of drill hole intervals was carried out with sufficient detail to meet the requirements of resource estimation.
Subsampling techniques and sample preparation	**MinAnalytical Laboratory** • MinAnalytical Laboratory Services Australia Pty Ltd located in Canning Vale, Western Australia, were responsible for sample preparation and assaying for drill hole samples and associated check assays. MinAnalytical is certified to NATA in accordance with ISO 17025:2005 ISO requirements for all related inspection, verification, testing and certification activities. • 3kg 4m composite RC samples were dried and then ground in an LM5 ring mill for 85% passing 75 Microns. • Subsequently, intervals of 4m composite samples reporting greater than 0.2g/t Au were selected for re-assay, and 1m re-split samples were submitted for 50gm fire assay. • RC 1m samples were analysed using 50 gm fire assay with AAS finish.
Quality of assay data and laboratory tests	• For 1m re-split samples; field standards and field blanks were inserted at a ratio of 1:20. • Laboratory Certified Reference Materials and/or in-house controls, blanks, splits and replicates are analysed with each batch of samples by the laboratory. These quality control results are reported along with the sample values in the final report. Selected samples are also re-analysed to confirm anomalous results. • Laboratory and field QA/QC results are reviewed by Alto Metals Ltd (AME) personnel.
Verification of sampling and assaying	• 50gm fire assay results reported from the3kg 1m samples were compared with the 50gm fire assay results reported from the 4m 3kg samples and there was a good correlation.
Location of data points	• The grid is based on GDA94 zone 50. • AME used handheld Garmin GPS to locate and record drill collar positions, accurate to +/- 5 metres.
Data spacing and distribution	• RC drill hole SRC114 was designed to test the geological models and to collect samples for preliminary metallurgical testwork and were therefore located to target high-grade mineralisation.

Criteria	Commentary
Orientation of data in relation to geological structure	• RC drill hole SRC114 was designed to confirm Alto's geological models and intersect high grade mineralisation. • Geological structures have been interpreted from drilling.
Sample security	• 1m original RC drill samples comprised approximately 3 kg of material within a labelled and tied calico bag. • Individual sample bags were placed in a larger plastic poly-weave bag then into a bulka bag that was tied and despatched to the laboratory via McMahon Burnett freight. • Sampling data was recorded on field sheets and entered into a database then sent to the head office. • Laboratory submission sheets are also completed and sent to the laboratory prior to sample receival.
Audits and reviews	• A Mineral Resource Estimate for the Vanguard and Vanguard North deposits was prepared for AME by Carras Mining Pty Ltd and released to the ASX on 25 September 2018.

SECTION 2 - Reporting of Exploration Results

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

Criteria	Commentary
Mineral tenement and land tenure	• AME's Sandstone Project is located in the East Murchison region, Western Australia and covers approximately 800 km^2 with five exploration licences all granted on 20 September 2016 and two prospecting licences granted on 11 June 2016. • All tenements are currently in good standing with the Department of Mines, Industry Regulation and Safety. • Royalties include a 2% of the Gross Revenue payable to a third party, and a 2.5% royalty payable to the State Government. • AME has undertaken heritage surveys with the Native Title Claimants and the surveys have cleared the areas of drilling of any heritage sites. • AME's Vanguard RC drilling was carried out on Exploration Licence 57/1033, granted on 20 September 2016 to Sandstone Exploration Pty Ltd, a wholly owned subsidiary of ASX listed AME.
Exploration done by other parties	• Historically gold was first discovered in the Sandstone area in the 1890's and early mining was carried out at Vanguard. • At Vanguard, Western Mining Corporation (WMC) carried out surface geochemistry, geological mapping and percussion drilling in the 1980's. Herald Resources Limited completed RAB and RC drilling and resource estimation in the 1990's. Troy Resources NL (Troy) completed AC and RC drilling and resource estimation between 1999 and 2009.
Geology	• The Sandstone Greenstone Belt is a triangular shaped belt interpreted to be a north-plunging antiform located at the northern end of the Southern Cross province. • The belt consists of mafic volcanic and intrusive rocks with subordinate ultramafic, banded iron formation, and siliciclastic sediments. Granitoid plutons intrude the southern margin of the belt. • Much of the project area is covered by depositional regolith units including colluvial, sheet wash, alluvial and sandplain deposits. Several major active drainage areas host transported alluvium up to 15m thick. • The Vanguard and Vanguard North deposits are located in a sequence of northwest trending mafic and ultramafic rocks with minor intercalated BIF units.
Drill hole information	• All material drill hole information has been reported on a continual basis by AME.
Data aggregation methods	• When AME exploration results have been reported, a 0.5g/t cut-off grade has been applied.

Criteria	Commentary
	• No metal equivalents have been used or reported. • The reported grades are uncut.
Relationship between mineralisation widths and intercept lengths	• Deeper intercepts in angled holes may or may not be true widths due to a lack of systematic drilling, deep oxidation, interpreted multiple structures and no diamond drill core.
Diagrams	• Diagrams are included to accompany this JORC table.
Balanced reporting	• All available AME drill hole Au assay results from the Vanguard Deposit have been published, using 0.5g/t Au cut-off grade.
Other substantive exploration data	• There is no other material information available at this stage.
Further work	• Further drilling, including AC, RC and diamond core will be carried out in future to follow-up AC and RC mineralised intercepts, provide appropriate bulk density measurements and samples for more detailed metallurgical testwork, and for resource extension and upgrade.