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Exploration Update for Havilah Sandstone Gold Project, WA

HIGHLIGHTS

- High-grade gold mineralisation confirmed from previous explorers' drilling at Havilah
- ➤ Geology and mineralisation at Havilah similar to Vanguard deposit, 6km northwest (Sept 2018 Maiden JORC 2012 Resource of 50,000ozAu)
- > Significant RC and DC* drill intercepts at Havilah include:

| W119 | : | 7m | @ | 20.8 g/t Au | from | 2m |
|---------|---|-----|---|-------------|------|-----|
| incl | : | 1m | @ | 120 g/t Au | from | 5m |
| *MAD004 | : | 17m | @ | 8.5 g/t Au | from | 32m |
| and | : | 2m | @ | 61.8 g/t Au | from | 65m |
| W075 | : | 3m | @ | 37.2 g/t Au | from | 8m |
| MGR018 | : | 4m | @ | 10.7 g/t Au | from | 37m |
| W158 | : | 3m | @ | 10.8 g/t Au | from | 17m |

Mineral Resource estimate (JORC 2012) in Progress and RC drilling planned for Q1, 2019

Alto Metals Limited (ASX: AME) ("Alto", "the Company") is pleased to provide an update on its exploration activity and forward plans for the Havilah Prospect at its Sandstone Gold Project in Western Australia.

Compilation and review of previous explorer's data has confirmed the high-grade gold mineralisation at the historic Havilah gold mine is hosted within a differentiated dolerite unit similar to Alto's Vanguard deposit and that significant potential exists for extension of mineralisation at depth and along strike. The Havilah deposit is located within the high priority "Alpha Domain", supporting Alto's view that the domain has potential to host a substantial gold deposit.

Alto's Executive Director, Dermot Ryan said:

"The style of mineralisation and grade at Havilah is very encouraging. There is a major paleochannel ~5km between Havilah and Vanguard, which is yet to be drill tested by Alto. This represents an excellent target area. In addition, the drilling data and 3D model suggests that the deposit is open down plunge to the northwest and to the southeast."

Introduction

Compilation and review of previous explorers' data by Alto has confirmed that high-grade mineralisation at the Havilah Prospect occurs within differentiated mafic volcanic host rocks similar to Alto's Vanguard deposit 6km to the northwest and both within Alto's priority 1 "Alpha Domain."

The recorded production from the Havilah Mine area between 1904 - 1929 ~ **48,497 tonnes @ 21.6g/t Au for 33,870oz** with the majority of this during the period 1907 - 1911. The historic miners largely stoped out a high-grade "footwall" zone, and left intact a lower grade "hanging wall" zone of mineralisation which was subsequently drilled by modern explorers.

Drilling

Between 1980 and 2009 a total of 210 drill holes for 7,240m were drilled at Havilah by previous explorers. Drilling methods included rotary air blast (RAB), air-core (AC), reverse circulation (RC) and diamond drill core (DC) with the majority of drilling (~79%) being RC and DC (refer Appendix 1). Maximum drill hole depth was 123m with an average maximum depth of only 34m.

Alto has captured and digitised the existing drilling data and detailed historic underground workings and produced a 3D model of the geology, mineralisation and underground workings. (Refer Figure 1, Long Section, and Figures 2 & 3, Cross Sections) The surface location of drill collars was validated by Alto's aerial drone imagery (refer Figure 4 overleaf).

The model has assisted with interpretation of the mineralisation, the targeting of future drilling and will enable Alto to account for the 'mined out' areas in the JORC (2012) mineral resource estimate which is planned for later in January.

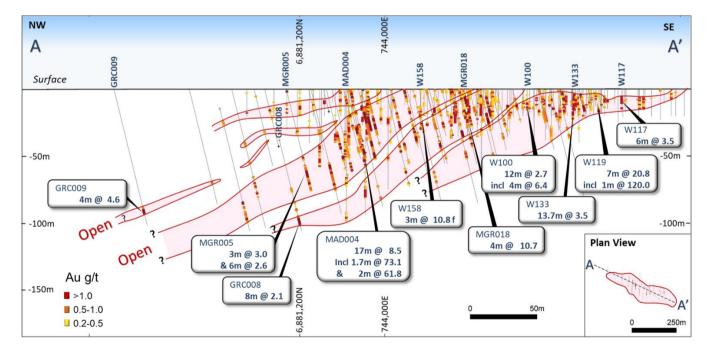


Figure 1. NW-SE 115° Long Section A - A' (+/-50m)

Geology

Detailed geological mapping by Homestake Australia Limited (Homestake) and interpretation of drilling data by Homestake and other explorers has shown the Havilah Mine area to be underlain by a WNW striking dolerite unit termed the Havilah Dolerite, bounded to the northeast by pillowed and amygdaloidal basalt, and to the southwest by ultramafic rocks. Refer Figure 5.

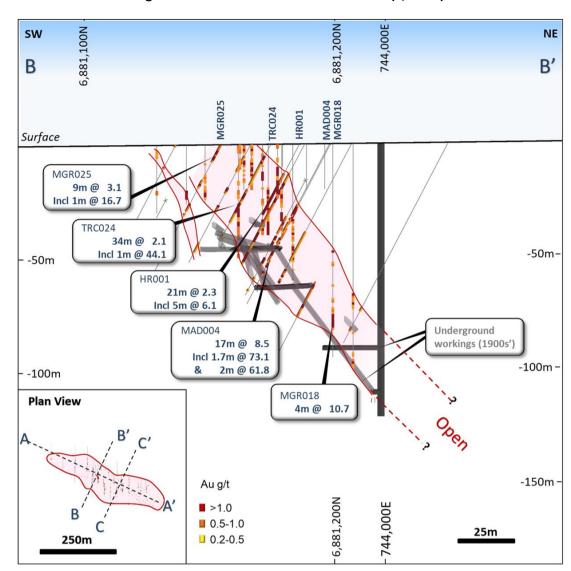


Figure 2. SW-NE 25° Cross Section B - B' (+/-20m)

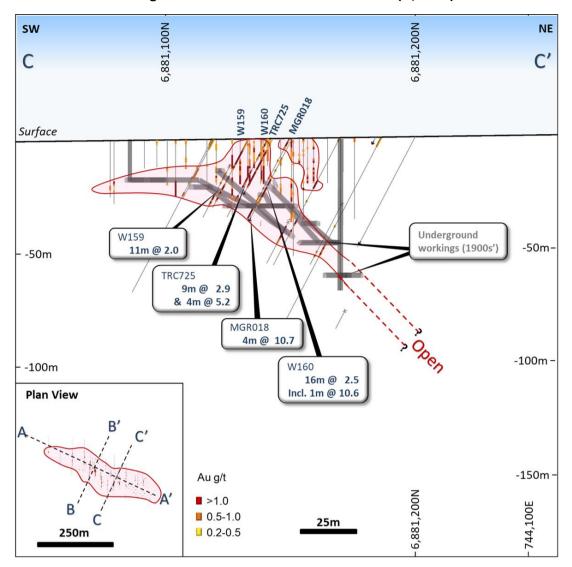
Within the mineralised portion of the Havilah Dolerite, drilling has intersected dolerites and basalts of similar mineralogy, suggesting the Havilah Dolerite is a differentiated mafic unit. Granophyric quartz dolerite has also been identified in historic mullock dumps. Based on petrology of thin sections of diamond drill core, previous explorers reported a similarity between the Havilah Dolerite and the lower units of the Golden Mile Dolerite.

Mineralisation is confined to the Havilah Dolerite close to the dolerite/basalt contact and consists of quartz veins and stockworks within a flat-dipping, northwest striking mineralised shoot with a plunge of approximately 20 degrees to the northwest.

Quartz-carbonate veins up to 0.5m wide have been intersected in drill core with recognisable selvedges to the mineralisation up to 10m in width. Sulphides occur both in the veins and the adjacent wall rocks and consist of dominant pyrite and arsenopyrite with minor pyrrhotite and trace chalcopyrite.

The mineralised zones are surrounded by a chlorite alteration envelope approximately 1km wide and at least 6km long. Carbonate alteration is intimately associated with the mineralisation both in stockwork and shear-controlled zones. The geology and mineralisation at Havilah is similar to Alto's Vanguard deposit 6km along strike to the northwest (0.8Mt at 1.8g/t Au for 50,000oz).

Figure 3. SW-NE 25° Cross Section C - C' (+/-20m)



Fresh Rock Mullock Dump at Havilah Mine Showing Abundant Quartz



Mullock Dump at Havilah Mine Showing Abundant Quartz

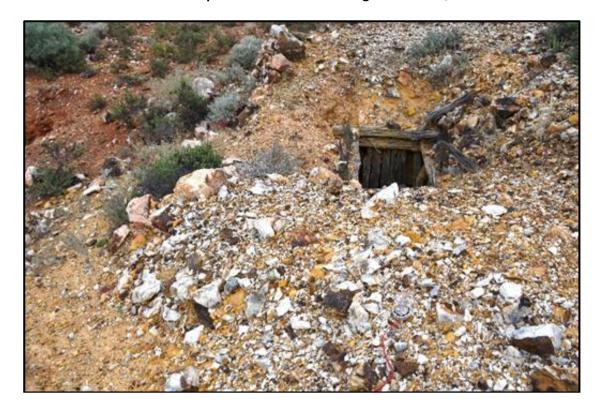
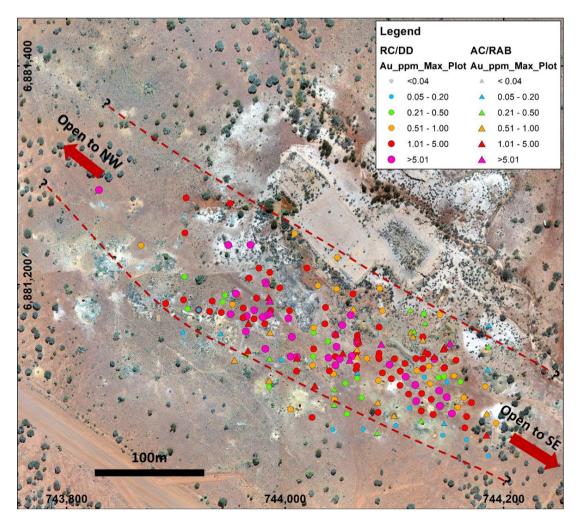


Figure 4. Max Au reported to drill hole collars overlying Alto's aerial drone imagery



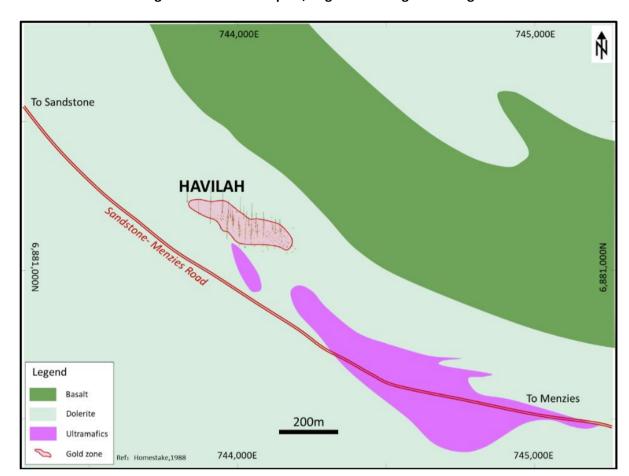


Figure 5. Havilah Prospect, Regional Geological setting

Alto Metals Ltd has commissioned Dr Spero Carras of Carras Mining Pty Ltd to prepare a JORC (2012) Mineral Resource Estimate for the Havilah deposit. This should be completed close to end of January 2019.

Further RC drilling is planned to test the down-dip/down-plunge extensions to the mineralisation and potentially expand the mineralised area.

ABOUT ALTO AND THE SANDSTONE GOLD PROJECT

Alto holds ~800km² 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.

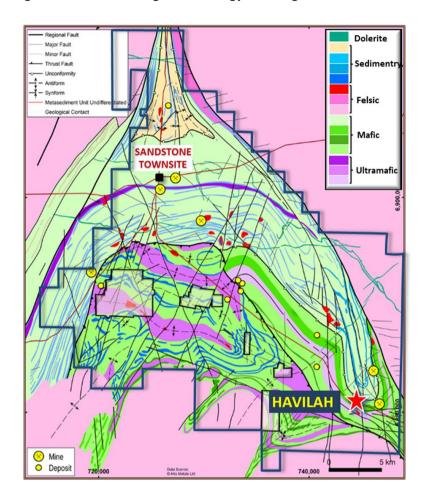


Figure 6. Sandstone Regional Geology Showing Location of Havilah

Further information:

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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.

Historic exploration results referred to in this Report were previously reported by Troy Resources NL pursuant to JORC Code 2004. Alto Metals Limited understands that this information has not been updated since to comply with the JORC Code 2012, but believes the information has not materially changed since it was last reported.

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.

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| , | | anatone com reject in y morniación memorandan |

APPENDIX 1. Significant Historical Drilling Intercepts at the Havilah Prospect +1.0g/t Au

| Hole ID | Drill Type | East GDA94 | North GDA94 | mRL AHD | Depth (m) | Dip (deg) | Azimut h (deg) | From (m) | To (m) | Interval (m) | Grade (g/t |
|---------|---------------|---------------|----------------|------------|--------------|--------------|-------------------|-------------|-----------|-----------------|---------------|
| G002 | RAB | 744137 | 6881134 | 477.49 | 30 | -90 | 0 | 6 | 24 | 18 | 1.7 |
| G003 | RAB | 744128 | 6881139 | 477.48 | 30 | -90 | 0 | 14 | 24 | 10 | 1.1 |
| G004 | RAB | 744151 | 6881146 | 477.75 | 22 | -90 | 0 | 20 | 22 | 2 | 3.7 |
| G009 | RAB | 744088 | 6881145 | 477.26 | 36 | -90 | 0 | 12 | 16 | 4 | 3.5 |
| G010 | RAB | 744066 | 6881151 | 477.17 | 36 | -90 | 0 | 0 | 1 | 1 | 1.0 |
| and | | | | | | | | 22 | 23 | 1 | 2.5 |
| G011 | RAB | 744059 | 6881131 | 476.87 | 13 | -90 | 0 | 3 | 13 | 10 | 2.3 |
| G012 | RAB | 744053 | 6881137 | 476.9 | 19 | -90 | 0 | 12 | 19 | 7 | 1.1 |
| G013 | RAB | 744027 | 6881107 | 476.41 | 25 | -90 | 0 | 18 | 25 | 7 | 1.6 |
| G014 | RAB | 744011 | 6881133 | 476.6 | 30 | -90 | 0 | 14 | 17 | 3 | 1.2 |
| and | | | | | | | | 28 | 30 | 2 | 2.6 |
| G020 | RAB | 744184 | 6881062 | 476.86 | 20 | -90 | 0 | 2 | 8 | 6 | 1.4 |
| G028 | RAB | 744146 | 6881143 | 477.67 | 41 | -90 | 0 | 15 | 18 | 3 | 1.2 |
| G035 | RAB | 744046 | 6881155 | 477.06 | 37 | -90 | 0 | 0 | 10 | 10 | 1.1 |
| and | | | | | | | | 18 | 28 | 10 | 1.0 |
| G040 | RAB | 743987 | 6881174 | 476.92 | 24 | -90 | 0 | 10 | 24 | 14 | 3.2 |
| G041 | RAB | 743966 | 6881139 | 476.47 | 26 | -90 | 0 | 20 | 24 | 4 | 2.3 |
| G042 | RAB | 743966 | 6881164 | 476.73 | 50 | -90 | 0 | 20 | 42 | 22 | 1.0 |
| GRC003 | RC | 743909 | 6881279 | 477.58 | 123 | -60 | 180 | 98 | 100 | 2 | 1.1 |
| and | | | | | | | | 112 | 114 | 2 | 1.1 |
| GRC005 | RC | 743968 | 6881236 | 477.46 | 108 | -60 | 180 | 64 | 88 | 24 | 1.2 |
| GRC008 | RC | 743950 | 6881274 | 477.74 | 123 | -60 | 180 | 110 | 118 | 8 | 2.1 |
| GRC009 | RC | 743830 | 6881287 | 477.22 | 117 | -60 | 180 | 104 | 108 | 4 | 4.6 |
| GRC010 | RC | 743987 | 6881176 | 476.94 | 40 | -90 | 0 | 22 | 24 | 2 | 1.2 |
| and | | | | | | | | 30 | 34 | 4 | 2.1 |
| HA006 | AC | 743985 | 6881188 | 477.06 | 61 | -90 | 0 | 15 | 61 | 46 | 1.1 |
| HR001 | RAB | 743986 | 6881185 | 477.03 | 36 | -90 | 0 | 15 | 36 | 21 | 2.3 |
| HR005 | RAB | 744145 | 6881141 | 477.64 | 26 | -90 | 0 | 5 | 20 | 15 | 1.3 |
| MAD004 | DD | 743982 | 6881202 | 477.19 | 81.4 | -60 | 180 | 32 | 49 | 17 | 8.5 |
| and | | | | | | | | 59.2 | 62.9 | 3.7 | 1.4 |
| and | | | | | | | | 65 | 67 | 2 | 61.8 |
| MAD005 | DD | 743908 | 6881247 | 477.28 | 120 | -60 | 180 | 81 | 82 | 1 | 1.2 |
| and | | | | | | | | 84 | 86 | 2 | 1.1 |
| MAD007 | DD | 744062 | 6881191 | 477.59 | 99 | -60 | 180 | 54 | 61 | 7 | 1.0 |
| MGR004 | RC | 744066 | 6881146 | 477.1 | 70 | -60 | 180 | 21 | 34 | 13 | 2.4 |
| MGR005 | RC | 743948 | 6881236 | 477.35 | 88 | -60 | 180 | 2 | 3 | 1 | 2.9 |
| and | | _ | | | 1 | | - | 59 | 62 | 3 | 3.0 |
| and | | | | | | | | 66 | 84 | 18 | 1.4 |
| incl. | | | | | 1 | | 1 | 71 | 77 | 6 | 2.6 |
| MGR011 | RC | 744126 | 6881132 | 477.38 | 23 | -60 | 180 | 2 | 12 | 10 | 1.0 |
| MGR012 | RC | 744126 | 6881152 | 477.63 | 65 | -60 | 180 | 24 | 25 | 1 | 1.2 |
| MGR014 | RC | 744086 | 6881161 | 477.43 | 41 | -60 | 180 | 30 | 32 | 2 | 1.2 |
| MGR014 | RC | 744086 | 6881132 | 477.09 | 29 | -60 | 180 | 13 | 18 | 5 | 1.1 |
| MGR017 | RC | 744046 | 6881134 | 476.82 | 35 | -60 | 180 | 0 | 16 | 16 | 1.6 |
| and | | 7.1040 | 0001107 | 0.02 | - 33 | - 55 | 100 | 19 | 29 | 10 | 1.3 |

| Hole ID | Drill Type | East GDA94 | North GDA94 | mRL AHD | Depth (m) | Dip (deg) | Azimut h (deg) | From (m) | To (m) | Interval (m) | Grade (g/t |
|---------|---------------|---------------|----------------|------------|--------------|--------------|-------------------|----------|-----------|-----------------|---------------|
| MGR018 | RC | 744046 | 6881154 | 477.05 | 41 | -60 | 180 | 0 | 6 | 6 | 1.4 |
| and | | | | | | | | 37 | 41 | 4 | 10.7 |
| MGR019 | RC | 744060 | 6881172 | 477.36 | 65 | -60 | 180 | 22 | 26 | 4 | 1.5 |
| and | | | | | | | | 41 | 48 | 7 | 1.9 |
| MGR021 | RC | 744005 | 6881134 | 476.58 | 50 | -60 | 180 | 23 | 24 | 1 | 1.0 |
| and | | | | | | | | 29 | 35 | 6 | 2.4 |
| MGR022 | RC | 744006 | 6881152 | 476.79 | 50 | -60 | 180 | 0 | 9 | 9 | 1.0 |
| and | | | | | | | | 16 | 21 | 5 | 1.3 |
| and | | | | | | | | 30 | 47 | 17 | 1.2 |
| MGR023 | RC | 744003 | 6881169 | 476.95 | 65 | -60 | 180 | 7 | 17 | 10 | 2.5 |
| and | | | | | | | | 20 | 25 | 5 | 1.1 |
| and | | | | | | | | 28 | 35 | 7 | 1.3 |
| and | | | | | | | | 46 | 53 | 7 | 1.2 |
| MGR025 | RC | 743964 | 6881157 | 476.65 | 80 | -60 | 180 | 0 | 9 | 9 | 3.1 |
| and | | | | | | | | 20 | 21 | 1 | 1.3 |
| and | | | | | | | | 30 | 34 | 4 | 1.1 |
| MGR026 | RC | 743967 | 6881206 | 477.15 | 77 | -60 | 180 | 37 | 52 | 15 | 1.0 |
| and | | | | | | | | 58 | 63 | 5 | 1.6 |
| MGR027 | RC | 743907 | 6881186 | 476.71 | 59 | -60 | 180 | 17 | 19 | 2 | 1.1 |
| TAC024 | | 743983 | 6881201 | 477.18 | 62 | -90 | 0 | 31 | 37 | 6 | 2.3 |
| and | | | | | | | | 48 | 60 | 12 | 4.7 |
| TRC005 | RC | 743976 | 6881215 | 477.29 | 71 | -60 | 180 | 64 | 71 | 7 | 1.4 |
| TRC024 | RC | 743984 | 6881172 | 476.88 | 50 | -60 | 180 | 6 | 40 | 34 | 2.1 |
| TRC026 | RC | 743965 | 6881171 | 476.79 | 60 | -60 | 180 | 7 | 13 | 6 | 1.0 |
| and | | | | | | | | 22 | 25 | 3 | 3.9 |
| and | | | | | | | | 31 | 34 | 3 | 1.1 |
| TRC030 | RC | 744065 | 6881137 | 476.99 | 30 | -60 | 180 | 6 | 25 | 19 | 1.7 |
| TRC698 | RC | 744004 | 6881176 | 477.03 | 75 | -90 | 0 | 21 | 27 | 6 | 1.6 |
| and | | | | | | | | 50 | 53 | 3 | 1.1 |
| TRC723 | RC | 744026 | 6881141 | 476.78 | 40 | -60 | 180 | 28 | 34 | 6 | 1.5 |
| TRC724 | RC | 744037 | 6881179 | 477.27 | 64 | -60 | 180 | 22 | 24 | 2 | 2.5 |
| and | | | | | | | | 34 | 35 | 1 | 1.3 |
| and | | | | | | | | 45 | 54 | 9 | 1.7 |
| TRC725 | RC | 744047 | 6881143 | 476.93 | 40 | -60 | 180 | 3 | 4 | 1 | 1.0 |
| and | | | | | | | | 8 | 9 | 1 | 1.3 |
| and | | | | | | | | 16 | 25 | 9 | 2.9 |
| and | | | | | | | | 29 | 32 | 3 | 2.2 |
| TRC741 | RC | 744020 | 6881215 | 477.55 | 85 | -60 | 180 | 49 | 52 | 3 | 1.0 |
| and | | | | | | | | 71 | 73 | 2 | 1.5 |
| TRC742 | RC | 744067 | 6881146 | 477.11 | 52 | -90 | 0 | 29 | 31 | 2 | 1.1 |
| TRC743 | RC | 743995 | 6881197 | 477.2 | 94 | -90 | 0 | 47 | 48 | 1 | 1.2 |
| and | | | | | | | | 68 | 82 | 14 | 1.3 |
| TRC744 | RC | 743986 | 6881211 | 477.3 | 100 | -90 | 0 | 66 | 73 | 7 | 1.2 |
| and | | | | | | | | 96 | 97 | 1 | 1.3 |
| TRC811 | RC | 744166 | 6881079 | 476.98 | 15 | -90 | 0 | 6 | 7 | 1 | 1.1 |
| and | | | | | | | | 10 | 15 | 5 | 1.0 |
| TRC813 | RC | 744146 | 6881124 | 477.43 | 20 | -90 | 0 | 8 | 12 | 4 | 1.4 |

| Hole ID | Drill Type | East GDA94 | North GDA94 | mRL AHD | Depth (m) | Dip (deg) | Azimut h (deg) | From (m) | To (m) | Interval (m) | Grade (g/t |
|--------------|---------------|------------------|--------------------|------------------|--------------|--------------|-------------------|-------------|-----------|-----------------|---------------|
| TRC814 | RC | 744126 | 6881123 | 477.27 | 15 | -90 | 0 | 5 | 8 | 3 | 1.4 |
| and | | | | | | | | 11 | 12 | 1 | 1.0 |
| TRC815 | RC | 744086 | 6881137 | 477.15 | 34 | -90 | 0 | 18 | 22 | 4 | 1.0 |
| TRC816 | RC | 744065 | 6881122 | 476.82 | 30 | -90 | 0 | 2 | 6 | 4 | 1.1 |
| and | | | | | | | | 16 | 17 | 1 | 1.1 |
| TRC818 | RC | 744046 | 6881126 | 476.73 | 34 | -90 | 0 | 7 | 14 | 7 | 2.5 |
| and | | | | | | | | 17 | 27 | 10 | 1.6 |
| W011 | RC | 744066 | 6881149 | 477.14 | 12 | -90 | 0 | 7 | 11 | 4 | 2.1 |
| W068 | RC | 744050 | 6881132 | 476.82 | 18 | -90 | 0 | 12 | 17 | 5 | 3.7 |
| W075 | RC | 743950 | 6881173 | 476.74 | 20 | -90 | 0 | 8 | 11 | 3 | 37.2 |
| W078 | RC | 743980 | 6881170 | 476.84 | 16 | -90 | 0 | 2 | 16 | 14 | 1.4 |
| W084 | RC | 744040 | 6881121 | 476.64 | 20 | -90 | 0 | 16 | 19 | 3 | 1.4 |
| W087 | RC | 744085 | 6881083 | 476.5 | 20 | -90 | 0 | 14 | 19 | 5 | 1.0 |
| W089 | RC | 744142 | 6881089 | 476.96 | 20 | -90 | 0 | 6 | 10 | 4 | 3.8 |
| W092 | RC | 744125 | 6881100 | 476.99 | 20 | -90 | 0 | 5 | 12 | 7 | 1.6 |
| W093 | RC | 744110 | 6881116 | 477.07 | 20 | -90 | 0 | 4 | 10 | 6 | 2.4 |
| W097 | RC | 744066 | 6881125 | 476.86 | 20 | -90 | 0 | 12 | 13 | 1 | 1.1 |
| and | | | | | | | | 16 | 20 | 4 | 1.7 |
| W100 | RC | 744096 | 6881127 | 477.09 | 20 | -90 | 0 | 4 | 16 | 12 | 2.7 |
| W102 | RC | 744066 | 6881153 | 477.19 | 20 | -90 | 0 | 13 | 20 | 7 | 1.4 |
| W103 | RC | 744052 | 6881163 | 477.19 | 20 | -90 | 0 | 4 | 5 | 1 | 1.1 |
| and | | | | | | | | 9 | 20 | 11 | 1.7 |
| W106 | RC | 743931 | 6881175 | 476.69 | 20 | -90 | 0 | 12 | 15 | 3 | 1.2 |
| W108 | RC | 743891 | 6881183 | 476.63 | 20 | -90 | 0 | 17 | 18 | 1 | 1.2 |
| W109 | RC | 743933 | 6881185 | 476.8 | 35 | -90 | 0 | 31 | 32 | 1 | 1.1 |
| W110 | RC | 744089 | 6881119 | 476.95 | 17.5 | -90 | 0 | 8 | 14 | 6 | 1.4 |
| W111 | RC | 744097 | 6881114 | 476.95 | 15 | -90 | 0 | 6 | 13 | 7 | 1.6 |
| W112 | RC | 744105 | 6881108 | 476.94 | 15 | -90 | 0 | 5 | 13 | 8 | 1.1 |
| W113 | RC | 744113 | 6881100 | 476.9 | 15 | -90 | 0 | 11 | 15 | 4 | 1.3 |
| W114 | RC | 744120 | 6881093 | 476.86 | 18 | -90 | 0 | 5 | 14 | 9 | 1.8 |
| W115 | RC | 744125 | 6881084 | 476.78 | 18 | -90 | 0 | 11 | 14 | 3 | 1.2 |
| W116 | RC | 744136 | 6881081 | 476.81 | 18 | -90 | 0 | 11 | 12 | 1 | 1.3 |
| W117 | RC | 744153 | 6881082 | 476.94 | 17.5 | -90 | 0 | 5 | 11 | 6 | 3.5 |
| and | | 74 | 605:5 | 4 | | | - | 13.5 | 15 | 1.5 | 3.6 |
| W118 | RC | 744148 | 6881097 | 477.1 | 15 | -90 | 0 | 8 | 11 | 3 | 4.2 |
| W119 | RC | 744141 | 6881103 | 477.13 | 13 | -90 | 0 | 2 | 9 | 7 | 20.8 |
| incl | D.C. | 744110 | C001130 | 477.24 | 47.5 | 00 | 0 | 5 | 6 | 1 | 120.0 |
| W123 | RC | 744110 | 6881128 | 477.21 | 17.5 | -90 | 0 | 5 | 14 | 9 | 1.1 |
| W124 | RC | 744100 | 6881132 | 477.19 | 18 | -90 | 0 | 14 | 15 | 2 5 | 1.0 |
| W125 | RC | 744086 | 6881134 | 477.11 | 19.5 | -90 | 0 | 16 | 19.5 | 3.5 | 1.0 |
| W126 | RC | 744105 | 6881121 | 477.09 | 15 | -90 | 0 | 7 | 11 | 4 | 1.1 |
| W127 W128 | RC RC | 744119 744134 | 6881108 6881095 | 477.04 476.98 | 14.5 | -90 -90 | 0 | 6 | 11 | 7 | 2.3 1.2 |
| W128 W131 | RC | 744134 | 6881095 | 477.47 | 20 | -90 -90 | 0 | 9 | 20 | 11 | 1.7 |
| W131 W132 | RC | 744131 | 6881132 | 477.47 | 20 | -90 | 0 | 13.5 | 16 | 2.5 | 2.6 |
| W132 W133 | RC | 744120 | 6881132 | 477.46 | 16.7 | -90 -90 | 0 | 3 | 16.7 | 13.7 | 3.5 |
| | | 744137 | | | | | | | | | |
| W134 | RC | /44145 | 6881123 | 477.42 | 14.5 | -90 | 0 | 10 | 11 | 1 | 2.0 |

| Hole ID | Drill Type | East GDA94 | North GDA94 | m RL AHD | Depth (m) | Dip (deg) | Azimut h (deg) | From (m) | To (m) | Interval (m) | Grade (g/t |
|---------|---------------|---------------|----------------|-------------|--------------|--------------|-------------------|-------------|-----------|-----------------|---------------|
| W143 | RC | 743982 | 6881141 | 476.56 | 26 | -90 | 0 | 13 | 24 | 11 | 1.5 |
| W145 | RC | 744010 | 6881121 | 476.47 | 28 | -90 | 0 | 24 | 27 | 3 | 1.3 |
| W147 | RC | 743981 | 6881164 | 476.79 | 20 | -90 | 0 | 0 | 20 | 20 | 1.0 |
| W148 | RC | 743971 | 6881168 | 476.79 | 20 | -90 | 0 | 8 | 10 | 2 | 1.0 |
| W149 | RC | 743962 | 6881169 | 476.76 | 20 | -90 | 0 | 0 | 4 | 4 | 1.6 |
| and | | | | | | | | 7 | 10 | 3 | 1.1 |
| W150 | RC | 743942 | 6881174 | 476.73 | 20 | -90 | 0 | 11 | 12 | 1 | 1.1 |
| W151 | RC | 743921 | 6881177 | 476.67 | 21.5 | -90 | 0 | 10 | 15 | 5 | 1.1 |
| W154 | RC | 743962 | 6881178 | 476.85 | 40 | -90 | 0 | 33 | 40 | 7 | 1.5 |
| W155 | RC | 743972 | 6881176 | 476.87 | 40 | -90 | 0 | 19 | 40 | 21 | 1.5 |
| W156 | RC | 743974 | 6881187 | 477 | 60 | -90 | 0 | 33 | 35 | 2 | 1.5 |
| and | | | | | | | | 44 | 52 | 8 | 1.4 |
| W157 | RC | 743955 | 6881192 | 476.95 | 58 | -90 | 0 | 41 | 58 | 17 | 1.3 |
| W158 | RC | 744011 | 6881134 | 476.61 | 20 | -90 | 0 | 17 | 20 | 3 | 10.8 |
| W159 | RC | 744040 | 6881133 | 476.77 | 20 | -90 | 0 | 9 | 20 | 11 | 2.0 |
| W160 | RC | 744061 | 6881134 | 476.93 | 20 | -90 | 0 | 4 | 20 | 16 | 2.5 |
| W163 | RC | 744037 | 6881164 | 477.1 | 20 | -90 | 0 | 14 | 19 | 5 | 1.9 |
| W164 | RC | 744025 | 6881078 | 476.08 | 28 | -90 | 0 | 18 | 19 | 1 | 1.4 |
| W171 | RC | 744164 | 6881069 | 476.84 | 16 | -90 | 0 | 5 | 15 | 10 | 1.1 |
| W175 | RC | 744156 | 6881131 | 477.58 | 20 | -90 | 0 | 15 | 18 | 3 | 1.1 |

JORC Code, 2012 Edition – Table 1 report 14 February 2017 – Sandstone Project, Havilah Prospect

JORC (2012) Section 1 Sampling Techniques and Data

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

| Criteria | Commentary |
|------------|--|
| Sampling | Drilling carried out by Westmex Limited (1979-1980) |
| techniques | Reverse Circulation (RC) drilling was used with either a roller bit or a hammer bit to collect samples over selected 1m intervals. |
| | Drill samples were reportedly analysed for gold only by mixed acid digestion (ie aqua regia) with Atomic Absorption Spectroscopy (AAS) finish at Genalysis Laboratory in Perth. |
| | Drilling carried out by Homestake Australia Limited (1986) |
| | Homestake engaged Corewell Pty Ltd of Perth to carry out NQ diamond drilling (DD) with pre-collars drilled using percussion methods. Down hole surveys were carried out using an Eastman camera. Detailed geological logs and core recoveries were recorded. |
| | Pre-collar drill samples and diamond drill core samples were assayed by Australian Assay Laboratories in Perth by fire assay of a 50gm charge followed by AAS finish of the resulting prill. |
| | Drilling carried out by Gold and Mineral Exploration NL (1988-1990) |
| | GME engaged Davies Drilling to carry out RC drilling. The drill holes were blown clean at the end of each 1m run with samples collected in plastic bags attached to a cyclone. |
| | 2m composite samples were prepared for the upper parts of the RC drill holes. Mineralised intersections were later resampled at 1m intervals. |
| | All samples were submitted to Minlabs in Perth and analysed by 50gm fire assay to a lower detection limit of 0.01ppm Au. |
| | Drill assays from RAB drill samples are not being used in the Alto Metals Resource Estimation. |
| | Drilling carried out by Herald Resources Limited (1996-1997) |
| | Herald engaged Strange Drilling of Kalgoorlie to carry out RC drilling using a hollow face sampling hammer bit. |
| | All dry RC samples were collected at 1m intervals via a cyclone and a 3-tier riffle splitter with the excess collected in plastic bags and left on site. Wet samples were generally grabbed and of a lesser quality. |
| | The drilling was generally bulk samples at 4m intervals with 1m resplits being taken from significantly mineralised zones. |
| | All samples were sent to Analabs in Mt Magnet and analysed by 50gm fire assay to a lower detection limit of 0.01ppm Au. |
| | Drill assays from RAB drill samples are not being used in the Alto Metals Resource Estimation. |
| | Drilling carried out by Troy Resources NL (2001-2009) |
| | Troy RC drilling was carried out by Boart Longyear. RC samples were passed form a cyclone through a rig-mounted multi-tier riffle splitter and collected in 1m intervals in plastic bags and 1m calico splits which were retained for later use. |
| | RAB drilling was also used to obtain samples, which were collected in 1m intervals and laid on the ground. Air-core (AC) drilling was used to obtain samples via a cyclone every for each 1m interval, which was laid on the ground. |

| Criteria | Commentary | , | | | | | | | | |
|--------------------------|---|---|--|--|---|--|--|---|--|--|
| Sampling techniques | From the bull PVC scoop an | - | | - | - | | - | as collect | ed using | a split |
| · | fire assay. The sample returned Troy RAB and followed by E | RC samples were submitted to Genalysis Laboratory in Perth for analysis of gold analysis by fire assay. The 1m splits were submitted for analysis by fire assay where the composite sample returned gold assay values >0.2 ppm Au over anomalous zones. Troy RAB and AC samples were assayed at Analabs Perth by 50gm aqua regia digest followed by DIBK extraction Flame Atomic Absorption Spectrometry. The technique had a lower detection limit of 0.01ppm Au. | | | | | | | | |
| | | Drill assays from RAB drill samples are not being used in the Alto Metals Resource | | | | | | | | |
| Drilling techniques | Drilling techn | iques have | included | l RAB, AC | , RC and | DD as p | per the ta | able belo | W. | |
| | | YEAR | R | AB | A | С | F | RC | D | D |
| | | | Holes | (m) | Holes | (m) | Holes | (m) | Holes | (m) |
| | Westmex | 1979-80 | | | | | 103 | 2064 | | |
| | Homestake | 1986 | | | | | | | 4 | 395 |
| | GME | 1988-90 | 36 | 1059 | | | 11 | 1003 | | |
| | Herald Troy | 1996-97 2001-09 | 5 41 | 115 1174 | 4 4 | 195 195 | 26 161 | 1197 5476 | 4 | 395 |
| Drill sample recovery | AC, RC and D Drill assays fr Estimation. Alto has no q sample recov Drill core recov Alto reviewed sample recov loss/gain of finance | uantitative rery. overy was d d the geolog rery and gra | informa locumen gical logg de and v | tion on the ted for the ging sheet whether s | ne Westr ne Home ts to dete | nex, GN stake D ermine ias may | he Alto N //E, Heral D holes. if a relat have oc | Metals Re Id or Troy ionship e curred du | RAB, AC xists bet ue to pre | ween |
| Logging | Westmex dril historic work bit was used. The Homesta where it was. GME reporte field. The log such as top o sufficient quaby Herald and Tilogging meth were logged. It is considere mineral resource. | ings were in to drill the last the last the Reging was considered that the last the | ntersecter hole. s were lo approprice (AB and omments by base of e lithologi used de all drill hed loggin cient lev | ogged in oriate or re RC drill hary based foxidation gies drille stailed log oles how ng codes el of deta | detail for elevant. oles were d with no n etc. He ed can be gging cod ever no c were use ail to supp | each me geolog specific owever, correlates. detaileded, and poort a n | ed wheth netre and gically ex c geologi , the logg ated with I informa it is cons nineral re | er a rolle d at sub-n camined a cal codes ging and o later log ation is av idered the | r bit or henetre intended loggers used for description ging carriallable contact the distimate | ervals ed in the r events ons are of ried out on the rill holes |

| Criteria | Commentary |
|---|---|
| Subsampling techniques and sample preparation | Drilling carried out by Westmex (1979-1980) 1m samples were collected over selected intervals. No composite sampling was undertaken. Drill samples were reportedly analysed for gold only by mixed acid digestion (ie aqua regia) with Atomic Absorption Spectroscopy (AAS) finish at Genalysis Laboratory in Perth. Drilling carried out by Homestake (1986) Pre-collar drill samples and diamond drill core samples were assayed by Australian Assay Laboratories in Perth by fire assay of a 50gm charge followed by AAS finish of the resulting prill. Drilling carried out by GME (1988) 2m composite samples were prepared for the upper parts of the RC drill holes. Mineralised intersections were later resampled at 1m intervals. All samples were submitted to Minlabs in Perth and analysed by 50gm fire assay to a lower detection limit of 0.01ppm Au. |
| Subsampling techniques and sample preparation | Drilling carried out by Herald (1996-1997) All dry RC samples were collected at 1m intervals via a cyclone and a 3-tier riffle splitter with the excess collected in plastic bags and left on site. Wet samples were generally grabbed and of a lesser quality. The drilling was generally bulk samples at 4m intervals with 1m resplits being taken from significantly mineralised zones. All samples were sent to Analabs in Mt Magnet and analysed by 50gm fire assay to a lower detection limit of 0.01ppm Au. Drill assays from RAB drill samples are not being used in the Alto Metals Resource Estimation. Drilling carried out by Troy (2001-2009) RC samples were collected in 1m intervals in plastic bags and 1m calico splits which were retained for later use. RAB drilling was also used to obtain samples, which were collected in 1m intervals and laid on the ground. Air-core (AC) drilling was used to obtain samples via a cyclone every for each 1m interval, which was laid on the ground. From the bulk samples (RAB, AC or RC), a 5m composite sample was collected using a split PVC scoop and then submitted to Genalysis Laboratory for analysis. RC samples were submitted to Genalysis Laboratory in Perth for analysis of gold analysis by fire assay. The 1m splits were submitted for analysis by fire assay where the composite sample returned gold assay values >0.2 ppm Au over anomalous zones. Troy RAB and AC samples were assayed at Analabs Perth by 50gm aqua regia digest followed by DIBK extraction Flame Atomic Absorption Spectrometry. The technique had a lower detection limit of 0.01ppm Au. Drill assays from RAB drill samples are not being used in the Alto Metals Resource Estimation. |

| Criteria Quality of assay data and laboratory | | and Laborato | ory Procedure | oc . | | | | |
|--|---|--|--|--|--|--|--|---|
| tests | encapsularesulting There is regold. Drilling ca There is read Hera Where read Where read the Where Tread Illing as There we Drilling ca For Troy I | Regia techniated in refraction partial reprised out by no available in ld. ported, Laboroy drill holes asay data shore no anomalarried out by RC drilling, an | d is considered que is considered tory sulphides orting of gold n available to Westmex, Honformation on ratory Repeat were identified wed an acceptous assays researce of 1 for average of 1 for | d to be a totered to be a sor some siscontent. Alto to individual of the protocolor assays were d within clitable correl ported that | partial extra dicate mineral dicate that the dicate that the dicate that the dicate and Her dicate and Her dica | e gold at e gold e g | chnique whot be fully of the fully of the fully of the fully of the full hole and drill hole and drill hole and drill hole and the full ho | dissolved, efractory e, GME s the s). |
| | for every 50 samples. For Troy RAB and AC drilling, field duplicates and standards were used at 1:50 however no blank samples were routinely used in RAB or AC drilling. Troy engaged Maxwell to undertake periodic audit of the exploration QAQC dat Laboratory Blank, Standards and Repeat assays were reported for Troy drill ass | | | | | | | |
| Verification of sampling and assaying | Open File Data was files were database entered i All collar, checking The data Google Early dence Adjustment limit have Troy engage QAQC da Twinned Drill hole | Drilling carried out by previous explorers was compiled by Alto from WA Dept Mines Open File records (WAMEX). Data was transferred from WAMEX digital files to Alto's database. The original WAMEX files were generally in excel or text format and were readily imported into Alto's database. For some of the earlier reports (ie Westmex drilling) the data was manually entered into Excel. All collar, survey and assay data was checked by printing all original data records and checking against a printed database being used for Alto's resource estimate. The data was also checked using various methods in Datashed, ArcGIS and Micromine. Google Earth satellite imagery was also used to check collar positions where historical evidence was visible in satellite imagery. Adjustment to assay data has been made where values below the analytical detection limit have been replaced with half the lower detection limit value (0.01 ppm Au). Troy engaged Maxwell to undertake independent periodic audit of their exploration QAQC data on a monthly basis. Twinned Holes Drill holes were identified that occur proximal to each other and were drilled by different | | | | | | |
| | Twin | Company | details are inc | Easting GDA94 | Northing GDA94 | Dip (deg) | Azimuth (deg) | Depth (m) |
| | Twin 1 | Troy | TRC818 | 744046 | 6881126 | -90 | 000 | 34 |
| | Twin 1 | Westmex | W159 | 744040 | 6881133 | -90 | 000 | 20 |
| | Twin 2 | Troy | TRC725 | 744047 | 6881143 | -60 | 180 | 40 |
| | | · · | MGR017 | | | | | |
| | Twin 2 | Herald | MIGITULI | 744046 | 6881134 | -60 | 180 | 35 |

| Criteria | Commentary |
|---|---|
| Location of data points | The grid used for the project area is GDA94, Map Grid of Australia 94, Zone 50. Westmex, GME, Homestake and Herald drilling was originally located in local grid format. Contract surveyors were engaged by previous explorers to accurately locate the surface location of drill collars and historic workings in local grid format. Troy drilling was located with a Differential Global Positioning System unit (DGPS). Alto carried out a desktop check of all drill hole collars using satellite and aerial drone imagery. Alto carried out field checks on 24 randomly selected drill holes (~10%) in November 2018 to confirm the locations of the drill hole collars used in the Alto Mineral Resource Estimate. The collar heights in Alto's database, which are being used for the Mineral Resource Estimate were determined by Alto by intersecting the collar location with Shuttle Radar Tomography Mission (SRTM) 30m data. There are no outstanding issues with respect to collar survey locations for Havilah drill holes. The Westmex drill holes were all vertical and no survey data was reported. The dip and azimuth of the Homestake diamond drill holes was determined using an Eastman camera. The dip and azimuth of all GME and Herald drill holes were reported however there are no details available on the method used to determine the dip and azimuth. A compass and clinometer were used by Troy to set up the dip and azimuth of Troy drill holes. Alto staff also checked the dip and azimuth of additional drill collars in the field where possible. |
| Data spacing and distribution | The drill hole orientation is typically vertical or at -60 degrees dip to 180 degrees. The shallow, vertical Westmex RC drill holes were drilled on a 20m x 20m and a 10m x 10m pattern. The Herald RC drilling was carried out on a 20m x 40m pattern. Troy RC drilling was designed to test historical drilling results and infilling anomalous intersections and did not conform to a particular pattern. Maximum drill depth was 123m (GRC003 and GRC008) with an average drill depth of 34m. |
| Orientation of data in relation to geological structure | Geological structures have been interpreted from drilling and detailed surface geological mapping. The Havilah mine area is underlain by a NW striking dolerite unit bounded to the NE by basalt and to the SW by ultramafic rocks. The stratigraphy strikes NW-SE and has sub-vertical dips. Mineralisation at Havilah is confined to the dolerite and consists of quartz veins and stockworks within a north-dipping, NW striking mineralized shoot with a plunge approximately 20 degrees to the NW. Drill orientation was typically vertical or at -60° to 180° which was designed to intersect mineralisation perpendicular to the strike. Sample bias is not considered to be an issue due to the geological structures and appropriate orientation of drilling. In general, the Havilah deposit is a north-dipping, NW striking deposit with a 20 degree plunge to the NW. |

| Criteria | Commentary |
|--------------------|---|
| Sample security | No sample security details are available for Westmex, Homestake, GME or Herald drill samples. |
| | Troy reported that their drill samples were collected in a labelled and tied calico bag. Up to six calico bags are then placed in a larger polyweave bag that is labelled with the laboratory address and sender details and tied with wire. The polyweave bags were picked up by a courier firm who counted the number of polyweave bags before taking them to the Mt Magnet depot. The samples were picked up by the courier's road train and transported to Perth. Upon receipt of the samples the laboratory checked the sample IDs and total number of samples and notified Troy of any differences from the sample submission form. |
| Audits and reviews | Alto has reviewed and compiled the technical data for Havilah internally. No independent audit had been previously carried out. |
| | Troy engaged Maxwell to undertake periodic independent audit of Troy's exploration QAQC data. |
| | A Mineral Resource Estimate has previously been carried out at Havilah by; Herald (2000) Troy (2002) |

SECTION 2 - Reporting of Exploration Results

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

| Criteria | Commentary | | | | | | | |
|---|---|--|--|--|--|--|--|--|
| Mineral | Havilah is located on Exploration Licence 57/1033, granted on 20 September 2016 to | | | | | | | |
| tenement and land tenure | Sandstone Exploration Pty Ltd, a wholly owned subsidiary of ASX listed Alto Metals Limited (AME). | | | | | | | |
| | E57/1033 is currently in good standing with the Department of Mines, Industry Regulation and Safety. | | | | | | | |
| | • E57/1033 is part of AME's Sandstone Gold Project. The total project area covers approximately 800 km ² with five exploration licences all granted on 20 September 2016 and two prospecting licences granted on 11 June 2016. | | | | | | | |
| | The following royalties apply: | | | | | | | |
| | 2% of the Gross Revenue is payable to a third party | | | | | | | |
| | 2.5% payable to the State Government | | | | | | | |
| | There are no registered heritage sites proximal to the Havilah deposit. | | | | | | | |
| | There are no current known impediments to obtaining a licence to operate in the area. | | | | | | | |
| Exploration done by other parties | Historically gold was first discovered in the Sandstone area in the 1890's. | | | | | | | |
| | The first recorded production from the Havilah Mine area was in 1904. A total of 47,106 ounces of gold was produced from the Havilah and nearby Maninga Marley mines up until 1929 with the bulk of the production between 1907 and 1911. | | | | | | | |
| | Production figures from the Havilah Mine are reported as 48,497 tonnes at 37.9g/t Au for 33,871 ounces of gold. It is probable that some of the reported production may attributed to small nearby mines that treated their ore at the Havilah Mine. | | | | | | | |
| | In the 1970s, Seeko Nickel carried out nickel exploration within the general area. | | | | | | | |
| | Between 1979 and 2009, geological mapping, surface sampling, geophysical surveys and drilling was carried out by Westmex Limited, Homestake Australia Limited, Gold and Mineral Exploration NL, Carpentaria Exploration Company Pty Ltd, Herald Resources Limited and Troy Resources NL. | | | | | | | |
| | Mineral resource estimates were carried out by Herald Resources Limited and Troy Resources NL. | | | | | | | |
| Geology | Detailed surface geological mapping by Homestake and interpretation of drilling data by Homestake and other explorers has shown the Havilah Mine area is underlain by a NW striking dolerite unit termed the Havilah Dolerite, bounded to the northeast by pillowed and amygdaloidal basalt, and to the southwest by ultramafic rocks. | | | | | | | |
| | Within the mineralised part of the Havilah Dolerite, drilling has intersected dolerites and basalts of similar mineralogy suggesting the Havilah Dolerite is a differentiated mafic unit. Granophyric quartz dolerite has also been identified in historic mullock dumps. Based on petrology of thin sections of diamond drill core, previous explorers reported a similarity between the Havilah Dolerite and the lower units of the Golden Mile Dolerite. | | | | | | | |
| | Mineralisation is confined to the Havilah Dolerite close to the dolerite/basalt contact and consists of quartz veins and stockworks within a north-dipping, NW striking mineralised shoot with a plunge of approximately 20 degrees to the north-west | | | | | | | |
| | Quartz-carbonate veins up to 0.5m wide have been intersected in drill core with recognisable selvedges to the mineralisation up to 10m in width. Sulphides occur both in the veins and the adjacent wall rocks and consist of dominant pyrite and arsenopyrite with minor pyrrhotite and trace chalcopyrite | | | | | | | |
| | The mineralised zones are surrounded by a chlorite alteration envelope approximately 1km wide and at least 6km long. Carbonate alteration is intimately associated with the mineralisation both in stockwork and shear-controlled zones. | | | | | | | |

| Criteria | Commentary | | | | | | | | | | |
|---|--|---------|-------|------|----------|-----|-------|------|-------|-----|--|
| Drill hole information | A summary of all drilling at the Havilah deposit is included in the table below. A summary of all significant intercepts is included in a table accompanying this JORC Table. | | | | | | | | | | |
| | Drill orientation was typically vertical or at-60° to 180° which was designed to intersect mineralisation perpendicular to the strike. | | | | | | | | | | |
| | Drill assays from RAB drill samples are not being used in the Alto Mineral Resource Estimation. | | | | | | | | | | |
| | | YEAR | RAB | | AIR-CORE | | RC | | DD | | |
| | | | Holes | (m) | Holes | (m) | Holes | (m) | Holes | (m) | |
| | Westmex | 1979-80 | | | | | 103 | 2064 | | | |
| | Homestake | 1986 | | | | | | | 4 | 395 | |
| | GME | 1988-90 | 36 | 1059 | | 405 | 11 | 1003 | | | |
| | Herald | 1996-97 | 5 | 115 | 4 | 195 | 26 | 1197 | 4 | 205 | |
| | Troy | 2001-09 | 41 | 1174 | 4 | 195 | 161 | 5476 | 4 | 395 | |
| Data aggregation methods | A summary of significant results is included in the table below. Where AME has reported drill assays from previous explorers, a 1.0g/t cut-off grade has been applied. No metal equivalents have been used or reported. The reported grades are uncut. | | | | | | | | | | |
| Relationship between mineralisation widths and intercept lengths | Drill orientation was typically vertical or at-60° to 180° which was designed to intersect mineralisation perpendicular to the strike. The mineralisation and drill intercepts are reported as down hole widths not true widths. | | | | | | | | | | |
| Diagrams | Diagrams including drill hole location plan and representative sections are included to accompany this JORC table. | | | | | | | | | | |
| Balanced reporting | All significant drill assay results (+1.0g/t Au) have been included in a table attached to this report. | | | | | | | | | | |
| Other substantive exploration data | There is no other material information available for the Resource area at this stage. | | | | | | | | | | |
| Further work | Alto Metals is currently preparing a JORC 2012 Mineral Resource Estimate for Havilah. Further drilling may be carried out in future to provide appropriate bulk density measurements and samples for metallurgical testwork. Geotechnical work for pit slope analysis may also be undertaken. Further exploration drilling may also be carried out. | | | | | | | | | | |