

ASX RELEASE  
18 September 2018

## **FINAL AIRCORE GOLD ASSAYS AT INDOMITABLE NORTH HIGHLIGHT PERSISTENT “GOLD-IN-LATERITE” BLANKET**

- **Assay highlights include:**

SAC178 : 4m @ 2.8 g/t Au from 6m below surface

SAC162 : 4m @ 2.5 g/t Au from 6m below surface

SAC173 : 4m @ 2.5 g/t Au from 6m below surface

SAC184 : 3m @ 2.5 g/t Au from 6m below surface

SAC176 : 2m @ 2.7 g/t Au from 7m below surface

- **Gold in laterite opens up potential for more oxide and primary gold mineralization within Indomitable Camp.**

Alto Metals Limited (ASX: AME) (“Alto”, “the Company”) is pleased to advise that 50gm Fire Assay (FA) results of 1m aircore (AC) samples from the shallow 44 hole program (SAC152-195) drilled at Indomitable North prospect in June have now been received. *Note: Assay results of 4m composite samples from the 44 hole program were previously reported to the ASX on 10 July 2018.*

Together with previous explorer’s 1m FA drill results, these results have helped to extend the strike of the shallow flat lying (lateritic) gold mineralization at Indomitable North to over 180m. In addition, these results provide encouragement for further deeper drilling to discover the extent of oxide and primary gold mineralization below and around the laterite mineralization.

Commenting on these results, Managing Director Dermot Ryan said:

*“Alto’s earlier aeromagnetic survey and litho-structural interpretation highlighted the NNW trending ‘Indomitable Structural Corridor’ as being highly prospective for major gold deposits. The drilling of gold mineralized laterite horizons within this structural corridor increases the potential to discover numerous oxide and primary gold deposits. The major past gold producers at Sandstone, such as Hacks (206koz), Oroya (223koz), Bulchina (250koz) and Lord Nelson (207koz) were all defined at or near surface by either ‘gold in laterite’ or ‘gold in soil’ geochemical anomalies.”*

Figure 1 overleaf shows the location of the Indomitable Camp prospects, and Figure 2 illustrates the Geology and Gold Structural Corridor at Indomitable (with Targets). Figure 3 shows the detailed location of Indomitable North AC & RC drill collars.

Alto’s 1m fire assay results for aircore holes SAC152-195 are shown in Table 1, along with 1m fire assay results for reverse circulation (RC) holes drilled by a previous explorer in Table 2. Cross sections showing Alto’s AC holes and 50gm fire assays for 1m samples, are shown in Figures 4 - 10.



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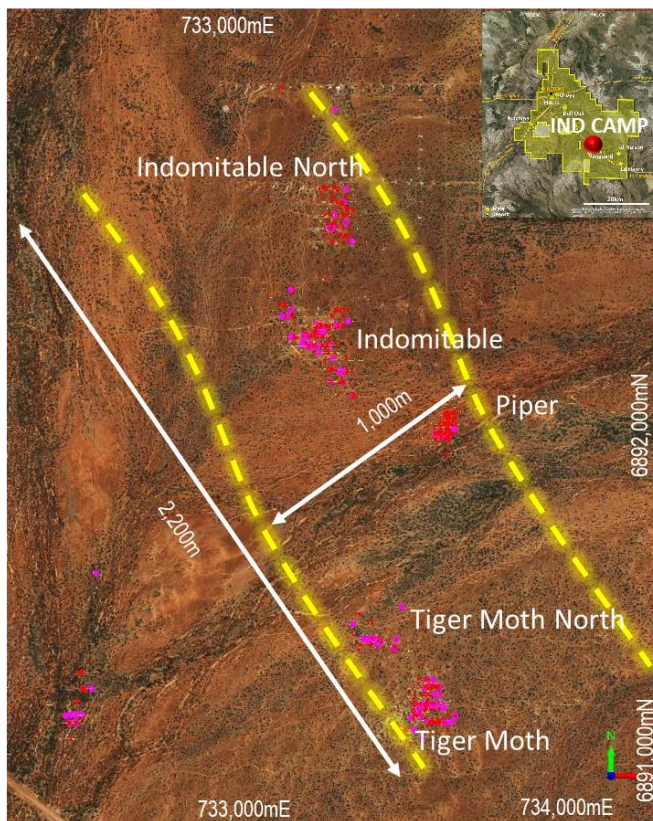
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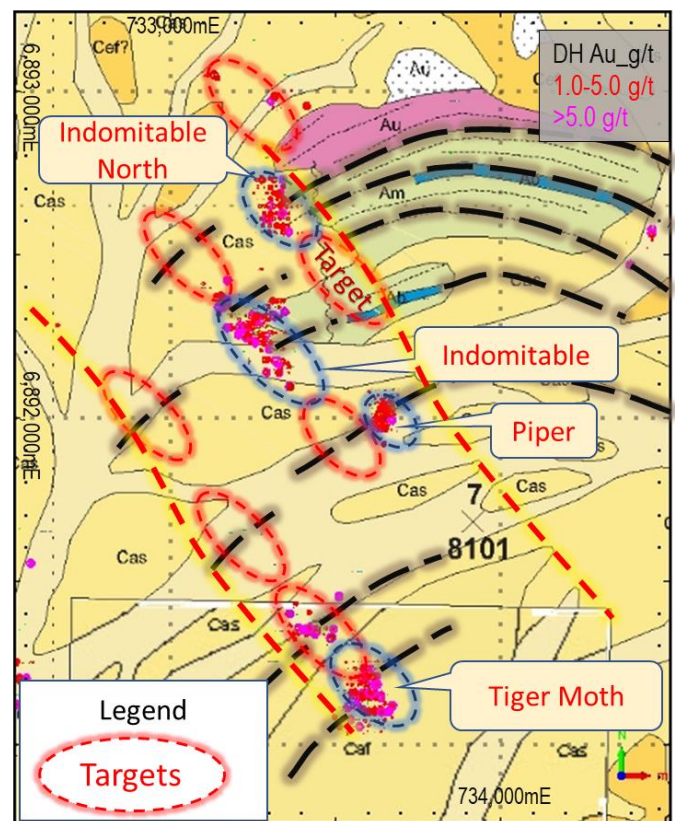
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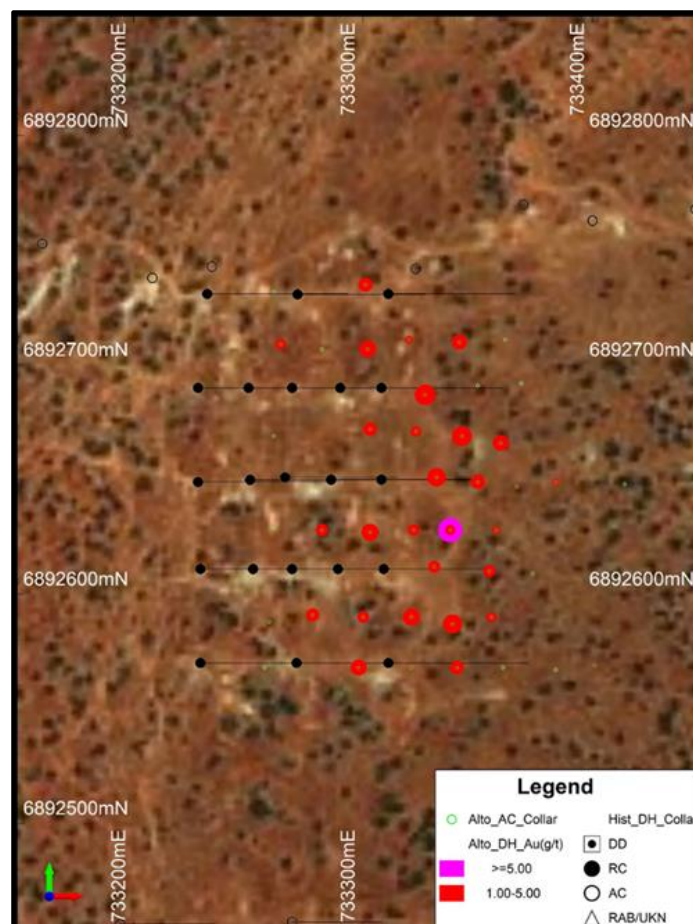
**Figure 1. Location of Indomitable Camp prospects & AC/RC Drill Holes Over Satellite Imagery**



**Figure 2. Geology Plan, showing 1,000m Wide NNW Striking "Indomitable Structural Corridor" & Targets**



**Figure 3. Detailed Location of Indomitable North AC & RC Drill Collars**



**Table 1. Indomitable North Laterite – Vertical Aircore Drill Hole Program,  
1m Samples, 50gm Fire Assays +0.5 g/t Au**

Hole No.	East GDA94	North GDA94	Depth (m)	From (m)	To (m)	Interval (m)	Au (g/t)
SAC152	733261	6892732	16	8	11	3	0.73
SAC153	733301	6892735	16	7	11	4	1.81
SAC154	733264	6892709	16	8	11	3	1.26
SAC155	733282	6892707	16	8	11	3	1.00
SAC156	733302	6892707	16	7	13	6	1.53
SAC157	733320	6892711	16	7	9	2	1.47
SAC158	733342	6892710	16	6	9	3	1.80
SAC159	733362	6892711	16	7	9	2	0.85
SAC160	733369	6892692	16	7	8	1	0.84
SAC161	733350	6892691	16	15	16	1	0.77
SAC162	733327	6892687	16	6	10	4	2.46
SAC163	733261	6892669	16	9	11	2	0.65
SAC164	733281	6892670	16	7	11	4	1.10
SAC165	733303	6892672	16	6	11	5	1.34
SAC166	733323	6892671	16	7	10	3	1.66
SAC167	733343	6892669	16	6	9	3	2.07
SAC168	733360	6892666	16	6	9	3	2.16
SAC169	733414	6892648	16	7	10	3	0.60
				13	14	1	0.83
SAC170	733384	6892649	16	6	9	3	0.99
SAC171	733367	6892647	16	6	9	3	0.96
SAC172	733350	6892649	16	5	9	4	1.46
SAC173	733332	6892651	16	6	10	4	2.46
SAC174	733261	6892629	16	9	11	2	0.63
SAC175	733282	6892628	16	7	11	4	1.91
SAC176	733303	6892627	16	7	9	2	2.71
SAC177	733322	6892628	16	7	10	3	1.52
SAC178	733338	6892628	16	6	10	4	2.83
SAC179	733358	6892628	16	6	9	3	1.32
SAC180	733331	6892612	16	8	11	3	1.57
SAC181	733355	6892610	16	6	9	3	1.49
SAC182	733374	6892609	16	7	10	3	0.73
SAC183	733356	6892590	16	7	10	3	1.56
SAC184	733339	6892587	16	6	9	3	2.51
SAC185	733321	6892590	16	7	9	2	2.51
SAC186	733300	6892590	16	7	9	2	1.61
SAC187	733278	6892591	16	7	9	2	2.10
				15	16	1	0.57
SAC188	733259	6892588	16	8	10	2	0.76
SAC189	733257	6892568	16	9	13	4	0.73
SAC190	733298	6892568	16	7	10	3	1.99
SAC191	733321	6892568	16	8	9	1	1.31
SAC192	733341	6892568	16	7	9	2	1.64
SAC193	733361	6892568	16	7	9	2	0.75
SAC194	733384	6892567	16	8	9	1	1.19
SAC195	733401	6892569	16	5	9	4	0.88

**Note: All holes drilled vertically, co-ords in GDA94, Zone 50, in Exploration Licence 57/1031**



Figure 4. Indomitable North Cross Section 6,892,590N and Recent Alto Vertical SAC183-188 Holes

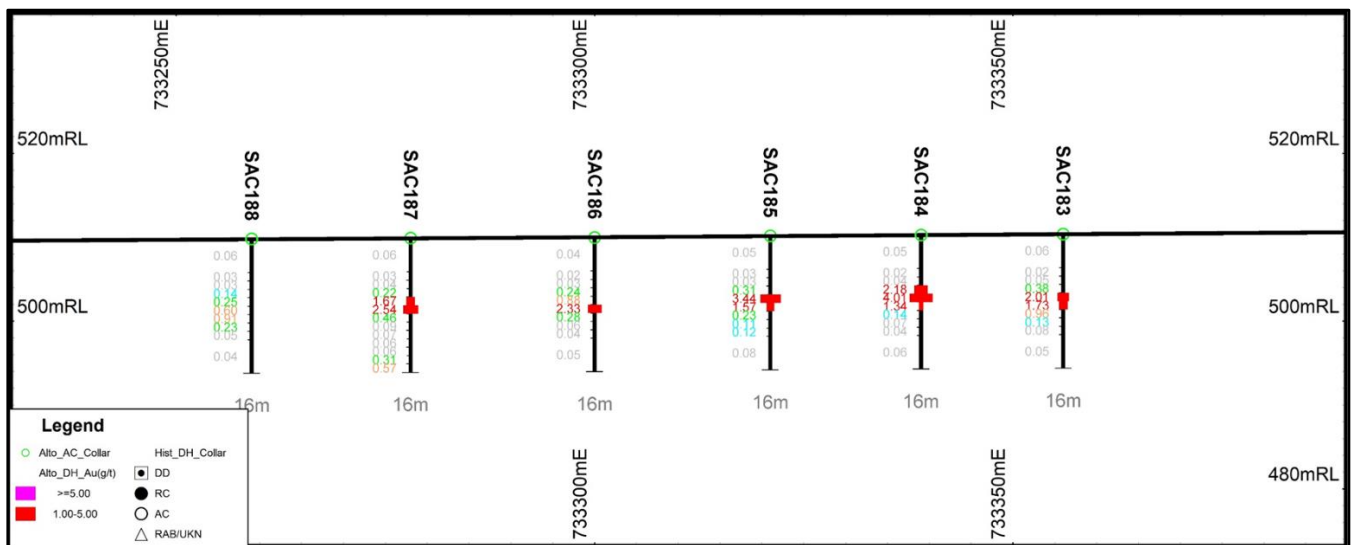


Figure 5. Indomitable North Cross Section 6,892,610N and Recent Alto Vertical SAC180-182 Holes

*Note. Holes prefaced by TAC & TRC shown Figures 5, 7 & 9 were drilled by a previous explorer.*

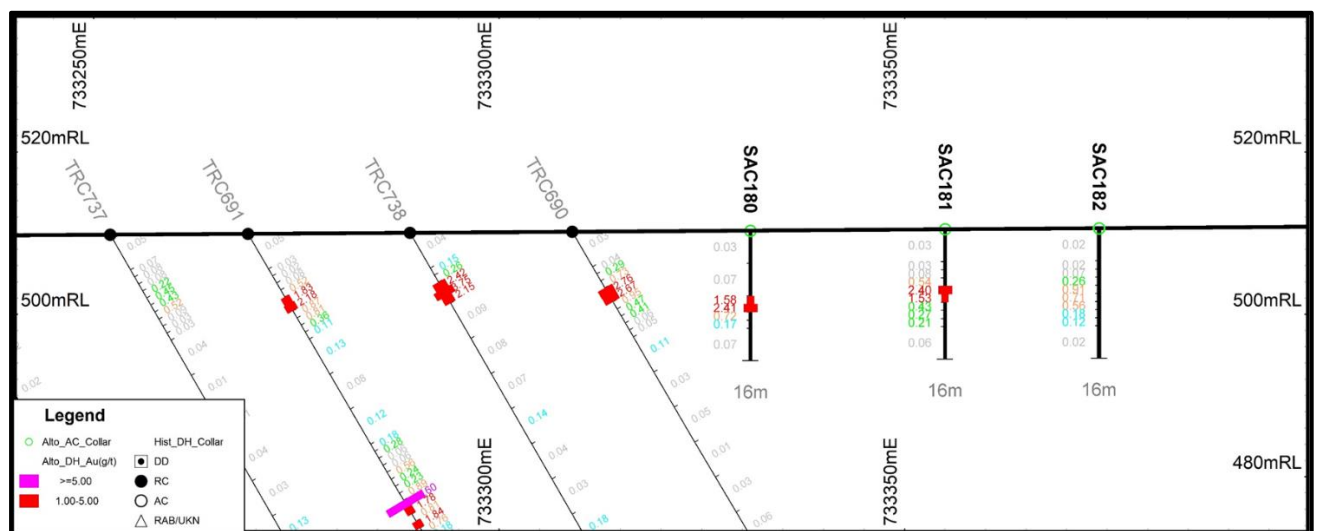


Figure 6. Indomitable North Cross Section 6,892,630N and Recent Alto Vertical SAC174-179 Holes

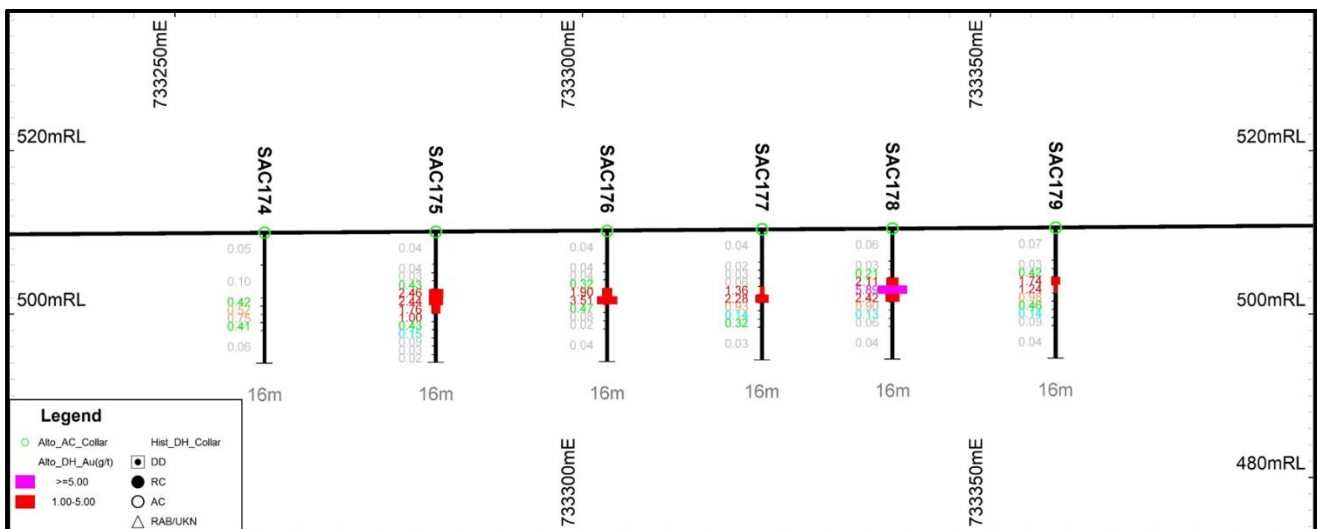


Figure 7. Indomitable North Cross Section 6,892,650N and Recent Alto Vertical SAC170-173 Holes

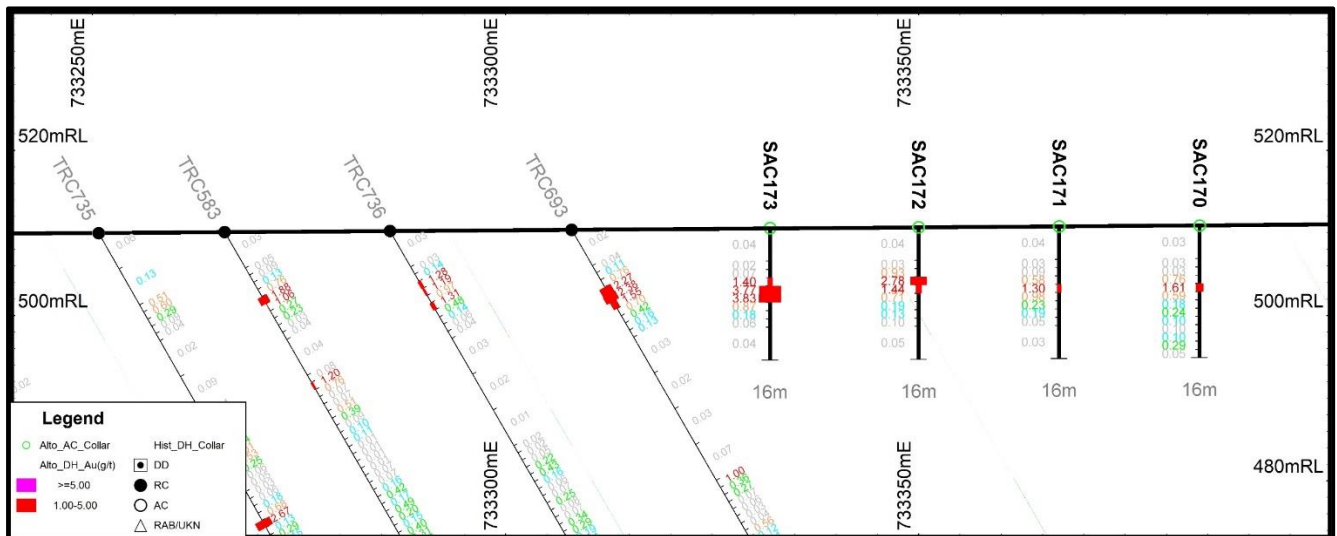


Figure 8. Indomitable North Cross Section 6,892,670N and Recent Alto Vertical SAC163-168 Holes

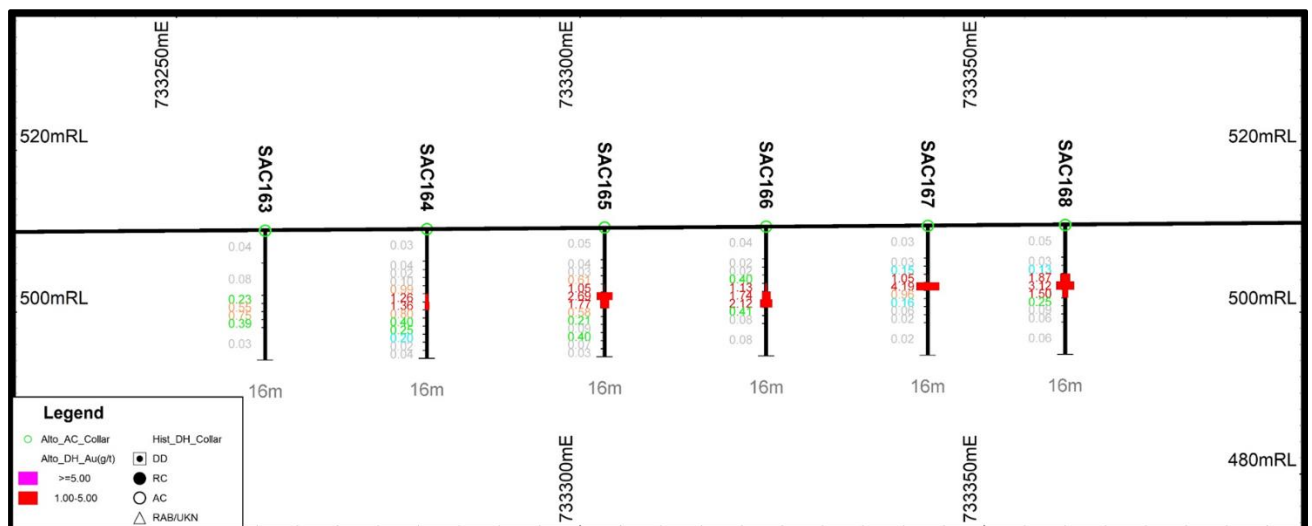


Figure 9. Indomitable North Cross Section 6,892,690N and Recent Alto Vertical SAC160-162 Holes

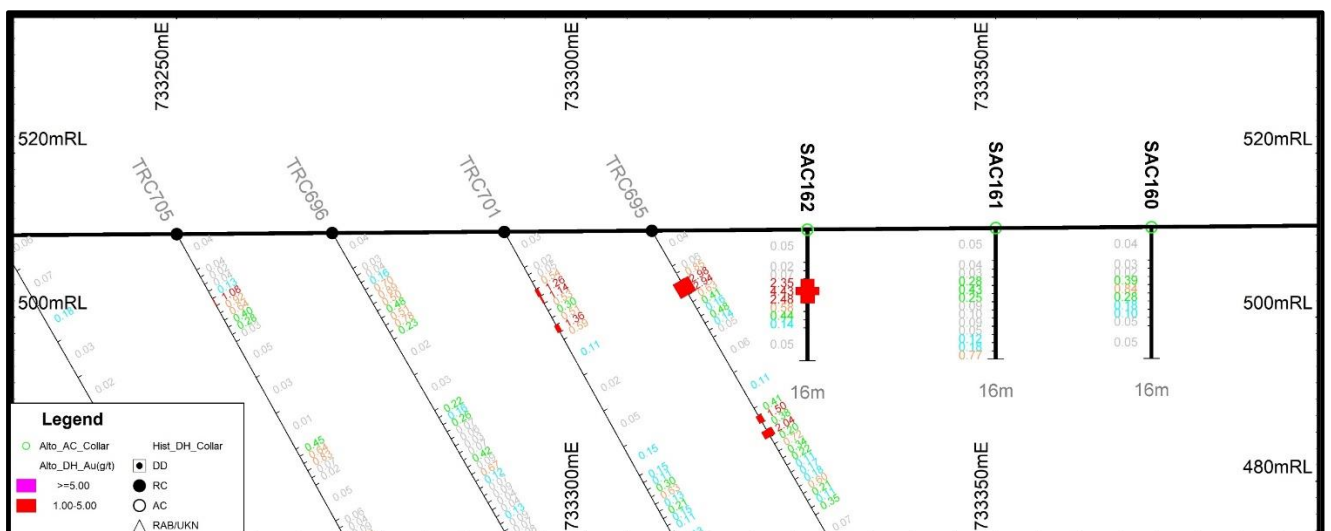
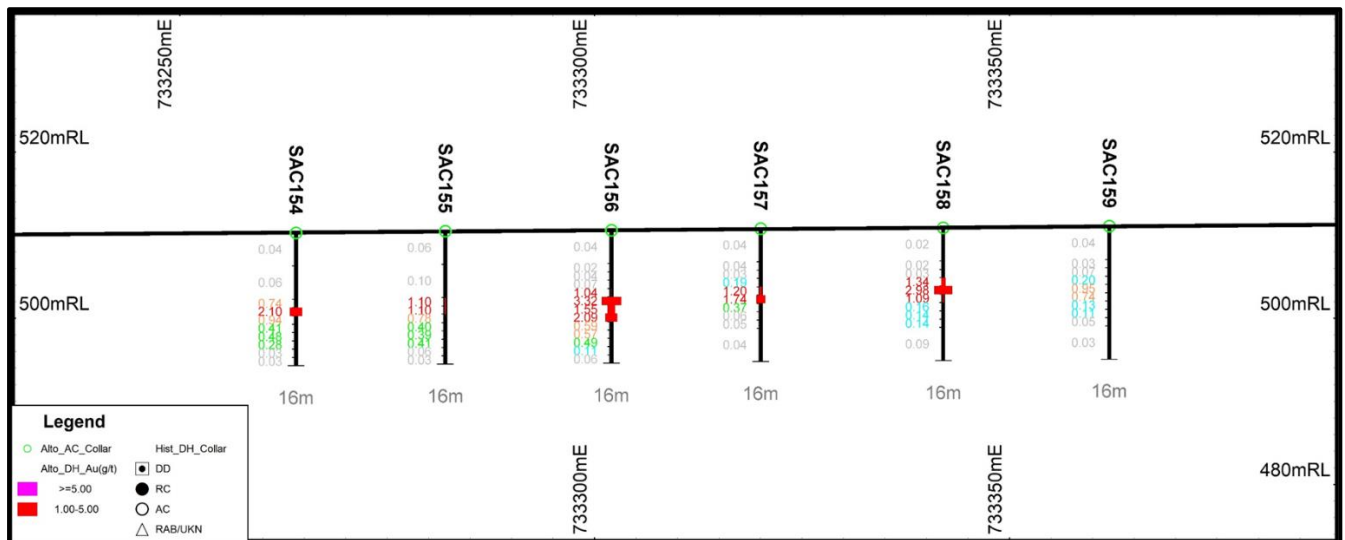


Figure 10. Indomitable North Cross Section 6,892,710N and Recent Alto Vertical SAC154-159 Holes

Table 2. Indomitable North Prospect, Previous TAC & TRC Prefaced Drill Holes  
1m Samples, 50gm Fire Assays +0.5 g/t Au in Figures 5, 7 & 9 in this report

Hole No.	East GDA94	North GDA94	Azimuth	Inclination	Depth (m)	From (m)	To (m)	Interval (m)	Au (g/t)
TRC583	733267	6892652	90	-60	99	9	11	2	1.45
and						45	58	13	0.98
and						72	99	27	1.22
Incl.						73	75	2	8.29
TRC690	733307	6892613	90	-60	88	6	13	7	1.18
TRC691	733267	6892614	90	-60	106	8	14	6	1.10
and						34	43	9	2.30
and						52	69	17	3.40
TRC693	733308	6892651	90	-60	66	7	13	6	1.35
TRC695	733308	6892690	90	-60	106	7	9	2	2.96
and						26	29	3	1.31
TRC696	733269	6892690	90	-60	82	45	46	1	1.84
TRC701	733290	6892691	90	-60	118	8	10	2	1.2
and						89	92	3	5.16
TRC705	733249	6892691	90	-60	130	9	11	2	1.00
TRC735	733250	6892651	90	-60	106	39	41	2	1.68
and						68	70	2	1.39
TRC736	733285	6892651	90	-60	124	7	12	5	1.05
and						60	62	2	1.18
and						74	77	3	1.00
TRC737	733250	6892613	90	-60	124	68	70	2	1.24
TRC738	733288	6892613	90	-60	124	7	10	3	2.77

## Geology

The **Indomitable Camp** area is located approximately 20 kilometres southeast of the Sandstone township. Relatively shallow aircore and RC drilling has identified a number of laterite and oxide gold occurrences which occur in highly oxidized, high-magnesium basalts and differentiated basaltic units (known as the Alpha Zone, refer Figure 11). The gold mineralization is structurally controlled within plunging “shoots” or “stockworks” of quartz veins.

At **Indomitable North**, a 2 - 4m thick gold bearing lateritic horizon is located at a depth of approximately 10m below surface. Sparse drilling to date indicates that there is a depletion zone below the laterite, and Alto believes that the oxide and primary zones below have not yet been adequately tested for a major gold deposit.

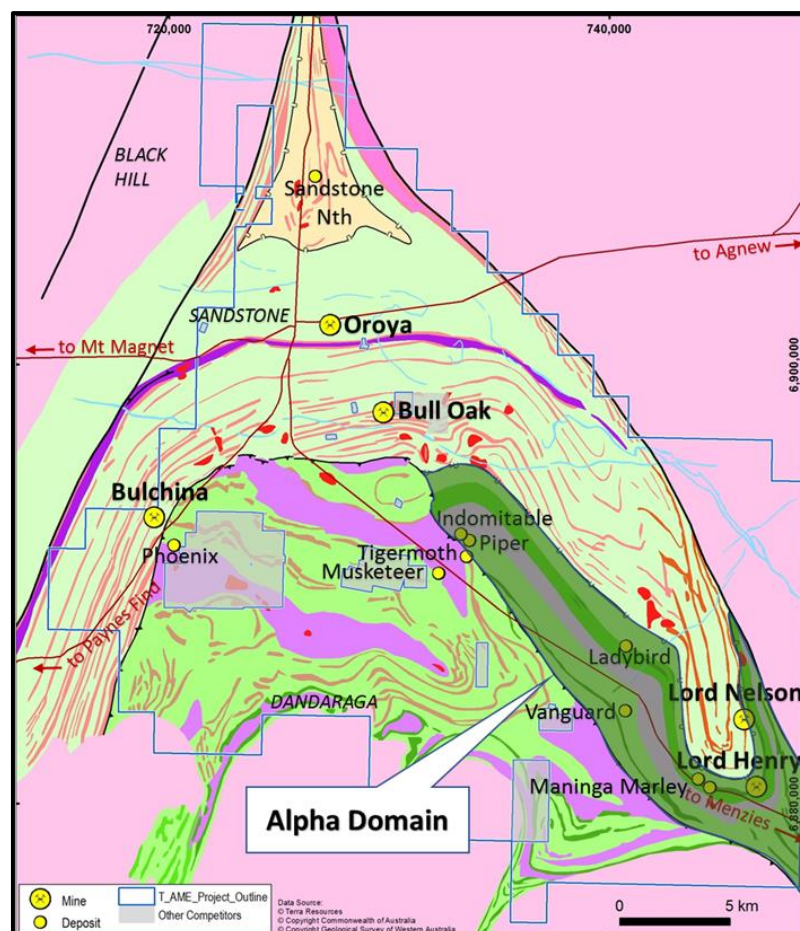
## About Alto And The Sandstone Gold Project

Alto holds ~800km<sup>2</sup> 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 11. Sandstone Project, Geological Interpretation showing Alto’s Landholdings and Major Prospects**



**References**

10 Dec 2007. Troy Resources NL ASX release: Snowdens Technical Report for Troy, June 2007.

15 Feb 2017. Alto Metals Limited ASX release: High Grade Oxide Gold Intercepts at Indomitable, Sandstone WA

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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 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 and mineral resources 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.*



**JORC Code, 2012 Edition – Table 1 report****18 September 2018 – Sandstone Project****JORC (2012) Section 1 Sampling Techniques and Data**

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

<b>Criteria</b>	<b>Commentary</b>
<i>Sampling techniques</i>	<p><b>Drilling carried out by Alto Metals Ltd (2018)</b></p> <ul style="list-style-type: none"> <li>AC samples were passed through a cross-over sub, and whole samples were collected into poly-weave bags at 1m intervals.</li> <li>From the bulk sample, a 4m composite sample was collected using a split PVC scoop and then submitted to the laboratory for analysis.</li> <li>If the composite sample returned assay values equal to or greater than 0.2 g/t Au, the whole poly-weave bag was passed through a riffle splitter to produce a 1kg sample that was submitted to the laboratory for analysis.</li> </ul> <p><b>Drilling carried out by Troy Resources NL (Troy) 2002-2009</b></p> <ul style="list-style-type: none"> <li>RC samples were passed directly from the in-line cyclone through a rig mounted multi-tier riffle splitter.</li> <li>Samples were collected in 1m intervals into bulk plastic bags and 1m 3Kg calico bags (which were retained for later use).</li> <li>AC samples were collected in 1m intervals and laid on the ground.</li> <li>From the bulk samples (RC or AC), a 5m composite sample was collected using a split PVC scoop and then submitted to the laboratory for analysis.</li> <li>Where anomalous gold zones were detected, 1m re-split samples were collected at a later date and submitted to the laboratory.</li> </ul>
<i>Drilling techniques</i>	<p><b>Drilling carried out by Alto Metals Ltd (2018)</b></p> <ul style="list-style-type: none"> <li>AC drilling with Drill Boss 200 rig with depth capacity of 150m, with a blade bit producing a sample of 85mm diameter and a down hole hammer bit producing a sample of 96mm diameter.</li> </ul> <p><b>Drilling carried out by Troy Resources NL (Troy) 2002-2009</b></p> <ul style="list-style-type: none"> <li>Troy's drilling at the Indomitable North prospect included AC and RC drilling.</li> </ul>
<i>Drill sample recovery</i>	<ul style="list-style-type: none"> <li>Alto's shallow AC samples were dry. Recovery was estimated as a percentage and recorded on field sheets prior to entry into the database.</li> <li>Alto has no quantitative information on Troy AC and RC sample recovery.</li> </ul>
<i>Logging</i>	<ul style="list-style-type: none"> <li>Alto Metals AC drill chips were sieved from each 1 m sample and geologically logged.</li> <li>Washed drill chips from each 1 m sample were stored in chip trays and photographed.</li> <li>Geological logging of drillhole intervals was done with sufficient detail to meet the requirements of resource estimation.</li> </ul>

<p><i>Subsampling techniques and sample preparation</i></p>	<p><b>Drilling carried out by Alto Metals Ltd (2018)</b></p> <ul style="list-style-type: none"> <li>MinAnalytical Laboratory Services Australia Pty Ltd located in Canning Vale, Western Australia, were responsible for sample preparation and assaying for drillhole 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.</li> <li>3kg 4m composite AC samples were dried and then ground in an LM5 ring mill for 85% passing 75 Microns.</li> <li>AC samples were analysed using 50 gm fire assay with AAS finish. (Reported on 10 July 2018)</li> <li>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.</li> </ul> <p><b>Drilling carried out by Troy (2002 - 2009)</b></p> <ul style="list-style-type: none"> <li>SGS Australia Pty Ltd (SGS) located in Perth, Western Australia, were responsible for sample preparation and assaying for drillhole samples and associated check assays. SGS at the time, were certified to the ISO 9001 requirements for all related inspection, verification, testing and certification activities.</li> <li>RC and AC samples were assayed using 50 gm fire assay with AAS finish, and sample sizes were noted as being 2kg.</li> </ul>
<p><i>Quality of assay data and laboratory tests</i></p>	<p><b>Drilling carried out by Alto Metals Ltd (2018)</b></p> <ul style="list-style-type: none"> <li>For Alto 4m composite sampling; field duplicates and field blank samples were inserted at a ratio of 1:20.</li> <li>For 1m re-split samples; field standards, field duplicates and field blanks were inserted at a ratio of 1:20.</li> <li>Laboratory Certified Reference Materials and/or in-house controls, blanks, splits and replicates are analysed with each batch of samples. 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.</li> <li>Laboratory and field QA/QC results are reviewed by Alto personnel.</li> </ul> <p><b>Drilling carried out by Troy (2002 - 2009)</b></p> <ul style="list-style-type: none"> <li>For Troy RC drilling, an average of 1 field duplicate, 1 blank and 1 standard was submitted for every 50 samples.</li> <li>For Troy AC drilling, field duplicates and standards were used at 1:50 however no blank samples were routinely used in RAB or AC drilling.</li> <li>Troy engaged Maxwell to undertake periodic audit of the exploration QAQC data.</li> </ul>
<p><i>Verification of sampling and assaying</i></p>	<ul style="list-style-type: none"> <li>Alto has not conducted any independent verification of the assay data.</li> <li>Values below the analytical detection limit were replaced with half the detection limit value.</li> <li>Troy engaged Maxwell to undertake periodic audit of their exploration QAQC data.</li> </ul>

<i>Location of data points</i>	<ul style="list-style-type: none"> <li>The grid is based on GDA94 zone 50.</li> <li>Alto used handheld Garmin GPS to locate and record drill collar positions, accurate to +/-5 metres. Alto's 2018 drill hole collar positions may be accurately located in GDA_94 space by a DGPS or a licensed surveyor in late 2018.</li> <li>Troy drill hole collars were recorded using either GPS, DGPS or by a licenced surveyor.</li> <li>In July 2017, Alto used a DGPS to re-locate historic Troy drill collars to verify the accuracy of historic data.</li> <li>In March 2018, Alto engaged a licenced surveyor to obtain accurate collar survey data for a substantial number of Alto drill holes and historic drill hole collars.</li> </ul>
<i>Data spacing and distribution</i>	<ul style="list-style-type: none"> <li>Alto's 2018 AC drill holes at Indomitable North were spaced at 20m.</li> <li>Troy's AC and RC drill holes at Indomitable North were spaced between 20m and 200m apart.</li> </ul>
<i>Orientation of data in relation to geological structure</i>	<ul style="list-style-type: none"> <li>There is no outcrop in the drilled area.</li> <li>Geological structures have been interpreted from drilling.</li> <li>Alto's 2018 drill holes were drilled at -90° which was designed to intersect mineralisation in the top 20m.</li> <li>The Troy drill orientation for Indomitable was typically -60° to 090° which was designed to intersect mineralisation perpendicular to the interpreted ore zones, but some sections on Indomitable North were drilled -60° towards 180°.</li> </ul>
<i>Sample security</i>	<p><b>Drilling carried out by Alto Metals Ltd (2018)</b></p> <ul style="list-style-type: none"> <li>4m composite and 1m original RC drill samples comprised approximately 3 kg of material within a labelled and tied calico bag.</li> <li>Individual sample bags were placed in a larger plastic poly-weave bag then into a bulka bag that was despatched to the laboratory via McMahon Burnett freight.</li> <li>Sampling data was recorded on field sheets and entered into a database then sent to the head office.</li> <li>Laboratory submission sheets are also completed and sent to the laboratory prior to sample receipt.</li> </ul>
<i>Audits and reviews</i>	<ul style="list-style-type: none"> <li>Alto has reviewed and compiled the technical data for Indomitable North internally. No audit has been completed to date.</li> <li>Troy engaged Maxwell to undertake periodic audit of the exploration QAQC data.</li> </ul>

**JORC (2012) Table 1, Section 2 Reporting of Exploration Results**

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

Criteria	Commentary
<i>Mineral tenement and land tenure</i>	<ul style="list-style-type: none"> <li>Alto's 2018 drilling program was completed on Exploration Licence 57/1031, granted on 20 September 2016 to Sandstone Exploration Pty Ltd, a wholly owned subsidiary of ASX listed Alto Metals Limited.</li> <li>The total project area covers approximately 800 km<sup>2</sup> with five exploration licences all granted on 20 September 2016 and three prospecting licences granted on 11 June 2016.</li> </ul>
<i>Exploration done by other parties</i>	<ul style="list-style-type: none"> <li>Previous work carried out by Troy is described in Alto's ASX release dated 15 February 2017.</li> <li>Indomitable North has had no known historical mining or prospecting due to 20 -30 m of alluvial cover.</li> </ul>
<i>Geology</i>	<ul style="list-style-type: none"> <li>Interpreted geology of Indomitable North prospect is described by Troy in Alto's ASX release dated 15 February 2017 and 10 July 2018.</li> </ul>
<i>Drillhole information</i>	<ul style="list-style-type: none"> <li>Alto's drill hole collar and assay information for Indomitable North is reported in Table1 of this report.</li> <li>Troy's drill hole collar and assay information for Indomitable North cross sections is reported in Table2 of this report</li> </ul>
<i>Data aggregation methods</i>	<ul style="list-style-type: none"> <li>Gold assay results +0.5 g/t Au for Alto reported in this report, and +1g/t Au for assays reported by Troy Resources.</li> <li>No metal equivalents have been used or reported.</li> </ul>
<i>Relationship between mineralisation widths and intercept lengths</i>	<ul style="list-style-type: none"> <li>Near-surface mineralisation from 0m to 16m is interpreted to be horizontal hence vertical intercepts can be considered to be true thickness.</li> <li>Deeper intercepts in angled holes may or may not be true widths due to lack of systematic drilling, deep oxidation and no outcrop or core.</li> </ul>
<i>Diagrams</i>	<ul style="list-style-type: none"> <li>Refer to figures in main body of report.</li> </ul>
<i>Balanced reporting</i>	<ul style="list-style-type: none"> <li>All available Alto drill hole Au assay results published, using +0.5 g/t Au cut-off grade.</li> </ul>
<i>Other substantive exploration data</i>	<ul style="list-style-type: none"> <li>No other material information available for Indomitable North prospect at this stage.</li> </ul>
<i>Further work</i>	<ul style="list-style-type: none"> <li>Further work will include drilling, Resource Estimation and metallurgical test-work.</li> </ul>