

# Mineralisation extended 100m further west Assay results – TERC 011

BBX Minerals Limited (ASX:BBX) ("BBX" or the "Company") is pleased to report assay results for RC drill hole TERC 011 from its 2017 drilling programme (Figure 2) at the Três Estados project (Figure 3). Assays were conducted for gold, platinum, palladium, iridium and rhodium.

Platinum and iridium mineralisation was intersected throughout the drill hole in both weathered and unweathered gabbro, further extending the known mineralisation to the west of the Adelar target.

Significant results include:

#### **TERC 011**

- 2m at 0.99 g/t 5E PGM<sup>1</sup> (0.99 g/t Pt) from 16m
- 2m at 0.88 g/t 5E PGM (0.51 g/t Pt and 0.37 g/t Ir) from 28m

Refer to Appendix 1 for the complete results.

Andre J Douchane, CEO commented: "I am very pleased that we continue to see mineralisation this far from the main target and close to surface".

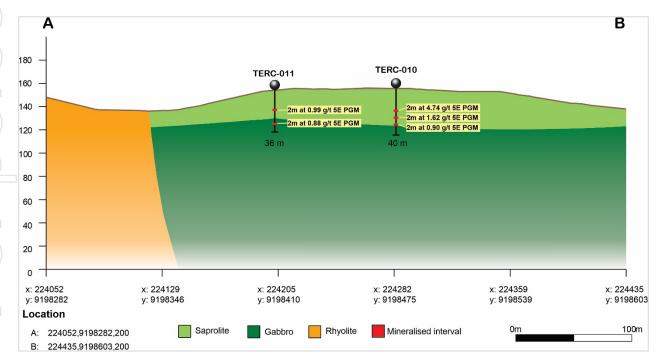


Figure 1 – A-B cross section with TERC-011 and TERC-010, down hole length reported, true width not known.

<sup>&</sup>lt;sup>1</sup> 5E PGM refers to the sum of platinum (Pt), palladium (Pd), iridium (Ir), rhodium (Rh) and gold (Au) expressed in units of g/t.



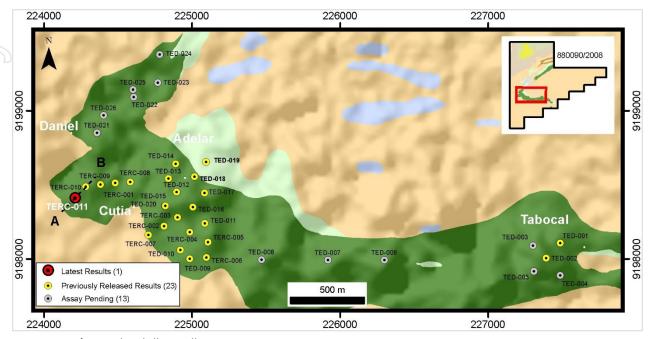


Figure 2 – Três Estados drilling collar summary

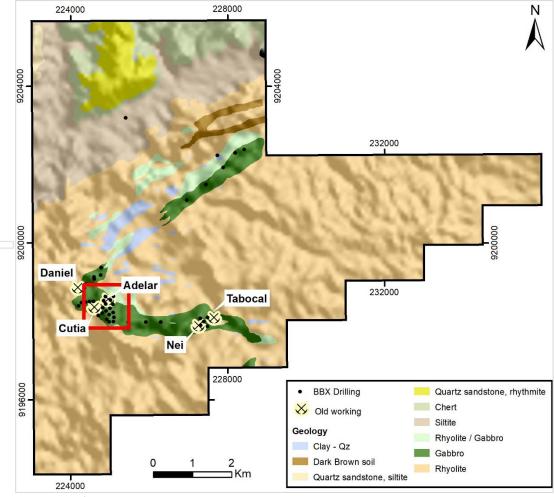


Figure 3 – Três Estados project



#### **Drillhole Location**

Hole ID	East	North	RL	Azimuth	DIP	Depth (m)	Tenement	Method
TERC-011	224202.00	9198410.00	153.00	0	-90	36.00	880.080/2008	RC

This announcement has been authorised for release by the Board of Directors.

For more information:

#### **André Douchane**

Chief Executive Officer adouchane@bbxminerals.com

## **Competent Person Statement**

The information in this report that relates to analytical test results of gold mineralisation in the Apuí region in Brazil is based on information compiled by Mr. Antonio de Castro, BSc (Hons), MAusIMM, CREA, who acts as BBX's Senior Consulting Geologist through the consultancy firm, ADC Geologia Ltda. Mr. de Castro has sufficient experience which is relevant to the type of deposit under consideration and to the reporting of exploration results and analytical and metallurgical test work 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". Mr. Castro consents to the report being issued in the form and context in which it appears.

CREA/RJ:02526-6D AusIMM:230624

## **About BBX Minerals Ltd**

BBX Minerals Limited is a mineral exploration and technology company listed on the Australian Securities Exchange. Its major focus is Brazil, mainly in the southern Amazon, a region BBX believes is vastly underexplored with high potential for the discovery of world class gold and precious metal deposits.

BBX's key assets are the Três Estados and Ema Gold Projects in the Apuí region, Amazonas State. The company has 270.5km² of exploration tenements within the Colider Group, a prospective geological environment for gold, PGM and base metal deposits.



## Appendix 1: Assay results

Hole ID	From	То	Au (g/t)	Pd (g/t)	Pt (g/t)	Ir (g/t)	Rh (g/t)	5E PGM (g/t)	Lithology
	0.00	2.00	-	-	0.59	-	-	0.59	Soil-red
	2.00	4.00	-	-	0.11	-	-	0.11	Saprolite-mafic
	4.00	6.00	-	-	-	0.37	-	0.37	Saprolite-mafic
	6.00	8.00	-	-	-	0.32	-	0.32	Saprolite-mafic
	8.00	10.00	-	-	-	0.35	-	0.35	Saprolite-mafic
	10.00	12.00	-	-	-	0.29	-	0.29	Saprolite-mafic
	12.00	14.00	-	-	-	0.11	-	0.11	Saprolite-mafic
	14.00	16.00	0.24	-	0.20	-	-	0.44	Saprolite-mafic
TERC-	16.00	18.00	-	-	0.99	-	-	0.99	Saprolite-mafic
011	18.00	20.00	-	-	-	-	-	-	Saprolite-mafic
	20.00	22.00	-	-	-	0.19	-	0.19	Saprolite-mafic
	22.00	24.00	-	-	-	-	-	-	Saprolite-mafic
	24.00	26.00	-	-	-	0.22	-	0.22	Gabbro-hem alt.
	26.00	28.00	-	-	-	0.12	-	0.12	Gabbro-hem alt.
	28.00	30.00	-	-	0.51	0.37	-	0.88	Gabbro-hem alt.
	30.00	32.00	-	-	0.23	0.33	-	0.56	Gabbro-hem alt.
	32.00	34.00	-	-	-	0.52	-	0.52	Gabbro-hem alt.
	34.00	36.00	-	-	-	-	-	-	Gabbro-hem alt.



# Appendix 2 for TERC 011

The following Table and Sections are provided to ensure compliance with JORC Code (2012 Edition).

TABLE 1 - Section 1: Sampling Techniques and Data for diamond drilling

Item	JORC code explanation	Comments
Techniques	<ul> <li>Nature and quality of sampling (eg cut channels, random chips, or specific specialised industry standard measurement tools appropriate to the minerals under investigation, such as down hole gamma sondes, or handheld XRF instruments, etc). These examples should not be taken as limiting the broad meaning of sampling.</li> <li>Include reference to measures taken to ensure sample representativity 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 (eg 'reverse circulation drilling was used to obtain 1 m samples from which 3 kg was pulverised to produce a 30 g charge for fire assay'). In other cases more explanation may be required, such as where there is coarse gold that has inherent sampling problems. Unusual commodities or mineralisation types (eg submarine nodules) may warrant disclosure of detailed information.</li> </ul>	<ul> <li>This announcement refers only to the analytical results for RC hole TERC-011 by the nickel extraction method described in this JORC table.</li> <li>The RC drilling was completed during September 2017.</li> <li>The data presented is based on the sampling and logging of reverse circulation drilling by company staff.</li> <li>The RC drilling and sampling procedures followed industry best practice, utilising an on-site riffle splitter to ensure representativity.</li> <li>Sample representativity was ensured by close supervision of the drilling and sampling process by a BBX geologist or field technician.</li> <li>The entire 1m sample was collected in a raffia bag and split down to 1kg. Almost all the samples were dry.</li> <li>The 2m composite was generated by mixing the 1kg sample from each 1m interval forming a 2kg sample which was subsequently riffle split with 50% sent to SGS for preparation and 50% stored.</li> <li>RC drill samples were submitted to the SGS laboratory in Vaspasiano, greater Belo Horizonte for crushing and pulverisation and subsequently freighted to the BBX's laboratory in Catalão, Goiás.</li> </ul>
Drilling Techniques	<ul> <li>Drill type (eg core, reverse circulation, open-hole hammer, rotary air blast, auger, Bangka, sonic, etc) and details</li> </ul>	<ul> <li>The drilling was conducted using a Reverse Circulation (RC) percussion drill. Penetration rates were quite</li> </ul>



Item	JORC code explanation (eg core diameter, triple or standard	Comments rapid down to the fresh rock,
	tube, depth of diamond tails, face- sampling bit or other type, whether core is oriented and if so, by what method, etc).	slowing thereafter. Average daily production was approximately 25m.
Drill Sample Recovery	<ul> <li>Method of recording and assessing core and chip sample recoveries and results assessed.</li> </ul>	Sample recovery for the RC drilling was generally above 90% with almost all sample collected dry in
	<ul> <li>Measures taken to maximise sample recovery and ensure representative nature of the samples.</li> </ul>	fresh rock.
	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.	
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.	<ul> <li>Geological logging has been completed by an experienced geologist to a high level of detail.</li> <li>Logging is qualitative in nature.</li> </ul>
	Whether logging is qualitative or quantitative in nature. Core (or costean, channel, etc) photography.	
	<ul> <li>The total length and percentage of the relevant intersections logged.</li> </ul>	
Sub- Sampling Techniques	If core, whether cut or sawn and whether quarter, half or all core taken.	The RC samples were collected on a standard 1m interval.
and Sampling Procedures	If non-core, whether riffled, tube sampled, rotary split, etc and whether sampled wet or dry.	Raffia big bags were used to collect the entire sample from each 1m interval
	For all sample types, the nature, quality and appropriateness of the sample preparation technique.	A 1kg sample was split off for subsequent composition of 2m intervals, 1kg from each metre.
	Quality control procedures adopted for all sub-sampling stages to maximise representivity of samples.	The 2kg, 2m composite sample was split in two, with 1kg sent to the lab and 1kg stored on site.
	<ul> <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> </ul>	<ul> <li>Almost all the samples were dry</li> <li>Sample preparation was conducted at SGS Vespasiano (greater Belo Horizonte) comprising oven drying, crushing of entire sample to 75% &lt;</li> </ul>



		MINERALS
Item	JORC code explanation	Comments
	Whether sample sizes are appropriate to the grain size of the material being sampled.	<ul> <li>3mm followed by rotary splitting and pulverisation of 250 to 300 grams at 95% minus 150#</li> <li>The &lt;3mm rejects and the 250-300 grams pulverized sample were</li> </ul>
		returned to BBX for storage and assay with a proprietary analytical technique.
Quality of Assay Data and Laboratory	The nature, quality and appropriateness of the assaying and laboratory procedures used and whether the technique is considered	<ul> <li>The analytical laboratory used was BBX's analytical laboratory in Catalão, Goias State, Brazil.</li> <li>The proprietary assay methodology</li> </ul>
Tests	<ul> <li>Por 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,</li> </ul>	is a nickel smelt at 1,500°C using a 25g sample, producing a nickel bead which is fully digested in HCl and the residue dissolved in 4 acids. The solution is fire assayed with a Pb and Ag collector, producing a silver bead after cupellation which is then digested in aqua regia, and the solution read on the AA for 5 elements.
	duplicates, external laboratory checks) and whether acceptable levels of accuracy (ie lack of bias) and precision have been established	Based on previous experience, it may represent a partial extraction. The results obtained should be regarded as specific to this assay method which may be more effective for some of the reported metals than others.
		<ul> <li>No geophysical tools or electronic device was used in the generation of sample results.</li> </ul>
		<ul> <li>Standard laboratory QA/QC procedures were followed, including standards, repeat assays and blanks. Acceptable levels of accuracy and precision were obtained.</li> </ul>
Verification of Sampling and Assaying	The verification of significant intersections by either independent or alternative company personnel.	<ul> <li>The results presented were not verified by independent or alternative company personnel.</li> </ul>
	The use of twinned holes.	No twinned holes were used.
	Documentation of primary data, data entry procedures, data verification,	Geological data is logged into Excel spreadsheets at the drill rig for



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ltem	JORC code explanation  data storage (physical and electronic) protocols.  • Discuss any adjustment to assay data.	Comments  transfer into the drill hole database. Microsoft Access is used for database storage and management and incorporates numerous data validation and integrity checks. All assay data is imported directly into the Microsoft Access database.  • Analytical results were supplied digitally, directly from the BBX's laboratory facility in Catalão to
Location of Data Points	Accuracy and quality of surveys used to locate drill holes (collar and down-hole)	<ul> <li>BBX's Exploration Manager in Rio de Janeiro.</li> <li>No adjustments were made.</li> <li>Drill collar locations were surveyed by GPS, at an estimated accuracy of</li> </ul>
	surveys), trenches, mine workings and other locations used in Mineral Resource estimation.  • Specification of the grid system used.  • Quality and adequacy of topographic control.	<ul> <li>2m.</li> <li>The UTM WGS84 zone 21S is used for current reporting.</li> <li>Topographic control is achieved via the use of government topographic maps in association with GPS and Digital Terrain Maps (DTM's).</li> </ul>
Data Spacing and Distribution	<ul> <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 continuity appropriate for the Mineral Resource and Ore Reserve estimation procedure(s) and classifications applied.</li> <li>Whether sample compositing has been applied.</li> </ul>	<ul> <li>Drilling in this target is typically with holes 200m apart in a N-S square grid, over the mapped gabbro unit</li> <li>Results are reported for intervals from RC drill holes in a 13-hole programme conducted in 2017.</li> <li>The data spacing and distribution is not sufficient to establish any degree of geological and grade continuity appropriate for Mineral Resource and Ore Reserve estimation procedures.</li> <li>All samples are 2m composites from original 1m samples.</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</li> </ul>	<ul> <li>The orientation of the sampling achieves unbiased sampling considering the deposit type.</li> <li>No structural control of mineralisation has been observed.</li> </ul>

BBX Minerals Ltd (ABN: 82 089 221 634)



Item	JORC code explanation	Comments
2	have introduced a sampling bias, this should be assessed and reported if material.	
Sample security	The measures taken to ensure sample security.	The pulps as received from SGS, in sealed plastic bags, were kept in a locked room until shipped to BBX's laboratory facility in Catalão. The Company has no reason to believe that sample security poses a material risk to the integrity of the assay data.
Audit or Reviews	The results of any audits or reviews of sampling techniques and data.	No external audits on the sampling techniques and assay data have been conducted.



## **Section 2: Reporting of Exploration Results**

Criteria	JORC code explanation	Commentary
Mineral Tenement and Land Tenure Status	<ul> <li>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.</li> <li>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.</li> </ul>	<ul> <li>The Três Estados lease is 100% owned by BBX with no issues in respect to native title interests, historical sites, wilderness or national park and environmental settings.</li> <li>The company is not aware of any impediment to obtain a licence to operate in the area.</li> </ul>
Exploration done by Other Parties	Acknowledgment and appraisal of exploration by other parties.	No exploration by other parties has been conducted in the region.
Geology	Deposit type, geological setting and style of mineralisation.	The geological setting of the area reported in this announcement is that of hydrothermally altered mafic intrusive within Proterozoic volcanic and volcanoclastic rocks. The precise nature of this unusual style of igneous rock-hosted precious metal mineralisation is currently unknown.
Drill Hole Information	<ul> <li>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:         <ul> <li>easting and northing of the drill hole collar</li> <li>elevation or RL (Reduced Level – elevation above sea level in metres) of the drill hole collar</li> <li>dip and azimuth of the hole</li> </ul> </li> </ul>	<ul> <li>Refer to the Drill Hole Collar Locations table in this announcement.</li> <li>No exclusion of information has occurred.</li> </ul>
	<ul> <li>down hole length and interception depth</li> </ul>	
	<ul> <li>hole length.</li> <li>If the exclusion of this information is justified on the basis that the information is not Material and this exclusion does not detract from the</li> </ul>	



Criteria	JORC code explanation	Commentary
	understanding of the report, the Competent Person should clearly explain why this is the case.	
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</li> </ul>	<ul> <li>Aggregate intercepts were calculated using a 0.8g/t 5E, with a maximum internal dilution of &lt;2m</li> <li>No metal equivalent values have been reported. The Company reported 5E PGM concentrations. This is calculated as the sum of platinum (Pt) plus palladium (Pd) plus gold (Au) plus iridium (Ir) plus rhodium (Rh) and expressed in units of g/t.</li> </ul>
	of metal equivalent values should be clearly stated.	
Relationship between mineralization widths and intercepted lengths	<ul> <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> </ul>	<ul> <li>The results reported cannot be used to define mineralisation widths or geometry.</li> <li>down hole length reported, true width not known</li> </ul>
	<ul> <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>	
Diagrams	<ul> <li>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.</li> </ul>	A map showing the drill hole location is included in this announcement.
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.	<ul> <li>The Company believes the ASX announcement provides a balanced report of the assay results of samples from TERC011.</li> <li>The results announced and presented in the cross sections refers only to the metals analysed</li> </ul>



Criteria	JORC code explanation	Commentary
)		by the current analytical procedure as described in this JORC table.
		<ul> <li>Results of metallurgical test work conducted on RC holes were reported in previous announcements.</li> </ul>
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>Airborne geophysical results and ground IP results were presented in previous announcements and are not referred to in this announcement.</li> <li>No other significant exploration data has been acquired by the Company. The company has drilled 44 drill holes (13 RC and 31 diamond) at the Três Estados project.</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>Key work is to complete assaying of all drilling completed to date to enable a JORC-compliant resource estimate to be conducted, followed by infill and extension drilling, as required</li> <li>In parallel, metallurgical pilot plant test work is continuing to define a commercially viable extraction technique</li> <li>A map showing the extent of gold in soil anomalies was included in previous announcements.</li> </ul>