

ASX Announcement

12 September 2018

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Directors

Michael Fry: **Chairman**

Ian Prentice:

Managing Director

Sonu Cheema:

Director and Company Secretary

Issued Capital

35,458,334 ("TMT") Fully Paid Ordinary Shares

22,510,000 Fully Paid Ordinary Shares classified as restricted securities

14,615,000 Unquoted Options exercisable at \$0.25 on or before 31 December 2019 - 13,690,000 classified as restricted securities

2,750,000 Unquoted Options exercisable at \$0.35 on or before 12 January 2021

6,133,333 – Quoted Options ("TMTO") exercisable at \$0.40 on or before 24 May 2020

3,333,334 - Unquoted Options exercisable at \$0.40 on or before 24 May 2020 vest on 15 September 2018

ASX Code: TMT FRA Code: TN6

HIGH PURITY +99.5% V₂O₅ PRODUCT CONFIRMED AT GABANINTHA

HIGHLIGHTS

- O PRODUCT GENERATION WORK DELIVERS HIGH PURITY 99.53%¹ V₂O₅.
- SUB-SAMPLES OF FINAL PRODUCT DISPATCHED TO A RANGE OF POTENTIAL VANADIUM END-USERS.
- O TESTWORK CONFIRMS GABANINTHA MINERALISATION WELL SUITED TO PRODUCE HIGH QUALITY PRODUCT USING CONVENTIONAL SALT ROAST / WATER LEACH PROCESSING.
- O DEFINITIVE-FEASIBITY STUDY MAKING SIGNIFICANT PROGRESS AND IS ON TRACK TO BE DELIVERED IN JUNE QUARTER 2019.

BACKGROUND

Technology Metals Australia Limited (ASX: **TMT**) ("**Technology Metals**" or the "**Company**") is pleased to provide an update on metallurgical testwork activities at its Gabanintha Vanadium Project ("**Gabanintha**" or "**Project**"). The initial production generation testwork, involving the precipitation of ammonium metavanadate and subsequent generation of high purity V_2O_5 product from a ~60kg composite sample of high grade massive magnetite mineralisation, has now been completed.

This work has delivered a V_2O_5 product with a purity of 99.53% from an ammonium metavanadate precipitate that recovered >98% of vanadium from a leach solution generated from salt roasting of the magnetic concentrate from Gabanintha.

This work further confirms that the wholly owned **Gabanintha deposit is** amenable to producing very high purity V_2O_5 using conventional salt roast / water leach processing, with relatively low reagent consumption and without the requirement of additional costly contaminant removal steps. Both the solution and final product produced from this testwork are regarded as extremely clean and low in solution impurities.

Gabanintha hosts an **Ore Reserve of 16.7 Mt at 0.96% V_2O_5**, contained within an Indicated Mineral Resource of 21.6 Mt at 0.9% V_2O_5 in the Northern Block. Ongoing drilling as part of the DFS is focused on expanding the Indicated Mineral Resource within the current Global Mineral Resource estimate of 119.9 Mt at 0.8% V_2O_5 and 9.7% TiO_2 .

Managing Director Ian Prentice commented; "To achieve greater than 99.5% purity of V_2O_5 product from this phase of testwork is a very exciting achievement for the Company and I look forward to presenting these results to interested parties during my current visit to China"

1 – V2O5 purity calculated on the sum of impurities on oxide basis with those impurities below the level of detection treated as half the limit of detection.

METALLURGICAL TESTWORK - PRODUCT GENERATION

A program of metallurgical testwork designed to generate final product for end-users has been completed under the supervision of the Company's metallurgical consultant METS Engineering Group Pty Ltd ("**METS**"). This round of testwork was based on representative samples of the high grade massive magnetite zone from the diamond drilling completed in the 2017 drilling campaign.

Testwork has definitively shown that magnetic concentrates produced from all zones of the massive magnetite and the fresh disseminated magnetite are amenable to conventional salt roast / water leach processing. The magnetic concentrates delivered very high vanadium recoveries and rejection of gangue minerals from the high grade fresh and transition material and the disseminated medium grade fresh material. Vanadium grades reporting to the magnetic concentrate ranged from 1.27 to $1.34\%~V_2O_5$ for these ore types, with weight recoveries ranging from 85.6% for the massive high grade fresh composite to 33% for the disseminated medium grade fresh composite.

Previous downstream processing testwork confirmed the high quality of the Gabanintha ore, delivering final V_2O_5 product with a purity in excess of 99% (see ASX announcement dated 31 May 2018).

The recently completed product generation testwork, conducted by ALS Metallurgy Services, used approximately 60kg of combined transitional and fresh high grade massive magnetite mineralisation, which generated approximately 49kg of magnetic concentrate after being processed through triple pass LIMS at 1200 Gauss. The composited magnetic concentrate was batch salt roasted, with the resultant calcine product water leached to ensure complete dissolution of sodium vanadate to the leach solution.

The leach solution containing the vanadium was then subjected to desilication, generating a cleaner ammonium metavanadate (AMV) feed solution than the previous downstream processing testwork. AMV precipitate was filtered from this feed solution, with >98% of the vanadium recovered in to a high purity precipitate. The AMV precipitate was then calcined to generate a final V_2O_5 product (see Figure 1), with a calculated purity of 99.53% based on the sum of impurities method. Impurities within the final V_2O_5 consist of a small volume of alumina, chromium, copper, potassium and magnesium.



Figure 1: Photograph of High Purity 99.53% V₂O₅ Product from Gabanintha

Sub-samples of this high purity V_2O_5 have been dispatched to a range of potential vanadium endusers to be independently assessed for relevant applications, initially targeting the steel and vanadium redox flow battery (VRB) industry sectors. The very high purity achieved in this initial product generation stage underscores the opportunity to also target the speciality chemical and aeronautical industries, thereby providing scope to attract substantial premiums to the 98% V_2O_5 pricing index.



Figure 2: High Purity 99.53% V₂O₅ Sub-Samples Packaged for Dispatch

This work further confirms that the mineralisation from the Gabanintha deposit is well suited to produce a very high purity V_2O_5 product using conventional salt roast / water leach processing techniques, with relatively low reagent consumption and without the requirement of additional costly contaminant removal steps. Both the solution and final product produced from this testwork are regarded as extremely clean and low in solution impurities.

DEFINITIVE FEASIBILITY STUDY

The definitive feasibility study ("**DFS**") on the development of the Project has made significant progress since formal commencement on Tuesday 31 July 2018, with the team of experienced industry expert consultants focused on delivering a high quality outcome in a time frame to support the rapid development of this outstanding project. The DFS team is being managed on behalf of the Company by Wave International ("**Wave**") as the lead consultant supported by a range of industry leading consultants including METS Engineering, CSA Global and Integrate Sustainability. The DFS is scheduled for completion in the June quarter 2019.

Work completed to date includes:

- Progression of metallurgical testwork, including work on generation of final product sample to provide to potential off-take partners;
- Investigation of local process water solutions;
- Progression of environmental and heritage studies in support of advancing mining lease grant and statutory approvals;
- Ongoing development of detailed process flow diagrams;
- Progress process plant engineering and design;
- Engineering concept designs for crushing circuit and stockpiling;
- Progression of development of site infrastructure layout plans;
- Commencement of design development for non-process infrastructure; and
- Issue of tenders for process plant vendor testwork services.

ABOUT VANADIUM

Vanadium is a hard, silvery grey, ductile and malleable speciality metal with a resistance to corrosion, good structural strength and stability against alkalis, acids and salt water. The elemental metal is rarely found in nature. The main use of vanadium is in the steel industry where it is primarily used in metal alloys such as rebar and structural steel, high speed tools, titanium alloys and aircraft. The addition of a small amount of vanadium can increase steel strength by up to 100% and reduces weight by up to 30%. Vanadium high-carbon steel alloys contain in the order of 0.15 to 0.25% vanadium while high-speed tool steels, used in surgical instruments and speciality tools, contain in the range of 1 to 5% vanadium content. Global economic growth and increased intensity of use of vanadium in steel in developing countries will drive near term growth in vanadium demand.

An emerging and likely very significant use for vanadium is the rapidly developing energy storage (battery) sector with the expanding use and increasing penetration of the vanadium redox batteries ("VRB's"). VRB's are a rechargeable flow battery that uses vanadium in different oxidation states to store energy, using the unique ability of vanadium to exist in solution in four different oxidation states. VRB's provide an efficient storage and re-supply solution for renewable energy – being able to time-shift large amounts of previously generated energy for later use – ideally suited to micro-grid to large scale energy storage solutions (grid stabilisation). Some of the unique advantages of VRB's are:

- a lifespan of 20 years with very high cycle life (up to 20,000 cycles) and no capacity loss,
- rapid recharge and discharge,
- easily scalable into large MW applications,
- · excellent long term charge retention,
- improved safety (non-flammable) compared to Li-ion batteries, and
- can discharge to 100% with no damage.

Global economic growth and increased intensity of use of vanadium in steel in developing countries will drive near term growth in vanadium demand.

The global vanadium market has been operating in a deficit position for the past five years (source: TTP Squared Inc), with a forecast deficit of 9,700 tonnes in 2017. As a result, vanadium inventories have been in steady decline since 2010 and they are forecast to be fully depleted in 2017 (source: TTP Squared Inc). Significant production declines in China and Russia have exacerbated this situation, with further short term production curtailment expected in China as a result of potential mine closures resulting from environmental restrictions and the banning of the import of vanadium slag.

The tightening supplies of vanadium are resulting in a global shortage, with prices appreciating dramatically since mid 2017, with the vanadium pentoxide prices have increased further in 2018 to in excess of US\$19/lb V_2O_5 , from a low of less than US\$4/lb V_2O_5 in early 2017.

For, and on behalf of, the Board of the Company,

Ian Prentice

Managing Director
Technology Metals Australia Limited

About Technology Metals Australia Limited

Technology Metals Australia Limited (ASX: TMT) was incorporated on 20 May 2016 for the primary purpose of identifying exploration projects in Australia and overseas with the aim of discovering commercially significant mineral deposits. The Company's primary exploration focus is on the Gabanintha Vanadium Project located 40 km south east of Meekatharra in the mid-west region of Western Australia with the aim to develop this project to potentially supply high-quality V_2O_5 flake product to both the steel market and the emerging vanadium redox battery (VRB) market.

The Project consists of seven granted tenements (and two Mining Lease applications). Vanadium mineralisation is hosted by a north west – south east trending layered mafic igneous unit with a distinct magnetic signature. Mineralisation at Gabanintha is similar to the Windimurra Vanadium Deposit, located 270km to the south, and the Barrambie Vanadium-Titanium Deposit, located 155km to the south east. The key difference between Gabanintha and these deposits is the consistent presence of the high grade massive vanadium – titanium – magnetite basal unit, which results in an overall higher grade for the Gabanintha Vanadium Project.

Data from the Company's 2017 drilling programs (85 RC holes (for 8,386 m) and 13 HQ diamond holes (for 1,235.5 m) at the Northern Block and 23 RC holes (for 2,232 m) at the Southern Tenement) has been used by independent geological consultants CSA Global to generate a global Inferred and Indicated Mineral Resource estimate, reported in accordance with the JORC Code 2012 edition, for the Project. The Resource estimate confirmed the position of the Gabanintha Vanadium Project as one of the highest grade vanadium projects in the world.

Table 1: Global Mineral Resource estimate for the Gabanintha Vanadium Project as at 5 March 2018

Technology Metals Gabanintha Vanadium Project - Global Mineral Resources as at March 2018										
Material	Classification	Tonnage (Mt)	V2O5%	Fe%	Al2O3%	SiO2%	TiO2%	LOI%	Р%	S%
	Indicated	14.5	1.1	49.2	5.1	5.8	12.8	-0.2	0.007	0.2
Massive magnetite	Inferred	40.5	1.1	48.3	5.5	6.5	12.7	0.2	0.007	0.2
	Indicated + Inferred	55.0	1.1	48.5	5.4	6.3	12.7	0.1	0.007	0.2
	Indicated	7.1	0.6	29.9	12.6	24.4	7.8	2.9	0.032	0.1
Disseminated magnetite	Inferred	57.7	0.6	27.2	13.7	26.7	7.2	4.0	0.024	0.2
	Indicated + Inferred	64.9	0.6	27.5	13.5	26.4	7.2	3.9	0.025	0.2
Combined	Indicated + Inferred	119.9	0.8	37.1	9.8	17.2	9.7	2.1	0.016	0.2

^{*} Note: The Mineral Resource was estimated within constraining wireframe solids using a nominal 0.9% V2O5 lower cut-off for the Massive magnetite zone and using a nominal 0.4% V2O5 lower cut-off for the banded and disseminated mineralisation zones. The Mineral Resource is quoted from all classified blocks within these wireframe solids above a lower cut-off grade of 0.4% V2O5. Differences may occur due to rounding.

Data from the Global Mineral Resource and the recently completed PFS on the Gabanintha Vanadium Project were used by independent consultants CSA Global to generate a maiden Probable Ore Reserve estimate based on the Indicated Mineral Resource of 21.6 Mt at 0.9% V_2O_5 located within the Northern Block of tenements at Gabanintha.

Table 2: Ore Reserve Estimate as at 31 May 2018

Reserve Category	Tonnes (Mt)	Grade V ₂ O ₅ %	Contained V ₂ O ₅ Tonnes (Mt)
Proven	-	-	-
Probable	16.7	0.96	0.16
Total	16.7	0.96	0.16

- Includes allowance for mining recovery (95%) and mining dilution (10% at 0.0 %V₂O₅)
- Rounding errors may occur

Capital Structure	
Tradeable Fully Paid Ordinary Shares	35.458m
Escrowed Fully paid Ordinary Shares ¹	22.51m
Fully Paid Ordinary Shares on Issue	57.968m
Unquoted Options ² (\$0.25 – 31/12/19 expiry)	14.615m
Unquoted Options (\$0.35 – 12/01/21 expiry)	2.75m
Unquoted Options ³ (\$0.40 – 24/05/20 expiry)	9.467m

- 1 22.51 million fully paid ordinary shares will be tradeable from 21 December 2018.
- 2 –13.69 million unquoted options are subject to restriction until 21 December 2018.
- 3 3,333,334 options vest to eligible employees and consultants on 15 September 2018.

Forward-Looking Statements

This document includes forward-looking statements. Forward-looking statements include, but are not limited to, statements concerning Technology Metal Australia Limited's planned exploration programs, corporate activities and any, and all, statements that are not historical facts. When used in this document, words such as "could," "plan," "estimate," "expect," "intend," "may", "potential," "should" and similar expressions are forward-looking statements. Technology Metal Australia Limited believes that its forward-looking statements are reasonable; however, forward-looking statements involve risks and uncertainties and no assurance can be given that actual future results will be consistent with these forward-looking statements. All figures presented in this document are unaudited and this document does not contain any forecasts of profitability or loss.

Competent Persons Statement

The information in this report that relates to Exploration Results are based on information compiled by Mr Ian Prentice. Mr Prentice is a Director of the Company and a member of the Australian Institute of Mining and Metallurgy. Mr Prentice has sufficient experience relevant to the styles of mineralisation and types of deposits which are covered in this report and to the activity which they are undertaking to qualify as a Competent Person as defined in the 2012 edition of the 'Australasian Code for Reporting of Exploration Results, Mineral Resources and Ore Reserves' ("JORC Code"). Mr Prentice consents to the inclusion in this report of the matters based on his information in the form and context in which it appears.

The information in this report that relates to Mineral Resources is based on information compiled by Mr Aaron Meakin. Mr Meakin is a Principal Consultant with CSA Global and a Member of the Australian Institute of Mining and Metallurgy. Mr Meakin has sufficient experience relevant to the styles of mineralisation and types of deposits which are covered in this report and to the activity which he is undertaking to qualify as a Competent Person as defined in the 2012 edition of the 'Australasian Code for Reporting of Exploration Results, Mineral Resources and Ore Reserves' ("JORC Code"). Mr Meakin consents to the inclusion in this report of the matters based on his information in the form and context in which it appears.

The information that relates to Ore Reserves is based on information compiled by Mr Daniel Grosso and reviewed by Mr Karl van Olden, both employees of CSA Global Pty Ltd. Mr van Olden takes overall responsibility for the Report as Competent Person. Mr van Olden is a Fellow of The Australasian Institute of Mining and Metallurgy and has sufficient experience, which is relevant to the style of mineralisation and type of deposit under consideration, and to the activity he is undertaking, to qualify as Competent Person in terms of the JORC (2012 Edition). The Competent Person, Karl van Olden has reviewed the Ore Reserve statement and given permission for the publication of this information in the form and context within which it appears.

The information in this report that relates to the Processing and Metallurgy for the Gabanintha project is based on and fairly represents, information and supporting documentation compiled by Damian Connelly who is a Fellow of The Australasian Institute of Mining and Metallurgy and a full time employee of METS. Damian Connelly has sufficient experience relevant to the style of mineralisation and type of deposit under consideration and to the activity which he is undertaking to qualify as a Competent Person as defined in the 2012 Edition of the 'Australasian Code for Reporting of Exploration Results, Mineral Resources and Ore Reserves' ("JORC Code"). Damian Connelly consents to the inclusion in the report of the matters based on his information in the form and context in which it appears.

APPENDIX 1

JORC Code, 2012 Edition – Table 1

1.1 Section 1 Sampling Techniques and Data

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

Sampling
techniques

Criteria

JORC Code explanation

- Nature and quality of sampling (e.g. 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.
- Include reference to measures taken to ensure sample representivity and the appropriate calibration of any measurement tools or systems used.
- Aspects of the determination of mineralisation that are Material to the Public Report.
- In cases where 'industry standard' work has been done this would be relatively simple (e.a. '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 • Duplicate samples were submitted for analysis for every 20 cases, more explanation may be required, such as where there is coarse gold that has inherent sampling problems. Unusual commodities or mineralisation types (e.g. submarine nodules) may warrant disclosure of detailed information.

Commentary

- A combination of reverse circulation (RC) and diamond drilling was completed across the project area to obtain 1m samples as follows:
 - o 85 RC holes for 8.386m on the Northern Block
 - 13 HQ diamond holes for 1,235m on the Northern Block
- For the RC drilling 1m samples were cone split off the rig cyclone, with sample weights of nominally 2 to 3 kg collected.
- Duplicate 2 to 3 kg samples were collected from every metre sample.
- m down hole, ensuring duplicates were submitted for mineralised zones (based on geological logging and handheld Olympus Vanta XRF results).
- For the diamond drilling 1m samples were cut half core except where duplicates were presented to the lab and the primary sample was quarter core (one in every 20 to test the consistency of sample preparation) with samples typically 2 to 6 kg being collected.
- Six ~0.5m whole core samples were collected for metallurgical testwork.
- Individual samples were assayed for every interval, with a representative half core being kept for the majority of intervals drilled.
- Standards were submitted for analysis for every 20m down hole, testing QC of the XRF analysis.
- Blank material (sand) was presented to the lab every 50th sample to test the cleanliness of the crushing procedure at the lab.
- Samples analysed by XRF spectrometry following digestion and Fused Disk preparation.
- This ASX release dated 4 April 2018 reports on downstream processing testwork completed on previously drilled diamond core samples from the Gabanintha Vanadium Project.
- Four of the previously selected vanadium bearing titaniferous magnetite composites were used for

Criteria	JORC Code explanation	Commentary
		downstream salt roast / water leach processing testwork – representing massive oxide, transitional and fresh and disseminated fresh material.
Drilling techniques	 Drill type (e.g. core, reverse circulation, open-hole hammer, rotary air blast auger, Bangka, sonic, etc) and details (e.g. core diameter, triple or standard tube, depth of diamond tails, face-sampling bit or other type, whether core is oriented and if so, by what method, etc). 	d • HQ3 triple tube (for oxide) and HQ2 (below weathering
Drill sample recovery	 Method of recording and assessing core and chip sample recoveries and results assessed. Measures taken to maximise sample recovery and ensure representative nature of the samples. 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. 	 bulk sample collected for each metre. Each bag was not weighed. For 1 in 3 holes a spring gauge was used to ensure the cone split remained within the 2 to 3 kg range. Diamond drilling sample recovery was assessed based on
Logging	 Whether core and chip samples have been geologically and geotechnically logged to a level of detail to support appropriate Mineral Resource estimation, mining studies and metallurgical studies. Whether logging is qualitative or quantitative in nature. Core (or costean channel, etc.) photography. The total length and percentage of the relevant intersections logged. 	holes logged in detail.RC drill chips for every meter were collected in trays and
Sub-sampling techniques and sample preparation	 If core, whether cut or sawn and whether quarter, half or all core taken. If non-core, whether riffled, tube sampled, rotary split, etc and whethe sampled wet or dry. For all sample types, the nature, quality and appropriateness of the sample preparation technique. Quality control procedures adopted for all sub-sampling stages to maximise representivity of samples. 	 Samples were cone split at the drill rig and represent approximately 5% of the total material for each metre sampled.

• Measures taken to ensure that the sampling is representative of the in-situ

• Whether sample sizes are appropriate to the grain size of the material being

half sampling.

sampled.

material collected, including for instance results for field duplicate/second-

Field duplicates were submitted such that there were at least 1 duplicate sample for every 20 samples analysed.
For diamond drilling half core was taken using a V notched

analysis.

 For diamond drilling half core was taken using a V notched slider on a manual diamond core saw, except for one in

fused with a lithium borate flux and cast into disks for

Criteria	JORC Code explanation	Commentary
		twenty samples where quarter core was presented to the lab as the primary sample and a duplicate quarter core presented with a different sample number. The core saw cuttings were cleared every 30 samples and between high and low-grade samples and when chips were dislodged Samples were collected in calico bags, double bagged in polweave bags and triple bagged in bulk bags to ensure no sample loss. Calico bags were dried then emptied and crushed in jaw crushers then pulverised in ring mills at Intertek Genalysis Samples were fused with a lithium borate flux and cast in to disks for analysis by XRF. Diamond twin drilling has been completed for 5 holes from the previous RC program with the RC under reporting grade only marginally suggesting the sample size has been appropriate to the material being sampled. Any loss of fines in previous RC drilling is not contributing to a systematic 'upgrading' of V ₂ O ₅ or TiO ₂ Standards were submitted for analysis for every 20m down hole, validating QC of the XRF analysis Blank material (sand) was presented to the lab every 50th sample to test the cleanliness of the crushing procedure at the lab.
Quality of assay data and laboratory tests	 The nature, quality and appropriateness of the assaying and laboratory procedures used and whether the technique is considered partial or total. For geophysical tools, spectrometers, handheld XRF instruments, etc, the parameters used in determining the analysis including instrument make and model, reading times, calibrations factors applied and their derivation, etc. Nature of quality control procedures adopted (e.g. standards, blanks duplicates, external laboratory checks) and whether acceptable levels of accuracy (i.e. lack of bias) and precision have been established. 	metre samples) were fused with a lithium borate flux and cast in to disks and analysed by XRF spectrometry – method FB1/XRF77. • Field duplicates, appropriate certified reference materials (CRMs) including crushed standards derived from previous

Criteria	JORC Code explanation	Commentary
Verification of sampling and assaying	 The verification of significant intersections by either independent or alternative company personnel. The use of twinned holes. Documentation of primary data, data entry procedures, data verification, data storage (physical and electronic) protocols. Discuss any adjustment to assay data. 	 Significant intersections correlate with mineralised zones as defined from geological logging. All sampling was completed by an independent geologist Mr John McDougall BSc. (Hons). MAIG. The estimation of significant intersections has been verified by an alternate company personnel. There were no adjustments to assay data. Where the half metre core for metallurgical testwork was removed the intersection was reported excluding this interval.
Location of data points	 Accuracy and quality of surveys used to locate drill holes (collar and downhole surveys), trenches, mine workings and other locations used in Mineral Resource estimation. Specification of the grid system used. Quality and adequacy of topographic control. 	 The grid system used for collar positions was MGA94 – Zone 50. Planned hole collar positions were located using hand held global positioning system (GPS). Collars were later located by differential GPS (DGPS). The coordinates correlate well so DGPS hole position data has being verified. RL's are also derived from the DGPS and were collected to +- 0.10m. The accuracy has been rounded for presentation. Down hole surveys were completed using an Axis Gyro every 30m down hole and at the collar and end of hole.
Data spacing and distribution	 Data spacing for reporting of Exploration Results. 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. Whether sample compositing has been applied. 	 The drill data in the Northern Block is on nominal 100m and 200m line spacing with holes located every 40 to 50m along the drill lines. 13 diamond holes were drilled in the Northern Block with 5 twins of previous RC drilling and a broad spread of locations to measure representative density data. Detailed airborne magnetics supports strike and down dip continuity assumptions of the massive magnetite zone which is known to host high grade mineralisation. This continuity has been additionally supported by drilling data. Data is considered appropriate for use in estimating a Mineral Resource. No sample compositing is applied to the resource numbers.
Orientation of data in relation to geological structure	 Whether the orientation of sampling achieves unbiased sampling of possible structures and the extent to which this is known, considering the deposit type. If the relationship between the drilling orientation and the orientation of key mineralised structures is considered to have introduced a sampling bias, this should be assessed and reported if material. 	would have been unlikely to have introduced a sampling
Sample security	The measures taken to ensure sample security.	 Samples were collected in calico, polyweave and bulk bags, sealed securely and transported by Company personnel until handover to a commercial transport company, which delivered the samples by road transport to

Criteria	JORC Code explanation	Commentary
		the laboratory.
Audits or reviews	The results of any audits or reviews of sampling techniques and data.	 A representative from the independent geological consultants, CSA Global, visited the site during the infill and extensional drilling program in the Northern Block and found drilling and sampling procedures and practices to be acceptable. No other audits or reviews have been completed to date.

1.2 Section 2 Reporting of Exploration Results

(Criteria listed in th	ne preceding section also apply to this section.)	
Criteria Mineral tenement and land tenure status	 Type, reference name/number, location and ownership including agreements or material issues with third parties such as joint ventures, partnerships, overriding royalties, native title interests, historical sites, wilderness or national park and environmental settings. The security of the tenure held at the time of reporting along with any known impediments to obtaining a licence to operate in the area. 	 The areas drilled are located on current Prospecting Licences 51/2942, 51/2943 and 51/2944 and Exploration Licence 51/1510. The tenements are granted and held by The KOP Ventures Pty Ltd, a wholly owned subsidiary of Technology Metals Australia Limited.
Exploration done by other parties	Acknowledgment and appraisal of exploration by other parties.	 RC drilling was completed in 1998 by Intermin Resources NL under an option agreement on tenements held by Oakland Nominees Pty Ltd – consisting of GRC9801 to GRC9805 (on Prospecting Licences 51/2164) and GRC9815 to GRC9817 (on Prospecting Licence 51/2183). The areas drilled are located on current Prospecting Licences 51/2943 (GRC9801, GRC9802), 51/2944 (GRC9803, GRC9804, GRC9805) and 51/2942 (GRC9815 to GRC9817) held by The KOP Ventures Pty Ltd, a wholly owned subsidiary of Technology Metals Australia Limited. Exploration prior to this drilling included geological mapping and limited rock chip sampling completed across a zone of outcropping vanadiferous titanomagnetite layered mafic igneous unit by various parties.
Geology	Deposit type, geological setting and style of mineralisation.	 Massive vanadiferous titanomagnetite within an intrusive medium to coarse grained anorthositic gabbroic layered sill roughly 1 km thick in the Gabanintha formation. Fractionation within the intrusive body forms cumulate layers of magnetite near the base of the intrusion. Occurs both in outcrop and extending down dip in parallel layers with a dip of ~60-65 degrees steepening in the northern zone to >70 degrees.
Drill hole Information	 A summary of all information material to the understanding of the exploration results including a tabulation of the following information for all Material drill holes: 	 Not relevant. Exploration results are not being reported. All relevant material from previous drilling has been reported to the ASX on the following dates: 9th March 2017, 4th April

Criteria	JORC Code explanation	Commentary
	 easting and northing of the drill hole collar elevation or RL (Reduced Level – elevation above sea level in metres) of the drill hole collar dip and azimuth of the hole down hole length and interception depth hole length. 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 understanding of the report, the Competent Person should clearly explain why this is the case. 	
Data aggregation methods	 In reporting Exploration Results, weighting averaging techniques, maximum and/or minimum grade truncations (e.g. cutting of high grades) and cut-off grades are usually Material and should be stated. 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. The assumptions used for any reporting of metal equivalent values should be clearly stated. 	
Relationship between mineralisation widths and intercept lengths	 These relationships are particularly important in the reporting of Exploration Results. If the geometry of the mineralisation with respect to the drill hole angle is known, its nature should be reported. If it is not known and only the down hole lengths are reported, there should be a clear statement to this effect (e.g. 'down hole length, true width not known'). 	
Diagrams	 Appropriate maps and sections (with scales) and tabulations of intercepts should be included for any significant discovery being reported These should include, but not be limited to a plan view of drill hole collar locations and appropriate sectional views. 	Table 1 applies.
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. 	
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. 	
Further work	 The nature and scale of planned further work (e.g. tests for lateral extensions or depth extensions or large-scale step-out drilling). Diagrams clearly highlighting the areas of possible extensions, including the main geological interpretations and future drilling areas, provided this information is not commercially sensitive. 	drilling, particularly in areas of current nominal 200m line spacing.