

Sorpresa Basin area exploration results support further sampling

Highlights

The results of current auger sampling work at a range of local prospects support further work. Work program results from testing at a range of prospects (Figure 1) includes;

- ✓ Broad spaced auger sampling at Transit Corridor prospect supports additional auger program to obtain bedrock samples from a structurally controlled zone of approximately 600m strike x 80m width.
- ✓ Broad spaced auger sampling at Fortuna indicate anomalous gold bedrock results are open to the west in the direction of adjacent Casuarina Valley (< 1km away).</p>
- ✓ Pilot auger sampling program at Casuarina Valley obtains bedrock black silica samples which are the same host lithology as at Sorpresa.
- ✓ Pilot auger sampling program at Rabbers Lookout confirms that bedrock is too deep to reliably obtain samples with auger and an aircore drilling program will be necessary

At **Transit**, the relatively broad spaced auger sampling completed in February, when added to existing rock chip surface (<u>ASX Transit Rock Chip Results 11 February 2019</u>) and bedrock geochemical data in the area, indicates the eastern mineralised zone 2, with an approximate 600m strike length and 80m width, is a zone with potential connection to a larger scale mineral system below the current land surface (Figure 2). This eastern zone will be tested with a focused auger sampling program aimed at determining the potential for near surface structurally controlled vein hosted mineralisation.

At **Fortuna** the broad spaced auger drilling obtained anomalous gold bedrock results that are open to the west in the direction of adjacent Casuarina Valley that is within 1 km (Figure 3). Further bedrock auger drilling will be necessary to determine the surface extent of the anomalous zone of gold bedrock geochemistry.

Casuarina Valley prospect is a broad area of approximately 3km strike length and 1km width. A trial LAG (coarse sieved surface sample) sampling program was successful and will allow a more efficient method for assessing the broader prospect. Two lines of bedrock auger sampling were also undertaken (Figure 4) and identified a coherent zone of black silica lithology, which is the same lithology as at Sorpresa, as well as locally anomalous gold.

Rimfire Pacific Mining NL (ASX: RIM, "the Company" or "Rimfire") provides an update on ongoing exploration at the Fifield project in New South Wales which forms part of its key Dual Strategy (ASX 25 September 2018). The company has recently completed a program of near surface auger sampling work across a number of prospects within several kilometres of existing resources at Sorpresa (ASX Priority Exploration Work Program 20 November 2018). The work has provided confidence for the company to progress its exploration activities as it seeks to identify gold minerisation at a number of interesting prospects.



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At **Rabbers Lookout** a pilot test was undertaken of augering for bedrock samples to assess if the technique was the appropriate method (Figure 5). The results confirmed that this prospect will require bedrock sampling with an aircore drilling technique due to a deeper (>5m deep) zone of transported surficial cover across parts of the prospect. The Rabbers Lookout prospect is along strike approximately 1.5km to the south west of Trench 31 and is considered a geophysical analogue to Sorpresa (ASX Rabbers Lookout 22 November 2018).

At **Wiggies** two pilot lines of auger sampling to obtain bedrock samples was completed (Figure 6). The results confirm that this prospect can be further assessed with an auger program.

Overall a total of 367 auger holes for a total of 902m has been completed at Transit, Fortuna, Casuarina Valley, Rabbers Lookout and Wiggies prospects.

Craig Riley, Managing Director at Rimfire said:

"The recent work assessing near surface opportunities for further mineralisation in the Sorpresa area continues to provide encouraging results. The Sorpresa Basin potential for further zones of mineralisation remains very strong as work progresses."

Craig Riley Managing Director



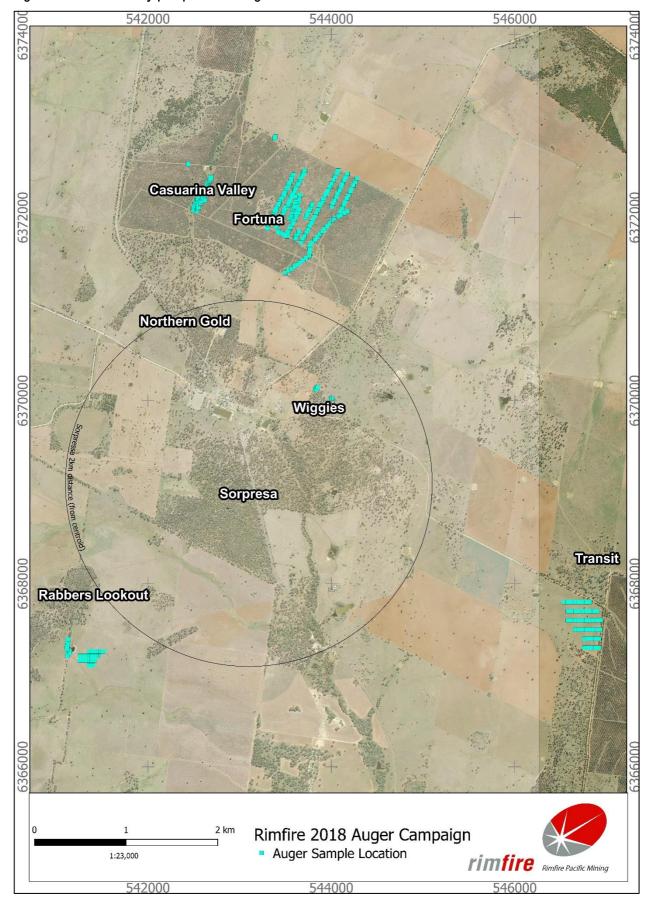


Figure 1: Location of key prospects and auger work



Figure 2: Auger gold on mineralisation style surface mapping at Transit (inset = surface rock assay locations)

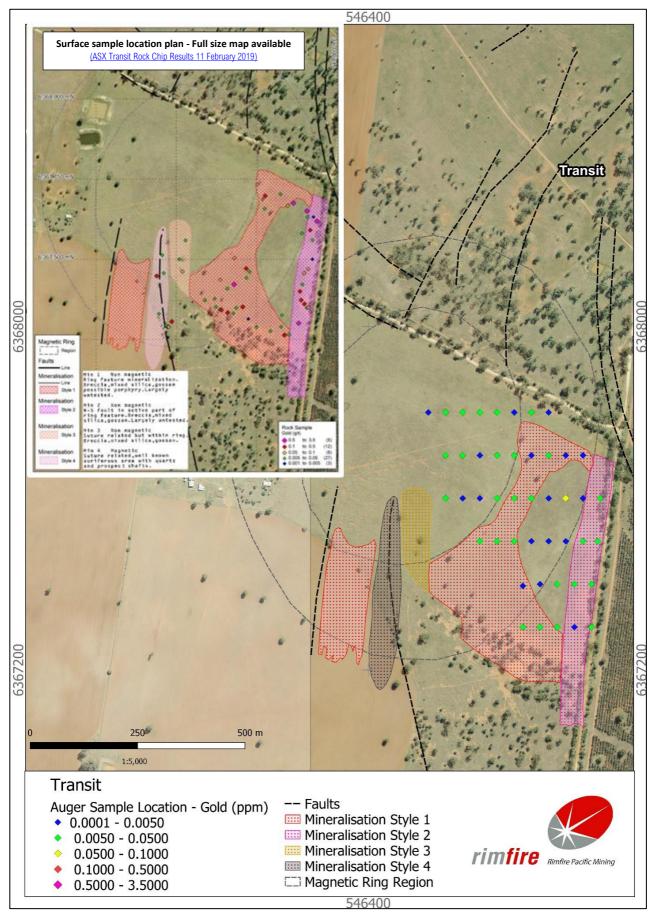
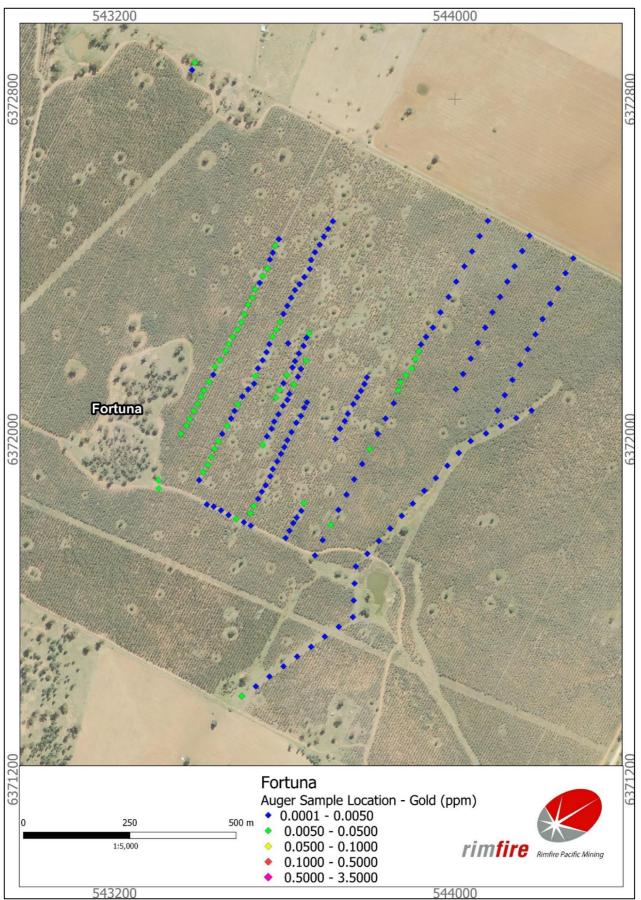
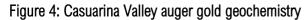


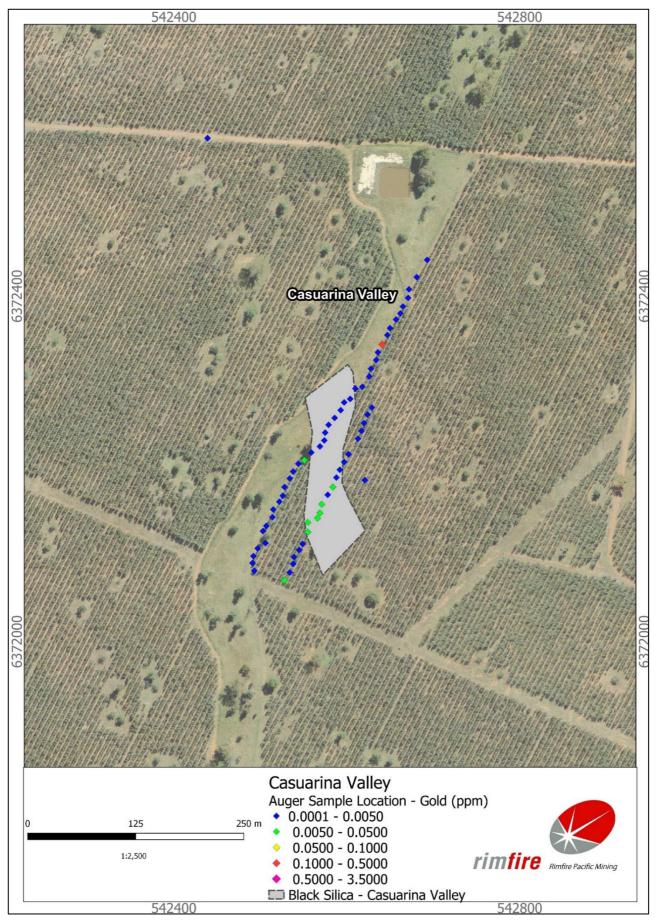


Figure 3: Fortuna auger gold geochemistry



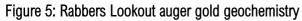


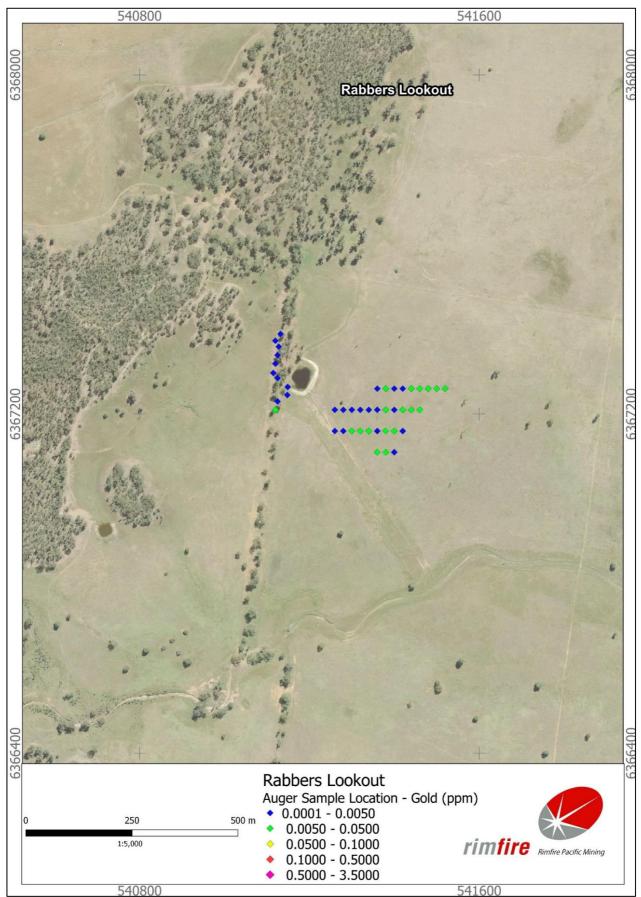






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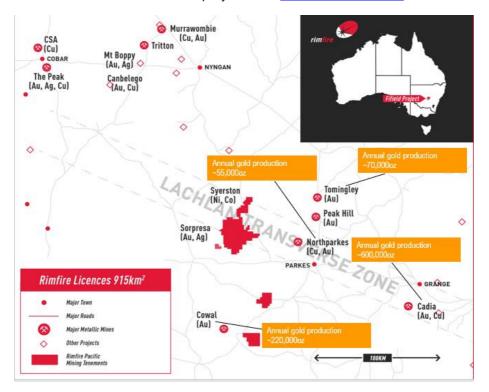






ABOUT RIMFIRE

Rimfire Pacific Mining is an ASX listed (code: RIM) resources exploration company with its major focus at Fifield in central NSW, located within the Lachlan Transverse Zone (LTZ). In 2010~11 the Company made a greenfields gold and silver discovery, named "Sorpresa", announcing a JORC Inferred & Indicated Maiden resource in 2014. The discovery history of Sorpresa is shown in the <u>ASX presentation to the Mineral Council May 2017</u>. The information provided in "About Rimfire Pacific Mining section" is available to view on the company's website: <u>ASX Announcements</u>.



Multiple prospects involving hard rock potential for Gold, Silver, Copper and Platinum have been established within a >6km radius of the Sorpresa discovery at Fifield, which is part of Rimfires 681km² contiguous tenements. The project area is very accessible by bitumen road and only 4.5 hours drive from Sydney.

Rimfire was recently granted two exploration licences covering 234km2; located 40 to 60kms south of the Fifield Project, in a prospective area now locked up by government moratorium on new licences. The moratorium is associated with the MinEx Cooperative Research Centre program (minexcrc.com.au)

Aspiration target scale in the wider Fifield District

The discovery aspiration (<u>established with New Gold Inc., during the 2017 earn-in venture</u>) for the Fifield area is an aggregate discovery outcome in excess of 4 million ounces of gold equivalent metal, being capable of supporting a mine life in excess of 10 years, and within the lower third of industry costs of production.

Competent Persons Declarations

The information in the report to which this statement is attached that relates to Exploration and Resource Results is based on information reviewed and/or compiled by Todd Axford who is deemed to be a Competent Person and is a Member of The Australasian Institute of Mining and Metallurgy.

Mr Axford has over 23 years' experience in the mineral and mining industry. *Mr* Axford is employed by Geko-Co Pty Ltd and is a consulting geologist to the Company. Todd Axford has sufficient experience that is relevant to the style of mineralisation and type of deposits under consideration and to the activity being undertaken 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'. Todd Axford consents to the inclusion of the matters based on the information in the form and context in which it appears.



Forward looking statements Disclaimer:

This document contains "forward looking statements" as defined or implied in common law and within the meaning of the Corporations Law. Such forward looking statements may include, without limitation, (1) estimates of future capital expenditure; (2) estimates of future cash costs; (3) statements regarding future exploration results and goals. Where the Company or any of its officers or Directors or representatives expresses an expectation or belief as to future events or results, such expectation or belief is expressed in good faith and the Company or its officers or Directors or representatives as the case may be, believe to have a reasonable basis for implying such an expectation or belief. However, forward looking statements are subject to risks, uncertainties and other factors, which could cause actual results to differ materially from future results expressed, projected or implied by such forward looking statements. Such risks include, but are not limited to, commodity price fluctuation, currency fluctuation, political and operational risks, governmental regulations and judicial outcomes, financial markets and availability of key personnel. The Company does not undertake any obligation to publicly release revisions to any "forward looking statement", or to reflect the occurrence of unanticipated events, except as may be required under applicable securities laws.



Table 2: JORC Code Reporting Criteria Section 1 Sampling Techniques and Data – Surface Rock Samples, Auger and Aircore Drilling

Criteria	JORC Code explanation	Commentary
Sampling techniques	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.	Auger and aircore sampling Each sample represents a scooped sample of cuttings generated via augering or aircore drilling. Cuttings are visually assessed to determine the change from surface cover (if present) to instu material, at which point the sample is taken. The nature of the sample generation and collection process means the samples should be considered as indicative of grade rather than representative of a precise grade.
	Include reference to measures taken to ensure sample representativity and the appropriate calibration of any measurement tools or systems used.	The nature of auger sampling means samples should be considered as an indictive rather than precise measure, aimed at defining areas of anomalism. A blank sample and a reference standard were inserted into the sample sequence.
	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.g. 'reverse	Industry standard preparation, including full sample pulverising prior to subsampling for assay, was undertaken. The field collected samples were typically in the order of 0.6 to 1.0kg.
	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 (e.g. submarine nodules) may warrant disclosure of detailed information.	25 g of pulverized sample was utilized for gold determination via Aqua Regia, and a smaller sub-sample utilised for multi- element assay.

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).	With the exception of one hole at Northern Gold drilled via Aircore, all samples were generated via augering. All holes were vertical.
Drill sample recovery	Method of recording and assessing core and chip sample recoveries and results assessed.	No method applied due to the early stage of exploration aimed at defining anomalism rather than quantifying grade.
	Measures taken to maximise sample recovery and ensure representative nature of the samples.	No method applied due to the early stage of exploration aimed at defining anomalism rather than quantifying grade.
	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.	Not applicable



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Criteria	JORC Code explanation	Commentary
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.	Duplicate samples were collected for the purpose of geological logging, aimed primarily at assessing the litho type and confirming sample represents insitu material.
	Whether logging is qualitative or quantitative in nature. Core (or costean, channel, etc) photography.	Geological logging of chips/rock samples is qualitative by nature.
	The total length and percentage of the relevant intersections logged.	Not applicable
Sub-sampling techniques and sample preparation	If core, whether cut or sawn and whether quarter, half or all core taken.	Not applicable

Sub-sampling techniques and sample preparation continued.	If non-core, whether riffled, tube sampled, rotary split, etc and whether sampled wet or dry.	Sample was scooped from cuttings.		
	For all sample types, the nature, quality and appropriateness of the sample preparation technique.	Given the indicative nature of the sample medium (refer to sampling techniques section above) this process is considered appropriate.		
	Quality control procedures adopted for all sub- sampling stages to maximise representivity of samples.	All sampling equipment was cleaned between samples.		
	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.	Field duplicates, blanks and standards were inserted in the sample stream submitted to the commercial laboratory. No issues have been identified.		
	Whether sample sizes are appropriate to the grain size of the material being sampled.	Sample sizes are considered suitable for a qualitative assessment for indications of mineralisation.		
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.	Reported Gold was assayed via Aqua Regia Aqua Regia is considered a partial method.		
	For geophysical tools, spectrometers, handheld XRF instruments (fpXRF), etc, the parameters used in determining the analysis including instrument make and model, reading times, calibrations factors applied and their derivation, etc.	Not applicable		
	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.	A blank and a recognized Standard were inserted in the sample stream. The reported results for these samples are as expected.		



Criteria	JORC Code explanation	Commentary		
Verification of sampling and assaying	The verification of significant intersections by either independent or alternative company personnel.	All reported mineralised results have been reviewe by 2 company personnel.		
	The use of twinned holes. Documentation of primary data, data entry procedures, data verification, data storage (physical and electronic) protocols.	Not applicable Data was recorded on field sheets at the sample site. Field data was digitized and loaded via Datashed in to the site database. Assay results were reported in a digital format suitable for direct loading into the database via Datashed.		
	Discuss any adjustment to assay data.	No adjustments have been made.		
Location of data points	Accuracy and quality of surveys used to locate drill holes (collar and down- hole surveys), trenches, mine workings and other locations used in Mineral Resource estimation.	Sample locations are recorded using handheld Garmin GPS expected accuracy +/- 3m.		
	Specification of the grid system used.	GDA94 zone55.		
	Quality and adequacy of topographic control.	Handheld GPS, which is suitable for the early stage and broad spacing of this exploration.		
Data spacing and distribution	Data spacing for reporting of Exploration Results.	Data spacing is controlled by the interpretation of the prospect and potential orientation of mineralisation. For data discussed in this report spacing varies from 10 to 50 metres.		
	• 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.	Sampling is considered appropriate to identify 'broad' anomalous areas of potential mineralisation. Samples are not to be used in resource/reserve estimation.		
	• Whether sample compositing has been applied.	No compositing has occurred		
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.	Given the early stage of exploration it is not yet known if sample spacing and orientation achieves unbiased results.		
	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.	Not applicable		
Sample security	The measures taken to ensure sample security.	Samples double bagged and delivered directly to the laboratory by company personnel.		
Audits or reviews	The results of any audits or reviews of sampling techniques and data.	eviews of sampling No audits or reviews completed.		



Section 2 Reporting of Exploration Results

Criteria	JORC Code explanation	Commentary
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.	Reported results all from 100% Rimfire Pacific Mining NL tenements at Fifield NSW, which may include EL5534, EL6241, EL7058, EL7959, EL5565, EL8401, EL8542, EL8543, MC(L)305, MC(L)306. All samples were taken on Private Freehold and / or Common Land (prescribed for mining). No native title exists. The land is used primarily for grazing and cropping.
	The security of the tenure held at the time of reporting along with any known impediments to obtaining a license to operate in the area.	The tenement is in good standing, and all work is conducted under specific approvals from NSW Department of Planning and Energy, Resources and Geoscience.
Exploration done by other parties	Acknowledgment and appraisal of exploration by other parties.	No results are relied on from other parties in this report.
Geology	Deposit type, geological setting and style of mineralisation.	The prospect areas lack geological exposure, available information indicates the bedrock geology across the project is a package of interbedded volcaniclastic and sedimentary rocks, with local porphyritic intrusives. Remnant surface rock in the sample areas is often resistive, highly silicified and variably gossanous and brecciated. The deposit type/style of mineralisation is not known at this early stage.
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: easting and northing of the drill hole collar elevation or RL (Reduced Level – elevation above	The data for the single Aircore hole is included within the report.
	sea level in metres) of the drill hole collar	
Drill hole Information Continued.	dip and azimuth of the hole down hole length and interception depth	The hole is vertical Individual sample results are included in the cross-section within the report. No intercepts are reported.
	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.	Not applicable



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Criteria	JORC Code explanation	Commentary		
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.	No data aggregation		
	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.	Not applicable		
	The assumptions used for any reporting of metal equivalent values should be clearly stated.	Metal equivalents are not reported		
Relationship between mineralisation widths and	 These relationships are particularly important in the reporting of Exploration Results. 	Not applicable		
	 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'). 	Not applicable		
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.	Included within the report (or as appendices)		
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.	All results are included on the plans and cross- section.		
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.	There is currently no other substantive exploration data that is meaningful and material to report.		
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).	Further work is discussed in the document in relation to the exploration results.		
	Diagrams clearly highlighting the areas of possible extensions, including the main geological interpretations and future drilling areas, provided this information is not commercially sensitive.	Not applicable at this stage		