

7 July 2021

HIGH-GRADE TANTALUM RESULTS FROM PEGGY SUE – ILLAARA PROJECT

HIGHLIGHTS

- Encouraging high-grade rock chips in first pass sampling at the Peggy Sue critical minerals prospect ("Peggy Sue") with significant results including:
- LRK046: 529ppm Ta₂O₅
 LRK067: 391ppm Ta₂O₅
 LRK066: 295ppm Ta₂O₅
- LRK100: 357ppm Ta₂O₅ LRK069: 310ppm Ta₂O₅ LRK068: 283ppm Ta₂O₅
- Multiple clusters of high-grade mineralisation indicate a potentially large and fertile system.
- Furthering mapping and sampling will focus on identifying mineral source and zonation to define drill targets for testing in late 2021/early 2022.

Dreadnought Resources Limited ("Dreadnought") is pleased to announce the results from rock chip sampling of pegmatites at Peggy Sue, part of the Illaara Project ("Illaara").

Results from Peggy Sue have identified multiple, high-grade tantalum clusters and anomalous lithium. Typically, these deposits are formed by a host granite source with mineralisation (including beryllium, niobium, caesium, tantalum and lithium) distributed in distinct zones beyond the source. These rock chip results indicate a potentially large and fertile system. Future work will look to further map and sample the pegmatites to determine the mineral zonation patterns and define drill targets. This work is planned to commence in the December 2021 quarter.

Dreadnought Managing Director, Dean Tuck, commented: "Identifying these high-grade tantalum clusters from first pass sampling is highly encouraging. Tantalum is a critical metal where security of supply matters and Peggy Sue is ideally situated in a Tier 1 jurisdiction. Going forward, we will be looking to extend the mineralisation and define any zonation within these pegmatite swarms with an eye to vector in towards additional tantalum and potential lithium and caesium zones."

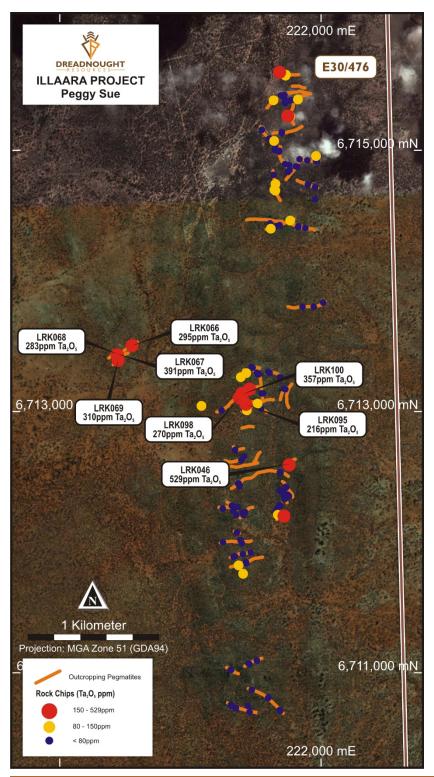


Figure 1: Dreadnought's Nick Chapman and Luke Blais sampling a large pegmatite at Peggy Sue.



Peggy Sue (E30/476: 100%, E30/485: Option to acquire 100%)

Peggy Sue was highlighted by a strong and coherent 5,000m x 1,000m soil anomaly (Li-Cs-Ta-Nb-Rb-Be-Sn) in the southern area of Illaara associated with fertile late-stage felsic intrusions. Reconnaissance mapping of the area confirmed the presence of a large pegmatite dyke swarm, with some outcropping pegmatites >10m thick and several hundred metres in length, associated with the anomalism.



The results the of reconnaissance chip rock sampling have confirmed several clusters of high-grade tantalum mineralisation, of indicative а highly fertile fractionated and pegmatite system (Figure 2). Lithium values were subdued in the rock chips with a maximum of 0.37% L₂O, which could be due to the pegmatites being strongly zoned, near surface or leaching lithium of the minerals.

Follow up sampling and more detailed mapping will be undertaken to define mineralisation extents and mineral zonation. This work will be undertaken in the December 2021 quarter with results by the end of 2021.

Figure 2: Plan view image showing the location of mapped pegmatites and rock chip sample locations highlighting high grade Ta₂O₅ results.

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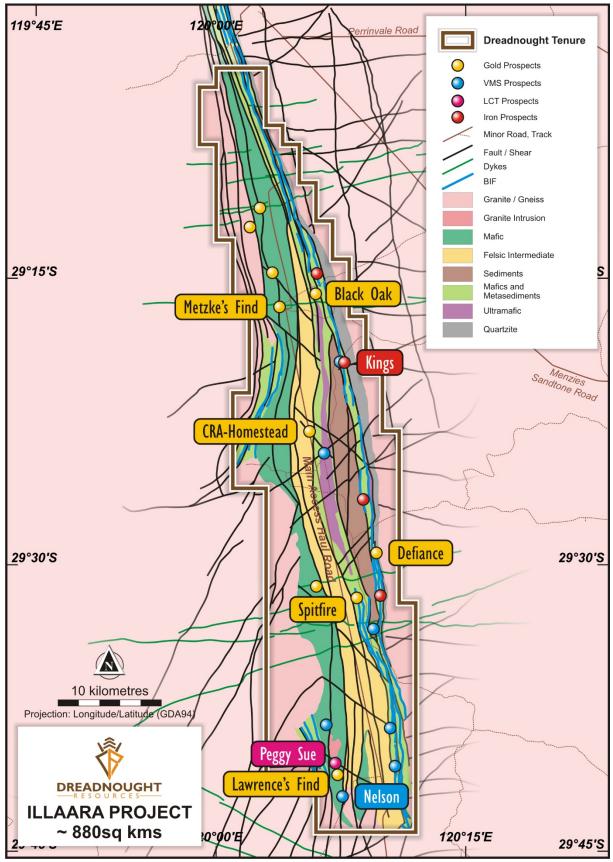


Figure 3: Plan view of Illaara showing the location of targets over solid geology.



About Tantalum

Tantalum is a critical material with limited threat from substitution and reliable high-performance consumers in sectors such as aerospace, medical and military. The largest application for tantalum is in high performance capacitors which is experiencing growth due to the roll out of 5G infrastructure and electrification of homes, cars and workspaces. Other major markets include anti-corrosive materials for the chemical processing industry, mill products, cemented carbides and specialist tantalum alloys for aerospace.

World niobium and tantalum Resources are poorly reported. Central Africa is known to host major Resources, but dependable estimates are unavailable.

Global production comes mainly from: the Democratic Republic of Congo (39%); Rwanda (28%); Nigeria (8%); China (7%); Brazil (6%) and Australia (3%).

The majority of Australia's tantalum Resources and probably all of Australia's tantalum production, are from lithium-tantalum, hard-rock pegmatite deposits where tantalum is produced as a by-product from lithium mining. In the past, however, a number of these deposits were primarily focussed on tantalum mining, sometimes with lithium and/or tin as by-products (eg Wodgina, Greenbushes and Bald Hill).

Australian sourced tantalum potentially offers a more sustainable and traceable product compared to African-sourced tantalum. The European Union's new Conflict Minerals Regulation came into force on 1 January 2021. The Regulation aims to stem the trade in tin, tantalum, tungsten and gold which sometimes finance armed conflict or are mined using forced labour. Along with the Dodd Frank provisions of the US, the Regulation will put more responsibility on consumers to ensure sustainability.

Background on Illaara

Illaara is located 190 kms from Kalgoorlie and comprises seven tenements (~900 sq kms) covering 75km of strike along the entire Illaara Greenstone Belt. The Illaara Greenstone Belt has now been consolidated through an acquisition from Newmont and subsequently the purchase of Metzke's Find and an option to acquire 100% of E30/485 and E29/965.

Recent gold exploration within the Illaara Greenstone Belt was spurred on by a ~55km long Au-As-Sb anomaly generated from regional regolith sampling by the Geological Survey of Western Australia.

Prior to Newmont, the Illaara Greenstone Belt was held by Portman Iron and Cleveland Cliffs who were looking to extend their mining operations north as part of their Koolyanobbing Iron Ore Operation. Given the long history of iron ore mining in the region, Illaara is well situated in relation to existing road and rail infrastructure connecting it to a number of export ports.

Historically gold was discovered and worked at Metzke's Find and Lawrence's Find in the early 1900s. In addition to gold, outcropping VMS base metals mineralisation was identified and briefly tested in the 1980s with no subsequent exploration utilising modern techniques.



For further information please refer to previous ASX announcements:

- 24 June 2019 75 km Long Illaara Greenstone Belt Acquired from Newmont
- 6 December 2019 Consolidation of 75km Long Illaara Greenstone Belt
- 16 February 2021 Significant Soil Anomalies Along Lawrence's Corridor
- 27 April 2021 Illaara Update and Regional Target Generation

UPCOMING NEWSFLOW

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July: Results from target definition and generation work at Mangaroon

July: Results from target definition and generation work at Tarraji-Yampi

July: Diamond drilling at Texas Ni-Cu-PGE and RC drilling at Fuso and Paul's Find Cu-Au, Orion Ni-Cu-PGE and Chianti-Rufina VMS targets

July: Commencement of additional FLEM surveys on the northern portion of Orion Ni-Cu-PGE

July: Commencement of detailed airborne magnetic survey over Yampi and Wombarella

July: Additional rock chip results from REE targets at Mangaroon

July: Quarterly Activities and Cash Flow Report

July/August: Results of drilling at Tarraji-Yampi (Texas and Fuso and Paul's Find Cu-Au, Orion Ni-Cu-PGE and Chianti-Rufina VMS targets).

2-4 August: Attending Diggers and Dealers in Kalgoorlie

~Ends~

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This announcement is authorised for release to the ASX by the Board of Dreadnought.

Competent Person's Statement

The information in this announcement that relates to geology and exploration results and planning was compiled by Mr. Dean Tuck, who is a Member of the AIG, Managing Director, and shareholder of the Company. Mr. Tuck has sufficient experience which is relevant to the style of mineralisation and type of deposit 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'. Mr. Tuck consents to the inclusion in the report of the matters based on the information in the form and context in which it appears. The Company confirms that it is not aware of any new information or data that materially affects the information in the original reports, and that the forma and context in which the Competent Person's findings are presented have not been materially modified from the original reports.



INVESTMENT HIGHLIGHTS

Kimberley Ni-Cu-Au Projects

Dreadnought controls the second largest land holding in the highly prospective West Kimberley region of WA. The main project area, Tarraji-Yampi, is located only 85kms from Derby and has been locked up as a Defence reserve since 1978.

Tarraji-Yampi presents a rare first mover opportunity with known outcropping mineralisation and historic workings from the early 1900s which have seen no modern exploration.

Three styles of mineralisation occur at Tarraji-Yampi including: volcanogenic massive sulphide ("VMS"); Proterozoic Cu-Au ("IOCG"); and magmatic sulphide Ni-Cu-PGE. Numerous high priority nickel, copper and gold drill targets have been identified from recent VTEM surveys, historical drilling and surface sampling of outcropping mineralisation.

Illaara Gold, VMS & Iron Ore Project



Illaara is located 190km northwest of Kalgoorlie in the Yilgarn Craton and covers 75kms of strike along the Illaara Greenstone Belt. Illaara is prospective for typical Archean mesothermal lode gold deposits and base metals VMS mineralisation.

Dreadnought has consolidated the Illaara Greenstone Belt mainly through an acquisition from Newmont. Newmont defined several camp-scale targets which were undrilled due to a change in corporate focus. Prior to Newmont, the Illaara Greenstone Belt was predominantly held by iron ore explorers and has seen minimal gold and base metal exploration since the 1990s.

Mangaroon Ni-Cu-PGE, REE & Au Project

Mangaroon is a first mover opportunity covering ~4,500sq kms of tenure located 250kms south-east of Exmouth in the Gascoyne Region of Western Australia. During most of the regions early history, it did not receive government support for prospecting and or exploration resulting in a vastly underexplored region in Western Australia.

Since acquiring the project in late 2020, Dreadnought has located outcropping high-grade gold bearing quartz veins along the Edmund and Minga Bar Faults, outcropping high tenor Ni-Cu-PGE blebby sulphides in the recently defined Money Intrusion and outcropping high-grade REE ironstones, similar to those under development at the Yangibana REE Project. Mangaroon is still in the early stages with limited modern exploration.



Table 1: Significant Results (>0.1 % Li₂O or >80ppm Ta₂O₅)

Sample ID Easting Northing Ta2Os (ppm) Li2O (ppm) Nb2Os (ppm) Cs Rb Prospect LRK010 221595 6710810 8 947 44 10.3 2180 LRK023 221718 6712209 159 22 72 6.2 967 LRK024 221670 6712215 93 22 86 23.7 617 LRK046 221757 6712600 529 22 227 11.2 2650 LRK054 221370 6711828 97 22 92 8.4 1995 LRK066 220556 6713515 296 22 127 9.9 366 LRK067 220443 6713443 283 bdl 124 5.7 144 LRK068 220447 6713401 310 22 163 8.4 217 LRK071 221328 6712634 13 1356 73 11.2 1570 LRK092 </th
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LRK121 221086 6713048 116 990 97 18.2 1770
LRK122 221684 6715606 190 43 90 2.4 138
LRK123 221732 6715584 136 22 87 3.5 657
LRK124 221729 6715577 134 bdl 87 10.2 1040
LRK126 221824 6715395 81 65 93 3.2 482
LRK135 221638 6715387 136 22 96 2.1 287
LRK136 221746 6715271 159 22 323 2.7 535
LRK137 221766 6715264 102 43 110 1.6 211
LRK142 221642 6715077 138 22 127 2.2 522
LRK150 221652 6714697 89 22 94 2.7 715
LRK151 221644 6714704 99 43 139 0.9 167.5
LRK152 221652 6714749 105 65 160 3 513
LRK162 221963 6714962 89 43 94 3.3 609
LRK170 221617 6714405 115 43 203 2.5 288
LRK173 221765 6714467 92 43 117 1.1 150.5

*bdl = below detection limit, location in GDA94 MGAz51



JORC Code, 2012 Edition – Table 1 report template Section 1 Sampling Techniques and Data

JORC TABLE 1

Section 1 Sampling Techniques and Data (Criteria in this section apply to all succeeding sections.)

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. 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.g. '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. 	 Rock Chips Rock Chips were collected by Dreadnought staff and submitted for analysis. Rock chips are random, subject to bias and often unrepresentative for the typical widths required for economic consideration. They are by nature difficult to duplicate with any acceptable form of precision or accuracy. Rock chips have been collected by Dreadnought to assist in characterising different lithologies, alterations and expressions of mineralisation. In many instances, several rock chips were collected from a single location to assist with characterising and understanding the different lithologies, alterations of mineralisation present at the locality. Rock chips were submitted to ALS Laboratories in Perth for determination of LCT Pegmatite related elements by Sodium Peroxide Fusion with a ICP-AES and ICP-MS analysis (ALS Method MS91-PKG).
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.).	No drilling undertaken
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. 	No drilling undertaken
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	No drilling undertaken



Criteria	RESOURCE JORC Code explanation	Commentary
	 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. 	
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 whether 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. 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. Whether sample sizes are appropriate to the grain size of the material being sampled. 	Rock Chips Entire rock chips were submitted to the lab for sample prep and analysis.
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. 	 Rock Chips All samples were submitted to ALS Laboratories in Perth where 1-3kg rock chips samples were crushed so that >70% of material passes through -6mm, the sample is then pulverised to >85% passing 75 micron. A 20-gram aliquot of pulverised sample is digested by Sodium Peroxide Fusion with a ICP-AES and ICP-MS analysis (ALS Method MS91-PKG). Sodium peroxide fusion is considered a total digest and Method MS91-PKG is appropriate for LCT determination. No standards, duplicates or blanks submitted with rock chips.
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. 	 Rock Chips Rock chip and geological information is written in field books and coordinates and track data saved from hand held GPSs used in the field. Dreadnought geologists have inspected and logged all rock chips. Field data is entered into excel spreadsheets to be loaded into a database.
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. Specification of the grid system used. Quality and adequacy of topographic control. 	 All sample locations were recorded with a Garmin handheld GPS which has an accuracy of +/- 5m. GDA94 MGAz51.
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 	Sample spacing and distribution is not sufficient to establish the degree of geological and grade continuity appropriate for a Mineral Resource.



Criteria	JORC Code explanation	Commentary
	 for the Mineral Resource and Ore Reserve estimation procedure(s) and classifications applied. Whether sample compositing has been applied. 	
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. 	At this early stage of exploration, mineralisation thickness's, orientation and dips are not known.
Sample security	The measures taken to ensure sample security.	 All geochemical samples were collected, bagged, and sealed by Dreadnought staff and delivered to ALS Laboratories in Kalgoorlie. Samples were delivered directly to ALS Laboratories Perth by ALS.
Audits or reviews	The results of any audits or reviews of sampling techniques and data.	The program is continuously reviewed by senior company personnel.

Section 2 Reporting of Exploration Results

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

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. 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 Illaara Project consists of 7 granted Exploration Licenses (E30/471, E30/476, E29/957, E29/959, E29/1050, E29/965 and E30/485) Tenements E30/471, E30/476, E29/957 and E29/959 are 100% owned by Dreadnought Resources. These 4 tenements are subject to a 1% NSR retained by Newmont E29/1050 is 100% owned by Dreadnought Resources with a 1% NSR retained by Gianni, Peter Romeo. E29/965 and E30/485 are currently held by Dalla-Costa, Melville Raymond, is in good standing and is subject to an option to acquire 100% by Dreadnought Resources. There are currently no clear Native Title Claims over the Illaara Project Part of the Illaara Project is located on Walling Rock Station.
Exploration done by other parties	 Acknowledgment and appraisal of exploration by other parties. 	 Newmont Exploration has undertaken exploration activities since 2016 which are mentioned in previous reports. Historical exploration of a sufficiently high standard was carried out by numerous parties which have been outlined and detailed in previous ASX announcements:



Criteria	——R E S O U R C E JORC Code explanation	Commentary
		Eastern Group 1988: WAMEX Report A22743
		Anglo Australian 1995: WAMEX Report A45251
		Polaris 2006-2007: WAMEX Report A75477
Geology	- Dependent type geological acting and at the	
Geology	 Deposit type, geological setting and style of mineralisation. 	 The Illaara Project is located within the Illaara Greenstone Belt within the Southern Cross Domain of the Youanmi Terrane approximately 60kms west of the Ida Fault. The Illaara Project is prospective for orogenic gold, VMS, LCT pegmatites and potentially komatiite hosted nickel mineralisation.
Drill hole information	• A summary of all information material to	No drilling undertaken
	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 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	
Data aggregation	 clearly explain why this is the case. In reporting Exploration Results, 	All results have been reported above 0.1%
methods	weighting averaging techniques,	Li₂O and >80ppm Ta₂O₅ Au.
	maximum and/or minimum grade truncations (e.g. cutting of high grades) and cut-off grades are usually Material and should be stated.	 No top cutting has been applied. All reported results have been length weighted (arithmetic length weighting).
	 Where aggregate intercepts incorporate short lengths of high-grade results and longer lengths of low-grade results, the 	 No metal equivalent values are reported.
	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	These relationships are particularly important in the repeting of Evaluation	No drilling undertaken
between mineralisation widths and intercept lengths	 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 	
Diagrams	 hole length, true width not known'). Appropriate maps and sections (with 	Refer to figures within this report.
	 Appropriate maps and sections (with scales) and tabulations of intercepts should be included for any significant 	



Criteria	JORC Code explanation	Commentary
	discovery being reported These should include, but not be limited to a plan view of drill hole collar locations and appropriate sectional views.	
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.	 The accompanying document is a balanced report with a suitable cautionary note.
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.	 Suitable commentary of the geology encountered is given within the text of this document.
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. 	Further mapping and rock chip sampling will be undertaken at Peggy Sue