

ASX Announcement

15 May 2024



UPDATED MAKUUTU MRE CONTAINS OVER 126,000 TONNES OF MAGNET RARE EARTH OXIDES, 99,000 TONNES OF HEAVY RARE EARTH OXIDES

- Significant increase in Makuutu Mineral Resource Estimate (MRE) with Indicated Resource tonnage growing 28%, and total MRE tonnage increasing by 16%;
- Updated Makuutu MRE contains approximately 126,000 tonnes of magnet Rare Earth Oxides¹ (REOs), including approximately;
 - 86,000 tonnes of NdPr oxide;
 - 7,400 tonnes of DyTb oxide;
- Updated Makuutu MRE contains approximately 99,000 tonnes of heavy REOs²;
- Updated MRE delivers 3-fold increase in resource tonnage over Retention Licence (RL) 00007, with majority now at Indicated classification to support next Mining Licence Application; and
- Makuutu is the most advanced Ionic Adsorption Clay (IAC) project in development today, with product available for alternative supply chains looking to decouple from existing sources.

Ionic Rare Earths Limited ("IonicRE" or "the Company") (ASX: IXR) is pleased to advise an updated Mineral Resource Estimate (MRE) at its 60 per cent owned Makuutu Heavy Rare Earths Project ("Makuutu" or "the Project") in Uganda.

The Company is progressing the development at the Makuutu Project through local Ugandan operating entity Rwenzori Rare Metals Limited ("RRM"). IonicRE has signed a conditional share purchase agreement to acquire an additional 34% interest in RRM and the strategic Makuutu Rare Earths Project, taking its ownership to 94% on completion. During the March quarter, IonicRE shareholders approved the transaction terms and pending completion of conditions precedent, the transaction is expected to be completed in H2 2024.

The MRE has been updated with results from the 2023 Phase 5 infill and extension drilling results which targeted MRE areas A and B. The previous Makuutu Project MRE³ reported in May 2022 contained Inferred Resources only for Areas A and B, with the Phase 5 drilling program increasing resource confidence and extending the defined mineralisation in these areas by approximately 85 million tonnes.

The updated Makuutu MRE summarised in Table 1 is estimated at **617 million tonnes at 630ppm Total Rare Earth Oxide (TREO)**, above a cut-off grade of 200 parts per million (ppm) TREO minus CeO₂ (TREO-CeO₂). This represents an increase in 85 million tonnes (16%) in the total resource with a 2% reduction in overall TREO grade from the previous resource estimate.

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¹ Magnet REOs = $Nd_2O_3 + Pr_6O_{11} + Tb_4O_7 + Dy_2O_3 + Sm_2O_3 + Gd_2O_3 + Ho_2O_3$

 $^{^2 \}text{ Heavy REOs} = \text{Sm}_2\text{O}_3 + \text{Eu}_2\text{O}_3 + \text{Gd}_2\text{O}_3 + \text{Tb}_4\text{O}_7 + \text{Dy}_2\text{O}_3 + \text{Ho}_2\text{O}_3 + \text{Er}_2\text{O}_3 + \text{Tm}_2\text{O}_3 + \text{Yb}_2\text{O}_3, + \text{Lu}_2\text{O}_3 + \text{Yb}_2\text{O}_3 + \text{Ho}_2\text{O}_3 + \text{Ho}_2$

³ ASX announcement 03/05/2022 "SUBSTANTIAL INCREASE TO MAKUUTU RESOURCE TO OVER 500 MILLION TONNES"

Importantly, the updated Makuutu MRE has a contained resource of approximately 126,000 tonnes of magnet REOs and 99,000 tonnes of heavy REOs critical to efforts to establish new sources of strategic raw materials for the energy transition, advanced manufacturing, communications and defence.

The Indicated component of the MRE has been increased by 113 million tonnes to 517 million tonnes at 650 ppm TREO, representing a 28% increase in indicated tonnes with a reduction of 3% in TREO grade from the previous Indicated Resource estimate. The Inferred resource has reduced by 28 million tonnes with the majority of this reduction reflecting the conversion of Inferred to Indicated confidence status in Areas A and B, located on Retention Licence (RL) 00007.

The Makuutu MRE has been updated based on the following key inputs:

- Phase 5 drill program of 128 HQ core drill holes for 2,501 metres, drilled between July and October 2023. A total of 2,595 samples from the drilling were analysed for a multi-element suite by ALS Perth laboratory;
- 2. The Phase 5 drilling was completed to provide a 200-metre grid of infill holes over previously Inferred resources of Areas A and B and was also planned to extended the resource outside the previous boundaries:
- 3. Area A was extended approximately 1.5 kilometres west into Exploration target A1. Area B was extended approximately 500 metres to the southwest of the previous resource boundary;
- 4. 603 insitu dry bulk density measurements from Phase 5 drill core samples were included; and
- 5. Accurate surface digital terrain model (DTM) derived from high resolution satellite imagery acquired in 2021 covering all resource areas.

Table 1: Makuutu Resource above 200ppm TREO-CeO₂ Cut-off Grade.

Resource Classification	Tonnes (millions)	TREO (ppm)	TREO- CeO ₂ (ppm)	LREO (ppm)	HREO (ppm)	CREO (ppm)	Sc ₂ O ₃ (ppm)
Indicated	517	650	440	470	170	220	30
Inferred	99	560	380	420	140	190	30
Total	617	630	430	460	160	210	30

Rounding has been applied to 1Mt and 10ppm which may influence averaging calculation.

All REO are tabulated in Appendix 1 with formulas defining composition of (Light Rare Earth Oxides ("LREO"), HREO and Critical Rare Earth Oxides ("CREO").

Sc₂O₃ formula provided in Appendix 1.

Commenting on this significant MRE update, IonicRE's Managing Director, Mr Tim Harrison said:

"The updated Mineral Resource Estimate at Makuutu is in line with expectation, confirming significant additional tonnage to the west of the existing stage 1 mining licence area LML00334. With this information we can progress with planning on the next mining licence application and can also provide context on the growth opportunity of the Project to the west.

"The increase in the overall magnet and heavy REOs contained within the total resource reaffirms the positioning of Makuutu as a development ready, long-life alternative supply source for countries looking to diversify their primary rare earth sourcing strategies, and positions lonicRE with a unique offering to groups the Company is presently in discussion with regarding immediate term supply from both recycling REOs (secondary sourcing) and near-term mined and processed MREC (primary sourcing)."

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MAKUUTU MINERAL RESOURCE ESTIMATE UPGRADE

Resource Areas A and B Updates

Based on the Phase 5 drilling assays, the mineral resource estimates have been updated in Areas A and B only.

Drilling infilled the previous Inferred resource areas on a 200-metre spaced pattern and extended the drilling coverage of both areas beyond previous limits. Figure 1 shows the infill drilling locations on Areas A and B, and the updated Indicated and Inferred resource areas compared to the previous 2022 resource boundaries.

The extension drilling was particularly significant on Area A, defining mineralisation up to 1.5 kilometres west of the previous drilling limit. This extension to Area A has increased the total resources for that area from an Inferred only status of 13 million tonnes at 580ppm TREO in May 2022, to a revised resource of 85 million tonnes at 530ppm TREO including 79 million tonnes at 540ppm of Indicated resource.

Area B was extended to the southeast with the infill drilling also providing higher TREO grade than the 2022 Inferred resource. Consequently, the Area B resource has grown from 26 million tonnes at 410ppm TREO Inferred resource to a total resource of 39 million tonnes at 530ppm TREO including 38 million tonnes at Indicated status.

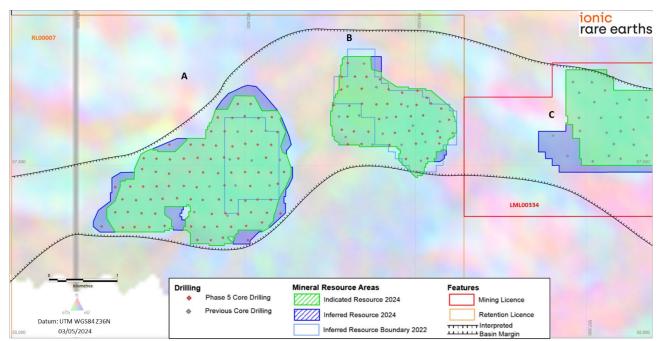


Figure 1: Resource areas A, B and C showing location of Phase 5 core drilling program (red points), previous drilling (grey points) with 2024 MRE Indicated Resource (green shade) and Inferred Resource (blue shade) and 2022 MRE inferred outline (pale blue).

Makuutu Resource Limits

The Makuutu MRE is reported over eleven (11) low plateaus defined by radiometric eU/eTh anomalism on granted Large Scale Mining Licence LML00334 plus RL00007, and RL00234. Figure 2 shows the 11 areas, denoted from A to I, along with the Makuutu Central Zone ("MCZ") and Makuutu Central Zone East ("MCZE").

The MRE only includes clay and saprolite regolith types, with surface hardcap material excluded while processing alternatives are tested for this material. This is consistent with the Company's knowledge of other IAC deposits, especially those in southern China.

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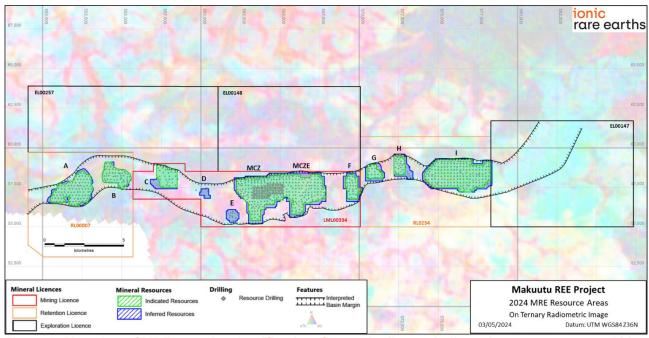


Figure 2: Plan view of MRE areas by classification. Green shading on Indicated resource areas and blue on Inferred resource areas with drill hole locations and mineral licences on ternary radiometric image.

Resource Areas

The MRE has determined classified resources in all of the eleven (11) drilled areas.

Indicated Resources have been determined in all areas where the drill spacing is 200-metre x 200-metre or closer and has provided adequate data and displayed geological continuity to support this level of confidence.

The Inferred Resource areas are located in areas where the drilling is at a 400-metre x 400-metre spacing and on the margins of the Indicated Resource areas. To increase confidence on the Inferred Resources requires further drilling to reduce the drill spacing.

The reported resources designated by each of the areas is detailed within Table 2, along with the resource areas shown by resource classification.

Grade Tonnage Relationship

Grade tonnage curve analysis of the resource shows the robustness of grade continuity in the Indicated resources with a gradual reduction in tonnes and grade with increasing cut-off.

The Inferred resource displays a steeper relationship indicating the lower grade and marginal location of these resource areas.

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Table 2: Mineral Resources by Area

Classification	Indica	ted Resou	ırce	Inferr	ed Resou	rce	Tota	l Resourc	e
Area	Tonnes (millions)	TREO (ppm)	TREO- CeO ₂ (ppm)	Tonnes (millions)	TREO (ppm)	TREO- CeO ₂ (ppm)	Tonnes (millions)	TREO (ppm)	TREO – CeO ₂ (ppm)
Α	76	540	370	9	470	320	85	530	360
В	38	530	480	1	480	320	39	530	480
С	31	580	400	3	490	350	35	570	400
D				6	560	400	6	560	400
E				18	430	280	18	430	280
Central Zone	151	780	540	12	670	460	163	770	530
Central Zone	59	750	490	12	650	430	72	730	480
East									
F	18	630	420	7	590	400	25	620	410
G	9	750	500	5	710	450	14	730	480
Н	6	800	550	7	680	480	13	740	510
I	129	540	350	19	530	350	148	540	350
Total Resource	517	650	440	99	560	380	617	630	430

Rounding has been applied to 1Mt and 10ppm which may influence averaging calculations.

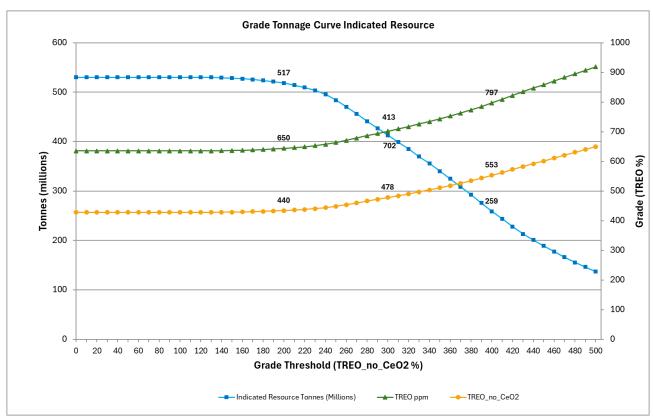


Figure 3: Grade Tonnage Curve – Indicated Resource.

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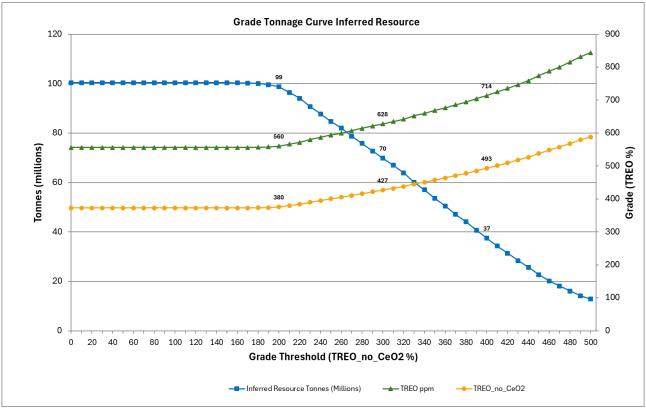


Figure 4: Grade Tonnage Curve - Inferred Resource.

Summary of Material Information Used to Estimate the Mineral Resource

The following is a summary of material information used to update the estimate of the Mineral Resource, as required by Listing Rule 5.8.1 and JORC 2012 Reporting Guidelines. The MRE update was prepared by independent specialist resource and mining consulting group, Cube Consulting Pty Ltd ("Cube"). The update was undertaken on data provided by drilling undertaken in 2023 with resources areas A and B the only changed areas from the previous MRE completed in May 2022.

Mineral Tenement and Land Tenure Status

The Makuutu Rare Earths Project is in the Republic of Uganda. The Project includes six (6) mineral tenements covering approximately 298 km², comprising one (1) granted Large Scale Mining Licence (LML00334), two (2) granted Retention Licences (RL00007 and RL00234) and three (3) Exploration Licences (EL00147, EL00148 and EL00257). All licences are in good standing with no known impediments. Figure 2 shows the licence areas and Table 3 lists the details of each licence.

The Makuutu Rare Earths Project is 100% owned by Rwenzori Rare Metals Limited (RRM), a Ugandan registered company. IonicRE currently has earned a 60% shareholding in RRM. IonicRE has agreed terms with partners in RRM on moving to 94% ownership which is expected to occur in H2 2024.

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Table 3: Makutu Rare Earths Project Tenement Details.

Licence ID	Licence Type	Application Date	Granted Date	Expiry / Renewal Date	Area (km²)
RL00007	Retention	12/12/2022	20/12/2022	26/11/2024	43.38
LML00334	Mining	01/09/2022	28/12/2023	27/12/2044	43.78
RL00234	Retention	26/06/2021	06/07/2021	05/07/2024	47.03
EL00257	Exploration	15/07/2021	21/10/2021	20/10/2024	55.51
EL00147	Exploration	01/09/2023	Approved -Pending	Pending	60.30
EL00148	Exploration	01/09/2023	Approved - Pending	Pending	48.15

^{*} Renewal approved

Geology

The Makuutu deposit is confirmed to be an ionic adsorption clay (IAC) rare earth element (REE) deposit like those in south China, Myanmar, Madagascar, Chile and Brazil.

The mineralisation is contained within the tropical lateritic weathering profile of a basin filled with sedimentary rocks including shales, mudstones and sandstones potentially derived from the surrounding granitic and mafic rocks. These sediments then form the protolith that was subjected to prolonged tropical weathering.

The weathering developed a lateritic regolith with a surface indurated hardcap, followed downward by clay rich zones that grade down through saprolite and saprock to unweathered sediments (Figure 5). The thickness of the regolith is between 5 and 30 metres from surface.

The REE mineralisation is concentrated in the weathered profile where it has dissolved from its primary mineral form, such as monazite and xenotime, then ionically bonded (adsorbed) or colloidally bonded on to fine particles of aluminosilicate clays (e.g. kaolinite, illite, smectite). The adsorbed and colloidal REE is the target for extraction and production of REO at Makuutu.

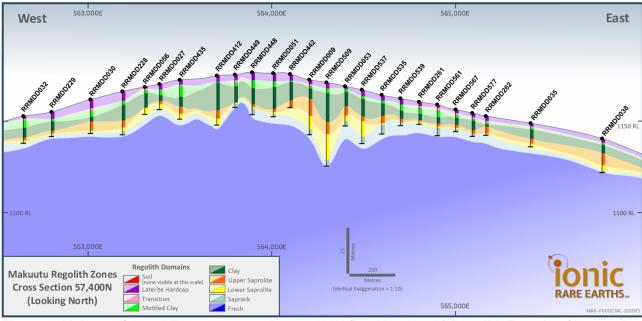


Figure 5: Makuutu Central Zone cross section 57,400N (Looking North) Regolith Zonation (10x vertica exaggeration).

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Drilling Techniques and Hole Spacing

Drilling completed at Makuutu and used to support the MRE includes 839 diamond core (DDH) holes for a total of 15,456 metres (average depth is 18.4 metres). The updated MRE for Areas A and B used 128 HQ core drill holes for 2,501 metres with an average depth of 19.5 metres.

All diamond holes are drilled from surface and oriented vertically. Drilling used a HQ triple tube size (~61.1 mm diameter) with the triple tube techniques used to maximise core recovery. Drill core was collected from a core barrel and placed in appropriately marked core trays. Down hole core run depths were measured and marked with core blocks. Core was measured for core loss and core photography and geological logging completed.

Sampling

Sample lengths were determined by geological boundaries with a maximum sample length of 1 metre applied in clay zones and up to 2 metres in laterite zones where core recovery was occasionally low. Where the core contained continuous lengths of soft clay a carving knife was used to cut the core. When the core was too hard to knife cut it was cut using an electric core saw. Using either method, core was initial cut in half then one half was further cut in half to give quarter core. Quarter core was submitted to ALS Perth laboratory for chemical analysis using industry standard sample preparation and analytical techniques. Half core was collected for metallurgical test work.

Certified reference materials ("CRM"), analytical blanks, and field duplicates were used as part of the QAQC procedures and were each inserted at a rate of 1:25 samples. Alternate method analysis has been conducted on a selection of sample pulps using Laser Ablation MS technique at Bureau Veritas Minerals laboratory in Perth WA.

Sample Analysis

All DDH samples were dispatched by air freight direct to ALS Perth laboratory, Australia. Sample preparation included whole sample crushing to 70% less than 2mm, Boyd rotary slitting to generate a 750g sub-sample, and pulverising to achieve better than 85% passing 75 microns. Analysis for REE suite was via Lithium Borate Fusion ICP-MS (ALS code ME-MS81), with elements analysed at ppm levels. This method is considered a total analysis.

Estimation Methodology

The geological interpretation utilised lithological logging data, and assay data to guide and control the Mineral Resource estimation. In the May 2022 MRE Leapfrog™ implicit modelling software was utilised to generate three-dimensional wireframes of the applicable regolith units. For this updated MRE focusing only on Areas A and B, digitised regolith units based on lithological logging and assay data were created due to the relatively small size of the areas. All other areas remained unchanged from May 2022.

Estimation domains were based on grouping of the regolith domains into six zones as defined by regolith rheology, and by comparison of regolith statistics:

- Domain 1,2,3 Cover zone (Soil, Hardcap and Transition regolith zones)
- Domain 4 Mottled zone (Mottled regolith zone)
- Domain 5 Clay zone (Clay regolith zone)
- Domain 6 Upper Saprolite zone
- Domain 7 Lower Saprolite zone
- Domain 8,9 Basement zone (Saprock and Fresh Rock regolith zones)

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Drill hole sample data was flagged using domain codes generated from three-dimensional mineralisation domains. Sample data was composited to one-metre downhole lengths using a best fit-method. No residuals were generated. Statistical analysis was carried out on data from all estimated domains, with hard boundary techniques employed within each estimation domain.

Analysis of the composite data indicated the presence of outlier values indicating grade capping was required for Ce, Dy, Er, Eu, Gd, Ho, La, Lu, Nd, Pr, Sc, Sm, Tb, Th, Tm, U, Y and Yb. Capped values were generally selected above the 99th percentile.

A total of 15 REE grade attributes (Y, La, Ce, Pr, Nd, Sm, Eu, Gd, Tb, Dy, Ho, Er, Tm, Yb, and Lu), the associated element Sc, and 2 deleterious elements (U, and Th) were estimated. Final estimated values are converted to stoichiometric oxide values by calculation using published ratios to support reporting of rare earth oxides (REO). The grade estimation process in May 2022 was completed using Maptek Vulcan software using Ordinary Kriging (OK) together with dynamic anisotropy to guide the grade interpolation parallel to the regolith boundaries. The updated estimation of Areas A and B was completed using Isatis Mining package with GEOVIVA Surpac used to construct the block model.

For estimation domains with insufficient sample data, a variogram model from a comparable domain was assigned.

Interpolation parameters for updated Areas A and B were derived using standard exploratory data analysis techniques of statistical and continuity analysis consistent with the May 2022 MRE. Appropriate interpolation strategies were developed on a domain basis using kriging neighbourhood analysis ("KNA") with minor interpolation differences used in 2024 update of Areas A and B from those used in the May 2022 estimate of all other areas;

- Areas A and B (2024 MRE update): Minimum number of 7 and a maximum of 21 composites with an octant search with an octant search applied with a restriction on the number of composites per octant set to five. Blocks were estimated in a two-pass strategy with the first pass maximum of 200 metres and second pass 6,000 metres. Due to the regular drill spacing most blocks were filled in the first pass. Distance limited grade capping was required in Area A for some elements in the clay and upper saprolite regolith zones. This cap controls the extrapolation of high grades to a limit of 50 metres with values capped as listed in Table 4.
- All other areas except A and B (2022 MRE): Minimum number of 8 composites and a maximum number of 20 composites, with an octant search applied with a restriction on the number of composites per octant set to five. Blocks were estimated in a two-pass strategy with first pass maximum search distances of 320 and 3,350 metres depending on estimation variable and domain. The second pass relaxed the minimum samples to four and removed the octant restriction.

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Table 4: Distance Capped Element Values Area A.

Element	Capped Valu	ies ppm Area A
Element	Clay	Upper Saprolite
Dy	30	40
Er	18	25
Eu	9	12
Gd	35	42
Но	6	9
Lu	2	3
Tb	5	7
Tm	2	3
Υ	150	300
Yb	15	25

The model has a block size of 100 m (X) by 100 m (Y) by 2 m (Z) with sub-celling of 25 m (X) by 25 m (Y) by 1m (Z). Within the Central Main area drilling has been completed at an average of 100 m (X) by 100 m (Y), with the parent cells in this area reduced to 50 m (X) by 50 m (Y) by 2 m (Z) with sub-celling of 25 m (X) by 25 m (Y) by 1m (Z). Grades were estimated into the parent cells.

The block model was validated using a combination of visual and statistical techniques including global statistics comparisons, correlation coefficients comparisons, and trend plots.

Resource Classification

A range of criteria was considered by Cube when addressing the suitability of the classification boundaries. These criteria include:

- Geological continuity and volume;
- Drill spacing and drill data quality;
- Modelling technique; and
- Estimation properties, including search strategy, number of informing composites, average distance
 of composites from blocks and kriging quality parameters.

The Indicated Resource is reported from all prospect areas except Areas D, and E which remain Inferred Resources based on the broad 400m x 400m drill spacing (Figure 2).

Cut-off Grade

The Mineral Resource has been reported above a 200 ppm TREO minus CeO₂ cut-off. This is consistent with cutoff grade applied to the May 2022 MRE and the Project Feasibility Study reported to the ASX on 20 March 2023⁴.

Reporting of the updated Mineral Resources have been assessed against the same resource limiting optimisation shell using appropriate cost, metallurgical recovery, and price assumptions as applied to previous MRE. Material within the optimised pit shell has, in the opinion of the Competent Person, met the conditions for reporting of a Mineral Resource with reasonable prospects of economic extraction.

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⁴ ASX announcement 20/03/2023 – 'MAKUUTU STAGE 1 DFS CONFIRMS TECHNICAL AND FINANCIAL VIABILITY FOR SUSTAINABLE, LONG-LIFE SUPPLY OF MAGNET AND HEAVY RARE EARTHS, MAIDEN ORE RESERVE ESTIMATE'



Mining and Metallurgy

Development of this Mineral Resource assumes mining using standard equipment and methods. The assumed mining method is conventional truck and shovel, open pit mining at an appropriate bench height.

Significant metallurgical test work on mineralisation at the Project has been undertaken including over five hundred and twenty-seven (527) variability interval desorption bottle rolls, eighty-eight (88) variability desorption column composite bottle rolls, over thirty (30+) 3-metre and 5-metre heap leach columns which indicate metallurgical recoveries of up to 75% TREE-Ce (Total Rare Earth Element minus Cerium) were achieved using simple extraction techniques. Details of this work was reported on the ASX as part of the Project Feasibility Study on 20 March 2023.

In addition to the laboratory test work pilot plant extraction of rare earths has commenced at the Project with initial mixed rare earths carbonate (MREC) production from this plant reported to the ASX on March 13 2024⁵.

These bodies of work and results are considered adequate to achieve reasonable expectations of economic metallurgical processing of the project mineralisation.

Current Makuutu Rare Earths Project Work Program

Presently, the Project team is operating the Makuutu Demonstration Plant producing MREC to facilitate advanced offtake and strategic partner negotiations. The Company is progressing with several work streams to support a targeted Final Investment Decision in late 2024, a key requirement for the potential supply of magnet and heavy REOs required to feed new heavy REO refining capacity projected to be coming online by 2026.

REVISED EXPLORATION TARGETS AT MAKUUTU

Further to this update in the MRE at Makuutu, the previous Exploration Targets announced at Makuutu on 27 February 2024⁶ are now revised to reflect the Phase 5 resource drilling successfully extending MRE Area A into the Exploration Target A1 and therefore reducing the overall Project Exploration Target. Target A1 remains in a reduced size.

The updated overall Makuutu Exploration Target has therefore been revised to:

277 - 750 million tonnes grading 400 - 700 ppm TREO*

*This Exploration Target is conceptual in nature but is based on reasonable grounds and assumptions. There has been insufficient exploration to estimate a Mineral Resource and it is uncertain if further exploration will result in the estimation of a Mineral Resource.

The Exploration Target is outside the current Makuutu Mineral Resource Estimate with locations shown in Figure 6 and detailed in Table 5 by target number and in Table 6 by mineral licence.

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⁵ ASX announcement 13/03/2024 – 'FIRST MIXED RARE EARTH CARBONATE PRODUCED AT MAKUUTU'

⁶ ASX announcement 27/02/2024 - 'MAKUUTU EXPLORATION TARGET INCREASED 40% WITH ADDITION OF EXPLORATION LICENCE 00257

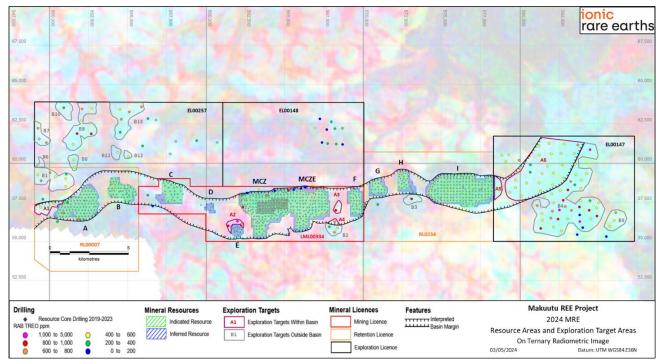


Figure 6: Makuutu project showing location of Exploration Target and Mineral Resource Areas.

Table 5: Makuutu Exploration Target

		Tonnes Ran	ge (millions)	TREO pp	om Range
Zone	Target ID	Minimum	Maximum	Minimum	Maximum
	A1	6	12	400	600
	A2	2	5	600	800
Inside Basin	A3	2	5	600	800
inside basin	A4	2	4	500	700
	A5	4	8	400	600
	A6	90	180	400	600
	B1	15	45	500	700
	B2	4	12	400	600
	B3	2	6	600	800
	B4	73	220	400	700
	B5	8	28	400	600
Outside	B6	1	3	400	600
Basin	B7	10	32	500	700
Dasiii	B8	2	5	400	600
	B9	25	83	500	700
	B10	6	20	200	500
	B11	2	6	300	600
	B12	2	6	300	500
	B13	21	70	500	700
Totals		277	750	400	700

Exploration Target ranges estimated from:

Selected Areas: RAB drilling intercepts >200ppm TREO-CeO2 exceeding 2 metres interval thickness.

Maximum Tonnes: Area of target area x RAB intercepts above MRE cut-off grade x MRE clay insitu dry bulk density (1.7)

Minimum Tonnes: Targets A1 to A6: 50% of the Maximum Tonnes: Targets B1 to B14: 30% of the Maximum Tonnes

Maximum TREO ppm: Average of RAB drilling intercepts above MRE cutoff grade rounded up to nearest 100 ppm

Minimum TREO ppm: Average of RAB drilling minus 100ppm rounded to nearest 100ppm.

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Table 6: Exploration Target by Licence at Makuutu.

	Tonnes Rar	nge (millions)	TREO ppm Range		
Tenement	Minimum	Maximum	Minimum	Maximum	
LML00334	10	26	500	600	
RL00007	21	57	400	600	
RL00234	2	6	600	800	
EL00147	175	436	400	600	
EL00257	69	225	400	600	
Totals	277	750	400	700	

An exploration program designed to evaluate these targets for resource development, including drilling and processing test work, will be compiled during 2024 to inform the Company on work streams to advance exploration licences toward further evaluation.

For more information about IonicRE and its operations, please visit www.ionicre.com.

Authorised for release by the Board.

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ADDENDUMS

Appendix 1: Makuutu Rare Earths Project March 2024 Mineral Resource Estimate Tabulations

Appendix 2: Makuutu Rare Earths Project RRMDD Diamond Core Hole Details

JORC Code, 2012 Edition - Table 1 Report.

About Ionic Rare Earths Limited

lonic Rare Earths Limited (ASX: IXR or lonicRE) is leading the secure supply of magnet rare earths, leveraging our sustainable technology, pioneering magnet recycling to drive the next generation of wind turbines, electronic vehicles, defence, and advanced manufacturing.

Our vision is a closed-loop supply chain that minimises environmental impact and maximises access to critical, strategic raw materials, through targeted global expansion and empowering new benchmarks in sovereign capability and innovation.

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lonic Technologies International Limited ("Ionic Technologies"), a 100% owned UK subsidiary, has developed processes for the separation and recovery of rare earth elements (REE) from mining ore concentrates and recycled permanent magnets. Ionic Technologies is focusing on the commercialisation of the technology to achieve near complete extraction from end of life / spent magnets and waste (swarf) to high value, separated and traceable magnet rare earth products with grades exceeding 99.9% rare earth oxide (REO). In June 2023, Ionic Technologies announced initial production of high purity magnet REOs from its newly commissioned Demonstration Plant and has moved to continuous production in March 2024, providing a first mover advantage in the industrial elemental extraction of REEs from recycling. In September 2023, Ionic Technologies announced collaboration partnerships with Ford Technologies, Less Common Metals (LCM) and the British Geological Survey (BGS) to build a domestic UK supply chain, from recycled REOs to metals, alloys and magnets and supplying UK based electric vehicles (EV) manufacturing, with potential to replicate across other key markets.

The Makuutu Rare Earths Project in Uganda, (60% owned; moving to 94% in H2 2024), is well-supported by existing tier-one infrastructure and is on track to become a long-life, low Capex, scalable and sustainable supplier of high-value magnet and heavy REO. In March 2023, lonicRE announced a positive stage 1 Definitive Feasibility Study (DFS) for the first of six tenements to progress to a mining licence, which was awarded in January 2024. Makuutu is now producing mixed rare earth carbonate (MREC) from a Demonstration Plant on site to advance offtake negotiations.

lonicRE has also executed a transformational 50/50 joint venture refinery and magnet recycling facility in Brazil with Viridis Mining and Minerals Limited (ASX: VMM) to separate high value magnet and heavy rare earths from the Colossus Project's full spectrum of REOs.

This integrated strategy completes the circular economy of sustainable and traceable magnet and heavy rare earth products needed to supply applications critical to EVs, offshore wind turbines, communication, and key defence initiatives.

lonicRE is a Participant of the UN Global Compact and adheres to its principles-based approach to responsible business.

Competent Persons Statement

The information in this Report that relates to Mineral Resources and Exploration Targets for the Makuutu Project is based on information compiled by Mr. Geoff Chapman, who is a Fellow of the Australian Institute of Mining and Metallurgy (AusIMM). Mr. Chapman is a Director of geological consultancy GJ Exploration Pty Ltd that is engaged by Ionic Rare Earths Ltd. Mr. Chapman has sufficient experience 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' (JORC Code). Mr. Chapman consents to the inclusion in this report of the matters based on the information in the form and context in which it appears.

Information in this report that relates to previously reported Exploration Results has been cross-referenced in this report to the date that it was originally reported to ASX. Ionic Rare Earths Limited confirms that it is not aware of any new information or data that materially affects information included in the relevant market announcements.

The information in this report that relates to Ore Reserves for the Makuutu Rare Earths deposit was first released to the ASX on 20 March 2023 and is available to view on www.asx.com.au. Ionic Rare Earths Limited confirms that it is not aware of any new information or data that materially affects information included in the

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relevant market announcement, and that all material assumptions and technical parameters underpinning the estimates in the announcement continue to apply and have not materially changed.

The information in this report that relates to Production Targets or forecast financial information derived from production the production target for the Makuutu Rare Earths deposit was first released to the ASX on 20 March 2023 and is available to view on www.asx.com.au. Ionic Rare Earths Limited confirms that all material assumptions and technical parameters underpinning the Production Targets or forecast financial estimates in the announcement continue to apply and have not materially changed.

Forward Looking Statements

This announcement has been prepared by Ionic Rare Earths Limited and may include forward-looking statements. Forward-looking statements are only predictions and are subject to risks, uncertainties and assumptions which are outside the control of Ionic Rare Earths Limited. Actual values, results or events may be materially different to those expressed or implied in this document. Given these uncertainties, recipients are cautioned not to place reliance on forward looking statements. Any forward-looking statements in this document speak only at the date of issue of this document. Subject to any continuing obligations under applicable law and the ASX Listing Rules, Ionic Rare Earths Limited does not undertake any obligation to update or revise any information or any of the forward-looking statements in this document or any changes in events, conditions, or circumstances on which any such forward looking statement is based.

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APPENDIX 1: MAKUUTU RARE EARTHS PROJECT MARCH 2024 MINERAL RESOURCE ESTIMATE TABULATIONS

Table 7: Makuutu Rare Earth Resource Tabulation at 200ppm TREO − CeO₂ Cut-off Grade

Resource Classification	Tonnes (millions)	La₂O₃ (ppm)	CeO ₂ (ppm)	Pr ₆ O ₁₁ (ppm)	Nd ₂ O ₃ (ppm)	Sm ₂ O ₃ (ppm)	Eu ₂ O ₃ (ppm)	Gd ₂ O ₃ (ppm)	Tb ₄ O ₇ (ppm)	Dy ₂ O ₃ (ppm)	Ho ₂ O ₃ (ppm)	Er ₂ O ₃ (ppm)	Tm ₂ O ₃ (ppm)	Yb ₂ O ₃ (ppm)	Lu₂O₃ (ppm)	Y₂O₃ (ppm)
Indicated	518	120	210	30	110	20	4	20	2	10	3	8	1	7	1	90
Inferred	99	110	190	30	100	20	3	10	2	10	2	6	1	6	1	70
Total	617	120	210	30	110	20	3	20	2	10	3	8	1	7	1	90

Notes: Tonnes are dry tonnes rounded to the nearest 1Mt.

All material REO grades are rounded to the nearest 10 ppm except Eu₂O₃, Tb₄O₇, Ho₂O₃, Tm₂O₃, Lu₂O₃ which are immaterial to overall resource grade.

Table 8: Makuutu Rare Earth Project Resource Tabulation of REO Reporting Groups at 200ppm TREO – CeO₂ Cut-off Grade.

Resource	Tonnes	TREO	TREO- CeO ₂	CREO	HREO	LREO	NdPr	Sc ₂ O ₃	U ₃ O ₈	ThO ₂
Classification	(millions)	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)
Indicated	518	640	430	220	170	470	140	30	10	30
Inferred	99	560	380	180	140	420	120	30	10	30
Total	617	630	420	210	160	460	140	30	10	30

Notes: All ppm rounded from original estimate to the nearest 10 ppm which may lead to differences in averages from Table 7

Y₂O₃ is included in the TREO, HREO and CREO calculation.

TREO (Total Rare Earth Oxide) = $La_2O_3 + CeO_2 + Pr_6O_{11} + Nd_2O_3 + Sm_2O_3 + Eu_2O_3 + Gd_2O_3 + Tb_4O_7 + Dy_2O_3 + Ho_2O_3 + Tm_2O_3 + Tm_2O_3 + Yb_2O_3 + Yb_2O_3 + Lu_2O_3$.

CREO⁷ (Critical Rare Earth Oxide) = $Nd_2O_3 + Eu_2O_3 + Tb_4O_7 + Dy_2O_3 + Y_2O_3$

HREO (Heavy Rare Earth Oxide) = $Sm_2O_3 + Eu_2O_3 + Gd_2O_3 + Tb_4O_7 + Dy_2O_3 + Ho_2O_3 + Er_2O_3 + Tm_2O_3 + Yb_2O_3$, + $Y_2O_3 + Lu_2O_3$

LREO (Light Rare Earth Oxide) = $La_2O_3 + CeO_2 + Pr_6O_{11} + Nd_2O_3$

 $NdPr = Nd_2O_3 + Pr_6O_{11}$

U₃O₈ and ThO₂ are deleterious elements being reported in accordance with JORC (2012) Guidelines.

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⁷ U.S. Department of Energy, Critical Materials Strategy, December 2011.

APPENDIX 2: MAKUUTU RARE EARTHS PROJECT RRMDD DIAMOND CORE HOLE DETAILS (DATUM UTM WGS84 ZONE 36N).

Drill Hole ID	UTM East (m.)	UTM North (m.)	Elevation (m.a.s.l.)	Drill Type	Hole Length EOH (m.)	Azimuth	Inclination
RRMDD001	564447	57983	1158	HQ DD	21.60	0	-90
RRMDD002	564602	57807	1163	HQ DD	15.40	0	-90
RRMDD003	564894	57630	1161	HQ DD	15.60	0	-90
RRMDD004	565209	58002	1150	HQ DD	15.60	0	-90
RRMDD005	564617	57016	1154	HQ DD	21.40	0	-90
RRMDD006	564635	57437	1164	HQ DD	20.10	0	-90
RRMDD007	564992	57437	1157	HQ DD	11.60	0	-90
RRMDD008	565014	57028	1144	HQ DD	13.60	0	-90
RRMDD009	564207	57405	1172	HQ DD	30.10	0	-90
RRMDD010	564210	57775	1164	HQ DD	14.50	0	-90
RRMDD011	563824	57766	1164	HQ DD	29.70	0	-90
RRMDD012	563401	57788	1169	HQ DD	19.40	0	-90
RRMDD013	563848	57440	1171	HQ DD	16.10	0	-90
RRMDD014	563804	57003	1170	HQ DD	14.10	0	-90
RRMDD015	564009	56616	1154	HQ DD	14.20	0	-90
RRMDD016	564259	56999	1162	HQ DD	21.69	0	-90
RRMDD017	563789	56419	1152	HQ DD	20.00	0	-90
RRMDD018	563601	56553	1159	HQ DD	13.80	0	-90
RRMDD019	563639	56181	1153	HQ DD	14.30	0	-90
RRMDD020	563602	55502	1163	HQ DD	20.10	0	-90
RRMDD021	563596	55789	1153	HQ DD	18.10	0	-90
RRMDD022	563217	55785	1158	HQ DD	17.60	0	-90
RRMDD023	563250	56602	1155	HQ DD	23.60	0	-90
RRMDD024	563201	56196	1155	HQ DD	15.00	0	-90
RRMDD025	563216	55508	1163	HQ DD	11.60	0	-90
RRMDD026	563422	57037	1164	HQ DD	16.10	0	-90
RRMDD027	563394	57400	1170	HQ DD	14.10	0	-90
RRMDD028	562995	57874	1163	HQ DD	17.90	0	-90
RRMDD029	562826	57635	1159	HQ DD	15.00	0	-90
RRMDD030	563017	57416	1162	HQ DD	18.50	0	-90
RRMDD031	562961	57040	1154	HQ DD	11.60	0	-90
RRMDD032	562651	57374	1152	HQ DD	14.50	0	-90
RRMDD033	564585	58149	1154	HQ DD	17.00	0	-90
RRMDD034	565002	57796	1158	HQ DD	12.50	0	-90
RRMDD035	565415	57396	1148	HQ DD	12.50	0	-90
RRMDD036	565397	57804	1154	HQ DD	15.00	0	-90
RRMDD037	565416	57008	1136	HQ DD	8.30	0	-90
RRMDD038	565804	57430	1141	HQ DD	19.00	0	-90
RRMDD039	566180	57799	1132	HQ DD	9.50	0	-90
RRMDD040	566007	58035	1136	HQ DD	16.50	0	-90
RRMDD041	565799	57806	1149	HQ DD	13.20	0	-90
RRMDD042	572635	58755	1106	HQ DD	15.40	0	-90
RRMDD043	574614	58303	1119	HQ DD	15.60	0	-90
RRMDD044	576391	58482	1142	HQ DD	15.60	0	-90
RRMDD045	577560	58312	1143	HQ DD	21.40	0	-90
RRMDD046	570971	58486	1107	HQ DD	20.10	0	-90
RRMDD047	563803	57189	1174	HQ DD	27.00	0	-90
RRMDD048	563605	57004	1168	HQ DD	24.00	0	-90
RRMDD049	563822	56802	1164	HQ DD	18.50	0	-90
RRMDD050	563994	56977	1169	HQ DD	19.00	0	-90
RRMDD051	564010	57409	1175	HQ DD	24.00	0	-90
RRMDD052	564210	57605	1169	HQ DD	19.00	0	-90
RRMDD053	564401	57397	1169	HQ DD	21.70	0	-90
RRMDD054	564194	57215	1173	HQ DD	28.50	0	-90
RRMDD055	564944	58121	1149	HQ DD	17.20	0	-90
RRMDD056	565593	58051	1150	HQ DD	24.00	0	-90
RRMDD057	567410	57394	1119	HQ DD	16.50	0	-90
RRMDD057	563914	57209	1176	HQ DD	22.70	0	-90
RRMDD059	563994	57214	1176	HQ DD	19.50	0	-90
RRMDD060	564001	57098	1170	HQ DD	28.50	0	-90

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Drill Hole ID	UTM East (m.)	UTM North (m.)	Elevation (m.a.s.l.)	Drill Type	Hole Length EOH (m.)	Azimuth	Inclination
RRMDD061	563902	57099	1173	HQ DD	23.50	0	-90
RRMDD062	563814	57098	1173	HQ DD	26.70	0	-90
RRMDD063	563701	57107	1171	HQ DD	27.00	0	-90
RRMDD064	563704	57005	1170	HQ DD	18.60	0	-90
RRMDD065	563802	56896	1166	HQ DD	15.00	0	-90
RRMDD066	563702	56896	1166	HQ DD	14.00	0	-90
RRMDD067	563901	56994	1170	HQ DD	16.20	0	-90
RRMDD068	563895	56901	1166	HQ DD	15.00	0	-90
RRMDD069	562582	57733	1153	HQ DD	15.00	0	-90
RRMDD070	564154	56479	1146	HQ DD	12.00	0	-90
RRMDD071	564388	56731	1154	HQ DD	25.50	0	-90
RRMDD072	564550	56449	1143	HQ DD	21.00	0	-90
RRMDD073	564778	56781	1139	HQ DD	16.50	0	-90
RRMDD074	565591	56807	1120	HQ DD	10.50	0	-90
RRMDD075	565849	57007	1126	HQ DD	10.10	0	-90
RRMDD076	566206	57410	1125	HQ DD	12.00	0	-90
RRMDD077	566478	57809	1115	HQ DD	8.30	0	-90
RRMDD078	567052	56703	1124	HQ DD	24.00	0	-90
RRMDD079	567394	57030	1121	HQ DD	12.00	0	-90
RRMDD080	567003	57017	1127	HQ DD	13.70	0	-90
RRMDD081	566681	56711	1128	HQ DD	12.50	0	-90
RRMDD082	567621	57397	1111	HQ DD	9.80	0	-90
RRMDD083	567398	57779	1115	HQ DD	14.00	0	-90
RRMDD084	566254	56957	1118	HQ DD	6.00	0	-90
RRMDD085	566929	57805	1117	HQ DD	9.20	0	-90
RRMDD086	566349	56724	1129	HQ DD	12.00	0	-90
RRMDD087	566999	58202	1114	HQ DD	11.60	0	-90
RRMDD088	567399	58197	1122	HQ DD	25.50	0	-90
RRMDD089	566231	56096	1137	HQ DD	12.50	0	-90
RRMDD090	566013	56004	1143	HQ DD	29.90	0	-90
RRMDD091	566965	57424	1123	HQ DD	19.50	0	-90
RRMDD092	566603	56994	1127	HQ DD	13.30	0	-90
RRMDD093	566649	57344	1118	HQ DD	9.00	0	-90
RRMDD094	566052	56466	1134	HQ DD	27.00	0	-90
RRMDD095	565967	56205	1140	HQ DD	13.40	0	-90
RRMDD096 RRMDD097	566407 569240	56431 58054	1129 1106	HQ DD	26.50 16.20	0	-90 -90
RRMDD097	569542	57929	1108	HQ DD HQ DD	13.20	0	-90 -90
RRMDD099	569255	57603	1109	HQ DD	10.30	0	-90 -90
RRMDD100	569621	57603	1109	HQ DD	16.50	0	-90 -90
RRMDD100	569613	57258	1115	HQ DD	11.00	0	-90
RRMDD101	569348	57253	1114	HQ DD	23.00	0	-90
RRMDD102	569791	56766	1126	HQ DD	15.70	0	-90
RRMDD103	569926	57199	1110	HQ DD	22.50	0	-90
RRMDD105	569349	56803	1123	HQ DD	22.00	0	-90
RRMDD106	570587	58116	1112	HQ DD	15.50	0	-90
RRMDD107	570621	58517	1105	HQ DD	10.60	0	-90
RRMDD108	570737	58832	1099	HQ DD	11.00	0	-90
RRMDD109	570940	58876	1099	HQ DD	10.70	0	-90
RRMDD110	571185	58822	1098	HQ DD	10.70	0	-90
RRMDD111	571273	58520	1102	HQ DD	12.00	0	-90
RRMDD112	570988	58117	1114	HQ DD	21.00	0	-90
RRMDD113	571375	58136	1106	HQ DD	11.30	0	-90
RRMDD114	572403	59404	1104	HQ DD	10.40	0	-90
RRMDD115	572313	59134	1103	HQ DD	8.50	0	-90
RRMDD116	572296	58748	1104	HQ DD	6.50	0	-90
RRMDD117	572312	58474	1104	HQ DD	7.40	0	-90
RRMDD118	572641	58492	1108	HQ DD	11.20	0	-90
RRMDD119	572936	58774	1104	HQ DD	10.50	0	-90
RRMDD120	572635	59138	1104	HQ DD	16.80	0	-90
RRMDD121	573189	58211	1114	HQ DD	24.60	0	-90
RRMDD122	572892	59157	1100	HQ DD	8.30	0	-90
RRMDD123	572752	59361	1101	HQ DD	11.50	0	-90
RRMDD124	573032	58496	1108	HQ DD	7.20	0	-90

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Drill Hole ID	UTM East	UTM North	Elevation	Drill Type	Hole Length EOH (m.)	Azimuth	Inclination
RRMDD125	(m.) 574373	(m.) 57976	(m.a.s.l.) 1111	HQ DD	15.00	0	-90
RRMDD126	574398	58337	1115	HQ DD	25.10	0	-90
RRMDD127	574792	58029	1122	HQ DD	16.50	0	-90
RRMDD128	574483	58685	1114	HQ DD	16.00	0	-90
RRMDD129	575231	58013	1130	HQ DD	17.50	0	-90
RRMDD130	575607	57979	1136	HQ DD	17.30	0	-90
RRMDD131	575988	58009	1141	HQ DD	11.70	0	-90
RRMDD132	576376	58027	1142	HQ DD	8.00	0	-90
RRMDD133	576204	58384	1143	HQ DD	12.70	0	-90
RRMDD134	576394	58827	1140	HQ DD	20.00	0	-90
RRMDD135	576008	58806	1139	HQ DD	20.90	0	-90
RRMDD136	575781	58400	1139	HQ DD	12.20	0	-90
RRMDD137	575389	58394	1132	HQ DD	16.00	0	-90
RRMDD138	575573	58805	1132	HQ DD	11.00	0	-90
RRMDD139	575216	58785	1126	HQ DD	9.60	0	-90
RRMDD140	574780	58824	1116	HQ DD	13.00	0	-90
RRMDD141	575004	58393	1126	HQ DD	18.00	0	-90
RRMDD142	574996	59063	1115	HQ DD	18.00	0	-90
RRMDD143	575412	59127	1122	HQ DD	14.20	0	-90
RRMDD144	575798	59138	1129	HQ DD	18.50	0	-90
RRMDD145	576253	59147	1137	HQ DD	20.00	0	-90
RRMDD146	576604	59118	1138	HQ DD	22.50	0	-90
RRMDD147	576546	58345	1141	HQ DD	13.70	0	-90
RRMDD148	576799	58812	1134	HQ DD	18.00	0	-90
RRMDD149	576986	59117	1132	HQ DD	27.40	0	-90
RRMDD150	577196	58812	1133 1146	HQ DD	19.00	0	-90 -90
RRMDD151 RRMDD152	576567 576825	57619 58024	1145	HQ DD HQ DD	11.50 12.80	0	-90 -90
RRMDD153	576950	57605	1150	HQ DD	18.50	0	-90 -90
RRMDD154	577019	58346	1141	HQ DD	20.70	0	-90
RRMDD155	577422	58341	1144	HQ DD	24.00	0	-90
RRMDD156	576214	57608	1142	HQ DD	17.20	0	-90
RRMDD157	577587	57958	1146	HQ DD	21.40	0	-90
RRMDD158	575786	57619	1133	HQ DD	14.50	0	-90
RRMDD159	577201	57960	1150	HQ DD	16.70	0	-90
RRMDD160	575405	57612	1123	HQ DD	14.80	0	-90
RRMDD161	577800	57625	1136	HQ DD	20.80	0	-90
RRMDD162	577412	57572	1146	HQ DD	22.50	0	-90
RRMDD163	574595	57785	1114	HQ DD	12.50	0	-90
RRMDD164	578145	57725	1128	HQ DD	19.20	0	-90
RRMDD165	577999	58012	1136	HQ DD	17.40	0	-90
RRMDD166	578233	58423	1130	HQ DD	19.20	0	-90
RRMDD167	574940	57714	1119	HQ DD	19.00	0	-90
RRMDD168	578054	58807	1129	HQ DD	17.30	0	-90
RRMDD169	576623	57329	1150	HQ DD	16.30	0	-90
RRMDD170	578219	59071	1118	HQ DD	12.00	0	-90
RRMDD171	577794	58341	1140	HQ DD	21.10	0	-90
RRMDD172	577607	58753	1135	HQ DD	18.00	0	-90
RRMDD173	577016	57371	1148	HQ DD	20.50	0	-90
RRMDD174	555545	57973	1155	HQ DD	19.00	0	-90
RRMDD175	555143	57846	1165	HQ DD	15.90	0	-90
RRMDD176	554961	58082	1164	HQ DD	25.20	0	-90
RRMDD177 RRMDD178	554794 555076	57802 57569	1170 1168	HQ DD HQ DD	27.00 23.50	0	-90 -90
RRMDD178	554577	57569 58202	1168	HQ DD HQ DD	23.50	0	-90 -90
RRMDD179	554370	57804	1164	HQ DD	20.10	0	-90
RRMDD181	555354	58143	1158	HQ DD	17.00	0	-90 -90
RRMDD182	553975	57916	1156	HQ DD	15.00	0	-90
RRMDD183	554883	58364	1160	HQ DD	21.70	0	-90
RRMDD184	554426	58648	1155	HQ DD	26.90	0	-90
RRMDD185	553878	58216	1154	HQ DD	10.90	0	-90
	554002	58658	1155	HQ DD	15.00	0	-90
RRMDD186							
RRMDD186 RRMDD187	554243	58992	1152	HQ DD	16.10	0	-90

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RRMDD189	Drill Hole ID	UTM East	UTM North	Elevation (m.a.s.l.)	Drill Type	Hole Length EOH (m.)	Azimuth	Inclination
RRMDD190	RRMDD189				HO DD		0	-90
RRMDD191								
RRMDD1912								
RRMDD193							-	
RRMDD194							0	
RRMDD196	RRMDD194	552362		1172	HQ DD	16.30	0	-90
RRMDD197	RRMDD195	551759	56815	1153	HQ DD	8.00	0	-90
RRMDD198 554173 58233 1160	RRMDD196	552245	56762	1162	HQ DD	22.00	0	-90
RRMDD199	RRMDD197	551983	57192	1171	HQ DD	12.90	0	-90
RRMDD200	RRMDD198	554173	58233	1160	HQ DD	12.80	0	-90
RRMDD201	RRMDD199	557012	57938	1162	HQ DD	18.00	0	-90
RRMDD202	RRMDD200	557409	58005	1165	HQ DD	11.20	0	-90
RRMDD203	RRMDD201			1170	HQ DD	19.30	0	
RRMDD204							0	
RRMDD205								
RRMDD206								
RRMDD207							-	
RRMDD208 557394 58364 1165 HQ DD 16.70 0 -90 RRMDD209 557951 58407 1171 HQ DD 12.50 0 -90 RRMDD210 558378 58457 1161 HQ DD 12.50 0 -90 RRMDD211 558385 57648 1167 HQ DD 17.00 0 -90 RRMDD212 559693 57328 1151 HQ DD 17.00 0 -90 RRMDD213 560060 57372 1153 HQ DD 20.80 0 -90 RRMDD214 560342 57229 1148 HQ DD 20.80 0 -90 RRMDD215 560344 57446 1151 HQ DD 18.20 0 -90 RRMDD215 560344 57446 1151 HQ DD 15.00 0 -90 RRMDD217 560568 56867 1146 HQ DD 15.40 0 -90 RRMDD218 56009 57372 1148 HQ DD 20.40 0 -90 RRMDD219 56009 55869 1149 HQ DD 20.40 0 -90 RRMDD219 56009 55869 1149 HQ DD 20.40 0 -90 RRMDD219 56009 55869 1154 HQ DD 20.40 0 -90 RRMDD220 561733 55851 1152 HQ DD 18.90 0 -90 RRMDD221 56291 55761 1154 HQ DD 11.20 0 -90 RRMDD222 561997 55621 1157 HQ DD 11.20 0 -90 RRMDD223 56200 57790 1158 HQ DD 14.60 0 -90 RRMDD224 56206 57601 1154 HQ DD 23.30 0 -90 RRMDD225 56397 57791 1188 HQ DD 16.50 0 -90 RRMDD226 563200 57790 1158 HQ DD 17.00 0 -90 RRMDD227 56296 57620 1163 HQ DD 20.40 0 -90 RRMDD228 56200 57615 1154 HQ DD 11.20 0 -90 RRMDD229 56200 57615 1154 HQ DD 11.20 0 -90 RRMDD229 56200 57615 1158 HQ DD 14.60 0 -90 RRMDD220 561397 57791 1188 HQ DD 23.30 0 -90 RRMDD224 56200 57615 1168 HQ DD 23.30 0 -90 RRMDD225 563197 57791 1188 HQ DD 23.30 0 -90 RRMDD226 563200 57615 1168 HQ DD 23.30 0 -90 RRMDD227 562996 57620 1163 HQ DD 24.20 0 -90 RRMDD228 563186 57416 1166 HQ DD 23.30 0 -90 RRMDD229 562801 57396 1155 HQ DD 13.70 0 -90 RRMDD230 563002 57192 1159 HQ DD 24.00 0 -90 RRMDD231 562812 57213 1153 HQ DD 17.00 0 -90 RRMDD232 563396 57858 1170 HQ DD 23.30 0 -90 RRMDD234 563396 57680 1163 HQ DD 17.00 0 -90 RRMDD235 563396 57689 1158 HQ DD 17.00 0 -90 RRMDD236 563200 57000 1158 HQ DD 27.40 0 -90 RRMDD237 56328 563396 57681 1177 HQ DD 24.00 0 -90 RRMDD238 563396 57689 1158 HQ DD 17.00 0 -90 RRMDD239 563397 56693 1158 HQ DD 17.00 0 -90 RRMDD234 563396 576399 1158 HQ DD 17.00 0 -90 RRMDD244 563396 576399 1158 HQ DD 17.00 0 -90 RRMDD244 563385 56386 5713 1171 HQ DD 17.50 0 -90 RRMDD245 563385 56603 1156 HQ DD 17.00 0 -90 RRMDD246 563385 56603					·			
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RRMDD234 563396 57585 1170 HQ DD 14.30 0 -90 RRMDD235 563200 57000 1158 HQ DD 19.00 0 -90 RRMDD236 563602 57801 1167 HQ DD 14.00 0 -90 RRMDD237 563208 56824 1155 HQ DD 21.30 0 -90 RRMDD238 563599 57599 1172 HQ DD 27.40 0 -90 RRMDD239 563377 56812 1160 HQ DD 23.00 0 -90 RRMDD240 563395 56599 1158 HQ DD 12.00 0 -90 RRMDD241 564024 57795 1159 HQ DD 19.50 0 -90 RRMDD242 563819 57601 1172 HQ DD 18.80 0 -90 RRMD243 563596 57198 1172 HQ DD 17.50 0 -90 RRMD245 <td< td=""><td>RRMDD232</td><td>563203</td><td>57189</td><td>1163</td><td>HQ DD</td><td>17.00</td><td>0</td><td>-90</td></td<>	RRMDD232	563203	57189	1163	HQ DD	17.00	0	-90
RRMDD235 563200 57000 1158 HQ DD 19.00 0 -90 RRMDD236 563602 57801 1167 HQ DD 14.00 0 -90 RRMDD237 563208 56824 1155 HQ DD 21.30 0 -90 RRMDD238 563599 57599 1172 HQ DD 27.40 0 -90 RRMDD239 563377 56812 1160 HQ DD 23.00 0 -90 RRMDD240 563395 56599 1158 HQ DD 12.00 0 -90 RRMDD241 564024 57795 1159 HQ DD 19.50 0 -90 RRMDD242 563819 57601 1172 HQ DD 18.80 0 -90 RRMDD243 563596 57198 1172 HQ DD 22.60 0 -90 RRMDD244 563186 56403 1153 HQ DD 17.50 0 -90 RRMDD245 <							0	
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PROMUNICAL I DISTRICT I DISTRICT I DISTRICTURA I DISTRICTU	RRMDD251	563606	56783	1163	HQ DD	11.50	0	-90 -90

Ionic Rare Earths Limited Level 5 South 459 Collins Street Melbourne Vic 3000 Australia Phone: +61 3 9776 3434 Email: <u>investors@ionicre.com</u> Web: <u>www.ionicre.com</u>

Drill Hole ID	UTM East (m.)	UTM North (m.)	Elevation (m.a.s.l.)	Drill Type	Hole Length EOH (m.)	Azimuth	Inclination
RRMDD253	564007	56820	1164	HQ DD	19.50	0	-90
RRMDD254	564101	57002	1168	HQ DD	15.50	0	-90
RRMDD255	564198	56808	1160	HQ DD	24.20	0	-90
RRMDD256	564598	57178	1161	HQ DD	23.30	0	-90
RRMDD257	564795	57199	1155	HQ DD	16.50	0	-90
RRMDD258	564396	56994	1161	HQ DD	18.60	0	-90
RRMDD259	564799	57001	1146	HQ DD	18.00	0	-90
RRMDD260	564977	57204	1151	HQ DD	19.80	0	-90
RRMDD261	564801	57401	1160	HQ DD	12.00	0	-90
RRMDD262	565164	57397	1153	HQ DD	10.60	0	-90
RRMDD263	565169	57195	1148	HQ DD	13.70	0	-90
RRMDD264	565132	57606	1157	HQ DD	17.70	0	-90
RRMDD265	564815	57807	1161	HQ DD	18.00	0	-90
RRMDD266	564970	57989	1154	HQ DD	18.00	0	-90
RRMDD267	564779	57983	1157	HQ DD	18.50	0	-90
RRMDD268	564818	58198	1150	HQ DD	18.00	0	-90
RRMDD269	564577	57614	1165	HQ DD	13.30	0	-90
		58000	1158			0	-90
RRMDD270	564600			HQ DD	29.50		
RRMDD271	564385	57821	1163	HQ DD	20.70	0	-90
RRMDD272	564374	57598	1167	HQ DD	18.00	0	-90
RRMDD273	565205	57816	1155	HQ DD	16.50		-90
RRMDD274	565303	57572	1154	HQ DD	12.00	0	-90
RRMDD275	565408	58015	1150	HQ DD	12.80	0	-90
RRMDD276	565507	57617	1153	HQ DD	15.00	0	-90
RRMDD277	565600	57801	1153	HQ DD	15.30	0	-90
RRMDD278	565797	58003	1147	HQ DD	10.50	0	-90
RRMDD279	565705	57575	1148	HQ DD	18.50	0	-90
RRMDD280	567202	58202	1120	HQ DD	31.30	0	-90
RRMDD281	566868	58065	1108	HQ DD	5.40	0	-90
RRMDD282	566987	57993	1114	HQ DD	8.40	0	-90
RRMDD283	567203	58002	1120	HQ DD	14.40	0	-90
RRMDD284	567394	57991	1118	HQ DD	11.40	0	-90
RRMDD285	567598	57999	1113	HQ DD	8.40	0	-90
RRMDD286	567576	57781	1109	HQ DD	11.40	0	-90
RRMDD287	567603	57601	1110	HQ DD	8.40	0	-90
RRMDD288	567385	57579	1118	HQ DD	14.40	0	-90
RRMDD289	567736	57388	1107	HQ DD	5.40	0	-90
RRMDD290	567205	57398	1123	HQ DD	12.40	0	-90
RRMDD291	567392	57204	1122	HQ DD	13.10	0	-90
RRMDD292	567192	57607	1121	HQ DD	19.40	0	-90
RRMDD293	567196	57810	1120	HQ DD	15.20	0	-90
RRMDD294	566983	57603	1121	HQ DD	11.40	0	-90
RRMDD295	566845	57604	1118	HQ DD	10.00	0	-90
RRMDD296	566753	57808	1112	HQ DD	4.30	0	-90
RRMDD297	566658	57609	1112	HQ DD	14.20	0	-90
RRMDD298	566811	57394	1121	HQ DD	10.40	0	-90
RRMDD299	566998	57198	1127	HQ DD	12.60	0	-90
RRMDD300	567206	57195	1125	HQ DD	13.10	0	-90
RRMDD301	567197	56973	1125	HQ DD	14.40	0	-90
RRMDD302	567597	57213	1117	HQ DD	11.40	0	-90
RRMDD303	567763	57171	1109	HQ DD	5.40	0	-90
RRMDD304	567403	56790	1119	HQ DD	9.90	0	-90
RRMDD305	567287	56680	1119	HQ DD	22.60	0	-90
RRMDD306	566803	57174	1126	HQ DD	15.00	0	-90
RRMDD307	567716	56856	1110	HQ DD	10.50	0	-90
RRMDD308	567609	56801	1113	HQ DD	9.40	0	-90
RRMDD309	567763	56967	1109	HQ DD	5.40	0	-90
RRMDD310	567590	57006	1116	HQ DD	11.00	0	-90
RRMDD311	566586	57188	1120	HQ DD	8.40	0	-90
RRMDD312	566454	57164	1116	HQ DD	5.40	0	-90
RRMDD313	567002	56887	1126	HQ DD	14.90	0	-90
RRMDD314	566802	56992	1128	HQ DD	11.00	0	-90
RRMDD315	566797	56795	1128	HQ DD	14.40	0	-90

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ACN: 083 646 477

Drill Hole ID	UTM East	UTM North	Elevation (m.a.s.l.)	Drill Type	Hole Length EOH (m.)	Azimuth	Inclination
RRMDD317	(m.) 566396	(m.) 56993	(m.a.s.i.) 1121	HQ DD	8.40	0	-90
RRMDD318	566591	56565	1127	HQ DD	12.00	0	-90
RRMDD319	566897	56573	1123	HQ DD	16.40	0	-90
RRMDD320	566397	56598	1130	HQ DD	17.40	0	-90
RRMDD321	566377	56248	1129	HQ DD	8.40	0	-90
RRMDD322	566198	56327	1135	HQ DD	26.40	0	-90
RRMDD323	566193	56601	1131	HQ DD	23.40	0	-90
RRMDD324	566391	55998	1132	HQ DD	11.50	0	-90
RRMDD325	566190	55919	1142	HQ DD	10.90	0	-90
RRMDD326	566005	55881	1145	HQ DD	19.40	0	-90
RRMDD327	565797	56005	1143	HQ DD	19.10	0	-90
RRMDD328	565806	56203	1139	HQ DD	19.90	0	-90
RRMDD329	565869	56413	1136	HQ DD	13.90	0	-90
RRMDD330	565802	56790	1122	HQ DD	6.40	0	-90
RRMDD331	565979	56590	1131	HQ DD	16.90	0	-90
RRMDD332	566005	56798	1122	HQ DD	4.90	0	-90
RRMDD333	565584	57216	1141	HQ DD	11.40	0	-90
RRMDD334	565592	57000	1131	HQ DD	9.40	0	-90
RRMDD335	565422	57204	1144	HQ DD	13.90	0	-90
RRMDD336	565804	57196	1135	HQ DD	7.90	0	-90
RRMDD337	565976	57009	1123	HQ DD	13.40	0	-90
RRMDD338	565999	57204	1130	HQ DD	10.90	0	-90
RRMDD339 RRMDD340	566001	57411	1135 1147	HQ DD	24.60 25.40	0	-90
	565798	55794		HQ DD		-	-90
RRMDD341 RRMDD342	566206 566360	57179 57437	1121 1117	HQ DD HQ DD	9.40 7.90	0	-90 -90
RRMDD342	566182	57607	1129	HQ DD	11.40	0	-90
RRMDD343	565996	57610	1137	HQ DD	12.40	0	-90
RRMDD345	566395	57608	1119	HQ DD	8.40	0	-90
RRMDD346	565997	57797	1139	HQ DD	12.00	0	-90
RRMDD347	566199	57994	1129	HQ DD	21.40	0	-90
RRMDD348	566179	58199	1129	HQ DD	18.40	0	-90
RRMDD349	565803	58176	1144	HQ DD	15.40	0	-90
RRMDD350	566026	58200	1136	HQ DD	13.10	0	-90
RRMDD351	565569	58161	1147	HQ DD	20.40	0	-90
RRMDD352	566398	58000	1118	HQ DD	5.60	0	-90
RRMDD353	566561	58023	1109	HQ DD	4.90	0	-90
RRMDD354	565408	58166	1146	HQ DD	20.40	0	-90
RRMDD355	565195	56993	1138	HQ DD	11.80	0	-90
RRMDD356	565199	58180	1135	HQ DD	6.40	0	-90
RRMDD357	565096	56873	1132	HQ DD	10.90	0	-90
RRMDD358	564890	56871	1138	HQ DD	20.40	0	-90
RRMDD359	564503	56657	1148	HQ DD	15.70	0	-90
RRMDD360	564620	56884	1150	HQ DD	21.20	0	-90
RRMDD361	564352	56490	1149	HQ DD	8.50	0	-90 00
RRMDD362	564202 563707	56628 56286	1154 1153	HQ DD	26.90 19.70	0	-90 -90
RRMDD363 RRMDD364	563707	56286 56013	1153	HQ DD HQ DD	25.90	0	-90 -90
RRMDD365	563908	56278	1145	HQ DD	14.40	0	-90
RRMDD366	563412	55979	1157	HQ DD	22.40	0	-90
RRMDD367	563398	55808	1159	HQ DD	23.00	0	-90
RRMDD368	563575	56017	1154	HQ DD	37.90	0	-90
RRMDD369	563405	55596	1162	HQ DD	23.30	0	-90
RRMDD370	563709	55658	1152	HQ DD	20.40	0	-90
RRMDD371	563230	55985	1156	HQ DD	19.50	0	-90
RRMDD372	563064	55998	1154	HQ DD	29.40	0	-90
RRMDD373	563288	56283	1156	HQ DD	24.70	0	-90
RRMDD374	563047	56391	1147	HQ DD	12.90	0	-90
RRMDD375	563493	56299	1156	HQ DD	12.40	0	-90
RRMDD376	563081	56603	1145	HQ DD	19.90	0	-90
RRMDD377	562998	56854	1149	HQ DD	8.40	0	-90
RRMDD378	562847	56962	1147	HQ DD	10.80	0	-90
RRMDD379	562916	56741	1141	HQ DD	17.00	0	-90
RRMDD380	562707	56950	1140	HQ DD	8.40	0	-90

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ACN: 083 646 477

Drill Hole ID	UTM East	UTM North	Elevation	Drill Type	Hole Length EOH (m.)	Azimuth	Inclination
RRMDD381	(m.) 563203	(m.) 57920	(m.a.s.l.) 1167	HQ DD	21.40	0	-90
RRMDD382	562708	57113	1147	HQ DD	23.40	0	-90
RRMDD383	563401	57910	1168	HQ DD	23.70	0	-90
RRMDD384	563592	57906	1166	HQ DD	24.50	0	-90
RRMDD385	563808	57898	1159	HQ DD	32.10	0	-90
RRMDD386	564006	57911	1149	HQ DD	19.30	0	-90
RRMDD387	562521	57101	1142	HQ DD	15.90	0	-90
RRMDD388	562557	57237	1147	HQ DD	18.20	0	-90
RRMDD389	564218	57991	1151	HQ DD	23.30	0	-90
RRMDD390	564354	58107	1151	HQ DD	22.10	0	-90
RRMDD391	562363	57205	1139	HQ DD	6.70	0	-90
RRMDD392	562480	57343	1148	HQ DD	26.40	0	-90
RRMDD393	562326	57361	1141	HQ DD	16.00	0	-90
RRMDD394	562474	57633	1150	HQ DD	16.40	0	-90
RRMDD395	564466	58223	1152	HQ DD	24.10	0	-90
RRMDD396	562275	57557	1144	HQ DD	15.00	0	-90
RRMDD397	564671	58233	1151	HQ DD	24.40	0	-90
RRMDD398	562377	57740	1147	HQ DD	17.40	0	-90
RRMDD399	562249	57665	1142	HQ DD	15.20	0	-90
RRMDD400	565096	58103	1140	HQ DD	15.60	0	-90
RRMDD401	562287	57873	1142	HQ DD	21.40	0	-90
RRMDD402	565020	58211	1138	HQ DD	19.20	0	-90
RRMDD403	562523	57886	1151	HQ DD	18.50	0	-90
RRMDD404	562804	57917	1158	HQ DD	23.40	0	-90
RRMDD405	564000	58021	1142	HQ DD	12.40	0	-90
RRMDD406	563820	57999	1155	HQ DD	13.10	0	-90
RRMDD407	563394	58002	1167	HQ DD	24.40	0	-90
RRMDD408 RRMDD409	563002	57975	1162 1166	HQ DD	11.40	0	-90 -90
RRMDD410	563210 569409	58014 58192	1106	HQ DD HQ DD	19.40 16.40	0	-90 -90
RRMDD411	569494	58330	1105	HQ DD	15.40	0	-90 -90
RRMDD411	569590	58180	1105	HQ DD	14.00	0	-90
RRMDD412	569411	58019	1108	HQ DD	14.40	0	-90
RRMDD414	569407	57779	1110	HQ DD	15.00	0	-90
RRMDD415	569235	57791	1108	HQ DD	23.40	0	-90
RRMDD416	569593	57794	1107	HQ DD	15.30	0	-90
RRMDD417	569749	57988	1103	HQ DD	11.40	0	-90
RRMDD418	569778	57823	1101	HQ DD	6.20	0	-90
RRMDD419	569788	57595	1102	HQ DD	4.90	0	-90
RRMDD420	569444	57601	1111	HQ DD	11.40	0	-90
RRMDD421	569809	57405	1106	HQ DD	7.90	0	-90
RRMDD422	569406	57401	1113	HQ DD	15.20	0	-90
RRMDD423	569605	57383	1112	HQ DD	17.50	0	-90
RRMDD424	569414	57055	1118	HQ DD	17.40	0	-90
RRMDD425	569522	56852	1125	HQ DD	20.90	0	-90
RRMDD426	569958	57341	1104	HQ DD	13.00	0	-90
RRMDD427	569626	57083	1119	HQ DD	19.50	0	-90
RRMDD428	569800	57039	1118	HQ DD	12.40	0	-90
RRMDD429	570581	58290	1109	HQ DD	16.90	0	-90
RRMDD430	570614	58666	1100	HQ DD	11.00	0	-90
RRMDD431	570006	57220	1107	HQ DD	5.40	0	-90
RRMDD432	570801	58684	1102	HQ DD	10.10	0	-90
RRMDD433	563404	57509	1170	HQ DD	20.40	0	-90
RRMDD434	563502	57494	1172	HQ DD	20.40	0	-90
RRMDD435	563500	57400	1172	HQ DD	21.40	0	-90
RRMDD436	563599	57499 57406	1173	HQ DD	16.40	0	-90 00
RRMDD437 RRMDD438	563808 563898	57496 57507	1174	HQ DD	28.50 23.00	0	-90 -90
RRMDD438	564000	57510	1173 1173	HQ DD HQ DD	23.00	0	-90 -90
RRMDD440	563698	57501	1173	HQ DD	18.00	0	-90
RRMDD441	564090	57505	1173	HQ DD	18.00	0	-90 -90
RRMDD442	564102	57394	1173	HQ DD	18.40	0	-90 -90
RRMDD443	564098	5739 4 57301	1175	HQ DD	20.40	0	-90 -90
RRMDD444	563497	57301	1170	HQ DD	20.40	0	-90 -90
UVINIDD444	J03491	3/301	11/2	חע טט	ZU.4U	Į Ū	J -90

Ionic Rare Earths Limited Level 5 South 459 Collins Street Melbourne Vic 3000 Australia Phone: +61 3 9776 3434 Email: <u>investors@ionicre.com</u> Web: <u>www.ionicre.com</u>

RRNDD045	Drill Hole ID	UTM East (m.)	UTM North (m.)	Elevation (m.a.s.l.)	Drill Type	Hole Length EOH (m.)	Azimuth	Inclination
RRNIDD446	RRMDD445				HO DD		0	-90
RRNDD0447 663406 57296 1168 HQ DD 18.80 0 -90 -90 RRNDD0448 563895 57404 1175 HQ DD 17.80 0 -90 -90 RRNDD0469 563890 57401 1175 HQ DD 17.80 0 -90 -90 RRNDD0451 563292 57496 1169 HQ DD 22.40 0 -90 -90 RRNDD0451 563292 57496 1169 HQ DD 22.80 0 -90 -90 RRNDD0453 571001 58313 1110 HQ DD 14.20 0 -90 RRNDD0453 571001 58313 1110 HQ DD 14.20 0 -90 RRNDD0455 577091 58313 1110 HQ DD 19.60 0 -90 RRNDD0455 5770791 58310 1110 HQ DD 11.40 0 -90 RRNDD0455 5770791 58310 1110 HQ DD 15.40 0 -90 RRNDD0457 563700 57291 1174 HQ DD 15.40 0 -90 RRNDD0457 563700 57291 1174 HQ DD 20.50 0 -90 RRNDD0457 563700 57291 1174 HQ DD 12.80 0 -90 RRNDD0467 563700 57291 1174 HQ DD 20.50 0 -90 RRNDD0469 571409 58288 1103 HQ DD 7.90 0 -90 RRNDD0460 563694 57205 1174 HQ DD 20.10 0 -90 RRNDD0461 563306 57299 1167 HQ DD 77.70 0 -90 RRNDD0463 563607 57304 1173 HQ DD 77.70 0 -90 RRNDD0463 563607 57304 1173 HQ DD 27.50 0 -90 RRNDD0464 563306 57299 1167 HQ DD 27.70 0 -90 RRNDD0463 563607 57304 1173 HQ DD 27.70 0 -90 RRNDD0468 563607 57304 1173 HQ DD 27.70 0 -90 RRNDD0468 563607 57304 1173 HQ DD 27.70 0 -90 RRNDD0468 564104 57200 1174 HQ DD 27.70 0 -90 RRNDD0467 563299 57201 1174 HQ DD 27.70 0 -90 RRNDD0467 563299 57201 1164 HQ DD 27.70 0 -90 RRNDD047 563291 572769 58608 1172 HQ DD 17.70 0 -90 RRNDD047 563291 572769 58608 1172 HQ DD 27.50 0 -90 RRNDD047 563291 57299 1167 HQ DD 27.50 0 -90 RRNDD047 563291 57299 1167 HQ DD 27.50 0 -90 RRNDD047 563291 57299 1167 HQ DD 27.50 0 -90 RRNDD047 563291 57299 1167 HQ DD 27.50 0 -90 RRNDD047 563291							-	
RRMDD48								
RRNDD469								
RRNDD496							0	
RRMID0452	RRMDD450	571003	58704	1101	HQ DD	12.90	0	-90
RRNDD453	RRMDD451	563292	57496	1169	HQ DD	22.40	0	-90
RRNDD454 563805 57299 1175 HQ DD 19.60 0 9.0 9.0 RRNDD456 570791 58310 1110 HQ DD 11.40 0 9.0 9.0 RRNDD456 563310 57401 1169 HQ DD 15.40 0 9.0 9.0 RRNDD457 563700 57291 1174 HQ DD 12.80 0 9.0 9.0 RRNDD458 571198 58310 1107 HQ DD 12.80 0 9.0 RRNDD459 571409 55228 1103 HQ DD 7.90 0 9.0 9.0 RRNDD459 571409 55228 1103 HQ DD 7.90 0 9.0 9.0 RRNDD461 56396 57295 1174 HQ DD 20.10 0 9.0 RRNDD461 563306 57299 1167 HQ DD 20.70 0 9.0 9.0 RRNDD461 563306 57299 1167 HQ DD 27.70 0 9.0 RRNDD464 570705 57995 1116 HQ DD 25.90 0 9.0 RRNDD464 570705 57995 1116 HQ DD 25.90 0 9.0 RRNDD466 564104 57200 1174 HQ DD 22.00 0 9.0 RRNDD466 564104 57200 1174 HQ DD 22.00 0 9.0 RRNDD466 564106 57038 1172 HQ DD 22.50 0 9.0 RRNDD467 563299 57201 1164 HQ DD 27.00 0 9.0 RRNDD467 563299 57201 1164 HQ DD 27.00 0 9.0 RRNDD468 564199 57300 1174 HQ DD 27.00 0 9.0 RRNDD468 572769 58608 1107 HQ DD 12.10 0 9.0 RRNDD467 564202 57094 1169 HQ DD 27.00 0 9.0 RRNDD471 563291 57099 1163 HQ DD 33.30 0 9.0 RRNDD472 573092 58333 1111 HQ DD 7.70 0 9.0 RRNDD473 573092 58333 1111 HQ DD 12.10 0 9.0 RRNDD474 563291 57099 1163 HQ DD 23.90 0 9.0 RRNDD474 563291 57099 1163 HQ DD 23.90 0 9.0 RRNDD475 564299 56908 1162 HQ DD 23.90 0 9.0 RRNDD477 563300 57066 1161 HQ DD 12.80 0 9.0 RRNDD478 57248 58395 11106 HQ DD 12.80 0 9.0 RRNDD478 57248 58395 11106 HQ DD 12.80 0 9.0 RRNDD478 57248 58395 1106 HQ DD 12.80 0 9.0 RRNDD488 572489 58935 11106 HQ DD 12.80 0 9.0 RRNDD488 572489 58935 1106 HQ DD 12.80 0 9.0 RRNDD489 563396 57091 1167 HQ DD 22.20 0	RRMDD452	563704	57403	1174	HQ DD	26.80	0	-90
RRMDD455	RRMDD453	571001	58313	1110	HQ DD	14.20	0	-90
RRMDD456 563310 57401 1169 HQ DD 15.40 0 90 90 RRMDD457 563700 57291 1174 HQ DD 12.80 0 90 90 RRMDD458 571198 58310 1107 HQ DD 12.80 0 90 90 RRMDD459 571409 58288 1103 HQ DD 7.90 0 90 90 RRMDD460 563684 57205 1174 HQ DD 20.70 0 90 90 RRMDD461 563306 57299 1167 HQ DD 20.70 0 90 90 RRMDD462 571192 58099 1112 HQ DD 20.70 0 90 90 RRMDD462 571192 58099 1112 HQ DD 25.90 0 90 RRMDD464 570705 57995 1116 HQ DD 25.90 0 90 90 RRMDD464 570705 57995 1116 HQ DD 19.20 0 90 90 RRMDD466 564104 57200 1174 HQ DD 19.20 0 90 90 RRMDD466 564106 57098 1172 HQ DD 25.90 0 90 90 RRMDD468 564199 57300 1174 HQ DD 27.00 0 90 RRMDD469 563299 57201 1164 HQ DD 27.00 0 90 RRMDD469 563299 57201 1164 HQ DD 27.00 0 90 RRMDD469 552293 57094 1169 HQ DD 19.20 0 90 RRMDD469 552293 58088 1107 HQ DD 12.10 0 90 RRMDD471 563291 57099 1163 HQ DD 33.30 0 90 RRMDD471 563291 57099 1163 HQ DD 33.30 0 90 RRMDD473 573002 58353 1111 HQ DD 7.70 0 90 RRMDD473 573005 58390 1110 HQ DD 7.70 0 90 RRMDD473 573005 58390 1110 HQ DD 7.70 0 90 RRMDD476 572483 58395 1106 HQ DD 23.90 0 90 RRMDD477 563300 57006 1162 HQ DD 23.90 0 90 RRMDD476 572483 58395 1106 HQ DD 10.20 0 90 RRMDD477 563300 57006 1162 HQ DD 23.90 0 90 RRMDD478 572480 56877 1106 HQ DD 25.20 0 90 RRMDD479 572893 58999 1103 HQ DD 17.60 0 90 RRMDD480 564291 56896 1164 HQ DD 25.20 0 90 RRMDD480 564291 56896 1164 HQ DD 25.20 0 90 RRMDD480 564291 56896 1164 HQ DD 25.20 0 90 RRMDD480 564201 56896 56977 1160 HQ DD 25.20 0 90 RRMDD480 564201 56896 56993 1163 HQ DD 24.40 0 90	RRMDD454	563805	57299	1175	HQ DD	19.60	0	-90
RRMDD467		570791	58310	1110	HQ DD	11.40	0	-90
RRMDD488	RRMDD456	563310	57401	1169	HQ DD	15.40	0	-90
RRMDD469	RRMDD457	563700		1174	HQ DD	20.50	0	
RRMDD460							-	
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RRMDD489 572489 59258 1104 HQ DD 10.70 0 -90 RRMDD490 572313 59293 1103 HQ DD 10.60 0 -90 RRMDD491 564302 57101 1167 HQ DD 37.90 0 -90 RRMDD492 572592 59369 1103 HQ DD 15.30 0 -90 RRMDD493 563500 57091 1167 HQ DD 24.40 0 -90 RRMDD494 563496 57002 1166 HQ DD 24.60 0 -90 RRMDD495 564331 57000 1163 HQ DD 20.70 0 -90 RRMDD496 564293 57200 1171 HQ DD 21.40 0 -90 RRMD498 558005 58001 1168 HQ DD 21.40 0 -90 RRMDD499 563392 56902 1161 HQ DD 30.80 0 -90 RRMDD500 <t< td=""><td>RRMDD487</td><td>572413</td><td>59003</td><td>1105</td><td>HQ DD</td><td>10.40</td><td>0</td><td>-90</td></t<>	RRMDD487	572413	59003	1105	HQ DD	10.40	0	-90
RRMDD490 572313 59293 1103 HQ DD 10.60 0 -90 RRMDD491 564302 57101 1167 HQ DD 37.90 0 -90 RRMDD492 572592 59369 1103 HQ DD 15.30 0 -90 RRMDD493 563500 57091 1167 HQ DD 24.40 0 -90 RRMDD494 563496 57002 1166 HQ DD 24.60 0 -90 RRMDD495 564331 57000 1163 HQ DD 20.70 0 -90 RRMDD496 564293 57200 1171 HQ DD 31.60 0 -90 RRMDD497 563501 56898 1165 HQ DD 21.40 0 -90 RRMDD498 558005 58001 1168 HQ DD 29.70 0 -90 RRMDD500 564399 57097 1164 HQ DD 28.90 0 -90 RRMDD501 <	RRMDD488	564196	57003	1166	HQ DD	27.00	0	-90
RRMDD491 564302 57101 1167 HQ DD 37.90 0 -90 RRMDD492 572592 59369 1103 HQ DD 15.30 0 -90 RRMDD493 563500 57091 1167 HQ DD 24.40 0 -90 RRMDD494 563496 57002 1166 HQ DD 24.60 0 -90 RRMDD495 564331 57000 1163 HQ DD 20.70 0 -90 RRMDD496 564293 57200 1171 HQ DD 31.60 0 -90 RRMDD497 563501 56898 1165 HQ DD 21.40 0 -90 RRMDD498 558005 58001 1168 HQ DD 29.70 0 -90 RRMDD499 563392 56902 1161 HQ DD 30.80 0 -90 RRMDD500 564494 57099 1164 HQ DD 28.90 0 -90 RRMDD503 <								
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RRMDD508 557831 57641 1167 HQ DD 21.40 0 -90								

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Drill Hole ID	UTM East (m.)	UTM North (m.)	Elevation (m.a.s.l.)	Drill Type	Hole Length EOH (m.)	Azimuth	Inclination
RRMDD509	564299	57402	1171	HQ DD	45.80	0	-90
RRMDD510	563598	56901	1166	HQ DD	19.80	0	-90
RRMDD511	558002	58204	1169	HQ DD	26.20	0	-90
RRMDD512	563600	57098	1169	HQ DD	30.90	0	-90
RRMDD513	564201	57508	1171	HQ DD	21.00	0	-90
RRMDD514	564101	57598	1171	HQ DD	26.90	0	-90
RRMDD515	563902	56804	1164	HQ DD	28.60	0	-90
RRMDD516	563701	56806	1164	HQ DD	18.50	0	-90
RRMDD517	564208	57703	1168	HQ DD	24.20	0	-90
RRMDD518	563999	56900	1166	HQ DD	21.90	0	-90
RRMDD519	564299	57605	1168	HQ DD	19.50	0	-90
RRMDD520	564098	56900	1165	HQ DD	35.40	_	-90
RRMDD521 RRMDD522	564293 564105	57700 56801	1167 1162	HQ DD HQ DD	26.60 30.60	0	-90 -90
RRMDD523	564402	57700	1162	HQ DD	23.80	0	-90 -90
RRMDD524	558403	58206	1156	HQ DD	13.10	0	-90
RRMDD525	564604	57099	1157	HQ DD	36.60	0	-90
RRMDD526	564302	57507	1169	HQ DD	22.50	0	-90
RRMDD527	564705	57103	1154	HQ DD	24.50	0	-90
RRMDD528	564500	57604	1166	HQ DD	25.80	0	-90
RRMDD529	564400	57502	1168	HQ DD	25.00	0	-90
RRMDD530	564698	57201	1158	HQ DD	28.80	0	-90
RRMDD531	564500	57506	1166	HQ DD	27.00	0	-90
RRMDD532	564599	57504	1165	HQ DD	19.50	0	-90
RRMDD533	564805	57301	1158	HQ DD	14.00	0	-90
RRMDD534	564702	57301	1161	HQ DD	18.70	0	-90
RRMDD535	564600	57401	1164	HQ DD	21.70	0	-90
RRMDD536	558131	58464	1169	HQ DD	17.50	0	-90
RRMDD537	564492	57397	1167	HQ DD	29.50	0	-90
RRMDD538	564593	57296	1164	HQ DD	26.10	0	-90
RRMDD539	564703	57403	1162	HQ DD	14.80	0	-90
RRMDD540	564502	57302	1166	HQ DD	33.80	0	-90
RRMDD541	557393	58197	1161	HQ DD	19.50	0	-90
RRMDD542	564706	57498	1163	HQ DD	23.00	0	-90
RRMDD543	564895	57498	1160	HQ DD	23.10	0	-90
RRMDD544	564499	57201 58197	1164	HQ DD	44.20	0	-90
RRMDD545 RRMDD546	557717 564705	57596	1170 1163	HQ DD HQ DD	31.00 15.00	0	-90 -90
RRMDD547	564806	57498	1161	HQ DD	16.90	0	-90 -90
RRMDD548	564601	57701	1165	HQ DD	24.90	0	-90
RRMDD549	564800	57600	1162	HQ DD	16.20	0	-90
RRMDD550	557305	58722	1164	HQ DD	18.70	0	-90
RRMDD551	564505	57707	1165	HQ DD	21.00	0	-90
RRMDD552	564801	57699	1162	HQ DD	22.30	0	-90
RRMDD553	564398	57300	1170	HQ DD	44.00	0	-90
RRMDD554	564900	57206	1152	HQ DD	16.30	0	-90
RRMDD555	557580	58719	1170	HQ DD	32.50	0	-90
RRMDD556	564802	57101	1151	HQ DD	25.90	0	-90
RRMDD557	564698	57702	1163	HQ DD	18.70	0	-90
RRMDD558	564897	57101	1148	HQ DD	26.00	0	-90
RRMDD559	557775	58599	1173	HQ DD	32.50	0	-90
RRMDD560	564899	57303	1156	HQ DD	18.00	0	-90
RRMDD561	564903	57399	1158	HQ DD	17.10	0	-90
RRMDD562	565097	57296	1151	HQ DD	16.60	0	-90
RRMDD563	561883	55897 57101	1152	HQ DD	21.40	0	-90 00
RRMDD564	565100	57191 57103	1149 1144	HQ DD	15.60 16.30	0	-90 00
RRMDD565 RRMDD566	565203 564996	57103	1154	HQ DD HQ DD	15.30	0	-90 -90
RRMDD567	565004	57402	1154	HQ DD	12.60	0	-90 -90
RRMDD568	565102	57498	1156	HQ DD	17.50	0	-90 -90
RRMDD569	565001	57102	1147	HQ DD	25.90	0	-90 -90
RRMDD570	562016	55963	1152	HQ DD	20.00	0	-90 -90
	<u> </u>		1155	HQ DD	13.60	0	-90
RRMDD571	565200	57500	ממוו	י יונו כו ח	1.3.00	l U	-90

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RRMDD573 RRMDD574 RRMDD575 RRMDD576 RRMDD576 RRMDD577 RRMDD578 RRMDD579 RRMDD580 RRMDD581 RRMDD582 RRMDD582 RRMDD583 RRMDD584 RRMDD584 RRMDD585 RRMDD585 RRMDD586 RRMDD586 RRMDD587 RRMDD588 RRMDD588 RRMDD589 RRMDD589	(m.) 565194 562148 565105 565205 565205 565093 565101 565090 564998 561972 564898 561817 564996 564995 561828 562194 578199	(m.) 57599 55844 57101 57697 57395 57691 57603 57699 55696 57701 55610 57599 57502	(m.a.s.l.) 1156 1154 1145 1156 1154 1158 1157 1159 1156 1160 1156 1159 1158	HQ DD	EOH (m.) 18.20 33.10 13.60 26.10 12.60 16.80 19.80 23.20 30.00 19.20	0 0 0 0 0 0 0 0 0	-90 -90 -90 -90 -90 -90 -90 -90
RRMDD574 RRMDD575 RRMDD576 RRMDD577 RRMDD578 RRMDD579 RRMDD580 RRMDD581 RRMDD582 RRMDD583 RRMDD583 RRMDD584 RRMDD584 RRMDD585 RRMDD585 RRMDD585 RRMDD586 RRMDD587 RRMDD588	562148 565105 565205 565205 565093 565101 565090 564998 561972 564898 561817 564996 564995 561828 562194	55844 57101 57697 57395 57691 57603 57699 55696 57701 55610 57599 57502 55731	1154 1145 1156 1154 1158 1157 1159 1156 1160 1156 1159	HQ DD	33.10 13.60 26.10 12.60 16.80 19.80 23.20 30.00	0 0 0 0 0 0 0	-90 -90 -90 -90 -90 -90
RRMDD575 RRMDD576 RRMDD577 RRMDD578 RRMDD579 RRMDD580 RRMDD581 RRMDD582 RRMDD583 RRMDD583 RRMDD584 RRMDD584 RRMDD585 RRMDD585 RRMDD585 RRMDD586 RRMDD587 RRMDD588 RRMDD589	565105 565205 565205 565093 565101 565090 564998 561972 564898 561817 564996 564995 561828 562194	57101 57697 57395 57691 57603 57699 55696 57701 55610 57599 57502 55731	1145 1156 1154 1158 1157 1159 1156 1160 1156 1159	HQ DD	13.60 26.10 12.60 16.80 19.80 23.20 30.00	0 0 0 0 0 0	-90 -90 -90 -90 -90 -90
RRMDD576 RRMDD577 RRMDD578 RRMDD579 RRMDD580 RRMDD581 RRMDD582 RRMDD583 RRMDD584 RRMDD584 RRMDD585 RRMDD585 RRMDD585 RRMDD586 RRMDD587 RRMDD588 RRMDD589	565205 565093 565101 565090 564998 561972 564898 561817 564996 564995 561828 562194	57697 57395 57691 57603 57699 55696 57701 55610 57599 57502 55731	1156 1154 1158 1157 1159 1156 1160 1156 1159	HQ DD	26.10 12.60 16.80 19.80 23.20 30.00	0 0 0 0 0	-90 -90 -90 -90 -90
RRMDD577 RRMDD578 RRMDD579 RRMDD580 RRMDD581 RRMDD582 RRMDD583 RRMDD584 RRMDD584 RRMDD585 RRMDD585 RRMDD586 RRMDD586 RRMDD587 RRMDD588 RRMDD589	565093 565101 565090 564998 561972 564898 561817 564996 564995 561828 562194	57395 57691 57603 57699 55696 57701 55610 57599 57502 55731	1154 1158 1157 1159 1156 1160 1156 1159	HQ DD HQ DD HQ DD HQ DD HQ DD HQ DD	12.60 16.80 19.80 23.20 30.00	0 0 0 0 0	-90 -90 -90 -90
RRMDD578 RRMDD579 RRMDD580 RRMDD581 RRMDD582 RRMDD583 RRMDD584 RRMDD585 RRMDD585 RRMDD586 RRMDD586 RRMDD587 RRMDD588 RRMDD589	565101 565090 564998 561972 564898 561817 564996 564995 561828 562194	57691 57603 57699 55696 57701 55610 57599 57502 55731	1158 1157 1159 1156 1160 1156 1159	HQ DD HQ DD HQ DD HQ DD HQ DD	16.80 19.80 23.20 30.00	0 0 0 0	-90 -90 -90
RRMDD579 RRMDD580 RRMDD581 RRMDD582 RRMDD583 RRMDD584 RRMDD585 RRMDD586 RRMDD586 RRMDD587 RRMDD588 RRMDD589	565090 564998 561972 564898 561817 564996 564995 561828 562194	57603 57699 55696 57701 55610 57599 57502 55731	1157 1159 1156 1160 1156 1159	HQ DD HQ DD HQ DD HQ DD	19.80 23.20 30.00	0 0	-90 -90
RRMDD580 RRMDD581 RRMDD582 RRMDD583 RRMDD584 RRMDD585 RRMDD586 RRMDD586 RRMDD587 RRMDD588 RRMDD589	564998 561972 564898 561817 564996 564995 561828 562194	57699 55696 57701 55610 57599 57502 55731	1159 1156 1160 1156 1159	HQ DD HQ DD HQ DD	23.20 30.00	0	-90
RRMDD581 RRMDD582 RRMDD583 RRMDD584 RRMDD585 RRMDD586 RRMDD587 RRMDD588 RRMDD588	561972 564898 561817 564996 564995 561828 562194	55696 57701 55610 57599 57502 55731	1156 1160 1156 1159	HQ DD HQ DD	30.00	0	
RRMDD582 RRMDD583 RRMDD584 RRMDD585 RRMDD586 RRMDD587 RRMDD588 RRMDD588	564898 561817 564996 564995 561828 562194	57701 55610 57599 57502 55731	1160 1156 1159	HQ DD			00
RRMDD583 RRMDD584 RRMDD585 RRMDD586 RRMDD587 RRMDD588 RRMDD588	561817 564996 564995 561828 562194	55610 57599 57502 55731	1156 1159	·			-90
RRMDD584 RRMDD585 RRMDD586 RRMDD587 RRMDD588 RRMDD589	564996 564995 561828 562194	57599 57502 55731	1159		38.60	0	-90
RRMDD585 RRMDD586 RRMDD587 RRMDD588 RRMDD589	564995 561828 562194	57502 55731		HQ DD	17.70	0	-90
RRMDD586 RRMDD587 RRMDD588 RRMDD589	561828 562194	55731		HQ DD	18.10	0	-90
RRMDD587 RRMDD588 RRMDD589	562194		1154	HQ DD	32.20	0	-90
RRMDD588 RRMDD589		55579	1157	HQ DD	37.50	0	-90
RRMDD589		58802	1125	HQ DD	22.80	0	-90
	578200	58921	1124	HQ DD	22.40	0	-90
TATAMEDESSO	562064	55402	1160	HQ DD	36.00	0	-90
RRMDD591	577998	59001	1125	HQ DD	25.30	0	-90
RRMDD591	577810	58807	1123	HQ DD	32.50	0	-90 -90
RRMDD593	577401	58802	1134	HQ DD	23.60	0	-90
RRMDD593	577799	57803	1140	HQ DD	19.50	0	-90
RRMDD595	577599	58602	1139	HQ DD	21.30	0	-90
RRMDD595	577996	57805	1134	HQ DD	17.20	0	-90
RRMDD597	577795	58604	1136	HQ DD	28.60	0	-90
RRMDD597	577594	58398	1142	HQ DD	25.80	0	-90
RRMDD599	578199	57991	1131	HQ DD	10.00	0	-90
RRMDD600	577198	58382	1142	HQ DD	22.20	0	-90 -90
RRMDD600	577599	58202	1144	HQ DD	30.20	0	-90 -90
RRMDD602	577211	58209	1147	HQ DD	19.10	0	-90 -90
RRMDD602	577797	58205	1141	HQ DD	31.40	0	-90
RRMDD603	578202	58201	1132	HQ DD	19.30	0	-90
RRMDD604	577981	58391	1136	HQ DD	26.30	0	-90
RRMDD606	578200	58604	1128	HQ DD	21.30	0	-90
RRMDD607	577999	58600	1133	HQ DD	31.50	0	-90
RRMDD607	577807	58003	1141	HQ DD	28.90	0	-90
RRMDD609	578003	58197	1137	HQ DD	22.20	0	-90 -90
RRMDD610	577416	58203	1146	HQ DD	31.40	0	-90 -90
RRMDD611	577600	57802	1144	HQ DD	18.50	0	-90
RRMDD612	576782	58402	1138	HQ DD	24.60	0	-90
RRMDD612	5777392	57806	1148	HQ DD	29.40	0	-90
			1138			_	
RRMDD614 RRMDD615	577201 577602	58609 57609	1142	HQ DD HQ DD	23.60 26.90	0	-90 -90
RRMDD616	577212	57589	1142	HQ DD	20.50	0	-90 -90
RRMDD617	577384	58599	1139	HQ DD	28.50	0	-90
RRMDD618	577198	57445	1147	HQ DD	29.00	0	-90 -90
RRMDD619	577000	58006	1147	HQ DD	15.10	0	-90 -90
RRMDD620	576984	58608	1135	HQ DD	22.40	0	-90 -90
RRMDD621	576813	57619	1150	HQ DD	22.90	0	-90
RRMDD622	576785	58588	1136	HQ DD	22.60	0	-90 -90
RRMDD623	576584	57467	1148	HQ DD	17.30	0	-90 -90
RRMDD624	576985	57795	1150	HQ DD	21.50	0	-90 -90
RRMDD625	576784	57408	1149	HQ DD	28.00	0	-90
RRMDD626	576585	58004	1149	HQ DD	12.50	0	-90 -90
RRMDD627	576996	58813	1128	HQ DD	25.90	0	-90
RRMDD628	576805	58190	1142	HQ DD	15.00	0	-90
RRMDD629	576390	57786	1144	HQ DD	18.50	0	-90
RRMDD630	576390	58012	1144	HQ DD	7.50	0	-90 -90
RRMDD631	576211	58936	1129	HQ DD	15.90	0	-90 -90
RRMDD632	576398	57589	1144	HQ DD	19.20	0	-90 -90
RRMDD633	576398	58201	1144	HQ DD	13.70		-90 -90
			1142	·	17.20	0	
RRMDD634	576402	57398		HQ DD			-90 00
RRMDD635 RRMDD636	576404 576211	58398 57807	1142 1142	HQ DD HQ DD	17.50 18.10	0	-90 -90

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Drill Hole ID	UTM East (m.)	UTM North (m.)	Elevation (m.a.s.l.)	Drill Type	Hole Length EOH (m.)	Azimuth	Inclination
RRMDD637	576799	59001	1135	HQ DD	21.00	0	-90
RRMDD638	576003	57808	1140	HQ DD	18.30	0	-90
RRMDD639	576397	58594	1141	HQ DD	21.90	0	-90
RRMDD640	575793	57802	1137	HQ DD	15.00	0	-90
RRMDD641	576583	58196	1142	HQ DD	17.80	0	-90
RRMDD642	576786	59116	1136	HQ DD	24.10	0	-90
RRMDD643	575598	57616	1127	HQ DD	16.80	0	-90
RRMDD644	575611	57800	1133	HQ DD	13.80	0	-90
RRMDD645	576603	58999	1137	HQ DD	18.00	0	-90
RRMDD646	576793	57795	1148	HQ DD	16.80	0	-90
RRMDD647	576598	58800	1138	HQ DD	24.10	0	-90
RRMDD648	576599	57799	1144	HQ DD	15.00	0	-90
RRMDD649	577208	57817	1150	HQ DD	21.70	0	-90
RRMDD650	576594	58614	1138	HQ DD	27.50	0	-90
RRMDD651	576201	58205	1143	HQ DD	12.00	0	-90
RRMDD652	577389	57987 58001	1149 1139	HQ DD	14.10 18.00	0	-90 -90
RRMDD653	575799	57600		HQ DD		0	-90 -90
RRMDD654 RRMDD655	576001 576402	58999	1137 1139	HQ DD HQ DD	16.00 21.10	0	-90 -90
RRMDD655	576402 575402	58999 58005	1139	HQ DD HQ DD	19.60	0	-90 -90
RRMDD656	575794	58192	1140	HQ DD HQ DD	13.50	0	-90 -90
RRMDD658	576406	59124	1138	HQ DD	22.80	0	-90
RRMDD659	575189	58195	1130	HQ DD	15.10	0	-90
RRMDD660	576199	59001	1138	HQ DD	18.30	0	-90
RRMDD661	575601	58400	1136	HQ DD	16.10	0	-90
RRMDD662	575205	58398	1129	HQ DD	11.00	0	-90
RRMDD663	575002	58802	1121	HQ DD	17.00	0	-90
RRMDD664	575991	59117	1133	HQ DD	16.90	0	-90
RRMDD665	575194	58583	1128	HQ DD	15.00	0	-90
RRMDD666	576006	58997	1136	HQ DD	22.10	0	-90
RRMDD667	575411	58207	1134	HQ DD	15.80	0	-90
RRMDD668	575402	58788	1129	HQ DD	13.60	0	-90
RRMDD669	575614	58199	1137	HQ DD	22.70	0	-90
RRMDD670	575411	58604	1132	HQ DD	18.00	0	-90
RRMDD671	575802	58803	1136	HQ DD	19.40	0	-90
RRMDD672	576005	58197	1142	HQ DD	15.40	0	-90
RRMDD673	576010	58388	1142	HQ DD	15.00	0	-90
RRMDD674	575815	58598	1139	HQ DD	22.50	0	-90
RRMDD675	575596	58597	1136	HQ DD	20.40	0	-90
RRMDD676	575999	58604	1141	HQ DD	22.20	0	-90
RRMDD677	575796	59010	1132	HQ DD	25.00	0	-90
RRMDD678	575586	58998	1129	HQ DD	17.40	0	-90
RRMDD679	575609	59118	1126	HQ DD	19.60	0	-90
RRMDD680	575212	59124	1117	HQ DD	12.10	0	-90
RRMDD681	575385	59001	1125	HQ DD	15.70	0	-90
RRMDD682	574804	59001	1113	HQ DD	18.00	0	-90 00
RRMDD683	575206 574602	59018 58795	1121 1114	HQ DD	16.90 17.50	0	-90 -90
RRMDD684 RRMDD685	574602	58494	1114	HQ DD HQ DD	21.20	0	-90 -90
RRMDD686	574453	58615	1116	HQ DD HQ DD	17.40	0	-90 -90
RRMDD687	574999	58604	1123	HQ DD	19.30	0	-90
RRMDD688	574600	58004	1118	HQ DD	19.40	0	-90
RRMDD689	574790	58598	1120	HQ DD	18.60	0	-90
RRMDD690	574801	58389	1122	HQ DD	17.00	0	-90
RRMDD691	574398	58210	1114	HQ DD	16.80	0	-90
RRMDD692	574256	58345	1111	HQ DD	15.00	0	-90
RRMDD693	574995	58201	1127	HQ DD	22.00	0	-90
RRMDD694	574205	58198	1106	HQ DD	9.00	0	-90
RRMDD695	574598	58203	1119	HQ DD	18.00	0	-90
RRMDD696	574233	58016	1104	HQ DD	6.00	0	-90
RRMDD697	574796	58202	1123	HQ DD	18.40	0	-90
RRMDD698	574410	57811	1107	HQ DD	21.00	0	-90
RRMDD699	574291	58506	1112	HQ DD	17.10	0	-90
RRMDD700	574618	57662	1110	HQ DD	6.80	0	-90

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Drill Hole ID	UTM East (m.)	UTM North (m.)	Elevation (m.a.s.l.)	Drill Type	Hole Length EOH (m.)	Azimuth	Inclination
RRMDD701	574814	57809	1119	HQ DD	17.90	0	-90
RRMDD702	575005	57611	1116	HQ DD	8.00	0	-90
RRMDD703	575001	57999	1125	HQ DD	15.20	0	-90
RRMDD704	574787	57614	1112	HQ DD	9.00	0	-90
RRMDD705	574991	57811	1123	HQ DD	23.20	0	-90
RRMDD706	575202	57600	1120	HQ DD	18.00	0	-90
RRMDD707	575215	57793	1126	HQ DD	15.10	0	-90
RRMDD708	575385	57801	1129	HQ DD	19.20	0	-90
RRMDD709	577008	58207	1144	HQ DD	15.50	0	-90
RRMDD710	576191	58784	1140	HQ DD	26.40	0	-90
RRMDD711	576180	58602	1142	HQ DD	21.50	0	-90
RRMDD712	551607	57603	1169	HQ DD	15.80	0	-90
RRMDD713	551403	57591	1169	HQ DD	11.70	0	-90
RRMDD714	551194	57408	1168	HQ DD	27.80	0	-90
RRMDD715	551000	57426	1166	HQ DD	18.80	0	-90
RRMDD716	551019	57608	1166	HQ DD	23.30	0	-90
RRMDD717 RRMDD718	551201 551202	57590 57197	1168 1165	HQ DD HQ DD	18.80 33.40	0	-90 -90
RRMDD719	551202	57192	1164	HQ DD	30.80	0	-90 -90
RRMDD719	550818	57187	1160	HQ DD	29.90	0	-90 -90
RRMDD721	550599	57182	1152	HQ DD	23.30	0	-90
RRMDD721	550706	57002	1154	HQ DD	17.30	0	-90
RRMDD723	550905	56991	1159	HQ DD	14.00	0	-90
RRMDD724	550787	56818	1156	HQ DD	14.30	0	-90
RRMDD725	551121	57002	1161	HQ DD	19.00	0	-90
RRMDD726	551298	57012	1160	HQ DD	15.10	0	-90
RRMDD727	550987	56802	1157	HQ DD	16.00	0	-90
RRMDD728	550716	56591	1153	HQ DD	8.80	0	-90
RRMDD729	550599	56813	1152	HQ DD	18.60	0	-90
RRMDD730	550403	56607	1148	HQ DD	18.00	0	-90
RRMDD731	550883	56599	1155	HQ DD	17.10	0	-90
RRMDD732	551101	56599	1152	HQ DD	14.10	0	-90
RRMDD733	551187	56793	1155	HQ DD	18.00	0	-90
RRMDD734	551327	56609	1146	HQ DD	8.60	0	-90
RRMDD735	551393	57377	1169	HQ DD	36.70	0	-90
RRMDD736	551390	57201	1165	HQ DD	30.00	0	-90
RRMDD737	551502	57019	1158	HQ DD	10.90	0	-90
RRMDD738	551706	57006	1157	HQ DD	15.00	0	-90
RRMDD739	551886	56996	1163	HQ DD	16.00	0	-90
RRMDD740	552118	57000	1168	HQ DD	17.50	0	-90
RRMDD741	551794	57182	1167	HQ DD	22.40	0	-90
RRMDD742	551896	57392	1172	HQ DD	34.50	0	-90
RRMDD743	552109	57389	1174	HQ DD	17.00	0	-90
RRMDD744	551607	57199 57406	1165	HQ DD	18.00	0	-90
RRMDD745	551689	57613	1170 1168	HQ DD HQ DD	30.40 27.00	0	-90 -90
RRMDD746	551811		1171	HQ DD	42.40	0	-90
RRMDD747 RRMDD748	552001 552199	57602 57619	1171	HQ DD	11.90	0	-90 -90
RRMDD749	552316	57779	1173	HQ DD	19.90	0	-90
RRMDD750	552079	57793	1169	HQ DD	33.40	0	-90
RRMDD751	551894	57805	1161	HQ DD	12.00	0	-90
RRMDD752	551710	57809	1158	HQ DD	14.70	0	-90
RRMDD753	551394	57806	1165	HQ DD	16.50	0	-90
RRMDD754	552001	57997	1165	HQ DD	18.70	0	-90
RRMDD755	552208	57999	1168	HQ DD	24.00	0	-90
RRMDD756	552105	58203	1168	HQ DD	37.00	0	-90
RRMDD757	552400	58402	1163	HQ DD	24.70	0	-90
RRMDD758	552586	58403	1157	HQ DD	16.90	0	-90
RRMDD759	552320	58199	1166	HQ DD	26.20	0	-90
RRMDD760	552503	58226	1162	HQ DD	28.10	0	-90
RRMDD761	552599	58005	1163	HQ DD	21.90	0	-90
RRMDD762	552508	57821	1168	HQ DD	26.50	0	-90
RRMDD763	552690	57804	1164	HQ DD	18.00	0	-90
RRMDD764	552884	57803	1158	HQ DD	15.00	0	-90

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Drill Hole ID	UTM East (m.)	UTM North (m.)	Elevation (m.a.s.l.)	Drill Type	Hole Length EOH (m.)	Azimuth	Inclination
RRMDD765	552808	57618	1162	HQ DD	17.60	0	-90
RRMDD766	552406	57607	1172	HQ DD	18.00	0	-90
RRMDD767	552700	57401	1167	HQ DD	15.00	0	-90
RRMDD768	552203	57206	1173	HQ DD	19.20	0	-90
RRMDD769	552300	57395	1173	HQ DD	15.00	0	-90
RRMDD770	552501	57402	1171	HQ DD	17.00	0	-90
RRMDD771	552580	57198	1170	HQ DD	22.50	0	-90
RRMDD772	552684	57000	1166	HQ DD	23.60	0	-90
RRMDD773	552878	56999	1162	HQ DD	28.50	0	-90
RRMDD774	552821	56806	1165	HQ DD	28.60	0	-90
RRMDD775	552507	56983	1168	HQ DD	23.70	0	-90
RRMDD776	552296	56991	1169	HQ DD	20.00	0	-90
RRMDD777	552590	56812	1165	HQ DD	32.20	0	-90
RRMDD778	552401	56784	1163	HQ DD	24.70	0	-90
RRMDD779	552217	56796	1163	HQ DD	15.20	0	-90
RRMDD780	552015	56788	1162	HQ DD	17.10	0	-90
RRMDD781	551905	56596	1157	HQ DD	27.00	0	-90
RRMDD782	551713	56605	1151	HQ DD	21.70	0	-90
RRMDD783	551803	56406	1154	HQ DD	18.00	0	-90
RRMDD784	552002	56405	1153	HQ DD	10.70	0	-90
RRMDD785	552179	56440	1148	HQ DD	6.30	0	-90
RRMDD786	552093	56603	1158	HQ DD HQ DD	19.80	0	-90
RRMDD787	552298	56601 56613	1153		15.00	0	-90
RRMDD788	552519		1155	HQ DD	27.00	0	-90
RRMDD789 RRMDD790	553073 552982	57404 57231	1153 1157	HQ DD HQ DD	7.00 12.00	0	-90 -90
RRMDD791	552884	57396	1161	HQ DD	21.30	0	-90
RRMDD791	552978	57989	1151	HQ DD	15.00	0	-90
RRMDD792	552896	58208	1151	HQ DD	13.50	0	-90
RRMDD794	552699	58194	1157	HQ DD	29.50	0	-90
RRMDD795	553020	56797	1162	HQ DD	18.40	0	-90
RRMDD796	552751	56664	1165	HQ DD	21.00	0	-90
RRMDD797	552543	56407	1156	HQ DD	12.00	0	-90
RRMDD798	554096	57999	1160	HQ DD	16.00	0	-90
RRMDD799	553919	58023	1155	HQ DD	10.50	0	-90
RRMDD800	553799	58381	1153	HQ DD	15.30	0	-90
RRMDD801	554030	58375	1158	HQ DD	21.00	0	-90
RRMDD802	554005	58215	1157	HQ DD	14.30	0	-90
RRMDD803	554215	58404	1160	HQ DD	23.00	0	-90
RRMDD804	553915	58611	1154	HQ DD	17.00	0	-90
RRMDD805	554211	58624	1157	HQ DD	19.50	0	-90
RRMDD806	554282	58800	1154	HQ DD	15.30	0	-90
RRMDD807	554113	58802	1155	HQ DD	12.50	0	-90
RRMDD808	554006	58999	1152	HQ DD	15.30	0	-90
RRMDD809	553918	58796	1152	HQ DD	15.00	0	-90
RRMDD810	554605	58617	1154	HQ DD	15.00	0	-90
RRMDD811	554586	58403	1160	HQ DD	18.30	0	-90
RRMDD812	554712	58212	1163	HQ DD	22.10	0	-90
RRMDD813	554425	58394	1160	HQ DD	20.00	0	-90
RRMDD814	554478	58762	1152	HQ DD	12.70	0	-90
RRMDD815	554805	58566	1153	HQ DD	17.50	0	-90
RRMDD816	555016	58386	1158	HQ DD	18.30	0	-90
RRMDD817	555028 555166	58594 58401	1153	HQ DD	18.30	0	-90 00
RRMDD818 RRMDD819	555166 554791	58491 58397	1154 1159	HQ DD HQ DD	13.50 18.80	0	-90 -90
RRMDD820	555227	58408	1156	HQ DD	14.70	0	-90
RRMDD821	555377	58333	1156	HQ DD	15.30	0	-90 -90
RRMDD822	555490	58170	1154	HQ DD	18.00	0	-90 -90
RRMDD823	555321	58001	1160	HQ DD	21.20	0	-90 -90
RRMDD824	555100	57964	1164	HQ DD	19.70	0	-90
RRMDD825	554931	58221	1162	HQ DD	21.00	0	-90
	555112	58233	1160	HQ DD	22.00	0	-90
RRMDD826							
RRMDD826 RRMDD827	554906	58007	1166	HQ DD	25.50	0	-90

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Drill Hole ID	UTM East (m.)	UTM North (m.)	Elevation (m.a.s.l.)	Drill Type	Hole Length EOH (m.)	Azimuth	Inclination
RRMDD829			25.50	0	-90		
RRMDD830	554310	57994	1164	HQ DD	23.20	0	-90
RRMDD831	554007	57810	1157	HQ DD	12.20	0	-90
RRMDD832	554208	57815	1164	HQ DD	15.40	0	-90
RRMDD833	554617	57799	1171	HQ DD	20.00	0	-90
RRMDD834	554859	57595	1173	HQ DD	23.00	0	-90
RRMDD835	555008	57400	1173	HQ DD	15.00	0	-90
RRMDD836	555172	57603	1165	HQ DD	19.50	0	-90
RRMDD837	555007	57818	1167	HQ DD	16.60	0	-90
RRMDD838	555346	57822	1159	HQ DD	18.00	0	-90
RRMDD839	555359	57912	1159	HQ DD	18.00	0	-90

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JORC Code, 2012 Edition – Table 1 report

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 (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. 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 (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. 	Diamond Core Drilling Drill core was collected from a core barrel and placed in appropriately marked core trays. Down hole core run depths were measured and marked with core blocks. Core was measured for core loss and core photography and geological logging completed. Sample lengths were determined by geological boundaries with a maximum sample length of 1 metre applied in clay zones and up to 2 metres in laterite zones where core recovery was occasionally low. Where the core contained continuous lengths of soft clay a carving knife was used to cut the core. When the core was too hard to knife cut it was cut using an electric core saw. Using either method core was initial cut in half then one half was further cut in half to give quarter core. Quarter core was submitted to ALS for chemical analysis using industry standard sample preparation and analytical techniques. Half core was collected for metallurgical testwork.
Drilling techniques	 Drill type (eg core, reverse circulation, open-hole hammer, rotary air blast, auger, Bangka, sonic, etc) and details (eg 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). 	Diamond Core Drilling Core size was HQ triple tube with a nominal diameter of 61.1mm. The core was not oriented (vertical holes)
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. 	Diamond Drilling Core recovery was calculated by measuring actual core length versus drillers core run lengths. Core recovery ranged from 70% to 100% and averaged 97%. No relationship exists between core recovery and grade.
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. 	All (100%) drill core has been geologically logged and core photographs taken. Logging is qualitative with description of colour, weathering status, alteration, regolith zone, major and minor rock types, texture, grain size and comments added where further observation is made. Additional non-geological qualitative logging includes comments for sample recovery, humidity, and hardness for each logged interval.

Criteria	J	ORC Code explanation	Commentary					
Sub-sampling	•	If core, whether cut or sawn and whether quarter, half or all core taken.	Diamond Drill Core					
techniques and sample preparation	•	If non-core, whether riffled, tube sampled, rotary split, etc and whether sampled wet or dry.		tained continuous lengths of soft clay a carving knife was used to cut the was too hard to knife cut it was cut using an electric core saw.				
	•	For all sample types, the nature, quality and appropriateness of the sample preparation technique.	1 metre applied in cl	e determined by geological boundaries with a maximum sample length of lay zones and up to 2 metres in laterite zones where core recovery was				
	•	Quality control procedures adopted for all sub-sampling stages to maximise representivity of samples.		cted from core trays by hand and placed in individually numbered bags.				
	•	Measures taken to ensure that the sampling is representative of the in	· ·	spatched to ALS for analysis with no further field preparation.				
		situ material collected, including for instance results for field duplicate/second-half sampling.		re recorded prior to sample dispatch. Sample mass is considered grain size of the material being sampled that is generally very fine grained				
	•	Whether sample sizes are appropriate to the grain size of the material		Service Device the death of 4.05 and the Device the service of 4.05				
		being sampled.	Field duplicate sampling was conducted at a ratio of 1:25 samples. Duplicates were created by lengthways halving the ¼ core primary sample into 2 identical portions. Duplicate samples were allocated separate sample numbers and submitted with the same analytical batch as the primary sample.					
Quality of assay	say • The nature, quality and appropriateness of the assaying and laboratory		Assay and Laborate	ory Procedures – All Samples				
data and	procedures used and whether the technique is considered	procedures used and whether the technique is considered partial or total.	Samples were dispa	tched by air freight direct to ALS laboratory Perth Australia. The				
laboratory tests	•	For geophysical tools, spectrometers, handheld XRF instruments, etc,		lysis protocol used is as follows:				
		the parameters used in determining the analysis including instrument	ALS Code	Description				
		make and model, reading times, calibrations factors applied and their derivation, etc.	WEI-21	Received sample weight				
			LOG-22	Sample Login w/o Barcode				
	•	Nature of quality control procedures adopted (eg standards, blanks, duplicates, external laboratory checks) and whether acceptable levels of	DRY-21	High temperature drying				
		accuracy (ie lack of bias) and precision have been established.	CRU-21 CRU-31	Crush entire sample Fine crushing – 70% <2mm				
		decarded (in fact, or state) and problem have seen established.	SPL-22Y	Split sample – Boyd Rotary Splitter				
			PUL-31h	Pulverise 750g to 85% passing 75 micron				
			CRU-QC Crushing QC Test					
			PUL-QC Pulverising QC test					
				e used for REE was Lithium Borate Fusion ICP-MS (ALS code ME-MS81).				
				industry standard analysis technique for REE suite and associated analysed at ppm levels:				
			-					
			Ba					
			Go					
			Rb					
			U	V W Y Yb Zr				
			Analysis for scandiu	m (Sc) was by Lithium Borate Fusion ICP-AES (ALS code Sc-ICP06).				

Criteria	JORC Code explanation	Commentary
		The sample preparation and assay techniques used are industry standard and provide a total analysis.
		All laboratories used are ISO 17025 accredited.
		QAQC
		<u>Diamond Drill Core Samples</u>
		Analytical Standards
		CRM AMIS0275 and AMIS0276 and a specific Makuutu CRM MUIACREI01 were included in sample batches at a ratio of 1:25 to drill samples submitted. This is an acceptable ratio.
		The assay results for the standards were consistent with the certified levels of accuracy and precision and no bias is evident.
		Blanks
		CRM blanks AMIS0681 and OREAS22e were included in sample batches at a ratio of 1:25 to drill samples submitted for analysis. This is an acceptable ratio.
		Both CRM blanks contain some REE, with elements critical elements Ce, Nd, Dy and Y present in small quantities. The analysis results were consistent with the certified values for the blanks. No laboratory contamination or bias is evident from these results.
		Duplicates
		Field duplicate sampling was conducted at a ratio of 1:25 samples. Duplicates were created by lengthways halving the ¼ core primary sample into 2 identical portions. Duplicate samples were allocated separate sample numbers and submitted with the same analytical batch as the primary sample. Variability between duplicate results is considered acceptable and no sampling bias is evident.
		Alternative Analysis Technique
		A selection of sample pulps was re-analysed at Bureau Veritas Minerals laboratory Perth W.A. using Laser Ablation MS technique.
		There is no evidence of systematic analytical bias or errors from these results.
Verification of	The verification of significant intersections by either independent or	No independent verification of significant intersection undertaken.
sampling and assaying	alternative company personnel.	No twinning of diamond core drill holes was undertaken.
		Sampling protocols for diamond core sampling and QAQC were documented and held on site
	Documentation of primary data, data entry procedures, data verification, data storage (physical and electronic) protocols.	by the responsible geologist. No procedures for data storage and management have been compiled as yet.
	Discuss any adjustment to assay data.	Data were collected in the field by hand and entered into Excel spreadsheet. Data are then compiled with assay results compiled and stored in Access database. Data verification is conducted on data entry including hole depths, sample intervals and sample numbers.

Criteria	JORC Code explanation	Commentary				
		Sample number database.	rs from assay data	are verified by algorithm i	in spreadsheet prio	or to entry int the
		data into an Exc	cel spreadsheet for	format from the laborator mat for QAQC analysis ar ed in a protected Access	nd review against fie	
		Data validation correct.	of assay data and s	ampling data have been	conducted to ensur	re data entry is
		All assay data is	s received from the	laboratory in element for	m is unadjusted for	r data entry.
		spreadsheet us	ing defined converse/services-and-reso	REE) to stoichiometric ox sion factors.(Source: https://ources/resources-and-ex	://www.jcu.edu.au/a	advanced-
			Element ppm	Conversion Factor	Oxide Form	1
			Ce	1.2284	CeO ₂	
			Dy	1.1477	Dy ₂ O ₃	
			Er	1.1435	Er ₂ O ₃	
			Eu	1.1579	Eu ₂ O ₃	
			Gd	1.1526	Gd ₂ O ₃	1
			Но	1.1455	Ho ₂ O ₃]
			La	1.1728	La ₂ O ₃	
			Lu	1.1371	Lu ₂ O ₃	
			Nd	1.1664	Nd ₂ O ₃]
			Pr	1.2082	Pr ₆ O ₁₁	
			Sm	1.1596	Sm ₂ O ₃	
			Tb	1.1762	Tb ₄ O ₇	
			Tm	1.1421	Tm ₂ O ₃	
			Υ	1.2699	Y ₂ O ₃	
			Yb	1.1387	Yb ₂ O ₃	
			Sc	1.5338	Sc ₂ O ₃	
		calculations are Note that Y_2O_3 i TREO (Total Rai Tb ₄ O ₇ + Dy ₂ O ₃	e used for compiling is included in the TI re Earth Oxide) = L + $Ho_2O_3 + Er_2O_3 + T$	cepted form for reporting REO into their reporting REO, HREO and CREO ca a ₂ O ₃ + CeO ₂ + Pr ₆ O ₁₁ + N Im ₂ O ₃ + Yb ₂ O ₃ + Y ₂ O ₃ + I	and evaluation gro alculation. $Id_2O_3 + Sm_2O_3 + Eu_2O_3$.	oups: u ₂ O ₃ + Gd ₂ O ₃ +
		Tm ₂ O ₃ + Yb ₂ O ₃ ,		$Sm_2O_3 + Eu_2O_3 + Gd_2O_3 -$	+ 104U7 + DY2U3 + F	⊓02U3 + Ľľ 2U3 +

Criteria	JORC Code explanation	Commentary
		CREO (Critical Rare Earth Oxide) = Nd ₂ O ₃₊ Eu ₂ O ₃₊ Tb ₄ O ₇₊ Dy ₂ O ₃₊ Y ₂ O ₃
		(From U.S. Department of Energy, Critical Materials Strategy, December 2011)
		LREO (Light Rare Earth Oxide) = La ₂ O ₃ + CeO ₂ + Pr ₆ O ₁₁ + Nd ₂ O ₃
		$NdPr = Nd_2O_3 + Pr_6O_{11}$
		HREO% of TREO= HREO/TREO x 100
		In elemental form the classifications are:
		Note that Y is included in the TREE, HREE and CREE calculation.
		TREE: La+Ce+Pr+Nd+Sm+Eu+Gd+Tb+Dy+Ho+Er+Tm+Yb+Lu+Y
		HREE: Sm+Eu+Gd+Tb+Dy+Ho+Er+Tm+Yb+Y+Lu
		CREE: Nd+Eu+Tb+Dy+Y
		LREE: La+Ce+Pr+Nd
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	Drill hole collar locations for holes RRMDD001 to RRMDD839 were surveyed a relational DGPS system. The general accuracy for x,y and z is ± 0.2m.
	in Mineral Resource estimation.Specification of the grid system used.	Datum WGS84 Zone 36 North was used for location data collection and storage. This is the appropriate datum for the project area. No grid transformations were applied to the data.
	Quality and adequacy of topographic control.	No downhole surveys were conducted. As all holes were vertical and shallow, the rig setup was checked using a spirit level for horizontal and vertical orientation Any deviation will be insignificant given the short lengths of the holes
		Topography has been defined by creating a wireframe from drill hole collar locations
Data spacing and distribution	Data spacing for reporting of Exploration Results.	Drill spacing was optimised to suite grade estimation ranges as determined from variogram analysis of data distribution.
and distribution	 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. 	Spacing is adequate based on the variography to suite the confidence level of the Mineral Resource
	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.	The Makuutu mineralisation is interpreted to be in a flat lying weathered profile including cover soil, lateritic caprock, clays transitioning to saprolite and saprock. Below the saprock are fresh shales, siltstones and mudstones. Pit mapping and diamond drilling indicate the mineralised regolith to be generally horizontal
	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.	All drill holes are vertical which is appropriate for horizontal bedding and regolith profile.
Sample security	The measures taken to ensure sample security.	After collection, the samples were transported by Company representatives to Entebbe airport and dispatched via airfreight to Perth Australia. Samples were received by Australian customs

Criteria	JORC Code explanation	Commentary
		authorities in Perth within 48 hours of dispatch and were still contained in the sealed shipment bags.
		Samples were subsequently transported from Australian customs to ALS Perth via road freight and inspected on arrival by a Company representative.
Audits or reviews	The results of any audits or reviews of sampling techniques and data.	No audits or reviews have been undertaken

Section 2 Reporting of Exploration Results

(Criteria listed in the preceding section also apply to this section.)

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 Makuutu Project is located in the Republic of Uganda. The mineral tenements comprise one mining licence (LML00334), two (2) granted Retention Licences (RL00007 and RL00234), three (3) Exploration Licences (EL00147, EL00148 and El00257). All granted licences are in good standing with no known impediments. The Makuutu Rare Earths Project is 100% owned by Rwenzori Rare Metals Limited ("RRM"), a Ugandan registered company. IonicRE currently has earned a 60% shareholding in RRM and has agreed terms to move to 94% ownership in 2024. IonicRE also continues discussions on the remaining 6% ownership.
Exploration	Acknowledgment and appraisal of exploration by other parties.	Previous exploration includes:
done by other parties		1980: Country wide airborne geophysical survey identifying uranium anomalies in the Project area.
		1990s: French BRGM and Ugandan DGSM undertook geochemical and geological survey over South-Eastern Uganda including the Project area. Anomalous Au, Zn, Cu, Sn, Nb and V identified.
		2006-2009: Country wide high resolution airborne magnetic and radiometric survey identified U anomalism in the Project area.
		2009: Finland GTK reprocessed radiometric data and refined the Project anomalies.
		2011: Kweri Ltd undertook field verification of radiometric anomalies including scout sampling of existing community pits. Samples showed an enrichment of REE and Sc.
		2011: The GTK conducted a ground gravity traverse which indicated a gravity low in the area.
		2011: Kweri Ltd conducted ground radiometric survey and evaluated historic groundwater borehole logs.

Criteria	JORC Code explanation	Commentary
		2012: Kweri Ltd and Berkley Reef Ltd conducted prospect wide pit excavation and sampling of 48 pits and a ground gravity traverse. Pit samples showed enrichment of REE weathered profile.
		2012 Kweri Ltd. Sent Five (5) samples to Toronto Aqueous Research Laboratory for REE leach testwork.
		2016 – 2017: Rwenzori Rare Metals conduct excavation of 11 pits, ground gravity survey, RAB drilling (109 drill holes) and one (1) diamond drill hole.
		The historic exploration has been conducted to a professional standard and is appropriate for the exploration stage of the prospect.
Geology	Deposit type, geological setting and style of mineralisation.	The Makuutu deposit is interpreted to be an ionic adsorption REE clay-type deposits similar to those in South China, Chile, Madagascar and Brazil.
		The mineralisation is contained within the tropical lateritic weathering profile of a basin filled with sedimentary rocks including shales, mudstones and sandstones potentially derived from the surrounding granitic and mafic rocks. These rocks are considered the original source of the REE which were then accumulated in the sediments (via ionic bonds with the clays) of the basin as the surrounding rocks have degraded. These sediments then form the protolith that was subjected to prolonged tropical weathering.
		The weathering developed a lateritic regolith with a surface indurated hardcap, followed downward by clay rich zones that grade down through saprolite and saprock to unweathered sediments. The thickness of the regolith is between 10 and 20 metres from surface.
		The REE mineralisation is concentrated in the weathered profile where it has dissolved from its primary mineral form, such as monazite and xenotime, then ionically bonded (adsorbed) or colloidally bonded on to fine particles of aluminosilicate clays (e.g. kaolinite, illite, smectite). The adsorbed and colloidal REE is the target for extraction and production of REO at Makuutu.
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:	The material information for drill holes relating to this announcement are contained in Appendix 2.
	o easting and northing of the drill hole collar	
	 elevation or RL (Reduced Level – elevation above sea level in metres) of the drill hole collar 	
	o dip and azimuth of the hole	
	o down hole length and interception depth	
	o 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.	

Criteria	JORC Code explanation	Commentary
Data aggregation methods	 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. 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 	No metal equivalents values are used.
Relationship between mineralisation widths and intercept lengths	 should be clearly stated. 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 (eg 'down hole length, true width not known'). 	Down hole lengths, true widths are not known. The mineralisation is interpreted to be horizontal, flat lying sediments and weathering profile, with the vertical drilling perpendicular to mineralisation. Any internal variations to REE distribution within the horizontal layering was not defined, therefore the true width is considered 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.	Refer to diagrams in body of text.
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.	This report contains all drilling results that are consistent with the JORC guidelines. Where data may have been excluded, it is considered not material.
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.	In 2012, 5 pit samples were sent to the Toronto Aqueous Research Laboratory at the University of Toronto for leachability tests In 2017, 2 pit samples were sent to SGS Laboratory Toronto for leachability tests. 2017/18, 29 samples were collected from 7 RAB drill holes. 20 of these were consigned to SGS Canada and 4 to Aqueous Process Research (APR) in Ontario Canada. The remaining 5 samples were consigned to Bio Lantanidos in Chile. 2018/19, 8.5 tonne bulk sample was consigned to Mintek, South Africa, to evaluate using Resin-in-leach (RIL) technology for the recovery of REE. 2019: 118 samples from 31 holes from the 2019 diamond drilling program had preliminary variation testwork conducted TREE-Ce extraction ranged from 3% to 75%. 2020: Testing of composite samples with lower extractions from the 2019 variation testing using increasing rates of acid addition and leach time. Significant increases in extractions were achieved.

Criteria	JORC Code explanation	Commentary
		2020: Testing of composited samples from two exploration holes east of the Makuutu Central Zone provided an average extraction of TREE-Ce recovery of 41% @ pH1
		2021-2024: Significant metallurgical test work on mineralisation including over five hundred and twenty-seven (527) variability interval desorption bottle rolls, eighty eight (88) variability desorption column composite bottle rolls, over thirty (30+) 3-metre and 5-metre heap leach columns which indicate metallurgical recoveries of up to 75% TREE-Ce (Total Rare Earth Element minus Cerium) using simple extraction techniques. Details of this work was reported on the ASX as part of the Project Feasibility Study on 20 March 2023.
		In addition to the laboratory test work pilot plant extraction of rare earths has commenced at the Project with initial mixed rare earths carbonate production from this plant reported to the ASX on March 13 2024.
Further work	The nature and scale of planned further work (eg tests for lateral extensions or depth extensions or large-scale step-out drilling).	Future work programs are intended to progress the economic development of the Project.
	Diagrams clearly highlighting the areas of possible extensions, including the main geological interpretations and future drilling areas, provided this information is not commercially sensitive.	

Section 3 Estimation and Reporting of Mineral Resources

(Criteria listed in section 1, and where relevant in section 2, also apply to this section.)

Criteria	JORC Code explanation	Commentary
Database integrity	 Measures taken to ensure that data has not been corrupted by, for example, transcription or keying errors, between its initial collection and its use for Mineral Resource estimation purposes. Data validation procedures used. 	Data collected in the field has been validated against core photography and original data collection files Analytical data is received in digital format from the laboratory and merged with the sampling data into an Excel spreadsheet format for QAQC analysis and review against field data. Once finalised and validated data is stored in a protected Access database. Data validation of original sampling and assay data have been conducted on the database on a 1:10 entries spot check basis. Data has also been correlated against interval lengths and EOH details. Any data entry errors identified have been correct in the database.
Site visits	 Comment on any site visits undertaken by the Competent Person and the outcome of those visits. If no site visits have been undertaken indicate why this is the case. 	The project site has been visited by the Competent Person who has observed drilling operations, reviewed drill core, reviewed sampling, QAQC procedures, the field project area and bulk density procedures.
Geological interpretation	 Confidence in (or conversely, the uncertainty of) the geological interpretation of the mineral deposit. Nature of the data used and of any assumptions made. 	The mineral deposit is hosted in a tropical laterite regolith profile derived from generally flat lying sediments. The regolith commences from surface to an average depth of approximately 18 metres. All drilling was geologically logged in the field including rock type and degree of weathering. Following field data collection and receipt of analytical data the deposit has been

Criteria	JORC Code explanation		Commentary		
	•	The effect, if any, of alternative interpretations on Mineral Resource estimation.	categorised on a Regolith Zone basis based on visual observation from drill core and multi- element ratio analysis.		
	•	The use of geology in guiding and controlling Mineral Resource estimation.	There is a moderate to high degree of confidence in the interpretation of the regolith units given the flat lying and reasonably consistent nature of the regolith.		
	•	The factors affecting continuity both of grade and geology.	There is unlikely to be any significant structural disruption to the mineralisation through the resource area.		
			Estimation domains were based on grouping of the regolith domains into five zones as defined by regolith rheology, and by comparison of regolith statistics:		
			Domain 1,2,3 – Cover zone		
			Domain 4 – Mottled zone		
			Domain 5 – Clay zone		
			Domain 6 – Upper Saprolite zone		
			Domain 7 – Lower Saprolite zone		
			Domain 8,9 – Basement zone		
Dimensions	•	The extent and variability of the Mineral Resource expressed as length (along strike or otherwise), plan width, and depth below surface to the upper and lower limits of the Mineral Resource.	The overall defined mineralised zone extends across 11 discrete prospect areas defined by radiometric and topographical features. The overall strike for the eastern-most to western-most prospects is approximately 37 kilometres, with an across strike extent of ~3,000m and an average vertical thickness of 18m.		
			The top of the mineralised zone is defined by a thin surficial soil / hardcap zone that averages 3.5m in thickness. The base of the mineralised zone is defined by the top of the saprock/fresh rock boundary which extends to an average vertical depth of 17m.		
Estimation and modelling techniques	•	The nature and appropriateness of the estimation technique(s) applied and key assumptions, including treatment of extreme grade values, domaining, interpolation parameters and maximum distance of extrapolation from data points. If a computer assisted estimation method was chosen include a description of computer software and parameters used.	A total of 15 rare earth element (REE) grade attributes (Y, La, Ce, Pr, Nd, Sm, Eu, Gd, Tb, Dy, Ho, Er, Tm, Yb, and Lu) and Sc, and 2 deleterious elements (U, and Th) were estimated. Additionally, bulk density was estimated for those domains with sufficient numbers of measurements. Final estimated values are converted to stoichiometric oxide values by calculation using published ratios to support reporting of rare earth oxides (REO). The grade estimation used the Ordinary Kriging ("OK") technique together with dynamic		
	•	The availability of check estimates, previous estimates and/or mine production records and whether the Mineral Resource estimate takes	anisotropy to guide the grade interpolation parallel to the regolith boundaries.		
		appropriate account of such data.	Grade interpolation used 1m composited samples constrained by the estimation domain boundaries which were either treated as hard or soft boundaries based on statistical boundary		
	•	The assumptions made regarding recovery of by-products.	analysis.		
	•	Estimation of deleterious elements or other non-grade variables of economic significance (eg sulphur for acid mine drainage	An appropriate top cutting strategy (generally above the 99th grade percentile) was used to minimise the influence of isolated high-grade outliers.		
	•	characterisation). In the case of block model interpolation, the block size in relation to the average sample spacing and the search employed.	Interpolation parameters were derived using standard exploratory data analysis techniques of statistical and continuity analysis. Appropriate interpolation strategies were developed on a domain basis using kriging neighbourhood analysis ("KNA"), which included:		

Criteria	JORC Code explanation	Commentary
Criteria	 Any assumptions behind modelling of selective mining units. Any assumptions about correlation between variables. Description of how the geological interpretation was used to control the resource estimates. Discussion of basis for using or not using grade cutting or capping. The process of validation, the checking process used, the comparison of model data to drill hole data, and use of reconciliation data if available. 	Oriented ellipsoidal search radii ranged from 200m to 1500m depending on the estimation domain; Minimum number of samples = 7; Maximum number of samples = 21, and Octant search with a maximum of 5 samples per octant The maximum extrapolation distance from the last data points was no more than 200m. Computer software used for the modelling and estimation were: Areas A and B (2024): Isatis Mining package with GEOVIVA Surpac Areas C, D, E, F G, H, I, MCZ and MCZE (2022): Leapfrog Geo v2021 was used for geological domain modelling. Supervisor v8.14 was used for geostatistical analysis. Maptek Vulcan was used for grade estimation, block modelling and reporting for The estimation block model definitions are: Non-rotated block model with an azimuth of 000°GN; OK panel size was set at 100m x 100m x 2m (XYZ)

Criteria	JORC Code explanation	Commentary
		The estimation model was validated using the following techniques:
		Visual 3D checking and comparison of informing samples and estimated values;
		 Global statistical comparisons of raw sample and composite grades to the block grades;
		Comparison of correlation coefficients between composite and block data;
		Validation 'swath' plots by northing, easting and elevation for each domain, and
		Analysis of the grade tonnage distribution.
		No by-product recoveries were considered.
		No mining production has taken place at the deposit.
Moisture	Whether the tonnages are estimated on a dry basis or with natural moisture, and the method of determination of the moisture content.	Tonnes are estimated on an Insitu Dry Bulk Density basis. No moisture content has been determined by testwork or used in estimation.
Cut-off parameters	The basis of the adopted cut-off grade(s) or quality parameters applied.	The Company has reported a Feasibility Study on the Project to the ASX in March 2023 that provides supporting details for the application of a marginal cut-off grade of 200 ppm TREO (excluding CeO ₂).
Mining factors or assumptions	Assumptions made regarding possible mining methods, minimum mining dimensions and internal (or, if applicable, external) mining dilution. It is always necessary as part of the process of determining reasonable prospects for eventual economic extraction to consider potential mining methods, but the assumptions made regarding mining methods and parameters when estimating Mineral Resources may not always be rigorous. Where this is the case, this should be reported with an explanation of the basis of the mining assumptions made.	Mineralisation is near surface, broadly flat lying, and of grades amenable to conventional open pit mining methods. The assumed mining method would be 'free dig' using truck and shovel.
Metallurgical factors or assumptions	The basis for assumptions or predictions regarding metallurgical amenability. It is always necessary as part of the process of determining reasonable prospects for eventual economic extraction to consider potential metallurgical methods, but the assumptions regarding metallurgical treatment processes and parameters made when reporting Mineral Resources may not always be rigorous. Where this is the case, this should be reported with an explanation of the basis of the metallurgical assumptions made.	Processing of the REE mineralisation is considered relatively simple, with the clay undergoing a desorption process in which the REE are desorbed from the mineralisation into a salt solution, concentrated, and precipitated to create a mixed rare earth product. Significant metallurgical test work on mineralisation at the Project has been undertaken including over five hundred and twenty-seven (527) variability interval desorption bottle rolls, eighty eight (88) variability desorption column composite bottle rolls, over thirty (30+) 3-metre and 5-metre heap leach columns which indicate metallurgical recoveries of up to 75% TREE-Ce (Total Rare Earth Element minus Cerium) using simple extraction techniques. Details of this work was reported on the ASX as part of the Project Feasibility Study on 20 March 2023. In addition to the laboratory test work pilot plant extraction of rare earths has commenced at the Project with initial mixed rare earths carbonate production from this plant reported to the ASX on March 13 2024.

Criteria	JORC Code explanation	Commentary
Environmen-tal factors or assumptions	Assumptions made regarding possible waste and process residue disposal options. It is always necessary as part of the process of determining reasonable prospects for eventual economic extraction to consider the potential environmental impacts of the mining and processing operation. While at this stage the determination of potential environmental impacts, particularly for a greenfields project, may not always be well advanced, the status of early consideration of these potential environmental impacts should be reported. Where these aspects have not been considered this should be reported with an explanation of the environmental assumptions made.	Tailings (the processed clay) are expected to be returned to the mined open pits and areas progressively rehabilitated.
Bulk density	 Whether assumed or determined. If assumed, the basis for the assumptions. If determined, the method used, whether wet or dry, the frequency of the measurements, the nature, size and representativeness of the samples. The bulk density for bulk material must have been measured by methods that adequately account for void spaces (vugs, porosity, etc), moisture and differences between rock and alteration zones within the deposit. Discuss assumptions for bulk density estimates used in the evaluation process of the different materials. 	Bulk density has been determined from 1,826 individual drill core measurements using Archimedes method. Samples were oven dried, weighed, coated with wax then weighed dry and in water using an appropriate analytical balance. Bulk densities for the primary mineralised domains (domain 4, 5, 6 and 7) were estimated using an omnidirectional variogram with soft boundaries following boundary analysis. Densities for the remaining regolith zones were by direct assignment based on reported measurements.
Classification	 The basis for the classification of the Mineral Resources into varying confidence categories. Whether appropriate account has been taken of all relevant factors (ie relative confidence in tonnage/grade estimations, reliability of input data, confidence in continuity of geology and metal values, quality, quantity and distribution of the data). Whether the result appropriately reflects the Competent Person's view of the deposit. 	Classification of the mineral resource considered the interpretation confidence, drilling density, demonstrated continuity, estimation statistics (conditional bias, kriging efficiency) and block model validation results. The assigned Mineral Resource classification reflects the Competent Person's view of the deposit.
Audits or reviews	The results of any audits or reviews of Mineral Resource estimates.	No audits or review have been completed for the Mineral Resource estimate.
Discussion of relative accuracy/ confidence	Where appropriate a statement of the relative accuracy and confidence level in the Mineral Resource estimate using an approach or procedure deemed appropriate by the Competent Person. For example, the application of statistical or geostatistical procedures to quantify the relative accuracy of the resource within stated confidence limits, or, if such an approach is not deemed appropriate, a qualitative discussion of the factors that could affect the relative accuracy and confidence of the estimate.	The relative accuracy of the Mineral Resource estimate is reflected in the reporting of the Mineral Resource as per the guidelines of the 2012 JORC Code. The statement relates to the global estimates of tonnes and grades. No production data is available.
	The statement should specify whether it relates to global or local estimates, and, if local, state the relevant tonnages, which should be	

Criteria	JORC Code explanation	Commentary
	relevant to technical and economic evaluation. Documentation should include assumptions made and the procedures used.	
	These statements of relative accuracy and confidence of the estimate should be compared with production data, where available.	