5 November 2020

TRANCHE 3 DRILLING RESULTS CONFIRM SUBSTANTIAL EXTENSION OF MINERALISATION AT MAKUUTU EASTERN ZONE

- **Tranche 3 assays confirm a major extension of Rare Earth mineralisation to the east of current Mineral Resource tenement**
- **Drill program is testing an area three (3) times the size of the current Mineral Resource Estimate (MRE) area**
- **Results indicate a higher proportion of the strategically important Heavy Rare Earth Oxides (HREO) at Makuutu Eastern Zone**
- **REE clay mineralisation above MRE cut-off grade is reported in 44 of 45 holes, contained within the sedimentary basin that extends further to the east**

Ionic Rare Earths Limited ("**IonicRE**" or "the Company") (ASX: IXR) is pleased to provide an update on the progress of the Phase 2 drill program at its 51% owned Makuutu Rare Earths Project ("**Makuutu**") in Uganda.

Results have been received for drilling in areas H, I & J (Figure 1) with all showing positive results indicating that the next resource upgrade should be substantial. Of particular interest are the results from Area J where drilling shows more kaolin clay development visually in the drill core, and supported by geochemical evaluation, which is a positive indicator for enhanced REE extraction, and a consistent zone of **HREO** that is greater than the existing resource average as a percentage of Total Rare Earth Oxides (**TREO**).

Ionic Rare Earths Chief Executive Officer Mr. Tim Harrison commented:

"These unexpected and material drill assays have identified elevated grades of Heavy Rare Earths across the Eastern Zone. Encouragingly, this is coupled with more kaolin clay which we have previously correlated with above average metallurgical extraction.

This extension of REE clay mineralisation is material on the impact of conversion of the exploration target to a mineral resource. Once again, the radiometric anomalies have been validated by the drill assay results, with the impact of the Karoo Basin margin now tested, this makes us much more confident in converting our exploration target to a mineral resource.

We are very confident of a robust, long life project potential at Makuutu. This extension demonstrates potential for a second processing module over in the eastern zone to further expand the production capacity of Makuutu, with scope to supply a considerable amount of Heavy and Critical Rare Earths, plus scandium, into a market that is exploring options for diversification of supply risk."

Drilling Results

The third tranche of assay results, for the resource expansion program, have been received from Phase 2 drill program which consisted of 3,745 metres of core drilling across the three (3) tenements at Makuutu. The aim of the program was to validate the Company's Exploration Target (set out within), quantify the potential of the 26-kilometre-long Makuutu mineralisation corridor and provide data for an upcoming mineral resource expansion, all of which has proven to be successful.

This drill program tested an area which is three (3) times greater than the area covered by the existing mineral resource estimate and included 68 drill holes across the Makuutu Eastern Zone on Exploration Licence 1766 (EL 1766). These 68 drill holes follow on from the 5 reconnaissance holes drilled in late 2019. The drill assays reported in this tranche cover 45 of the 68 holes and confirm near surface mineralisation above the MRE cut-off grade (300 ppm TREO-Ce_2O_3) in 44 of the 45 holes reported.

The results are from three different target areas as described below and illustrated in Figure 1.

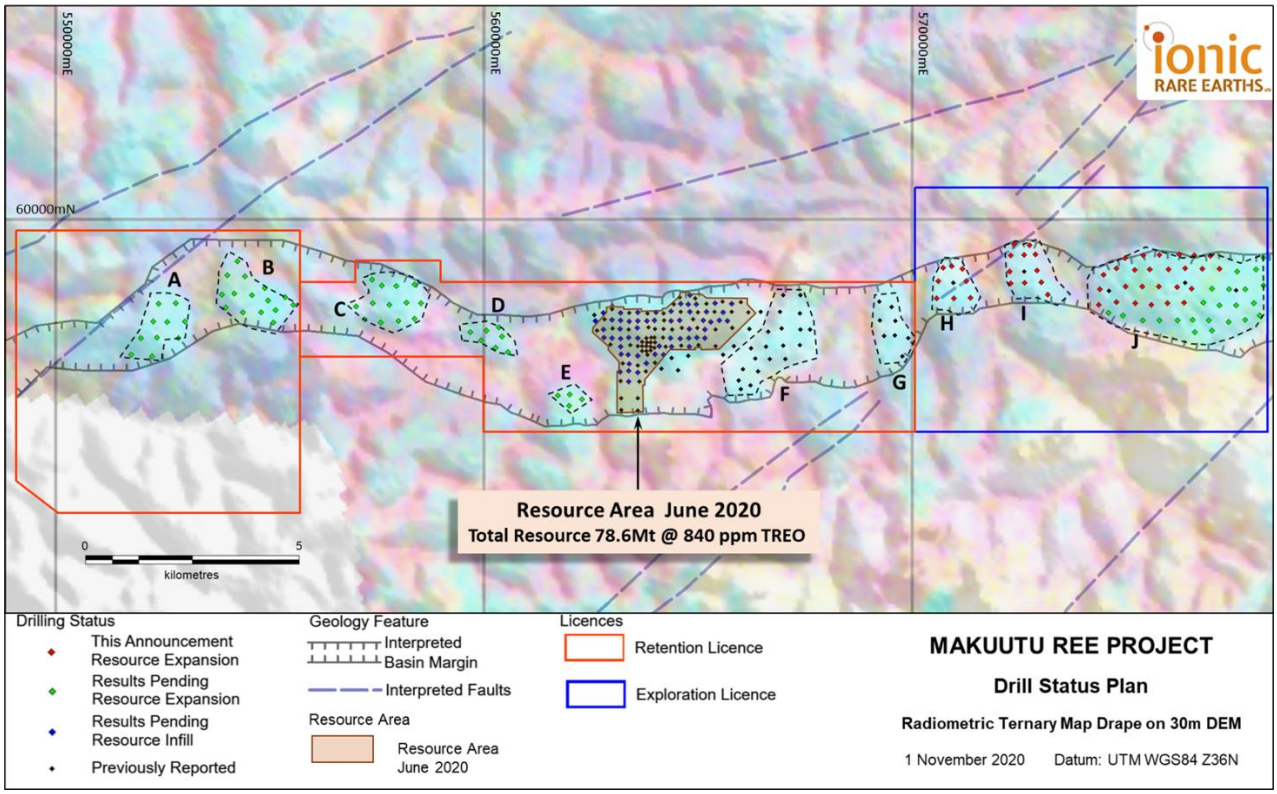

Figure 1: Drill program plan showing drill holes stretching over 26 kilometres across the three tenements at the Makuutu Rare Earths Project with the MRE and target areas.

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Resource Expansion Area H: Eight (8) resource expansion drill holes (RRMDD106 to 113) on a discrete plateau 4.8 kilometres east of the current MRE boundary. The plateau is approximately 1 kilometre long and 800 metres wide. All holes intersected mineralisation above the resource cut-off grade and show near surface mineralisation through the area consistent with the style of the MRE area with notable intersections:

- RRMDD107 4.9 metres at 844 ppm TREO from 3.2 metres
- RRMDD109 3.0 metres at 987 ppm TREO from 5.1 metres
- RRMDD113 4.2 metres at 1,318 ppm TREO from 5.3 metres

Resource Expansion Area I: Eleven (11) resource expansion drill holes (RRMDD114 to 124) on a discrete plateau centered 6.5 kilometers east of the MRE boundary. The plateau is approximately 1.4 kilometres long and 800 metres wide. All holes intersected mineralisation above resource cut-off grade including:

- RRMDD118 3.6 metres at 1,230 ppm TREO from 5.1 metres
- RRMDD119 3.1 metres at 897ppm TREO from 4.8 metres
- RRMDD120 3.4 metres at 853 ppm TREO from 5.2 metres
- RRMDD124 15.7 metres at 537 ppm TREO from 5.7 metres

Mineralised intersection thicknesses in Area I are consistent in style but generally narrower than in the resource area, apart from hole RRMDD124 which contains a thick lower grade intersection with some disruption from sand zones. These sand zones may indicate close proximity to the southern margin of the mineralised sedimentary basin.

Resource Expansion Area J: Twenty-six (26) resource expansion holes (RRMDD125 to 150). These results are from the first systematic 400 metre spaced grid drilling testing a large plateau centered approximately 11 kilometres of the MRE boundary. This large area is approximately 4 kilometres long and 1.5 kilometers wide. Samples from a further twenty-four (24) drill holes are currently being assayed.

The assay results show twenty-five of the holes mineralised above the MRE cut-off grade with an average thickness of mineralised clay of 6.4 metres ranging from 2.6 metres to 11.2 metres and TREO grades ranging from 499 ppm to 879 ppm averaging 636 ppm. Intersections notable for grade and thickness are:

- RRMDD125 9.6 metres at 825 ppm TREO from 4.2 metres
- RRMDD132 3.9 metres at 740 ppm TREO from 3.2 metres
- RRMDD142 5.6 metres at 729 ppm TREO from 4.8 metres
- RRMDD144 9.3 metres at 690 ppm TREO from 4.2 metres
- RRMDD145 5.7 metres at 872ppm TREO from 5.7 metres

A single drillhole (RRMDD149) was unmineralised. The schistose rock intersected indicating it was outside the northern margin of the REE hosting sedimentary basin.

The location and results for these drill holes are shown on the plan of the Makuutu Eastern Zone, Figure 2.

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Two important features of this drilling in Area J are;

1. The drilling shows more kaolin clay development visually in the drill core and supported by geochemical evaluation. The potential that kaolin is the dominant clay type is a positive indicator for REE extraction.
2. A consistent zone of HREO as a percentage of TREO, that is greater than the existing MRE average of 25%. Intercepts in the eastern zone range from 26% to 36% HREO in TREO. Figure 3 shows the %HREO for the intercepts above resource cut-off grade.

Due to elevated demand at analytical laboratories in Western Australia, drill assays have been delayed. IonicRE expect a steady flow of drill assays from now until the end of the year. Assay results for tranches four (4) and four (5) consisting of 61 drill holes are pending.

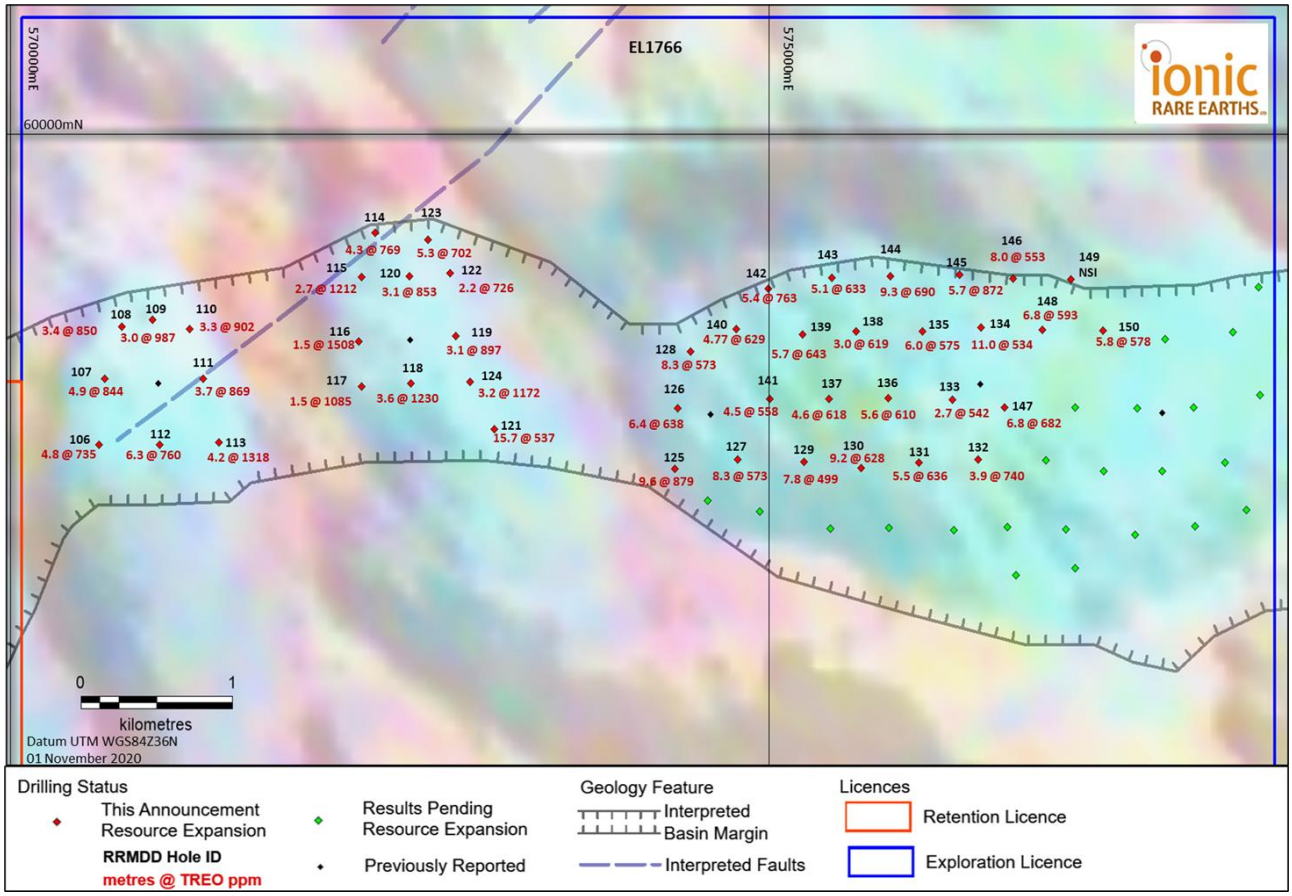

Figure 2: Makuutu Eastern Zone drill plan. Holes RRMDD0106 to 150 highlighted (red).

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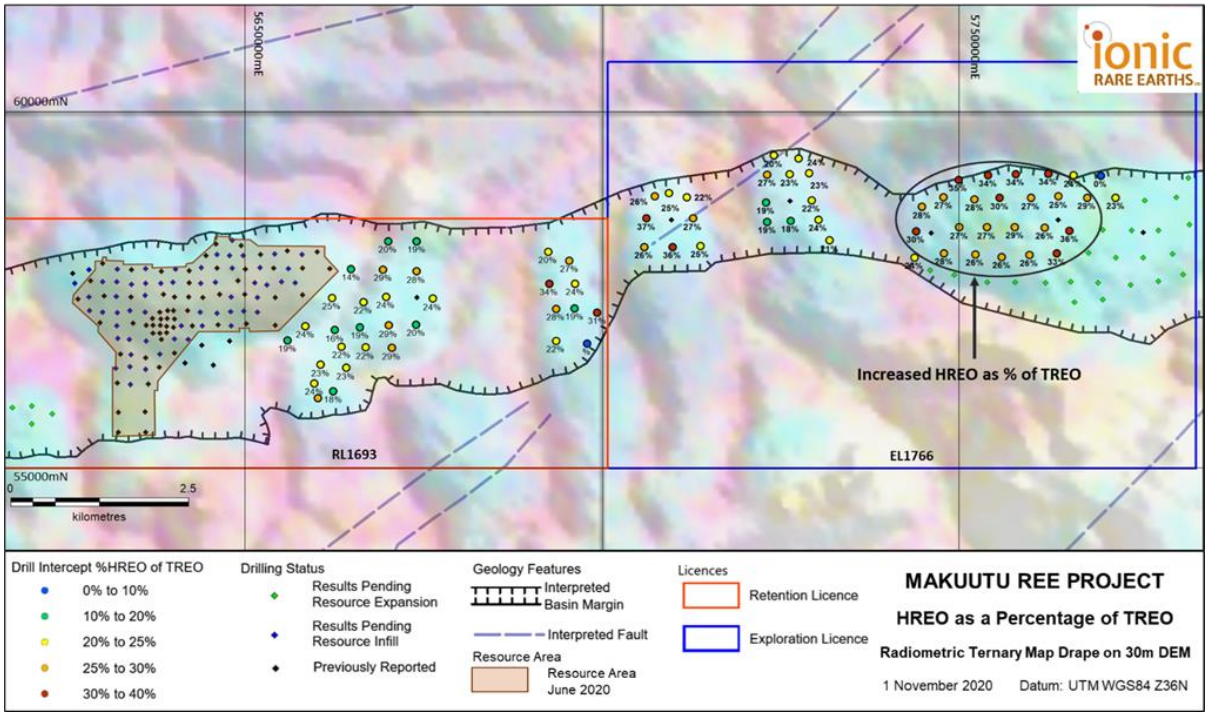

Figure 3: Central and Eastern Zones showing MRE extensional holes highlighting increased HREO as a percentage of TREO in the east.

Drilling Program

The diamond core drilling program, which followed on from the previous drilling program undertaken by the Company in Q1 2020, is illustrated in Figure 1 with Figure 2 showing the results from this announcement. The program consisted of 3,745 metres of drilling from 222 holes with the following objectives:

1) In-fill drilling within the area of the current Mineral Resource (on tenement RL 1693) to assess short range REE grade variability for application to resource grade estimation confidence – *11 drill holes completed and reported 10th September 2020*.

2) Resource extensional drilling to expand the current Mineral Resource area further to the east (on tenement RL 1693) – *37 drill holes completed and reported by 26th September 2020.*

3) Exploration drilling on adjacent tenement EL 1766, or Makuutu Eastern Zone (MEZ) – *68 holes completed. Results for 45 holes in this announcement. Assay results pending for remaining 23 drill holes.*

4) Exploration drilling on adjacent tenement RL 00007, or Makuutu Western Zone (MWZ) – *25 drill holes completed. All drill hole samples arrived in Perth for analysis. Assays pending.*

5) Exploration drilling on the western side of the current Mineral Resource area further to the west (on tenement RL 1693) – *24 drill holes completed. Samples from 13 drill holes arrived in Perth for analysis, remining samples from 13 holes awaiting shipment to Perth.*

6) In-fill drilling within the area of the current Mineral Resource (on tenement RL 1693) to enhance resource grade estimation confidence. – *57 drill holes completed and samples awaiting shipment to Perth.*

This drill program is the largest undertaken on the Project to date, and is a material increase on the previous 990 metres of core drilling which delivered a MRE announced to the ASX on 23rd June 2020 and set out in Table 1, of:

78.6 Million tonnes @ 840 ppm TREO, at a cut-off grade of 300 ppm TREO-Ce_2O_3

The current drill program has tested the 26-kilometre-long Makuutu mineralisation corridor with the initial Exploration Target* of **270 – 530 million tonnes grading 0.04 – 0.1%** (400 – 1,000 ppm) TREO as announced to the ASX on 4th September 2019.

> ***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.

Remaining field work over the coming fortnight includes dispatch of final sample batches for analysis in Perth, drill site rehabilitation, accurate drill collar location surveys and insitu bulk density testwork.

Mineral Resource Update

A Mineral Resource Estimate update is scheduled to be conducted once all drill hole assays have been reported. It is expected all drill hole assay data will be received by the end of 2020, with the MRE update nominally in early Q1 2021. The drill assay data received remains in line with expectations regarding the Exploration Target basis.

Makuutu Rare Earths Project Status

IonicRE can confirm that the technical and economic study was submitted to the Ugandan Directorate of Geological Survey and Mines ("DGSM") on Wednesday 28th October 2020, meeting the deadline for the submission for the renewal application of the Retention Licence No 1693 by 1 November 2020. The timing on advice from the DGSM on the outcome of the renewal application is expected within 45 days as outlined within the Ugandan Mining Regulations 2019.

The renewal will extend RL 1693 for a further 2 years during which time a Mining Lease Application must be submitted by the Company, supported by a Feasibility Study and Environmental and Social Impact Assessment (ESIA) Study.

IonicRE can confirm that it has elected to progress both items and is now planning this next phase of development for the Makuutu Rare Earths Project, and will be examining options to accelerate development of the project to commercial production in a timely manner.

Table 1: Makuutu Resource above 300ppm TREO-Ce2O3 Cut-off Grade.

Resource Classification	Tonnes (millions)	TREO (ppm)	TREO-Ce_2O_3 (ppm)	LREO (ppm)	HREO (ppm)	CREO (ppm)
Indicated Resource	9.5	750	520	550	200	280
Inferred Resource	69.1	860	620	640	210	320
Total Resource	**78.6**	**840**	**610**	**630**	**210**	**310**

Rounding has been applied to 0.1Mt and 10ppm which may influence grade average calculations.

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Table 2: Makuutu Rare Earths Project Core Hole Details This Announcement (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
RRMDD106	570587	58120	1111	HQ DD	15.50	0	-90
RRMDD107	570623	58519	1106	HQ DD	10.60	0	-90
RRMDD108	570736	58833	1096	HQ DD	11.00	0	-90
RRMDD109	570937	58873	1094	HQ DD	10.70	0	-90
RRMDD110	571185	58818	1092	HQ DD	10.70	0	-90
RRMDD111	571272	58518	1098	HQ DD	12.00	0	-90
RRMDD112	570986	58117	1108	HQ DD	21.00	0	-90
RRMDD113	571374	58133	1103	HQ DD	11.30	0	-90
RRMDD114	572404	59403	1106	HQ DD	10.40	0	-90
RRMDD115	572314	59132	1105	HQ DD	8.50	0	-90
RRMDD116	572296	58745	1107	HQ DD	6.50	0	-90
RRMDD117	572315	58471	1107	HQ DD	7.40	0	-90
RRMDD118	572640	58487	1103	HQ DD	11.20	0	-90
RRMDD119	572934	58774	1102	HQ DD	10.50	0	-90
RRMDD120	572631	59136	1104	HQ DD	16.80	0	-90
RRMDD121	573190	58211	1117	HQ DD	24.60	0	-90
RRMDD122	572897	59155	1104	HQ DD	8.30	0	-90
RRMDD123	572753	59358	1105	HQ DD	11.50	0	-90
RRMDD124	573031	58500	1112	HQ DD	7.20	0	-90
RRMDD126	574398	58337	1115	HQ DD	25.10	0	-90
RRMDD127	574792	58030	1123	HQ DD	15.00	0	-90
RRMDD128	574483	58680	1114	HQ DD	16.00	0	-90
RRMDD129	575231	58015	1131	HQ DD	17.50	0	-90
RRMDD130	575603	57976	1132	HQ DD	17.30	0	-90
RRMDD131	575987	58010	1139	HQ DD	11.70	0	-90
RRMDD132	576375	58027	1143	HQ DD	8.00	0	-90
RRMDD133	576206	58389	1147	HQ DD	12.70	0	-90
RRMDD134	576395	58827	1148	HQ DD	20.00	0	-90
RRMDD135	576010	58805	1142	HQ DD	20.90	0	-90
RRMDD136	575785	58399	1139	HQ DD	12.20	0	-90
RRMDD137	575392	58393	1131	HQ DD	16.00	0	-90
RRMDD138	575571	58805	1135	HQ DD	11.00	0	-90
RRMDD139	575220	58786	1127	HQ DD	9.60	0	-90
RRMDD140	574784	58819	1118	HQ DD	13.00	0	-90
RRMDD141	575004	58393	1127	HQ DD	18.00	0	-90
RRMDD142	574996	59062	1112	HQ DD	18.00	0	-90
RRMDD143	575412	59127	1117	HQ DD	14.20	0	-90
RRMDD144	575798	59139	1123	HQ DD	18.50	0	-90
RRMDD145	576252	59147	1128	HQ DD	20.00	0	-90
RRMDD146	576607	59123	1140	HQ DD	22.50	0	-90
RRMDD147	576551	58345	1140	HQ DD	18.00	0	-90
RRMDD148	576799	58811	1137	HQ DD	18.00	0	-90
RRMDD149	576988	59118	1137	HQ DD	27.40	0	-90
RRMDD150	577198	58810	1133	HQ DD	19.00	0	-90

Authorised for release by Brett Dickson, Company Secretary.

***** ENDS *****

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Competent Person Statements

The information in this Report that relates to Exploration Results 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 Targets and Exploration Results has been crossed-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 Mineral Resources for the Makuutu Rare Earths deposit was first released to the ASX on 23 June 2020 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 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.

Appendix 1: Diamond Core Drilling Analytical Results RRMDD106 to RRMDD150 Including Highlighted Intersections >300 ppm TREO-Ce_2O_3 (Note: Rounding will cause minor value differences)

																					>300ppm TREO-Ce_2O_3 Interval	
Hole ID	From m	To m	Int.	La_2O_3 ppm	Ce_2O_3 ppm	Pr_2O_3 ppm	Nd_2O_3 ppm	Sm_2O_3 ppm	Eu_2O_3 ppm	Gd_2O_3 ppm	Tb_2O_3 ppm	Dy_2O_3 ppm	Ho_2O_3 ppm	Er_2O_3 ppm	Tm_2O_3 ppm	Yb_2O_3 ppm	Lu_2O_3 ppm	Y_2O_3 ppm	TREO ppm	Regolith Zone	Length (m)	TREO ppm
RRMDD106	0.0	0.6	0.6	77.8	345.5	17.1	64.2	11.9	2.0	9.8	1.6	9.4	1.9	5.9	0.8	1.6	0.9	55.7	606	Soil		
RRMDD106	0.6	1.3	0.7	67.3	1077.6	12.5	43.4	7.9	1.2	5.8	1.1	6.1	1.2	3.9	0.6	1.1	0.6	34.5	1265	Hardcap		
RRMDD106	1.3	1.9	0.6	89.1	1833.1	16.7	58.3	10.5	1.7	7.6	1.4	7.7	1.5	4.8	0.7	1.4	0.7	39.5	2075	Hardcap		
RRMDD106	1.9	2.8	0.9	97.6	893.7	20.9	77.1	13.5	2.2	9.9	1.7	9.6	2.0	5.9	0.9	1.7	0.9	55.9	1193	Transition		
RRMDD106	2.8	3.7	0.9	92.3	467.3	19.1	70.9	11.9	2.0	9.3	1.4	8.9	1.8	5.3	0.8	1.4	0.8	51.8	745	Transition		
RRMDD106	3.7	4.7	1.0	87.0	390.0	18.1	67.5	11.7	2.0	9.0	1.5	9.1	1.9	5.8	0.9	1.5	0.9	56.4	663	Transition		
RRMDD106	4.7	5.7	1.0	69.7	185.1	14.7	52.4	9.3	1.6	7.7	1.2	7.4	1.4	4.6	0.7	1.2	0.7	44.8	402	Mottled		
RRMDD106	5.7	6.6	0.9	66.4	107.9	14.0	51.7	8.8	1.6	7.8	1.2	6.9	1.5	4.7	0.7	1.2	0.6	46.6	321	Mottled		
RRMDD106	6.6	7.2	0.6	136.0	153.4	32.9	119.6	20.4	3.3	13.9	2.0	11.9	2.3	6.8	0.9	2.0	1.0	69.2	576	Mottled		
RRMDD106	7.2	7.7	0.5	144.3	196.2	37.7	134.7	23.4	3.8	16.4	2.1	11.9	2.3	6.8	0.9	2.1	0.9	66.4	650	Mottled		
RRMDD106	7.7	8.8	1.1	134.3	192.7	37.8	141.1	23.9	3.8	14.7	2.1	12.2	2.3	6.6	0.9	2.1	0.9	71.1	647	Clay		
RRMDD106	8.8	9.8	1.0	152.5	253.0	42.6	154.5	29.0	4.6	20.2	2.8	16.0	3.0	8.8	1.3	2.8	1.1	89.8	782	Clay		
RRMDD106	9.8	10.5	0.7	242.8	295.2	67.1	260.1	48.1	8.5	38.4	5.2	30.4	5.5	15.3	2.0	5.1	1.7	170.2	1196	Upper Saprolite		
RRMDD106	10.5	11.2	0.7	130.2	188.0	32.9	132.4	27.9	5.5	27.1	3.9	23.3	4.5	13.3	1.7	3.9	1.4	154.9	751	Upper Saprolite	**4.8**	**735**
RRMDD106	11.2	12.0	0.8	79.5	179.2	19.4	71.4	13.5	2.7	11.5	1.6	10.5	1.9	5.7	0.8	1.6	0.6	59.1	459	Lower Saprolite		
RRMDD106	12.0	12.8	0.8	67.6	157.0	17.1	64.6	13.0	2.5	10.9	1.6	9.8	1.9	6.0	0.8	1.6	0.9	58.0	413	Lower Saprolite		
RRMDD106	12.8	13.6	0.8	63.6	141.7	16.2	64.0	13.2	2.7	11.3	1.7	10.8	2.2	6.9	0.9	1.7	0.8	63.2	401	Lower Saprolite		
RRMDD106	13.6	14.1	0.5	66.6	154.6	16.2	58.6	11.0	2.0	8.4	1.2	7.6	1.5	4.6	0.6	1.2	0.6	42.0	377	Lower Saprolite		
RRMDD106	14.1	15.1	0.9	67.8	150.5	16.1	60.7	11.2	2.1	8.9	1.4	8.3	1.7	5.0	0.7	1.4	0.6	49.5	386	Saprock		
RRMDD106	15.1	15.5	0.4	67.9	140.0	15.1	53.7	10.1	1.9	8.2	1.2	7.0	1.4	4.3	0.6	1.2	0.5	41.5	355	Fresh Rock		
RRMDD107	0.0	0.4	0.4	91.6	397.1	18.5	68.6	12.2	2.0	9.5	1.6	9.1	1.9	5.4	0.8	1.6	0.8	55.9	677	Soil		
RRMDD107	0.4	1.3	0.9	77.8	994.4	16.0	58.6	10.5	1.7	7.8	1.3	7.5	1.5	4.6	0.7	1.3	0.7	39.5	1224	Hardcap		
RRMDD107	1.3	2.3	0.9	112.1	421.7	22.5	77.6	12.8	2.2	8.8	1.4	8.4	1.7	5.1	0.8	1.4	0.8	46.7	724	Transition		
RRMDD107	2.3	3.2	1.0	133.1	217.9	28.3	95.6	16.1	2.9	13.0	1.9	11.1	2.2	7.0	0.9	1.9	1.0	65.1	598	Transition		
RRMDD107	3.2	4.2	1.0	110.0	210.2	24.6	86.5	15.8	2.8	12.6	1.9	11.5	2.3	6.7	0.9	1.9	0.9	71.7	561	Pallid		
RRMDD107	4.2	5.2	1.0	168.3	272.9	61.0	253.1	51.5	9.3	40.6	5.5	29.7	5.5	14.7	1.9	5.5	1.8	161.3	1083	Pallid		
RRMDD107	5.2	6.2	1.0	202.3	267.1	82.3	366.2	78.5	14.7	75.7	10.9	65.2	12.8	34.4	4.7	10.8	4.4	425.4	1655	Pallid		
RRMDD107	6.2	7.3	1.1	106.4	188.0	31.7	133.0	29.8	6.2	32.8	4.7	30.0	5.9	17.4	2.4	4.7	2.3	194.9	790	Pallid		
RRMDD107	7.3	8.0	0.7	94.4	182.7	23.8	96.3	19.9	3.9	23.6	3.2	19.3	4.4	13.1	1.7	3.2	1.7	187.9	679	Pallid		
RRMDD107	8.0	8.6	0.6	90.8	185.7	21.7	79.7	14.1	2.5	11.0	1.4	7.7	1.5	4.2	0.6	1.4	0.5	65.9	489	Upper Saprolite	**4.9**	**844**
RRMDD107	8.6	9.6	1.0	82.0	165.7	18.6	69.5	13.6	2.4	10.9	1.5	8.9	1.6	4.9	0.6	1.5	0.5	50.0	432	Saprock		
RRMDD107	9.6	10.6	1.0	77.6	160.5	18.4	65.4	12.1	2.1	9.5	1.3	7.1	1.3	3.8	0.5	1.3	0.5	40.5	402	Saprock		
RRMDD108	0.0	0.5	0.5	90.8	152.9	17.6	63.3	10.9	1.8	8.5	1.4	8.5	1.8	5.8	0.8	1.3	0.9	53.5	420	Soil		
RRMDD108	0.5	1.5	1.0	76.5	331.5	14.5	50.6	9.4	1.5	6.5	1.1	6.8	1.4	4.2	0.6	1.1	0.6	35.8	542	Hardcap		
RRMDD108	1.5	2.5	1.0	96.2	486.1	19.8	70.6	12.4	2.1	8.9	1.5	8.6	1.8	5.2	0.9	1.5	0.8	43.9	760	Hardcap		
RRMDD108	2.5	3.6	1.1	123.7	404.1	25.0	90.2	15.2	2.4	10.5	1.7	10.3	2.1	6.4	1.0	1.7	1.0	57.5	753	Transition		
RRMDD108	3.6	4.5	0.9	102.3	284.6	20.9	70.2	13.0	1.9	9.9	1.5	9.4	1.9	5.9	0.9	1.5	0.9	54.9	580	Clay		
RRMDD108	4.5	5.6	1.1	80.9	125.9	17.7	63.5	11.0	1.9	9.2	1.5	8.8	1.8	5.9	0.8	1.4	0.8	52.2	383	Clay		
RRMDD108	5.6	6.5	1.0	182.4	210.8	35.9	121.9	20.4	3.5	15.4	2.3	15.4	3.3	10.5	1.5	2.3	1.2	97.5	724	Upper Saprolite		
RRMDD108	6.5	7.3	0.7	200.5	268.2	51.7	187.2	31.1	5.0	22.0	2.9	16.7	3.1	9.0	1.3	2.9	1.1	85.3	888	Upper Saprolite		
RRMDD108	7.3	8.0	0.7	229.9	240.1	63.5	233.3	39.2	6.5	29.5	3.8	21.7	3.9	11.4	1.5	3.8	1.3	112.9	1002	Upper Saprolite		
RRMDD108	8.0	9.0	1.0	188.8	185.1	38.0	147.0	26.8	4.8	24.9	3.5	20.9	4.3	11.7	1.7	3.4	1.4	170.8	833	Lower Saprolite	**3.4**	**850**

																				>300ppm TREO-Ce_2O_3 Interval	
Hole ID	From m	To m	Int.	La_2O_3 ppm	Ce_2O_3 ppm	Pr_2O_3 ppm	Nd_2O_3 ppm	Sm_2O_3 ppm	Eu_2O_3 ppm	Gd_2O_3 ppm	Tb_2O_3 ppm	Dy_2O_3 ppm	Ho_2O_3 ppm	Er_2O_3 ppm	Tm_2O_3 ppm	Yb_2O_3 ppm	Lu_2O_3 ppm	Y_2O_3 ppm	TREO ppm	Regolith Zone	Length (m)	TREO ppm
RRMDD108	9.0	10.0	1.0	73.3	159.3	17.7	66.6	13.6	2.5	11.0	1.7	10.2	2.0	5.4	0.8	1.7	0.7	63.2	430	Saprock		
RRMDD108	10.0	11.0	1.0	94.8	206.1	21.9	77.4	13.7	2.3	9.7	1.4	7.9	1.5	4.0	0.6	1.4	0.5	46.0	489	Saprock		
RRMDD109	0.0	0.3	0.3	61.0	134.7	11.8	40.4	7.5	1.3	5.6	0.9	5.8	1.1	3.7	0.6	0.9	0.6	32.8	309	Soil		
RRMDD109	0.3	1.0	0.7	64.2	145.8	12.4	44.7	8.1	1.3	5.5	0.9	5.5	1.1	3.2	0.5	0.9	0.5	26.7	321	Hardcap		
RRMDD109	1.0	1.9	0.9	63.4	304.5	12.1	42.8	7.9	1.3	5.4	0.9	5.5	1.1	3.6	0.5	0.9	0.6	29.0	479	Hardcap		
RRMDD109	1.9	2.8	0.9	66.7	659.4	15.0	54.7	10.1	1.7	7.2	1.3	7.1	1.4	4.5	0.7	1.3	0.7	35.3	867	Hardcap		
RRMDD109	2.8	3.7	0.9	83.4	839.8	19.3	69.2	12.6	2.0	8.5	1.5	8.6	1.7	4.9	0.8	1.5	0.8	40.9	1095	Hardcap		
RRMDD109	3.7	4.4	0.7	86.8	670.0	19.3	68.5	11.8	1.9	8.7	1.6	8.8	1.8	5.4	0.9	1.5	0.9	46.5	934	Transition		
RRMDD109	4.4	5.1	0.7	103.4	60.7	20.2	71.0	12.1	1.9	9.2	1.4	8.4	1.7	4.8	0.8	1.4	0.8	54.9	353	Clay		
RRMDD109	5.1	6.1	1.1	214.6	283.5	42.0	147.0	25.9	4.4	19.1	2.7	15.1	2.8	7.4	1.1	2.7	1.0	85.5	854	Upper Saprolite		
RRMDD109	6.1	7.0	0.9	403.4	305.7	88.1	325.4	56.9	10.1	50.6	6.8	38.2	7.6	20.0	2.7	6.7	2.4	283.2	1608	Upper Saprolite		
RRMDD109	7.0	8.0	1.0	135.5	216.1	24.9	90.4	15.5	2.5	10.8	1.4	7.7	1.4	3.7	0.5	1.4	0.5	57.7	570	Upper Saprolite	**3.0**	**987**
RRMDD109	8.0	8.8	0.8	78.2	166.3	17.7	63.6	11.0	1.9	7.7	1.0	5.8	1.1	3.0	0.5	1.0	0.5	33.7	393	Lower Saprolite		
RRMDD109	8.8	9.5	0.7	66.3	155.8	16.9	65.3	14.1	2.6	11.8	1.8	10.7	2.0	5.5	0.8	1.8	0.8	69.0	425	Saprock		
RRMDD109	9.5	10.1	0.6	75.8	172.8	17.8	64.9	12.2	2.2	8.8	1.2	6.9	1.2	3.2	0.5	1.2	0.4	38.1	407	Saprock		
RRMDD109	10.5	10.7	0.2	78.9	178.6	18.3	65.0	11.6	2.0	8.0	1.1	6.0	1.1	2.9	0.4	1.1	0.4	32.6	408	Fresh Rock		
RRMDD110	0.0	0.8	0.8	52.0	249.5	10.3	37.6	7.0	1.1	5.5	0.9	6.0	1.2	4.0	0.6	0.9	0.6	33.7	411	Soil		
RRMDD110	0.8	1.5	0.8	53.9	339.7	10.8	38.8	7.4	1.3	5.6	1.0	6.1	1.3	3.8	0.6	1.0	0.6	33.0	505	Hardcap		
RRMDD110	1.5	2.3	0.8	48.7	254.2	9.7	34.8	6.7	1.0	5.1	1.0	5.7	1.2	3.5	0.6	0.9	0.5	30.9	404	Hardcap		
RRMDD110	2.3	3.1	0.8	59.6	258.9	11.7	42.0	7.9	1.2	5.9	1.0	6.2	1.2	3.9	0.6	1.0	0.6	35.2	437	Hardcap		
RRMDD110	3.1	4.0	0.9	57.3	808.2	12.5	44.8	8.5	1.4	6.1	1.1	6.4	1.3	4.2	0.7	1.1	0.7	33.4	988	Hardcap		
RRMDD110	4.0	4.4	0.4	89.6	1979.5	23.1	82.3	15.7	2.3	9.9	1.9	9.8	1.9	5.6	0.9	1.8	0.9	46.4	2271	Transition		
RRMDD110	4.4	5.1	0.7	141.9	401.8	31.2	110.0	19.2	3.1	14.1	2.1	12.1	2.3	6.5	0.9	2.1	0.9	69.1	817	Clay		
RRMDD110	5.1	5.8	0.7	499.6	229.0	109.0	372.1	58.4	8.8	38.5	4.9	25.2	4.3	10.8	1.5	4.8	1.2	134.6	1503	Clay		
RRMDD110	5.8	6.0	0.3	245.1	188.0	47.9	167.4	26.2	4.2	19.2	2.5	13.1	2.4	6.2	0.9	2.5	0.7	76.3	803	Clay		
RRMDD110	6.0	6.6	0.6	288.5	181.6	56.5	210.5	36.1	6.3	33.2	4.5	26.3	5.3	14.4	1.9	4.5	1.7	201.3	1072	Upper Saprolite		
RRMDD110	6.6	6.9	0.3	145.4	176.9	25.6	94.5	15.7	2.6	13.9	1.7	9.9	2.1	5.7	0.8	1.7	0.7	102.5	600	Lower Saprolite		
RRMDD110	6.9	7.7	0.8	111.8	186.2	21.2	75.7	13.0	2.4	10.4	1.4	7.7	1.5	4.2	0.6	1.4	0.5	70.9	509	Lower Saprolite	**3.3**	**902**
RRMDD110	7.7	8.5	0.8	97.9	217.3	22.7	81.1	14.6	2.6	10.4	1.4	7.3	1.3	3.5	0.5	1.4	0.5	40.0	503	Lower Saprolite		
RRMDD110	8.5	9.3	0.8	89.6	197.4	20.9	73.2	12.6	2.1	8.3	1.1	5.9	1.1	2.8	0.4	1.1	0.4	32.8	450	Saprock		
RRMDD110	9.3	10.0	0.7	72.7	159.9	17.3	62.3	11.3	2.1	8.1	1.1	5.9	1.1	2.9	0.4	1.1	0.4	33.4	380	Saprock		
RRMDD110	10.0	10.7	0.7	63.4	144.1	14.9	55.1	10.9	2.0	8.5	1.2	6.4	1.3	3.5	0.5	1.2	0.5	40.0	353	Saprock		
RRMDD111	0.0	0.3	0.3	84.0	410.0	16.8	63.0	11.3	1.9	8.7	1.5	8.7	1.8	5.7	0.9	1.5	0.9	54.2	671	Soil		
RRMDD111	0.3	1.2	0.9	70.5	582.1	13.3	47.2	8.6	1.5	7.1	1.3	7.4	1.5	4.4	0.7	1.3	0.7	38.9	787	Soil		
RRMDD111	1.2	2.2	1.0	72.4	586.8	13.8	50.0	9.8	1.6	7.5	1.3	7.4	1.5	4.4	0.7	1.3	0.7	40.5	799	Hardcap		
RRMDD111	2.2	3.2	1.0	68.4	904.2	13.5	49.0	9.5	1.6	7.0	1.3	7.5	1.4	4.5	0.7	1.3	0.7	38.2	1109	Hardcap		
RRMDD111	3.2	4.3	1.1	90.0	1270.9	18.0	59.0	10.6	1.9	8.7	1.5	8.8	1.7	5.3	0.9	1.5	0.9	43.2	1523	Transition		
RRMDD111	4.3	5.2	0.9	96.6	420.5	17.4	56.2	10.1	1.7	8.3	1.3	8.1	1.7	5.2	0.9	1.3	0.9	47.5	678	Clay		
RRMDD111	5.2	5.6	0.4	77.3	727.4	17.5	61.0	11.7	2.0	9.6	1.6	9.5	2.0	5.9	0.9	1.6	0.9	47.5	976	Clay		
RRMDD111	5.6	6.7	1.1	86.1	281.1	16.6	55.3	10.0	1.7	7.7	1.2	7.8	1.6	4.8	0.8	1.2	0.8	47.1	524	Clay		
RRMDD111	6.7	7.7	1.0	187.1	287.0	38.4	128.9	21.7	3.6	14.8	2.2	12.5	2.5	7.3	1.1	2.2	1.1	74.4	785	Clay		
RRMDD111	7.7	8.6	0.9	240.4	250.7	61.0	218.7	38.6	6.5	27.0	3.8	21.1	3.9	11.1	1.7	3.7	1.5	119.9	1010	Clay		
RRMDD111	8.6	9.5	0.9	135.5	246.0	34.2	128.9	24.1	4.2	19.0	2.9	16.9	3.4	9.4	1.4	2.9	1.3	105.5	735	Upper Saprolite		
RRMDD111	9.5	10.3	0.8	171.2	178.6	42.7	174.4	34.0	6.7	36.3	5.2	31.9	6.8	19.6	2.8	5.2	2.4	241.9	960	Upper Saprolite	**3.7**	**869**
RRMDD111	10.3	11.3	1.0	71.1	164.0	16.7	60.9	11.8	2.4	10.3	1.6	10.8	2.4	7.7	1.2	1.6	1.2	81.5	445	Saprock		
RRMDD111	11.3	12.0	0.7	74.5	163.4	16.7	58.1	10.6	1.9	8.0	1.1	5.9	1.1	3.0	0.5	1.1	0.5	34.3	380	Saprock		
RRMDD112	0.0	0.3	0.3	66.5	510.7	13.4	46.0	9.4	1.5	7.6	1.2	7.3	1.5	4.7	0.7	1.2	0.8	41.9	714	Soil		

																					>300ppm TREO-Ce_2O_3 Interval	
Hole ID	From m	To m	Int.	La_2O_3 ppm	Ce_2O_3 ppm	Pr_2O_3 ppm	Nd_2O_3 ppm	Sm_2O_3 ppm	Eu_2O_3 ppm	Gd_2O_3 ppm	Tb_2O_3 ppm	Dy_2O_3 ppm	Ho_2O_3 ppm	Er_2O_3 ppm	Tm_2O_3 ppm	Yb_2O_3 ppm	Lu_2O_3 ppm	Y_2O_3 ppm	TREO ppm	Regolith Zone	Length (m)	TREO ppm
RRMDD112	0.3	1.1	0.8	52.9	578.6	9.9	33.8	6.9	1.2	5.6	1.0	5.9	1.2	3.7	0.6	1.0	0.6	32.9	736	Hardcap		
RRMDD112	1.1	1.9	0.8	55.6	672.3	11.0	37.7	7.5	1.3	6.3	1.1	6.6	1.3	4.0	0.7	1.1	0.7	34.2	841	Hardcap		
RRMDD112	1.9	2.9	1.0	75.8	538.8	13.2	42.7	8.1	1.4	6.4	1.1	6.4	1.2	3.8	0.7	1.1	0.6	33.1	734	Hardcap		
RRMDD112	2.9	3.8	0.9	117.3	237.8	21.9	70.9	11.6	2.0	9.3	1.4	8.7	1.8	5.3	0.9	1.4	0.8	51.2	542	Transition		
RRMDD112	3.8	4.3	0.5	112.8	242.5	20.8	68.2	11.3	2.0	9.2	1.4	8.7	1.8	5.6	0.9	1.4	0.9	58.8	546	Mottled		
RRMDD112	4.3	4.9	0.6	158.9	216.1	24.6	75.6	11.8	2.0	8.9	1.4	8.2	1.7	5.0	0.8	1.4	0.8	53.7	571	Mottled		
RRMDD112	4.9	5.9	1.0	173.6	235.4	28.6	85.1	12.5	2.1	9.0	1.3	8.5	1.7	5.5	0.8	1.3	0.9	49.8	616	Pallid		
RRMDD112	5.9	6.8	0.9	129.6	188.6	24.0	75.1	11.2	1.8	8.2	1.1	6.9	1.5	4.5	0.7	1.1	0.7	41.3	496	Pallid	**3.0**	**558**
RRMDD112	6.8	7.7	0.9	83.7	131.2	16.2	51.7	9.0	1.7	7.6	1.1	6.8	1.4	4.5	0.7	1.1	0.8	43.7	361	Pallid		
RRMDD112	7.7	8.6	0.9	44.1	113.6	10.7	40.8	8.4	1.7	8.2	1.2	8.4	1.7	5.3	0.8	1.2	0.8	50.9	298	Pallid		
RRMDD112	8.6	9.4	0.8	70.7	135.3	19.0	76.4	15.6	2.9	13.7	1.9	12.3	2.5	7.7	1.1	1.9	1.1	71.6	434	Pallid		
RRMDD112	9.4	10.2	0.8	189.4	285.8	39.8	140.0	23.5	4.2	18.2	2.6	14.4	2.9	8.9	1.3	2.5	1.2	84.1	819	Pallid		
RRMDD112	10.2	10.9	0.7	127.8	332.6	35.9	141.1	26.8	4.8	21.1	2.8	16.6	3.1	9.8	1.3	2.8	1.2	96.1	824	Pallid		
RRMDD112	10.9	11.9	0.9	74.2	173.4	19.3	76.0	14.9	3.0	14.0	2.0	12.4	2.5	7.6	1.1	1.9	1.0	73.5	477	Pallid		
RRMDD112	11.9	12.8	0.9	107.8	231.3	30.0	121.3	25.3	4.7	22.6	3.1	18.1	3.4	10.1	1.5	3.1	1.4	98.3	682	Pallid		
RRMDD112	12.8	13.7	0.9	114.0	242.5	32.2	131.2	28.8	5.8	30.5	4.5	29.5	6.0	18.8	2.5	4.5	2.3	193.7	847	Pallid		
RRMDD112	13.7	14.7	1.0	89.8	197.9	28.3	137.1	37.6	9.0	56.5	8.6	58.6	12.7	39.8	5.3	8.6	4.6	473.7	1168	Pallid		
RRMDD112	14.7	15.7	1.0	88.8	183.3	20.7	79.2	15.1	2.9	14.3	2.0	11.9	2.4	7.2	1.0	1.9	1.0	73.9	506	Pallid	**6.3**	**760**
RRMDD112	15.7	16.6	0.9	81.7	179.2	19.3	69.5	13.8	2.5	11.9	1.7	10.3	2.1	6.6	0.9	1.6	0.9	71.1	473	Upper Saprolite		
RRMDD112	16.6	17.4	0.7	71.2	152.9	17.4	65.4	13.5	2.7	11.7	1.7	11.4	2.2	6.7	0.9	1.7	0.9	63.0	423	Lower Saprolite		
RRMDD112	17.4	18.0	0.6	69.2	152.3	15.8	58.1	10.8	2.0	8.7	1.2	7.2	1.3	4.0	0.5	1.2	0.5	37.2	370	Lower Saprolite		
RRMDD112	18.0	18.8	0.8	72.5	155.8	17.0	62.1	11.5	2.2	8.9	1.2	7.4	1.4	4.0	0.6	1.2	0.5	40.1	386	Lower Saprolite		
RRMDD112	18.8	19.5	0.7	75.1	168.1	18.1	66.5	12.5	2.3	10.5	1.5	8.6	1.8	5.1	0.8	1.4	0.7	52.8	426	Saprock		
RRMDD112	19.5	20.2	0.7	72.6	158.1	17.2	65.6	12.2	2.3	9.4	1.4	8.8	1.6	4.8	0.6	1.4	0.7	48.4	405	Saprock		
RRMDD112	20.2	21.0	0.8	68.5	146.4	15.8	57.4	10.9	2.1	8.1	1.1	6.9	1.2	3.7	0.5	1.1	0.5	35.9	360	Saprock		
RRMDD113	0.0	0.3	0.3	79.9	299.9	16.3	56.2	10.5	1.7	9.2	1.4	8.8	1.7	5.3	0.8	1.4	0.8	51.2	545	Soil		
RRMDD113	0.3	1.3	1.0	56.5	402.9	11.3	38.7	7.7	1.3	6.6	1.1	6.3	1.3	3.8	0.6	1.1	0.6	34.7	574	Hardcap		
RRMDD113	1.3	2.2	0.9	58.4	515.4	11.8	40.1	7.7	1.3	6.8	1.1	6.7	1.4	3.9	0.6	1.1	0.6	36.2	693	Hardcap		
RRMDD113	2.2	3.3	1.1	53.7	1044.8	10.2	33.1	6.0	1.1	4.9	0.9	4.8	1.1	3.1	0.5	0.9	0.5	27.2	1193	Hardcap		
RRMDD113	3.3	4.5	1.2	67.1	802.3	13.6	47.1	8.3	1.4	6.7	1.1	6.3	1.3	3.9	0.6	1.1	0.6	34.9	996	Hardcap		
RRMDD113	4.5	5.3	0.8	82.1	333.8	17.4	62.4	11.1	1.8	9.2	1.4	8.6	1.8	5.3	0.8	1.3	0.8	56.6	594	Clay		
RRMDD113	5.3	6.1	0.8	133.7	332.6	31.4	109.9	18.8	3.1	13.9	2.1	12.5	2.3	7.1	1.0	2.0	0.9	71.0	742	Clay		
RRMDD113	6.1	6.6	0.6	312.0	218.4	81.9	285.8	47.9	7.8	32.6	4.2	22.7	3.9	11.2	1.5	4.2	1.2	109.3	1145	Clay		
RRMDD113	6.6	7.3	0.6	144.8	845.7	34.6	123.6	21.3	3.4	15.2	2.2	12.7	2.5	7.0	1.0	2.2	0.9	67.8	1285	Clay		
RRMDD113	7.3	8.1	0.8	433.9	267.1	119.4	418.7	71.0	12.5	53.3	6.9	36.7	6.5	17.7	2.3	6.8	1.8	181.0	1636	Clay		
RRMDD113	8.1	8.7	0.6	517.2	354.9	129.9	485.2	85.7	15.1	71.6	9.4	53.7	9.4	24.6	3.1	9.3	2.4	265.4	2037	Clay		
RRMDD113	8.7	9.5	0.8	200.0	219.0	42.0	166.8	31.3	6.6	40.1	5.7	36.7	7.8	23.7	3.1	5.7	2.4	309.9	1101	Upper Saprolite	**4.2**	**1318**
RRMDD113	9.5	10.4	1.0	70.6	137.6	17.1	63.0	12.6	2.4	10.7	1.6	10.4	2.0	5.4	0.7	1.6	0.6	58.3	395	Lower Saprolite		
RRMDD113	10.4	11.3	0.9	78.1	150.5	18.4	66.4	12.8	2.4	10.8	1.6	9.8	1.9	5.5	0.7	1.5	0.6	57.0	418	Saprock		
RRMDD114	0.0	0.3	0.3	57.3	157.0	12.6	44.4	8.6	1.4	7.7	1.3	8.0	1.7	5.1	0.8	1.3	0.8	46.9	355	Soil		
RRMDD114	0.3	1.4	1.1	53.8	174.5	12.0	42.3	8.2	1.3	7.3	1.2	7.4	1.5	4.7	0.7	1.2	0.8	43.4	360	Hardcap		
RRMDD114	1.4	2.2	0.8	54.1	1399.7	12.9	44.6	8.4	1.3	6.5	1.2	6.4	1.3	3.7	0.6	1.2	0.6	31.6	1574	Hardcap		
RRMDD114	2.2	3.0	0.8	70.5	1780.4	16.9	57.9	10.9	1.6	8.1	1.4	7.3	1.4	4.1	0.7	1.4	0.6	34.5	1998	Hardcap		
RRMDD114	3.0	3.7	0.7	96.4	2038.1	24.6	83.4	16.1	2.3	11.2	1.9	10.6	2.0	5.9	0.9	1.9	0.9	48.6	2345	Transition		
RRMDD114	3.7	4.5	0.8	91.5	500.1	20.1	72.3	12.8	2.0	11.1	1.6	10.1	1.9	6.0	0.9	1.6	0.8	59.8	792	Mottled		
RRMDD114	4.5	5.3	0.8	99.8	204.4	21.5	76.2	12.8	2.0	10.1	1.5	8.8	1.8	5.3	0.8	1.5	0.8	58.2	505	Clay		
RRMDD114	5.3	6.4	1.1	143.7	391.2	31.1	109.9	17.6	2.8	13.0	1.8	10.2	2.0	5.7	0.8	1.8	0.8	67.3	800	Clay		

																					>300ppm TREO-Ce_2O_3 Interval	
Hole ID	From m	To m	Int.	La_2O_3 ppm	Ce_2O_3 ppm	Pr_2O_3 ppm	Nd_2O_3 ppm	Sm_2O_3 ppm	Eu_2O_3 ppm	Gd_2O_3 ppm	Tb_2O_3 ppm	Dy_2O_3 ppm	Ho_2O_3 ppm	Er_2O_3 ppm	Tm_2O_3 ppm	Yb_2O_3 ppm	Lu_2O_3 ppm	Y_2O_3 ppm	TREO ppm	Regolith Zone	Length (m)	TREO ppm
RRMDD114	6.4	7.2	0.8	174.7	292.8	39.8	137.1	21.1	3.5	13.8	1.9	10.2	2.0	5.2	0.7	1.9	0.7	59.2	765	Clay		
RRMDD114	7.2	8.0	0.8	342.5	221.4	79.2	281.1	45.7	7.5	31.9	4.2	23.0	4.2	10.6	1.4	4.2	1.2	110.0	1168	Clay		
RRMDD114	8.0	8.8	0.8	131.9	152.9	26.0	99.7	17.7	3.5	18.3	2.6	15.3	3.3	8.9	1.2	2.6	1.1	118.0	603	Upper Saprolite	**4.3**	**769**
RRMDD114	8.8	9.6	0.9	94.3	151.7	17.8	63.7	10.4	1.9	8.9	1.2	6.9	1.5	4.3	0.6	1.2	0.6	57.1	422	Lower Saprolite		
RRMDD114	9.6	10.4	0.8	84.7	162.8	17.6	63.1	10.5	2.1	8.6	1.2	6.9	1.4	3.9	0.6	1.2	0.5	53.6	419	Saprock		
RRMDD115	0.0	0.3	0.3	70.8	406.4	14.5	48.1	9.3	1.6	8.3	1.3	8.2	1.8	5.3	0.8	1.3	0.8	50.4	629	Soil		
RRMDD115	0.3	1.1	0.8	54.7	762.5	12.2	42.6	8.0	1.3	6.7	1.1	6.7	1.3	3.9	0.7	1.1	0.6	35.0	938	Hardcap		
RRMDD115	1.1	1.9	0.8	60.0	1241.6	14.2	47.6	9.4	1.6	7.6	1.3	7.4	1.5	4.7	0.8	1.3	0.7	39.0	1439	Hardcap		
RRMDD115	1.9	2.7	0.8	56.2	862.1	12.6	42.5	8.0	1.4	6.6	1.2	7.2	1.5	4.6	0.7	1.2	0.7	38.2	1045	Hardcap		
RRMDD115	2.7	3.6	0.8	62.4	960.5	13.1	43.6	7.8	1.4	6.2	1.2	6.8	1.4	4.3	0.7	1.2	0.7	38.4	1150	Hardcap		
RRMDD115	3.6	4.3	0.7	68.0	421.7	13.8	47.7	8.3	1.5	7.7	1.3	8.1	1.8	5.3	0.9	1.3	0.9	52.1	640	Transition		
RRMDD115	4.3	4.9	0.7	44.0	115.1	8.8	31.6	5.2	0.9	4.7	0.8	4.6	1.0	3.1	0.5	0.8	0.5	32.3	254	Clay		
RRMDD115	4.9	5.6	0.6	517.2	277.6	111.3	381.4	60.0	10.5	45.5	6.1	33.7	6.6	17.0	2.3	6.0	1.9	224.8	1702	Clay		
RRMDD115	5.6	6.6	1.0	482.0	233.1	90.6	332.4	53.7	10.0	48.6	6.5	35.8	7.1	18.4	2.5	6.4	2.0	239.4	1568	Upper Saprolite		
RRMDD115	6.6	7.6	1.0	104.7	168.1	21.2	78.8	13.6	2.8	13.5	1.9	11.7	2.5	6.8	0.9	1.9	0.8	94.7	524	Lower Saprolite	**2.7**	**1212**
RRMDD115	7.6	8.5	0.9	82.2	145.8	18.1	66.6	11.5	2.3	9.2	1.3	7.5	1.5	3.8	0.5	1.3	0.5	45.3	397	Lower Saprolite		
RRMDD116	0.0	0.7	0.7	65.3	220.2	12.5	43.3	8.2	1.5	7.4	1.2	7.5	1.6	4.6	0.7	1.2	0.7	43.3	419	Soil		
RRMDD116	0.7	1.4	0.7	68.4	707.5	11.0	35.7	7.2	1.1	5.5	1.0	5.6	1.1	3.7	0.6	1.0	0.5	32.0	882	Hardcap		
RRMDD116	1.4	2.1	0.7	80.2	1067.1	16.9	56.2	10.4	1.7	8.0	1.4	7.6	1.6	4.8	0.7	1.3	0.7	42.5	1301	Transition		
RRMDD116	2.1	2.8	0.7	95.7	883.2	17.6	57.9	10.9	1.7	8.4	1.4	8.1	1.6	5.0	0.8	1.4	0.8	43.6	1138	Transition		
RRMDD116	2.8	3.5	0.7	190.0	708.6	41.1	134.7	22.0	3.6	15.4	2.1	11.6	2.2	6.2	0.9	2.1	0.8	62.1	1204	Transition		
RRMDD116	3.5	4.5	1.0	409.3	363.1	103.3	360.4	55.4	9.3	37.6	4.6	22.4	3.9	9.8	1.4	4.5	1.1	115.4	1502	Clay		
RRMDD116	4.5	5.0	0.5	417.5	331.5	95.1	346.4	54.2	9.7	42.3	5.4	27.8	5.1	12.8	1.8	5.4	1.5	162.5	1519	Upper Saprolite	**1.5**	**1508**
RRMDD116	5.0	5.8	0.8	167.1	169.3	29.5	114.3	19.4	4.1	22.1	2.9	16.7	3.6	9.6	1.3	2.9	1.2	146.0	710	Saprock		
RRMDD116	5.8	6.5	0.8	87.1	173.9	19.7	70.3	11.5	2.2	8.9	1.2	6.0	1.1	2.9	0.4	1.1	0.4	34.8	422	Saprock		
RRMDD117	0.0	0.3	0.3	56.3	372.5	11.2	39.9	7.8	1.3	6.4	1.1	6.5	1.3	4.1	0.6	1.1	0.6	37.8	549	Soil		
RRMDD117	0.3	1.1	0.8	42.7	502.5	8.4	30.1	6.0	1.1	5.0	1.0	5.3	1.1	3.2	0.5	1.0	0.5	26.8	635	Hardcap		
RRMDD117	1.1	1.9	0.8	41.8	468.5	8.4	31.3	6.2	1.0	5.3	0.9	5.3	1.1	3.2	0.5	0.9	0.5	27.9	603	Hardcap		
RRMDD117	1.9	2.9	1.0	100.5	990.9	13.3	42.6	7.5	1.2	6.0	1.0	6.0	1.3	3.9	0.6	1.0	0.6	32.5	1209	Hardcap		
RRMDD117	2.9	3.9	1.0	54.4	759.0	10.4	37.0	7.2	1.2	5.3	1.0	6.0	1.2	3.6	0.6	1.0	0.6	30.7	919	Transition		
RRMDD117	3.9	4.6	0.7	160.1	484.9	40.0	141.1	24.2	4.4	17.6	2.6	14.6	2.7	7.7	1.2	2.6	1.2	70.5	975	Clay		
RRMDD117	4.6	5.4	0.8	343.6	233.1	72.4	264.8	42.6	7.7	34.3	4.5	23.4	4.3	11.7	1.6	4.5	1.5	127.6	1178	Upper Saprolite	**1.5**	**1085**
RRMDD117	5.4	6.5	1.1	256.8	285.8	43.8	163.3	24.9	5.0	25.8	3.1	16.6	3.5	9.3	1.3	3.1	1.1	155.6	999	Saprock		
RRMDD117	6.5	7.4	0.9	114.6	262.4	25.7	92.0	16.1	3.0	12.6	1.6	8.7	1.6	4.3	0.6	1.6	0.6	49.5	595	Saprock		
RRMDD118	0.0	0.4	0.4	82.4	243.6	15.9	57.4	10.7	2.0	9.5	1.5	8.9	1.8	5.3	0.8	1.5	0.8	52.6	495	Soil		
RRMDD118	0.4	1.2	0.9	46.6	436.9	8.5	31.7	6.5	1.1	5.4	0.9	5.2	1.1	3.2	0.5	0.9	0.5	27.7	577	Soil		
RRMDD118	1.2	2.1	0.9	48.8	502.5	8.7	31.8	6.5	1.1	5.5	0.9	5.3	1.1	3.2	0.5	0.9	0.5	26.5	644	Soil		
RRMDD118	2.1	3.1	1.0	88.3	726.2	13.1	43.2	8.0	1.5	6.5	1.2	6.5	1.3	3.9	0.6	1.2	0.6	34.4	936	Hardcap		
RRMDD118	3.1	4.1	1.0	75.8	145.8	14.2	50.3	9.2	1.5	8.1	1.3	8.3	1.8	5.6	0.8	1.3	0.9	53.0	378	Hardcap		
RRMDD118	4.1	5.1	1.0	98.5	694.6	20.4	71.2	12.3	2.1	10.3	1.7	9.7	2.0	5.8	0.9	1.7	1.0	58.9	991	Transition		
RRMDD118	5.1	6.1	0.9	110.6	319.8	23.9	86.5	14.8	2.7	12.9	2.0	11.5	2.3	6.8	1.0	1.9	1.0	71.7	669	Mottled		
RRMDD118	6.1	6.9	0.9	536.0	346.7	88.9	285.8	43.0	7.5	29.9	3.8	19.6	3.6	9.6	1.3	3.8	1.2	107.7	1489	Clay		
RRMDD118	6.9	7.8	0.9	342.5	343.2	89.9	316.1	49.5	8.6	34.0	4.3	21.5	3.9	9.7	1.4	4.2	1.2	113.0	1343	Clay		
RRMDD118	7.8	8.7	0.9	374.1	390.0	91.3	325.4	51.4	9.1	36.4	4.5	22.7	4.1	10.5	1.5	4.5	1.3	123.2	1450	Clay	**3.6**	**1230**
RRMDD118	8.7	9.6	0.9	69.7	139.4	15.7	57.9	9.9	2.2	8.6	1.2	6.4	1.2	3.5	0.5	1.2	0.5	42.0	360	Saprock		
RRMDD118	9.6	10.4	0.8	55.7	115.5	12.9	46.2	7.9	1.8	6.3	0.9	5.1	1.0	2.9	0.4	0.9	0.5	30.7	289	Saprock		
RRMDD118	10.4	11.2	0.8	64.3	135.3	14.7	52.4	9.0	2.0	7.5	1.1	6.1	1.2	3.3	0.5	1.1	0.5	37.3	336	Saprock		

Hole ID	From m	To m	Int.	La_2O_3 ppm	Ce_2O_3 ppm	Pr_2O_3 ppm	Nd_2O_3 ppm	Sm_2O_3 ppm	Eu_2O_3 ppm	Gd_2O_3 ppm	Tb_2O_3 ppm	Dy_2O_3 ppm	Ho_2O_3 ppm	Er_2O_3 ppm	Tm_2O_3 ppm	Yb_2O_3 ppm	Lu_2O_3 ppm	Y_2O_3 ppm	TREO ppm	Regolith Zone	>300ppm TREO-Ce_2O_3 Interval Length (m)	>300ppm TREO-Ce_2O_3 Interval TREO ppm
RRMDD119	0.0	0.3	0.3	85.8	696.9	13.0	44.7	8.3	1.4	6.4	1.2	6.7	1.3	4.1	0.6	1.1	0.7	35.6	908	Soil		
RRMDD119	0.3	1.1	0.8	72.6	250.7	13.2	47.0	8.7	1.5	7.5	1.3	8.1	1.7	5.2	0.8	1.3	0.9	48.3	469	Soil		
RRMDD119	1.1	1.9	0.7	75.1	326.8	13.4	47.1	9.1	1.5	7.8	1.3	8.0	1.7	4.9	0.7	1.3	0.8	47.2	547	HardCap		
RRMDD119	1.9	2.9	1.0	72.9	622.0	13.8	48.8	9.1	1.6	7.1	1.2	7.4	1.5	4.2	0.7	1.2	0.7	39.5	832	HardCap		
RRMDD119	2.9	3.8	0.9	128.4	1270.9	26.2	90.9	16.2	2.6	12.5	2.0	11.5	2.3	6.6	1.0	2.0	1.0	55.9	1630	HardCap		
RRMDD119	3.8	4.8	1.0	93.7	390.0	21.9	75.7	13.2	2.2	10.1	1.5	8.5	1.6	4.6	0.7	1.5	0.7	48.0	674	Clay		
RRMDD119	4.8	5.7	1.0	233.4	258.9	53.7	183.7	28.9	4.6	19.9	2.5	13.2	2.4	6.2	0.9	2.5	0.8	70.6	882	Clay		
RRMDD119	5.7	6.4	0.6	286.2	233.1	74.3	263.6	49.7	8.6	36.7	4.9	27.1	4.8	11.9	1.7	4.9	1.5	121.0	1130	Upper Saprolite		
RRMDD119	6.4	7.0	0.6	334.2	285.8	75.3	267.1	44.2	7.6	33.0	4.2	21.9	3.9	9.8	1.4	4.1	1.3	107.4	1201	Upper Saprolite		
RRMDD119	7.0	7.9	0.9	144.8	118.3	24.1	90.3	14.6	2.6	14.9	1.9	10.6	2.2	6.0	0.8	1.8	0.8	96.9	531	Lower Saprolite	**3.1**	**897**
RRMDD119	7.9	8.8	0.9	73.8	145.2	16.6	60.3	10.8	2.1	8.8	1.2	6.3	1.2	3.2	0.4	1.2	0.4	39.1	370	Saprock		
RRMDD119	8.8	9.6	0.9	81.6	183.9	19.1	67.5	12.3	2.3	9.4	1.2	6.9	1.3	3.5	0.5	1.2	0.4	38.4	430	Saprock		
RRMDD119	9.6	10.5	0.9	72.8	155.2	16.9	61.0	11.2	2.2	9.4	1.3	7.2	1.3	3.7	0.5	1.3	0.5	41.1	386	Saprock		
RRMDD120	0.0	0.3	0.3	65.2	255.3	11.9	44.2	7.9	1.4	6.8	1.2	7.4	1.6	4.5	0.7	1.2	0.8	45.3	456	Soil		
RRMDD120	0.3	1.1	0.8	45.4	682.9	9.2	35.0	6.5	1.1	5.6	1.0	5.7	1.2	3.4	0.5	1.0	0.6	31.2	830	Hardcap		
RRMDD120	1.1	2.0	0.9	49.8	744.9	10.1	36.2	6.6	1.2	5.7	1.0	6.1	1.4	3.9	0.6	1.0	0.6	36.3	905	Hardcap		
RRMDD120	2.0	2.9	0.9	68.4	901.9	12.6	44.2	8.0	1.4	6.8	1.2	6.9	1.5	4.5	0.7	1.2	0.8	42.3	1102	Transition		
RRMDD120	2.9	3.8	0.9	74.1	284.6	13.5	49.5	8.4	1.4	7.3	1.2	7.6	1.6	4.7	0.8	1.2	0.8	48.1	505	Transition		
RRMDD120	3.8	4.5	0.7	67.1	137.6	13.9	48.5	8.5	1.5	7.4	1.1	7.3	1.5	4.7	0.8	1.1	0.8	47.6	349	Mottled		
RRMDD120	4.5	5.2	0.7	59.1	76.0	12.2	43.3	7.4	1.3	6.5	1.0	6.4	1.4	4.0	0.7	1.0	0.6	41.9	263	Clay		
RRMDD120	5.2	6.0	0.8	134.9	234.3	29.5	101.5	17.0	3.0	13.5	1.9	10.8	2.2	6.0	0.9	1.8	0.8	68.6	627	Clay		
RRMDD120	6.0	6.8	0.8	236.9	338.5	49.9	170.9	28.6	5.0	21.7	2.9	16.3	3.1	8.4	1.2	2.9	1.0	96.5	984	Clay		
RRMDD120	6.8	7.6	0.8	340.1	283.5	66.4	236.8	40.0	7.2	32.7	4.3	24.2	4.7	12.3	1.7	4.3	1.4	158.7	1218	Clay		
RRMDD120	7.6	8.6	1.0	143.1	171.6	25.2	93.0	16.5	3.4	17.8	2.3	14.3	3.1	8.6	1.2	2.3	1.1	116.7	620	Upper Saprolite	**3.4**	**853**
RRMDD120	8.6	9.4	0.9	76.2	182.1	16.2	55.9	9.6	1.8	7.1	0.9	5.3	1.1	3.0	0.5	0.9	0.5	39.2	400	Lower Saprolite		
RRMDD120	9.4	10.4	1.0	34.5	60.3	7.7	26.4	4.3	0.8	3.0	0.4	2.3	0.5	1.6	0.3	0.4	0.3	15.6	158	Lower Saprolite		
RRMDD120	10.4	11.4	1.0	78.9	183.3	17.4	61.6	11.0	2.2	8.9	1.2	7.1	1.5	4.1	0.6	1.2	0.5	51.3	431	Lower Saprolite		
RRMDD120	11.4	12.4	1.0	60.3	119.5	13.2	44.7	7.2	1.3	4.9	0.6	3.3	0.6	1.9	0.3	0.6	0.3	19.7	278	Lower Saprolite		
RRMDD120	12.4	13.4	1.0	52.0	101.0	11.8	41.6	7.4	1.5	6.0	0.8	4.8	1.0	2.8	0.4	0.8	0.4	29.8	262	Lower Saprolite		
RRMDD120	13.4	14.4	1.0	56.1	110.9	12.3	42.5	7.3	1.3	5.5	0.7	4.5	0.9	2.9	0.5	0.7	0.5	28.2	275	Saprock		
RRMDD120	14.4	15.4	1.0	71.7	227.8	15.5	54.4	9.6	1.9	7.7	1.1	6.9	1.5	4.4	0.7	1.1	0.6	47.7	453	Saprock		
RRMDD120	15.4	16.1	0.7	67.2	202.6	19.7	81.1	17.9	3.9	16.5	2.6	18.4	4.2	12.0	1.7	2.6	1.3	116.7	568	Saprock		
RRMDD120	16.1	16.8	0.7	31.8	66.9	6.8	23.6	4.0	0.7	2.9	0.4	2.2	0.5	1.3	0.2	0.4	0.2	13.5	155	Saprock		
RRMDD121	0.0	0.7	0.7	66.8	93.7	12.8	46.7	8.8	1.5	7.8	1.3	8.1	1.7	5.1	0.8	1.3	0.8	50.2	307	Soil		
RRMDD121	0.7	1.5	0.8	46.0	221.4	7.8	26.9	5.1	0.8	4.3	0.8	4.9	1.0	3.1	0.5	0.8	0.5	26.2	350	Hardcap		
RRMDD121	1.5	2.2	0.8	61.7	680.5	11.2	38.0	7.3	1.2	5.5	1.0	6.2	1.2	3.9	0.6	1.0	0.6	31.5	851	Hardcap		
RRMDD121	2.2	3.0	0.8	67.4	814.1	13.5	47.4	8.8	1.5	6.8	1.2	6.9	1.4	4.1	0.7	1.2	0.7	33.3	1009	Hardcap		
RRMDD121	3.0	3.9	0.9	44.4	74.1	9.0	31.0	5.6	1.0	5.4	0.8	5.3	1.2	3.4	0.6	0.8	0.6	33.0	216	Mottled		
RRMDD121	3.9	4.8	0.9	54.2	57.4	11.1	38.4	7.0	1.2	6.5	1.0	6.5	1.4	4.1	0.7	1.0	0.7	40.3	231	Mottled		
RRMDD121	4.8	5.7	0.9	77.1	88.6	15.6	55.1	9.4	1.7	8.6	1.2	7.6	1.6	4.8	0.7	1.2	0.8	48.9	323	Mottled		
RRMDD121	5.7	6.6	0.9	118.5	104.8	26.4	91.6	15.2	2.5	12.3	1.6	9.3	1.8	5.3	0.8	1.6	0.8	57.7	450	Mottled		
RRMDD121	6.6	7.4	0.8	170.1	155.2	37.8	130.6	21.8	3.6	17.1	2.2	12.3	2.3	6.5	1.0	2.2	0.9	71.7	636	Mottled		
RRMDD121	7.4	7.7	0.3	95.1	88.0	21.4	74.6	13.3	2.1	10.9	1.5	9.4	1.8	5.5	0.8	1.5	0.8	56.5	383	Mottled		
RRMDD121	7.7	8.2	0.5	113.3	119.5	26.4	91.3	15.1	2.5	11.2	1.5	8.7	1.6	4.9	0.7	1.5	0.7	52.1	451	Pallid		
RRMDD121	8.2	8.8	0.6	112.9	110.8	25.7	92.4	15.7	2.4	11.0	1.6	9.0	1.7	5.1	0.7	1.6	0.7	54.6	446	Clay		
RRMDD121	8.8	9.2	0.4	29.2	32.2	6.3	21.9	3.7	0.6	2.7	0.4	2.6	0.5	1.6	0.3	0.4	0.3	16.3	119	Clay		
RRMDD121	9.2	10.1	0.9	92.2	98.2	20.8	75.3	12.9	1.9	9.1	1.3	7.4	1.4	4.2	0.6	1.3	0.6	47.0	374	Clay		

Hole ID	From m	To m	Int.	La_2O_3 ppm	Ce_2O_3 ppm	Pr_2O_3 ppm	Nd_2O_3 ppm	Sm_2O_3 ppm	Eu_2O_3 ppm	Gd_2O_3 ppm	Tb_2O_3 ppm	Dy_2O_3 ppm	Ho_2O_3 ppm	Er_2O_3 ppm	Tm_2O_3 ppm	Yb_2O_3 ppm	Lu_2O_3 ppm	Y_2O_3 ppm	TREO ppm	Regolith Zone	>300ppm TREO-Ce_2O_3 Interval Length (m)	>300ppm TREO-Ce_2O_3 Interval TREO ppm
RRMDD121	10.1	10.9	0.9	122.0	147.0	29.3	105.0	17.3	2.7	12.4	1.6	9.3	1.8	4.6	0.7	1.6	0.6	53.2	509	Clay		
RRMDD121	10.9	11.8	0.9	124.3	173.4	31.2	107.4	18.7	3.1	13.2	1.7	9.7	1.7	4.8	0.6	1.7	0.6	52.4	545	Upper Saprolite		
RRMDD121	11.8	12.7	0.9	135.5	209.7	33.6	118.4	20.8	3.3	15.5	2.1	11.5	2.1	6.0	0.8	2.0	0.8	64.3	626	Upper Saprolite		
RRMDD121	12.7	13.5	0.8	146.0	226.6	36.6	130.6	22.8	3.5	16.2	2.0	11.4	2.0	5.8	0.7	2.0	0.8	61.5	669	Upper Saprolite		
RRMDD121	13.5	14.5	1.0	136.0	179.8	33.7	115.6	20.2	3.1	13.8	1.8	10.1	1.7	4.8	0.7	1.8	0.6	54.1	578	Upper Saprolite		
RRMDD121	14.5	15.4	0.9	113.8	155.2	26.7	93.5	15.9	2.7	12.2	1.6	8.7	1.6	4.7	0.6	1.6	0.6	48.6	488	Upper Saprolite		
RRMDD121	15.4	16.4	1.0	119.0	160.5	27.5	98.9	16.6	2.8	12.3	1.7	9.2	1.7	4.8	0.7	1.7	0.6	51.9	510	Upper Saprolite		
RRMDD121	16.4	17.4	1.0	128.4	167.5	30.1	107.5	19.0	3.1	13.5	1.8	9.9	1.8	5.3	0.7	1.8	0.7	56.1	547	Upper Saprolite		
RRMDD121	17.4	18.4	1.0	198.2	282.3	46.5	165.6	28.4	4.6	20.5	2.6	13.2	2.2	5.6	0.7	2.6	0.7	58.4	832	Upper Saprolite		
RRMDD121	18.4	19.4	1.0	131.4	172.8	29.8	109.2	18.9	3.1	14.0	1.9	9.8	1.7	4.8	0.7	1.8	0.6	52.8	553	Lower Saprolite		
RRMDD121	19.4	20.4	1.0	119.0	159.9	26.1	94.5	16.9	2.8	13.9	1.8	10.4	1.9	5.7	0.8	1.7	0.8	64.5	521	Lower Saprolite		
RRMDD121	20.4	21.4	1.0	120.8	166.9	24.9	91.3	16.5	2.8	14.4	1.9	11.0	2.0	6.0	0.8	1.9	0.7	72.6	535	Lower Saprolite	**15.7**	**537**
RRMDD121	21.4	22.4	1.0	77.6	136.5	17.1	61.9	11.4	2.1	9.8	1.4	8.4	1.7	5.0	0.7	1.4	0.7	65.4	401	Saprock		
RRMDD121	22.4	23.2	0.8	75.3	155.2	18.3	62.1	11.0	1.9	7.9	1.0	5.7	1.0	3.1	0.4	1.0	0.4	31.2	375	Saprock		
RRMDD121	23.2	24.0	0.8	68.4	139.4	16.3	57.2	10.4	1.7	7.1	0.9	5.0	1.0	2.8	0.4	0.9	0.4	27.8	340	Fresh Rock		
RRMDD121	24.0	24.6	0.6	78.2	152.9	18.5	66.4	11.4	1.8	7.7	1.0	5.4	1.0	2.8	0.4	1.0	0.4	28.3	377	Fresh Rock		
RRMDD122	0.0	0.8	0.8	29.6	90.0	6.1	22.3	4.7	0.8	3.9	0.7	4.4	0.9	2.8	0.4	0.7	0.4	25.1	193	Soil		
RRMDD122	0.8	1.5	0.8	38.5	102.6	7.3	26.1	5.3	0.9	4.6	0.8	4.9	1.0	3.2	0.5	0.8	0.5	28.4	225	Soil		
RRMDD122	1.5	2.1	0.6	26.5	722.7	6.0	21.5	4.5	0.8	3.7	0.7	4.5	0.9	2.7	0.5	0.7	0.5	22.1	818	Hardcap		
RRMDD122	2.1	2.7	0.6	30.0	704.0	7.9	29.3	5.9	1.0	4.5	0.9	5.0	1.0	3.2	0.5	0.9	0.5	25.0	819	Hardcap		
RRMDD122	2.7	3.8	1.1	146.0	155.2	33.0	112.9	17.0	2.8	12.1	1.7	9.6	1.7	5.1	0.6	1.7	0.7	56.5	556	Clay		
RRMDD122	3.8	4.9	1.1	241.6	197.9	51.0	182.5	29.1	5.0	24.3	3.2	19.2	3.5	10.2	1.3	3.2	1.2	125.3	899	Upper Saprolite	**2.2**	**726**
RRMDD122	4.9	5.7	0.9	123.1	156.4	22.5	83.6	13.7	2.5	12.0	1.6	9.0	2.0	5.8	0.7	1.6	0.7	78.2	514	Saprock		
RRMDD122	5.7	6.6	0.9	73.2	147.0	16.3	55.5	9.3	1.6	6.4	0.8	4.6	0.9	2.6	0.4	0.8	0.4	28.6	348	Saprock		
RRMDD122	6.6	7.4	0.9	43.4	80.0	10.2	37.4	6.7	1.2	5.2	0.7	4.3	0.8	2.5	0.3	0.7	0.3	24.8	219	Saprock		
RRMDD122	7.4	8.3	0.9	64.9	139.4	14.4	49.2	8.1	1.4	5.7	0.7	4.4	0.9	2.7	0.4	0.7	0.4	27.2	321	Saprock		
RRMDD123	0.0	0.8	0.8	48.8	214.9	10.7	38.7	7.4	1.2	6.3	1.0	6.3	1.4	4.1	0.6	1.0	0.7	37.5	381	Soil		
RRMDD123	0.8	1.5	0.8	61.1	311.6	12.2	41.6	8.3	1.3	6.5	1.1	7.0	1.4	4.5	0.7	1.1	0.7	39.4	499	Soil		
RRMDD123	1.5	2.3	0.8	42.3	971.0	9.0	32.4	6.3	0.9	4.7	0.9	4.8	1.0	3.0	0.5	0.9	0.5	28.4	1107	Hardcap		
RRMDD123	2.3	3.1	0.8	50.3	771.9	11.1	39.9	7.4	1.1	5.6	0.9	5.5	1.1	3.7	0.6	0.9	0.5	32.4	933	Hardcap		
RRMDD123	3.1	3.9	0.8	62.3	581.0	13.9	49.2	9.4	1.5	7.4	1.2	8.0	1.6	4.8	0.7	1.2	0.8	44.1	787	Transition		
RRMDD123	3.9	4.7	0.9	67.2	65.2	13.5	47.6	8.6	1.3	6.7	1.0	7.0	1.3	4.2	0.7	1.0	0.6	41.5	267	Mottled		
RRMDD123	4.7	5.5	0.8	113.4	132.9	23.9	82.6	13.7	2.3	10.9	1.6	9.5	1.9	5.8	0.8	1.6	0.8	61.0	463	Clay		
RRMDD123	5.5	6.4	0.9	170.1	251.8	40.1	140.6	24.4	3.9	17.6	2.4	14.1	2.7	7.7	1.0	2.4	0.9	87.4	767	Upper Saprolite		
RRMDD123	6.4	7.3	0.9	235.7	210.8	56.3	200.6	35.0	5.8	25.8	3.3	18.4	3.4	9.9	1.2	3.3	1.1	116.7	928	Upper Saprolite		
RRMDD123	7.3	8.2	0.9	137.8	114.3	30.7	105.2	16.9	3.0	13.3	1.9	10.1	2.1	5.9	0.8	1.8	0.8	70.2	515	Lower Saprolite		
RRMDD123	8.2	9.1	0.9	201.7	150.5	40.4	142.3	23.1	4.3	19.9	2.7	14.9	3.0	7.9	1.1	2.7	1.0	99.4	715	Lower Saprolite		
RRMDD123	9.1	10.0	0.9	220.5	195.6	34.3	128.3	20.1	4.2	22.5	3.1	16.9	3.5	9.3	1.2	3.1	1.0	126.2	790	Lower Saprolite	**5.3**	**702**
RRMDD123	10.0	10.6	0.7	68.0	211.4	13.9	47.0	7.0	1.4	5.4	0.8	4.4	0.9	2.7	0.4	0.8	0.4	33.8	398	Saprock		
RRMDD123	10.6	11.2	0.6	80.0	309.2	20.0	72.4	12.9	2.7	10.8	1.6	8.7	1.7	4.3	0.6	1.6	0.5	49.8	577	Saprock		
RRMDD123	11.2	11.5	0.4	48.0	129.4	16.0	68.2	15.2	3.3	13.8	2.0	11.0	2.1	5.5	0.7	2.0	0.5	65.3	383	Fresh Rock		
RRMDD124	0.0	0.7	0.7	66.6	360.8	13.2	48.9	9.0	1.5	7.5	1.2	7.5	1.5	4.6	0.8	1.2	0.8	45.1	570	Soil		
RRMDD124	0.7	1.3	0.7	59.6	433.4	12.1	43.7	8.5	1.4	6.7	1.1	6.6	1.4	4.2	0.6	1.1	0.7	38.9	620	Soil		
RRMDD124	1.3	1.9	0.6	59.6	445.1	10.5	39.3	7.1	1.2	5.8	1.0	5.7	1.2	3.5	0.5	1.0	0.6	32.5	615	Hardcap		
RRMDD124	1.9	2.5	0.6	57.3	638.4	11.7	43.6	8.8	1.5	6.9	1.2	6.9	1.3	4.2	0.6	1.2	0.6	36.4	821	Hardcap		
RRMDD124	2.5	3.2	0.6	89.7	1036.6	20.2	74.5	14.0	2.2	10.4	1.8	10.0	2.0	6.0	0.9	1.8	1.0	53.3	1324	Transition		
RRMDD124	3.2	3.8	0.6	162.4	729.7	27.2	91.2	16.1	3.0	14.1	2.4	13.8	2.8	8.1	1.2	2.4	1.3	76.7	1152	Transition		

Hole ID	From m	To m	Int.	La_2O_3 ppm	Ce_2O_3 ppm	Pr_2O_3 ppm	Nd_2O_3 ppm	Sm_2O_3 ppm	Eu_2O_3 ppm	Gd_2O_3 ppm	Tb_2O_3 ppm	Dy_2O_3 ppm	Ho_2O_3 ppm	Er_2O_3 ppm	Tm_2O_3 ppm	Yb_2O_3 ppm	Lu_2O_3 ppm	Y_2O_3 ppm	TREO ppm	Regolith Zone	>300ppm TREO-Ce_2O_3 Interval Length (m)	>300ppm TREO-Ce_2O_3 Interval TREO ppm
RRMDD124	3.8	4.7	0.9	381.2	283.5	90.7	314.9	48.1	8.6	38.5	5.2	27.1	5.1	13.7	1.9	5.1	1.7	156.8	1382	Pallid		
RRMDD124	4.7	5.3	0.6	259.2	196.2	57.7	203.5	31.8	5.8	26.3	3.6	20.3	4.0	10.7	1.5	3.5	1.4	124.8	950	Pallid		
RRMDD124	5.3	6.1	0.8	289.7	272.9	61.6	221.6	34.8	6.4	28.9	4.0	21.9	4.3	11.7	1.7	4.0	1.6	141.6	1107	Pallid		
RRMDD124	6.1	7.0	0.8	333.1	227.2	61.9	229.8	36.9	7.1	35.2	4.7	25.7	5.1	13.7	2.0	4.6	1.7	170.8	1159	Upper Saprolite	**3.2**	**1172**
RRMDD124	7.0	7.2	0.2	85.3	126.5	16.1	60.5	10.8	2.5	13.2	1.8	10.3	2.4	6.8	0.9	1.8	0.9	142.9	483	Saprock		
RRMDD125	0.0	0.9	0.9	66.0	258.9	13.0	47.6	9.2	1.5	7.5	1.2	7.5	1.5	4.8	0.7	1.2	0.7	45.6	467	Soil		
RRMDD125	0.9	1.8	0.9	72.7	247.1	14.7	53.4	10.1	1.6	8.1	1.3	8.3	1.7	5.4	0.8	1.3	0.9	49.8	477	Soil		
RRMDD125	1.8	2.6	0.8	71.7	693.4	12.4	41.4	7.7	1.2	5.3	1.0	5.7	1.1	3.6	0.5	1.0	0.6	30.7	878	Hardcap		
RRMDD125	2.6	3.4	0.8	83.6	816.4	16.6	57.2	10.5	1.6	7.7	1.3	7.7	1.5	5.0	0.7	1.3	0.7	39.7	1051	Hardcap		
RRMDD125	3.4	4.2	0.8	78.6	672.3	16.3	70.0	11.1	1.8	8.4	1.5	8.4	1.6	4.8	0.8	1.5	0.7	41.5	919	Hardcap		
RRMDD125	4.2	5.3	1.1	153.1	363.1	41.4	148.1	25.5	4.5	20.7	2.9	15.5	2.9	7.7	1.1	2.9	1.0	80.0	871	Pallid		
RRMDD125	5.3	6.3	1.1	221.1	370.1	56.8	199.5	34.4	5.9	24.7	3.6	19.3	3.5	9.4	1.4	3.6	1.3	96.4	1051	Pallid		
RRMDD125	6.3	7.1	0.8	324.9	330.3	111.5	409.4	70.9	12.0	49.1	6.7	34.2	5.8	14.5	2.0	6.6	1.6	142.2	1522	Clay		
RRMDD125	7.1	7.9	0.8	154.8	272.9	47.4	172.0	30.7	5.4	23.5	3.4	18.9	3.6	9.6	1.4	3.4	1.3	96.6	845	Clay		
RRMDD125	7.9	8.6	0.7	231.0	134.1	45.1	157.5	27.3	4.8	21.7	3.2	17.7	3.4	9.2	1.3	3.2	1.3	94.6	755	Clay		
RRMDD125	8.6	9.6	1.0	169.5	193.3	44.5	162.1	28.8	5.2	22.9	3.3	18.3	3.5	9.6	1.4	3.3	1.3	101.2	768	Upper Saprolite		
RRMDD125	9.6	10.5	0.9	168.3	241.3	42.5	155.7	26.8	4.9	22.5	3.1	17.0	3.3	8.7	1.3	3.0	1.2	95.2	795	Upper Saprolite		
RRMDD125	10.5	11.3	0.8	177.7	248.3	45.4	163.9	28.1	4.9	22.5	3.2	17.0	3.2	8.6	1.3	3.1	1.2	96.0	824	Upper Saprolite		
RRMDD125	11.3	12.2	0.9	160.7	206.1	40.4	151.6	26.3	4.8	23.1	3.2	17.2	3.3	9.0	1.3	3.2	1.2	100.2	752	Upper Saprolite		
RRMDD125	12.2	13.1	0.9	163.0	212.6	38.3	153.4	26.9	5.3	30.5	4.1	22.7	4.8	13.3	1.8	4.1	1.6	186.0	869	Upper Saprolite		
RRMDD125	13.1	13.8	0.7	107.5	186.2	21.5	80.2	13.5	2.5	14.6	1.8	10.0	2.3	6.4	0.9	1.8	0.8	119.6	570	Lower Saprolite	**9.6**	**879**
RRMDD125	13.8	14.5	0.7	78.1	178.6	18.5	66.1	12.3	2.3	10.0	1.3	6.7	1.3	3.6	0.5	1.3	0.5	39.0	420	Saprock		
RRMDD125	14.5	15.0	0.5	76.8	165.7	17.8	63.2	11.0	2.0	9.0	1.2	6.5	1.3	3.6	0.5	1.2	0.6	38.9	399	Saprock		
RRMDD126	0.0	0.7	0.7	89.6	241.3	16.8	59.8	10.8	1.6	8.4	1.3	8.1	1.7	5.0	0.7	1.3	0.8	49.7	497	Soil		
RRMDD126	0.7	1.7	1.0	81.7	689.9	14.7	49.2	8.9	1.3	6.2	1.1	6.0	1.2	3.5	0.6	1.1	0.6	32.5	898	Hardcap		
RRMDD126	1.7	2.7	1.0	86.8	641.9	16.6	58.4	10.2	1.6	7.0	1.2	6.9	1.4	4.0	0.6	1.2	0.6	36.7	875	Hardcap		
RRMDD126	2.7	3.7	1.0	113.5	754.3	22.9	82.0	14.8	2.2	9.5	1.6	9.0	1.7	5.2	0.8	1.6	0.8	46.2	1066	Hardcap		
RRMDD126	3.7	4.7	1.0	114.0	723.9	23.5	82.7	14.8	2.1	9.8	1.6	9.2	1.8	5.2	0.8	1.6	0.8	47.2	1039	Hardcap		
RRMDD126	4.7	5.4	0.7	113.2	386.5	23.4	77.7	13.0	2.2	10.1	1.6	9.1	1.8	5.3	0.8	1.6	0.8	48.6	696	Transition		
RRMDD126	5.4	6.2	0.8	169.5	237.8	33.7	110.0	18.2	3.2	13.8	2.1	11.1	2.1	5.5	0.8	2.0	0.8	55.6	666	Pallid		
RRMDD126	6.2	7.0	0.8	157.7	319.8	37.3	130.6	24.4	4.4	20.3	3.1	17.3	3.2	8.3	1.3	3.0	1.1	81.5	813	Pallid		
RRMDD126	7.0	7.7	0.7	137.2	237.8	35.0	137.1	26.8	5.0	22.6	3.4	18.9	3.4	9.3	1.3	3.4	1.2	89.8	732	Pallid		
RRMDD126	7.7	8.5	0.8	103.4	193.3	29.4	128.9	26.2	5.2	24.3	3.8	22.6	4.4	12.1	1.7	3.8	1.6	130.8	692	Pallid		
RRMDD126	8.5	9.2	0.8	119.0	223.1	34.2	150.5	28.3	5.4	27.3	4.2	26.4	5.8	15.9	2.2	4.2	2.1	194.9	844	Clay		
RRMDD126	9.2	9.9	0.7	85.5	156.4	25.4	114.7	20.0	4.0	20.9	3.1	19.4	4.5	13.1	1.8	3.1	1.8	162.5	636	Clay		
RRMDD126	9.9	10.8	0.9	77.5	148.2	21.3	94.2	15.8	3.1	15.2	2.2	14.5	3.5	10.6	1.5	2.2	1.5	163.2	575	Clay		
RRMDD126	10.8	11.8	1.0	91.7	190.3	21.5	83.3	14.1	2.7	12.0	1.9	10.3	2.2	5.7	0.8	1.9	0.9	93.8	533	Clay	**6.4**	**678**
RRMDD126	11.8	12.8	1.0	72.9	158.1	17.0	66.6	11.6	2.3	9.4	1.4	8.5	1.7	4.7	0.7	1.4	0.7	54.1	411	Clay		
RRMDD126	12.8	13.8	1.0	80.6	169.8	18.7	70.6	12.1	2.4	9.3	1.4	8.0	1.6	4.1	0.6	1.4	0.6	46.5	428	Clay		
RRMDD126	13.8	14.8	1.0	66.0	134.1	15.0	56.5	10.3	2.1	8.2	1.2	6.6	1.3	3.6	0.5	1.2	0.5	39.4	346	Clay		
RRMDD126	14.8	15.8	1.0	69.2	144.1	16.2	61.5	10.9	2.3	9.2	1.4	7.7	1.6	4.9	0.7	1.4	0.7	51.6	383	Clay		
RRMDD126	15.8	16.7	0.9	81.3	169.8	18.7	69.6	12.4	2.5	10.1	1.4	8.3	1.6	4.3	0.7	1.4	0.6	48.8	431	Clay		
RRMDD126	16.7	17.5	0.8	71.0	147.6	15.9	61.1	10.8	2.2	8.8	1.3	7.2	1.4	3.8	0.5	1.2	0.5	42.7	376	Clay		
RRMDD126	17.5	18.3	0.8	76.1	162.2	17.6	66.0	11.8	2.4	9.4	1.4	7.9	1.5	4.0	0.6	1.3	0.6	43.9	407	Clay		
RRMDD126	18.3	19.1	0.8	74.7	158.7	17.5	64.4	11.4	2.3	9.0	1.3	7.5	1.5	4.1	0.6	1.3	0.6	47.0	402	Clay		
RRMDD126	19.1	20.0	0.9	71.5	154.0	16.6	60.2	10.7	2.0	8.6	1.3	7.2	1.4	3.9	0.6	1.3	0.5	43.3	383	Upper Saprolite		
RRMDD126	20.0	20.8	0.9	81.7	176.3	18.6	70.2	12.3	2.6	10.5	1.5	7.8	1.5	4.2	0.6	1.5	0.6	45.1	435	Upper Saprolite		

Hole ID	From m	To m	Int.	La_2O_3 ppm	Ce_2O_3 ppm	Pr_2O_3 ppm	Nd_2O_3 ppm	Sm_2O_3 ppm	Eu_2O_3 ppm	Gd_2O_3 ppm	Tb_2O_3 ppm	Dy_2O_3 ppm	Ho_2O_3 ppm	Er_2O_3 ppm	Tm_2O_3 ppm	Yb_2O_3 ppm	Lu_2O_3 ppm	Y_2O_3 ppm	TREO ppm	Regolith Zone	>300ppm TREO-Ce_2O_3 Interval Length (m)	>300ppm TREO-Ce_2O_3 Interval TREO ppm
RRMDD126	20.8	21.7	0.9	75.3	161.6	17.6	64.4	12.1	2.5	9.7	1.4	7.7	1.4	3.9	0.6	1.4	0.6	44.8	405	Lower Saprolite		
RRMDD126	21.7	22.3	0.6	62.2	129.4	14.2	53.7	8.9	1.9	7.2	1.1	6.6	1.4	3.9	0.6	1.1	0.6	41.8	334	Saprock		
RRMDD126	22.3	23.0	0.6	56.8	120.6	13.2	49.8	8.9	1.8	7.2	1.1	6.0	1.2	3.3	0.5	1.1	0.5	36.7	309	Saprock		
RRMDD126	23.0	23.7	0.8	79.5	171.6	18.1	68.1	12.2	2.4	9.4	1.4	7.6	1.4	4.0	0.5	1.4	0.5	43.0	421	Saprock		
RRMDD126	23.7	24.5	0.8	55.4	116.4	12.5	46.4	8.1	1.6	6.5	0.9	5.2	1.0	2.9	0.4	0.9	0.4	31.4	290	Saprock		
RRMDD126	24.5	25.1	0.6	69.1	150.5	16.0	59.0	10.2	2.0	8.0	1.2	6.5	1.3	3.6	0.5	1.1	0.5	40.1	370	Saprock		
RRMDD127	0.0	0.9	0.9	80.5	217.9	14.9	53.3	10.2	1.6	8.1	1.3	8.1	1.6	4.8	0.7	1.3	0.7	45.0	450	Soil		
RRMDD127	0.9	1.8	0.9	85.3	276.4	15.3	65.8	9.8	1.6	7.6	1.3	7.8	1.5	4.7	0.8	1.3	0.7	41.9	522	Soil		
RRMDD127	1.8	2.7	0.9	105.6	1033.1	18.7	62.1	11.1	1.7	7.6	1.4	7.7	1.4	4.3	0.7	1.3	0.7	35.8	1293	Hardcap		
RRMDD127	2.7	3.6	0.9	119.6	826.9	23.4	81.3	14.6	2.2	9.9	1.6	9.0	1.7	5.1	0.8	1.6	0.8	46.0	1145	Hardcap		
RRMDD127	3.6	4.5	0.9	147.8	493.1	29.6	105.1	17.2	2.8	12.3	1.9	11.2	2.2	6.1	1.0	1.9	0.9	61.5	895	Transition		
RRMDD127	4.5	5.5	1.0	183.0	205.6	37.6	129.5	20.1	3.6	14.3	2.0	11.2	2.1	5.8	0.9	2.0	0.8	59.4	678	Pallid		
RRMDD127	5.5	6.4	0.9	123.7	148.8	27.3	95.3	15.4	2.9	12.2	1.7	9.6	1.8	5.2	0.8	1.7	0.7	53.8	501	Pallid		
RRMDD127	6.4	7.3	0.9	141.3	213.2	33.1	119.0	20.8	3.9	16.9	2.4	12.6	2.2	6.1	0.9	2.4	0.8	62.9	638	Pallid		
RRMDD127	7.3	8.2	0.9	112.4	193.3	28.1	105.2	19.3	3.6	15.6	2.3	12.7	2.3	5.8	0.9	2.3	0.8	64.0	568	Pallid		
RRMDD127	8.2	9.1	0.9	102.3	197.9	25.7	98.7	18.7	3.6	15.7	2.3	13.1	2.4	6.2	0.9	2.3	0.8	66.0	557	Pallid		
RRMDD127	9.1	10.1	1.0	80.8	166.3	19.7	81.4	15.9	2.8	13.8	2.2	13.1	2.8	7.7	1.1	2.2	1.1	83.1	494	Pallid		
RRMDD127	10.1	11.0	0.9	92.7	198.5	26.6	111.2	20.1	3.6	19.8	3.1	20.6	5.0	14.8	2.2	3.1	2.3	182.2	706	Upper Saprolite		
RRMDD127	11.0	11.9	0.9	65.1	138.8	17.1	74.6	14.4	2.8	14.2	2.2	15.0	3.8	11.9	1.8	2.2	1.8	161.9	528	Upper Saprolite		
RRMDD127	11.9	12.8	0.9	68.8	148.2	16.7	67.1	11.7	2.2	10.9	1.6	10.7	2.6	7.9	1.2	1.6	1.2	131.4	484	Upper Saprolite	**8.3**	**573**
RRMDD127	12.8	13.7	0.9	74.8	159.3	17.5	65.4	12.5	2.3	9.1	1.4	7.9	1.5	3.9	0.6	1.3	0.5	47.1	405	Upper Saprolite		
RRMDD127	13.7	14.6	0.9	60.2	128.3	14.1	52.8	9.8	1.9	7.6	1.2	6.7	1.4	4.2	0.6	1.2	0.6	43.2	334	Upper Saprolite		
RRMDD127	14.6	15.6	1.0	70.4	150.5	16.0	61.7	11.8	2.2	9.1	1.4	7.9	1.5	4.1	0.6	1.3	0.6	46.0	385	Lower Saprolite		
RRMDD127	15.6	16.5	0.9	70.5	154.0	16.4	62.2	11.6	2.1	9.0	1.3	7.4	1.4	3.8	0.6	1.3	0.6	43.6	386	Saprock		
RRMDD128	0.0	0.7	0.7	78.6	238.9	14.4	48.8	8.9	1.4	6.7	1.1	6.5	1.4	4.3	0.7	1.1	0.6	39.9	453	Soil		
RRMDD128	0.7	1.5	0.7	68.3	358.4	12.6	43.5	8.2	1.3	6.2	1.0	6.1	1.3	3.9	0.6	1.0	0.6	36.1	549	Hardcap		
RRMDD128	1.5	2.2	0.7	81.9	194.4	12.8	41.3	7.4	1.1	4.7	0.8	4.8	0.9	2.9	0.4	0.8	0.4	26.0	381	Hardcap		
RRMDD128	2.2	2.8	0.6	124.3	433.4	23.2	79.4	14.0	2.1	9.8	1.6	9.3	2.0	5.6	0.9	1.6	0.9	54.6	763	Transition		
RRMDD128	2.8	3.8	1.1	123.7	262.4	24.3	84.8	14.2	2.3	10.3	1.6	9.5	1.8	5.3	0.8	1.6	0.9	52.3	596	Transition		
RRMDD128	3.8	4.9	1.0	122.0	161.1	26.1	92.3	16.2	2.6	12.1	1.7	9.8	1.9	5.2	0.8	1.7	0.8	54.6	509	Pallid		
RRMDD128	4.9	5.1	0.2	85.0	141.7	20.2	75.1	13.6	2.4	10.5	1.7	10.1	2.1	5.9	0.9	1.7	0.9	60.2	432	Pallid		
RRMDD128	5.1	5.9	0.8	99.2	185.7	23.9	94.5	17.7	3.1	14.5	2.1	11.9	2.3	6.4	0.9	2.1	0.8	69.8	535	Pallid		
RRMDD128	5.9	6.8	0.9	97.5	192.1	24.9	101.9	19.5	3.4	16.1	2.4	14.1	2.8	7.7	1.0	2.4	1.0	85.2	572	Clay		
RRMDD128	6.8	7.7	0.9	82.1	171.6	21.4	88.4	16.2	3.0	14.0	2.2	12.8	2.8	7.8	1.2	2.1	1.1	89.8	516	Clay		
RRMDD128	7.7	8.6	0.9	102.9	219.6	25.9	108.7	19.4	3.4	16.8	2.5	15.8	3.3	9.7	1.5	2.5	1.4	119.1	652	Clay		
RRMDD128	8.6	9.5	0.9	88.2	192.1	22.4	90.6	16.8	2.8	13.5	2.0	12.2	2.7	8.1	1.2	2.0	1.2	103.5	559	Clay		
RRMDD128	9.5	10.4	0.9	105.1	241.3	28.6	115.7	18.7	3.3	16.2	2.4	16.0	3.9	12.8	2.0	2.4	2.0	203.2	773	Clay		
RRMDD128	10.4	11.2	0.8	94.1	202.6	22.1	87.4	14.6	2.5	12.0	1.7	10.5	2.4	7.5	1.1	1.7	1.1	114.5	576	Clay		
RRMDD128	11.2	12.1	0.9	93.0	207.9	21.3	80.6	14.1	2.4	10.6	1.5	8.8	1.7	4.8	0.7	1.5	0.7	61.3	511	Upper Saprolite	**8.3**	**573**
RRMDD128	12.1	13.0	0.9	72.5	158.1	16.7	63.8	11.6	2.2	8.6	1.2	6.8	1.3	3.7	0.5	1.2	0.5	39.0	388	Upper Saprolite		
RRMDD128	13.0	13.9	0.9	67.6	147.6	15.4	58.3	10.2	1.8	7.2	1.0	6.0	1.2	3.4	0.5	1.0	0.5	39.1	361	Lower Saprolite		
RRMDD128	13.9	14.7	0.8	88.2	200.9	20.5	76.2	13.6	2.4	9.9	1.4	7.9	1.5	4.0	0.6	1.4	0.5	45.1	474	Lower Saprolite		
RRMDD128	14.7	15.4	0.7	84.7	188.6	19.6	74.4	13.4	2.5	10.1	1.4	8.1	1.6	4.3	0.6	1.4	0.6	46.6	458	Saprock		
RRMDD128	15.4	16.0	0.6	59.2	125.3	13.7	52.6	9.2	1.6	6.6	0.9	5.1	1.0	2.7	0.4	0.9	0.4	30.5	310	Saprock		
RRMDD129	0.0	0.3	0.3	94.4	404.1	17.6	61.9	11.2	1.8	9.3	1.5	9.1	1.9	5.6	0.9	1.5	0.8	53.7	675	Soil		
RRMDD129	0.3	1.2	0.9	76.9	595.0	15.4	53.7	10.1	1.7	7.9	1.3	7.8	1.5	4.7	0.8	1.3	0.7	41.4	820	Hardcap		
RRMDD129	1.2	1.9	0.7	102.4	524.7	19.7	69.6	12.0	1.9	8.9	1.4	8.2	1.6	5.0	0.7	1.4	0.8	43.6	802	Hardcap		

																				>300ppm TREO-Ce_2O_3 Interval	
Hole ID	From m	To m	Int.	La_2O_3 ppm	Ce_2O_3 ppm	Pr_2O_3 ppm	Nd_2O_3 ppm	Sm_2O_3 ppm	Eu_2O_3 ppm	Gd_2O_3 ppm	Tb_2O_3 ppm	Dy_2O_3 ppm	Ho_2O_3 ppm	Er_2O_3 ppm	Tm_2O_3 ppm	Yb_2O_3 ppm	Lu_2O_3 ppm	Y_2O_3 ppm	TREO ppm	Regolith Zone	Length (m)	TREO ppm
RRMDD129	1.9	2.6	0.7	137.2	447.4	26.8	95.6	17.2	2.6	12.3	1.8	10.8	2.1	6.3	0.9	1.8	0.9	54.9	819	Transition		
RRMDD129	2.6	3.4	0.7	112.5	346.7	23.1	82.1	14.9	2.4	10.7	1.7	10.0	1.9	5.4	0.8	1.7	0.8	49.1	664	Transition		
RRMDD129	3.4	3.8	0.4	104.6	152.9	21.6	78.6	14.1	2.3	10.6	1.6	10.2	2.0	5.7	0.9	1.6	0.9	55.1	463	Pallid		
RRMDD129	3.8	4.5	0.7	109.2	155.2	23.2	84.4	14.3	2.4	10.7	1.6	9.2	1.8	5.0	0.8	1.6	0.8	49.7	470	Pallid		
RRMDD129	4.5	5.4	0.9	89.3	164.0	20.9	79.5	14.7	2.7	12.2	1.9	10.8	2.1	5.4	0.8	1.9	0.8	59.3	466	Pallid		
RRMDD129	5.4	6.3	0.9	88.9	183.9	21.9	90.2	17.9	3.3	15.7	2.5	15.2	3.1	8.7	1.3	2.4	1.3	104.5	561	Clay		
RRMDD129	6.3	7.2	0.9	75.2	168.7	19.3	80.4	14.7	2.9	13.5	2.1	13.3	3.2	9.8	1.4	2.0	1.6	133.3	541	Clay		
RRMDD129	7.2	8.2	1.0	74.0	159.9	17.7	69.1	12.6	2.5	10.4	1.6	8.9	1.9	5.4	0.8	1.5	0.9	84.4	452	Upper Saprolite		
RRMDD129	8.2	9.2	1.0	94.5	204.4	23.0	87.5	15.7	2.9	12.0	1.7	9.3	1.9	5.2	0.8	1.7	0.7	58.3	520	Upper Saprolite		
RRMDD129	9.2	10.2	1.0	84.4	187.4	20.8	77.9	13.9	2.6	10.9	1.5	9.0	1.9	5.4	0.8	1.5	0.8	58.7	478	Upper Saprolite		
RRMDD129	10.2	11.2	1.0	95.0	206.1	22.8	86.1	15.3	2.9	12.3	1.7	9.4	1.8	5.2	0.8	1.7	0.7	56.1	518	Upper Saprolite	**7.8**	**499**
RRMDD129	11.2	12.2	1.0	78.7	172.2	19.3	73.5	13.5	2.6	11.0	1.5	8.5	1.7	4.9	0.8	1.5	0.7	52.6	443	Lower Saprolite		
RRMDD129	12.2	13.2	1.0	76.9	175.1	18.8	72.6	12.8	2.5	10.8	1.5	8.6	1.8	5.1	0.8	1.5	0.8	56.0	446	Lower Saprolite		
RRMDD129	13.2	14.0	0.9	61.0	140.0	15.4	58.3	10.8	2.2	9.0	1.3	7.1	1.5	4.2	0.7	1.3	0.6	44.1	357	Lower Saprolite		
RRMDD129	14.0	15.0	1.0	68.3	152.3	16.9	66.3	11.9	2.5	10.4	1.4	8.2	1.6	4.7	0.7	1.4	0.6	50.0	397	Lower Saprolite		
RRMDD129	15.0	16.0	1.0	72.7	152.9	17.8	68.9	12.2	2.4	9.9	1.3	7.4	1.5	4.3	0.7	1.3	0.6	46.6	400	Lower Saprolite		
RRMDD129	16.0	16.8	0.8	74.4	162.8	18.7	71.5	12.7	2.6	10.5	1.4	7.9	1.6	4.6	0.7	1.4	0.6	47.6	419	Saprock		
RRMDD129	16.8	17.5	0.7	67.0	145.8	16.4	63.8	11.6	2.4	9.8	1.4	7.5	1.5	4.3	0.7	1.3	0.6	46.2	380	Saprock		
RRMDD130	0.0	1.0	1.0	90.0	189.8	17.3	65.0	12.4	2.0	10.2	1.7	10.7	2.1	6.1	0.9	1.7	1.0	59.9	471	Soil		
RRMDD130	1.0	2.0	1.0	90.3	224.9	17.7	63.0	12.4	2.1	10.4	1.7	10.4	2.1	6.0	0.9	1.7	0.9	59.1	504	Soil		
RRMDD130	2.0	2.8	0.8	95.5	741.4	16.7	56.3	10.3	1.7	7.8	1.5	8.3	1.6	4.7	0.7	1.4	0.7	41.9	991	Hardcap		
RRMDD130	2.8	3.7	0.9	159.5	340.8	28.9	98.0	16.9	2.7	12.7	2.0	11.8	2.4	6.8	1.0	2.0	1.0	68.4	755	Transition		
RRMDD130	3.7	4.3	0.7	136.6	228.4	30.0	109.4	18.1	3.1	14.6	2.0	11.4	2.3	6.5	1.0	2.0	0.9	68.6	635	Clay		
RRMDD130	4.3	4.9	0.6	221.1	236.6	47.7	172.0	27.7	4.5	20.5	2.7	14.4	2.8	7.5	1.1	2.7	1.0	78.9	841	Clay		
RRMDD130	4.9	5.8	0.9	220.5	260.0	52.7	198.9	32.6	5.5	25.4	3.4	17.7	3.3	8.7	1.3	3.4	1.1	93.0	927	Clay		
RRMDD130	5.8	6.7	0.9	154.2	226.1	40.6	156.9	27.6	4.7	22.2	3.0	16.4	3.1	8.4	1.2	3.0	1.0	85.3	754	Clay		
RRMDD130	6.7	7.4	0.7	110.7	196.8	31.8	128.9	24.5	4.4	20.9	2.9	16.3	3.1	8.0	1.1	2.9	0.9	83.3	637	Clay		
RRMDD130	7.4	8.1	0.7	105.2	195.6	25.3	103.9	20.1	4.3	18.7	2.8	15.8	3.0	8.1	1.1	2.8	0.9	75.8	583	Clay		
RRMDD130	8.1	8.9	0.8	80.3	145.8	18.0	70.7	13.5	2.8	12.9	1.9	11.0	2.3	6.8	0.9	1.9	0.8	67.3	437	Clay		
RRMDD130	8.9	9.9	1.0	106.1	223.1	24.7	96.3	19.1	3.7	16.4	2.5	14.1	2.7	7.6	1.1	2.5	0.9	82.2	603	Clay		
RRMDD130	9.9	10.9	1.0	83.9	176.9	19.3	77.9	15.2	2.9	13.4	2.0	12.2	2.7	7.9	1.2	2.0	1.2	91.4	510	Clay		
RRMDD130	10.9	11.9	1.0	82.7	178.0	19.7	81.5	15.4	3.1	13.6	2.0	12.2	2.8	8.8	1.3	2.0	1.3	111.6	536	Clay		
RRMDD130	11.9	12.8	0.9	79.2	168.1	18.7	74.9	13.7	3.0	12.3	1.8	11.5	2.6	7.9	1.2	1.8	1.3	110.7	509	Upper Saprolite	**9.2**	**628**
RRMDD130	12.8	13.7	0.9	66.7	138.2	15.1	59.8	11.0	2.3	8.4	1.3	7.1	1.4	4.0	0.6	1.3	0.6	45.7	363	Upper Saprolite		
RRMDD130	13.7	14.7	1.0	79.5	168.1	18.1	71.9	13.2	2.8	10.9	1.5	8.6	1.6	4.7	0.7	1.5	0.6	46.4	430	Upper Saprolite		
RRMDD130	14.7	15.7	1.0	80.8	172.8	18.4	72.1	12.9	2.6	10.4	1.5	8.7	1.7	5.0	0.7	1.5	0.7	50.5	440	Upper Saprolite		
RRMDD130	15.7	16.7	1.0	95.8	205.6	22.1	83.7	15.1	2.8	11.9	1.7	9.3	1.8	4.9	0.7	1.7	0.7	50.3	508	Lower Saprolite		
RRMDD130	16.7	17.3	0.6	83.7	178.6	19.5	74.2	13.9	2.6	10.1	1.4	8.2	1.6	4.3	0.6	1.4	0.6	43.8	445	Saprock		
RRMDD131	0.0	0.3	0.3	94.2	235.4	17.7	62.4	11.8	1.9	10.1	1.6	9.8	2.0	5.9	0.9	1.6	0.9	58.9	515	Soil		
RRMDD131	0.3	1.0	0.7	60.2	161.1	11.1	38.0	7.6	1.2	6.1	1.0	6.2	1.3	3.5	0.6	1.0	0.6	34.9	334	Soil		
RRMDD131	1.0	1.7	0.7	82.9	453.3	14.7	49.0	9.3	1.5	7.0	1.2	7.6	1.5	4.7	0.8	1.2	0.8	40.9	676	Soil		
RRMDD131	1.7	2.4	0.7	103.2	687.6	19.8	68.7	11.8	1.8	8.2	1.5	8.2	1.6	4.5	0.7	1.5	0.7	40.6	960	Hardcap		
RRMDD131	2.4	3.4	1.0	140.1	297.5	27.3	94.4	16.4	2.4	11.8	1.8	10.5	2.0	5.8	0.8	1.8	0.9	55.9	669	Mottled		
RRMDD131	3.4	4.0	0.6	154.8	217.9	30.2	108.8	17.6	2.9	13.4	1.9	10.9	2.1	6.1	0.9	1.9	0.9	56.8	627	Pallid		
RRMDD131	4.0	4.6	0.6	133.7	210.8	30.5	113.4	19.5	3.3	14.5	2.1	11.3	2.2	5.9	0.9	2.1	0.8	58.4	609	Pallid		
RRMDD131	4.6	5.4	0.8	117.3	219.0	30.5	122.5	23.9	4.3	21.3	3.1	17.4	3.2	8.3	1.1	3.1	1.0	85.3	661	Pallid		
RRMDD131	5.4	6.3	0.9	108.0	223.7	26.1	110.9	22.6	4.4	22.0	3.3	20.3	4.2	12.3	1.7	3.3	1.6	135.2	700	Clay		

Hole ID	From m	To m	Int.	La_2O_3 ppm	Ce_2O_3 ppm	Pr_2O_3 ppm	Nd_2O_3 ppm	Sm_2O_3 ppm	Eu_2O_3 ppm	Gd_2O_3 ppm	Tb_2O_3 ppm	Dy_2O_3 ppm	Ho_2O_3 ppm	Er_2O_3 ppm	Tm_2O_3 ppm	Yb_2O_3 ppm	Lu_2O_3 ppm	Y_2O_3 ppm	TREO ppm	Regolith Zone	>300ppm TREO-Ce_2O_3 Interval Length (m)	>300ppm TREO-Ce_2O_3 Interval TREO ppm
RRMDD131	6.3	7.1	0.8	91.2	190.9	21.4	93.3	17.7	3.3	15.7	2.4	14.8	3.4	10.6	1.6	2.4	1.4	124.7	595	Upper Saprolite		
RRMDD131	7.1	7.9	0.8	89.6	189.2	20.7	80.5	15.2	2.7	12.3	1.8	11.3	2.6	8.4	1.3	1.8	1.2	121.8	560	Upper Saprolite	**5.5**	**636**
RRMDD131	7.9	8.6	0.8	91.5	192.1	20.2	79.9	14.4	2.6	10.6	1.6	9.2	1.8	5.3	0.7	1.6	0.8	56.8	489	Upper Saprolite		
RRMDD131	8.6	9.4	0.8	83.2	181.0	19.1	73.7	14.0	2.7	10.4	1.4	8.0	1.5	4.0	0.6	1.4	0.5	42.8	444	Upper Saprolite		
RRMDD131	9.4	10.1	0.8	81.2	172.8	18.0	69.9	12.9	2.5	10.3	1.5	8.2	1.6	4.5	0.7	1.5	0.6	48.1	434	Upper Saprolite		
RRMDD131	10.1	10.9	0.8	90.2	196.2	20.0	79.4	14.4	2.7	10.2	1.5	7.8	1.6	4.4	0.6	1.5	0.6	46.2	477	Lower Saprolite		
RRMDD131	10.9	11.7	0.8	86.0	181.0	19.4	75.6	13.7	2.6	10.8	1.5	8.4	1.7	4.7	0.7	1.5	0.6	49.0	457	Lower Saprolite		
RRMDD132	0.0	0.2	0.2	94.2	185.1	19.2	68.0	13.0	2.0	10.5	1.7	10.4	2.1	5.8	0.9	1.7	0.9	61.2	477	Soil		
RRMDD132	0.2	1.0	0.8	83.5	489.6	15.1	50.2	10.0	1.5	7.2	1.3	7.9	1.6	4.7	0.7	1.3	0.8	39.1	714	Hardcap		
RRMDD132	1.0	1.9	0.9	110.2	476.7	19.0	62.3	11.5	1.8	8.7	1.5	9.1	1.8	5.5	0.9	1.5	0.9	45.1	757	Hardcap		
RRMDD132	1.9	2.7	0.8	105.2	277.6	18.7	59.3	10.9	1.7	8.3	1.5	9.1	1.8	5.3	0.8	1.4	0.9	44.1	546	Hardcap		
RRMDD132	2.7	3.2	0.5	101.4	237.8	19.7	67.1	12.4	2.1	9.8	1.6	9.7	1.9	5.4	0.8	1.6	0.9	49.1	521	Transition		
RRMDD132	3.2	4.0	0.8	109.2	196.8	24.9	103.3	21.5	3.9	18.2	2.6	14.4	2.7	7.0	1.0	2.6	1.0	71.4	580	Clay		
RRMDD132	4.0	4.7	0.7	106.7	194.4	25.9	102.4	19.8	3.7	16.4	2.5	13.9	2.6	7.1	1.0	2.4	0.9	69.2	569	Clay		
RRMDD132	4.7	5.3	0.6	114.5	220.8	29.0	119.0	24.5	4.4	20.2	3.0	17.6	3.4	9.6	1.3	3.0	1.2	99.7	671	Clay		
RRMDD132	5.3	5.9	0.6	120.8	243.6	32.3	135.9	27.7	5.2	25.1	3.9	24.1	5.0	14.2	2.1	3.9	1.9	169.5	815	Clay		
RRMDD132	5.9	6.3	0.4	118.5	243.6	35.2	156.3	32.7	6.1	29.0	4.6	28.1	5.6	15.8	2.3	4.5	2.0	161.9	846	Upper Saprolite		
RRMDD132	6.3	7.1	0.9	124.3	253.0	34.1	150.5	25.2	4.6	26.7	3.9	24.6	6.1	18.8	2.6	3.8	2.3	289.5	970	Lower Saprolite	**3.9**	**740**
RRMDD132	7.1	8.0	0.9	108.2	217.9	24.1	93.2	16.9	2.8	13.0	1.9	10.6	2.1	5.7	0.8	1.9	0.7	81.3	581	Saprock		
RRMDD133	0.0	0.8	0.8	96.1	222.5	17.8	62.4	11.6	1.8	8.8	1.5	9.2	1.9	5.5	0.8	1.5	0.9	55.6	498	Soil		
RRMDD133	0.8	1.9	1.1	97.1	203.2	16.5	54.2	9.9	1.6	7.6	1.2	7.9	1.6	4.5	0.7	1.2	0.8	42.9	451	Hardcap		
RRMDD133	1.9	2.6	0.7	99.3	376.0	17.7	59.7	10.6	1.7	7.7	1.3	8.1	1.7	4.9	0.8	1.3	0.8	43.6	635	Hardcap		
RRMDD133	2.6	3.2	0.7	133.1	767.2	25.7	87.0	15.4	2.2	10.3	1.8	10.0	2.0	5.9	0.9	1.8	0.9	50.4	1115	Hardcap		
RRMDD133	3.2	3.7	0.5	103.2	193.3	20.9	72.4	12.5	2.0	8.8	1.4	8.5	1.7	4.8	0.7	1.4	0.8	46.2	479	Clay		
RRMDD133	3.7	4.3	0.6	99.8	159.3	20.7	74.2	12.6	2.3	10.6	1.5	9.4	1.8	5.1	0.8	1.5	0.8	51.6	452	Clay		
RRMDD133	4.3	4.9	0.6	69.2	118.9	15.6	60.1	11.1	1.9	9.0	1.3	8.3	1.6	4.9	0.8	1.2	0.7	47.7	352	Clay		
RRMDD133	4.9	5.7	0.9	106.4	214.9	24.7	97.0	17.8	3.4	16.0	2.2	13.7	2.5	7.3	0.9	2.2	0.8	74.8	585	Clay		
RRMDD133	5.7	6.6	0.9	91.9	185.1	21.0	84.2	15.2	2.9	13.5	1.9	12.2	2.4	7.7	1.0	1.9	1.0	82.4	524	Clay		
RRMDD133	6.6	7.5	0.9	89.5	189.8	20.9	81.4	13.5	2.4	11.9	1.6	10.5	2.1	6.7	0.9	1.6	0.9	84.3	518	Clay	**2.7**	**542**
RRMDD133	7.5	8.4	0.9	94.9	197.4	20.7	79.2	13.9	2.4	11.4	1.6	9.4	1.7	5.2	0.7	1.6	0.6	54.4	495	Clay		
RRMDD133	8.4	9.3	0.9	76.3	164.6	17.8	68.8	11.9	2.2	10.3	1.4	9.0	1.7	4.7	0.7	1.3	0.7	51.7	423	Clay		
RRMDD133	9.3	10.1	0.8	82.4	178.6	18.2	71.6	12.9	2.2	10.5	1.5	8.8	1.6	4.7	0.6	1.5	0.6	47.1	443	Clay		
RRMDD133	10.1	10.7	0.6	76.3	166.3	17.5	66.1	12.2	2.3	10.3	1.5	9.2	1.7	5.1	0.7	1.4	0.6	54.5	426	Upper Saprolite		
RRMDD133	10.7	11.4	0.7	80.6	176.3	18.3	69.4	12.2	2.2	10.7	1.4	8.2	1.4	4.2	0.6	1.4	0.5	43.4	431	Upper Saprolite		
RRMDD133	11.4	12.0	0.7	72.2	153.4	15.9	63.5	10.8	2.3	9.3	1.2	7.9	1.4	4.2	0.5	1.2	0.6	41.8	386	Lower Saprolite		
RRMDD133	12.0	12.7	0.7	69.5	152.3	16.3	61.2	11.2	2.3	10.0	1.4	8.8	1.6	4.7	0.7	1.4	0.6	47.6	390	Saprock		
RRMDD134	0.0	0.8	0.8	86.6	297.5	15.4	54.0	9.8	1.6	7.8	1.3	8.1	1.6	5.0	0.8	1.3	0.8	46.9	538	Soil		
RRMDD134	0.8	1.6	0.8	97.1	295.2	17.6	60.4	11.2	1.9	9.2	1.5	9.2	1.9	5.4	0.8	1.5	0.8	52.7	566	Soil		
RRMDD134	1.6	2.4	0.8	92.5	750.8	16.7	55.8	10.6	1.6	7.5	1.3	7.8	1.5	4.5	0.7	1.3	0.8	38.4	992	Hardcap		
RRMDD134	2.4	3.0	0.6	129.0	335.0	25.2	87.5	15.4	2.3	10.7	1.7	10.1	2.1	6.1	0.9	1.7	0.9	59.2	688	Hardcap		
RRMDD134	3.0	4.1	1.1	122.6	337.3	23.8	84.4	13.6	2.3	11.5	1.7	10.1	1.9	5.9	0.9	1.6	0.8	53.5	672	Transition		
RRMDD134	4.1	5.1	1.0	111.9	186.8	24.7	94.2	16.2	2.8	12.9	1.8	10.6	2.0	5.7	0.8	1.8	0.8	54.2	527	Clay		
RRMDD134	5.1	6.1	1.0	104.4	186.8	24.7	96.0	17.5	3.5	16.1	2.3	13.8	2.5	7.0	0.9	2.3	0.8	70.2	549	Clay		
RRMDD134	6.1	7.1	1.0	71.9	135.9	16.7	67.7	12.7	2.4	11.8	1.7	10.4	2.0	6.1	0.8	1.7	0.7	61.1	404	Clay		
RRMDD134	7.1	8.1	1.0	89.1	186.2	21.2	87.9	16.6	3.2	15.1	2.1	13.6	2.6	7.4	1.0	2.1	0.9	80.4	530	Clay		
RRMDD134	8.1	9.0	0.9	86.1	183.3	21.2	88.2	16.1	3.0	14.1	2.0	13.5	2.7	7.8	1.1	2.0	1.0	86.4	528	Clay		
RRMDD134	9.0	10.0	1.0	89.5	195.0	20.7	81.2	13.9	2.8	12.7	1.9	12.2	2.6	8.1	1.1	1.9	1.1	88.9	533	Upper Saprolite		

																				>300ppm TREO-Ce_2O_3 Interval	
Hole ID	From m	To m	Int.	La_2O_3 ppm	Ce_2O_3 ppm	Pr_2O_3 ppm	Nd_2O_3 ppm	Sm_2O_3 ppm	Eu_2O_3 ppm	Gd_2O_3 ppm	Tb_2O_3 ppm	Dy_2O_3 ppm	Ho_2O_3 ppm	Er_2O_3 ppm	Tm_2O_3 ppm	Yb_2O_3 ppm	Lu_2O_3 ppm	Y_2O_3 ppm	TREO ppm	Regolith Zone	Length (m)	TREO ppm
RRMDD134	10.0	11.0	1.0	105.0	237.8	25.6	102.1	18.0	3.5	16.0	2.2	15.0	3.2	10.7	1.6	2.2	1.5	137.1	682	Upper Saprolite		
RRMDD134	11.0	12.0	1.0	90.4	204.4	21.5	83.9	14.2	2.7	12.2	1.7	11.5	2.6	8.5	1.2	1.7	1.2	116.6	574	Upper Saprolite		
RRMDD134	12.0	13.1	1.1	96.6	214.3	21.9	86.1	14.7	2.9	11.9	1.7	10.2	1.9	5.5	0.7	1.7	0.7	70.4	541	Lower Saprolite		
RRMDD134	13.1	14.1	1.0	74.8	168.1	17.5	65.8	11.8	2.3	9.6	1.3	7.9	1.5	4.6	0.7	1.3	0.6	47.5	415	Lower Saprolite		
RRMDD134	14.1	15.1	1.0	114.0	253.0	25.2	96.2	16.5	2.8	12.7	1.7	9.4	1.8	5.1	0.7	1.7	0.6	50.0	591	Lower Saprolite	**11.0**	**534**
RRMDD134	15.1	16.1	1.0	96.6	213.8	21.6	86.0	14.6	2.6	11.4	1.6	10.0	1.9	5.3	0.7	1.6	0.7	56.8	525	Saprock		
RRMDD134	16.1	17.1	1.0	84.4	186.8	19.4	71.3	12.8	2.3	9.9	1.3	7.9	1.4	4.1	0.5	1.3	0.5	40.5	444	Saprock		
RRMDD134	17.1	18.0	0.9	85.6	189.2	19.6	76.4	13.7	2.7	11.2	1.6	9.8	1.9	6.0	0.8	1.6	0.7	59.3	480	Saprock		
RRMDD134	18.0	19.0	1.0	79.9	171.6	17.7	69.1	11.9	2.4	10.0	1.4	8.0	1.5	4.3	0.6	1.3	0.5	43.2	423	Saprock		
RRMDD134	19.0	20.0	1.0	93.1	206.1	20.7	79.1	13.3	2.6	10.6	1.3	8.2	1.4	3.8	0.5	1.3	0.5	42.0	485	Saprock		
RRMDD135	0.0	0.8	0.8	129.0	251.8	24.6	80.2	12.9	2.0	9.0	1.5	8.7	1.7	5.2	0.8	1.5	0.8	48.8	578	Soil		
RRMDD135	0.8	1.6	0.8	133.1	329.1	25.5	83.5	13.3	2.0	9.1	1.5	8.7	1.7	4.9	0.8	1.5	0.8	47.4	663	Hardcap		
RRMDD135	1.6	2.4	0.8	142.5	459.1	28.3	93.2	14.4	2.2	9.4	1.5	8.6	1.6	4.6	0.7	1.5	0.7	42.2	811	Hardcap		
RRMDD135	2.4	3.2	0.8	124.3	664.1	24.3	82.7	14.6	2.2	10.1	1.7	9.5	1.9	5.6	0.9	1.7	0.9	50.9	996	Hardcap		
RRMDD135	3.2	4.1	0.9	161.3	351.4	29.8	105.3	15.9	2.6	13.1	1.8	11.5	2.2	6.5	1.0	1.8	0.9	65.3	770	Transition		
RRMDD135	4.1	4.9	0.9	124.3	257.7	26.2	86.8	14.7	2.4	11.0	1.6	9.8	1.9	5.6	0.9	1.6	0.9	56.6	602	Transition		
RRMDD135	4.9	5.9	1.0	145.4	215.5	33.1	112.7	19.1	3.3	13.5	2.1	11.5	2.0	5.8	0.8	2.1	0.9	61.0	629	Clay		
RRMDD135	5.9	6.9	0.9	81.2	139.4	20.1	70.6	13.2	2.4	11.2	1.6	9.3	1.8	5.2	0.8	1.6	0.7	54.1	413	Clay		
RRMDD135	6.9	7.8	1.0	113.2	230.2	29.4	107.0	21.3	3.9	18.2	2.6	15.0	2.6	7.2	1.1	2.6	0.9	81.8	637	Clay		
RRMDD135	7.8	8.8	1.0	102.9	219.6	26.0	97.9	19.2	3.5	16.4	2.4	13.7	2.7	7.8	1.1	2.4	1.0	86.9	603	Clay		
RRMDD135	8.8	9.8	1.0	97.5	226.1	25.2	95.1	19.0	3.3	15.6	2.4	15.0	3.1	9.6	1.4	2.3	1.4	120.9	638	Upper Saprolite		
RRMDD135	9.8	10.8	1.0	76.1	175.7	19.3	74.1	13.9	2.6	11.5	1.6	11.5	2.6	8.6	1.3	1.6	1.4	125.7	528	Upper Saprolite	**5.9**	**575**
RRMDD135	10.8	11.8	1.0	89.8	204.4	21.0	75.9	14.5	2.6	11.0	1.6	8.8	1.7	5.2	0.7	1.6	0.7	60.8	500	Upper Saprolite		
RRMDD135	11.8	12.8	1.0	84.9	190.9	20.2	73.2	13.6	2.5	10.3	1.5	8.2	1.5	4.4	0.7	1.5	0.6	46.6	461	Upper Saprolite		
RRMDD135	12.8	13.8	1.0	78.5	174.5	18.2	67.3	12.8	2.4	9.6	1.4	8.0	1.6	4.4	0.6	1.4	0.6	48.1	430	Upper Saprolite		
RRMDD135	13.8	14.8	1.0	91.9	204.4	21.7	79.8	14.6	2.7	10.5	1.5	8.6	1.5	4.1	0.6	1.5	0.6	45.5	489	Upper Saprolite		
RRMDD135	14.8	15.8	1.0	78.2	171.6	18.7	69.8	13.3	2.4	10.5	1.5	8.5	1.8	4.9	0.7	1.5	0.6	51.6	436	Upper Saprolite		
RRMDD135	15.8	16.8	1.0	89.6	196.2	20.7	77.0	13.7	2.7	10.9	1.5	8.1	1.5	4.4	0.6	1.5	0.6	46.4	475	Upper Saprolite		
RRMDD135	16.8	17.8	1.0	91.6	202.0	21.4	77.9	14.8	2.7	10.8	1.6	8.7	1.7	4.6	0.6	1.6	0.6	50.4	491	Upper Saprolite		
RRMDD135	17.8	18.8	1.0	67.4	147.6	16.2	59.1	11.6	2.3	8.6	1.3	7.4	1.4	3.7	0.6	1.2	0.6	42.7	372	Lower Saprolite		
RRMDD135	18.8	19.5	0.7	91.6	208.5	21.4	79.3	14.4	2.7	11.0	1.6	9.8	1.9	5.4	0.8	1.6	0.7	58.7	509	Lower Saprolite		
RRMDD135	19.5	20.2	0.7	84.7	186.2	20.3	74.9	13.4	2.8	11.1	1.5	8.0	1.5	3.9	0.5	1.5	0.5	41.3	452	Lower Saprolite		
RRMDD135	20.2	20.9	0.7	69.5	151.7	17.0	62.9	11.3	2.3	9.0	1.2	7.1	1.4	3.9	0.6	1.2	0.6	42.8	383	Lower Saprolite		
RRMDD136	0.0	0.9	0.9	86.2	188.0	14.6	46.8	8.5	1.3	6.3	1.1	6.9	1.3	4.0	0.7	1.1	0.7	36.1	404	Hardcap		
RRMDD136	0.9	1.8	0.9	92.4	366.6	17.3	57.0	10.8	1.7	7.8	1.3	8.4	1.6	4.7	0.8	1.3	0.8	44.2	617	Hardcap		
RRMDD136	1.8	2.7	0.9	107.9	476.7	18.0	55.8	10.4	1.5	7.1	1.2	7.4	1.4	4.2	0.7	1.2	0.6	36.1	730	Hardcap		
RRMDD136	2.7	3.6	0.9	117.9	426.4	19.3	61.9	10.7	1.6	7.6	1.3	7.6	1.4	4.5	0.7	1.3	0.7	38.0	701	Hardcap		
RRMDD136	3.6	4.2	0.6	124.3	513.0	19.3	58.0	10.3	1.5	7.3	1.2	7.7	1.5	4.6	0.7	1.2	0.7	36.6	788	Hardcap		
RRMDD136	4.2	5.0	0.8	136.0	230.2	21.8	61.6	9.4	1.6	6.8	1.2	7.4	1.4	4.3	0.7	1.2	0.7	35.3	520	Transition		
RRMDD136	5.0	5.8	0.8	134.9	176.9	25.9	73.9	10.6	1.6	6.9	1.2	7.2	1.4	4.2	0.7	1.2	0.7	38.0	485	Transition		
RRMDD136	5.8	6.7	0.9	128.4	204.4	32.5	115.0	18.4	3.1	12.3	2.0	11.5	2.2	5.8	0.8	2.0	0.8	56.0	595	Clay		
RRMDD136	6.7	7.6	0.9	101.9	200.9	25.3	98.4	20.1	3.6	16.4	2.5	13.8	2.5	6.6	0.9	2.4	0.8	67.4	564	Clay		
RRMDD136	7.6	8.5	0.9	110.5	226.6	26.1	103.0	21.2	4.0	19.0	2.9	16.6	3.0	7.9	1.0	2.8	0.9	81.5	627	Clay		
RRMDD136	8.5	9.4	0.9	92.2	197.4	23.3	89.2	19.4	3.6	18.4	2.7	16.1	3.0	7.9	1.0	2.6	0.9	80.4	558	Clay		
RRMDD136	9.4	10.3	0.9	98.0	220.2	25.0	88.8	16.3	3.1	14.3	2.2	13.5	2.4	7.0	1.0	2.2	1.0	70.5	566	Clay		
RRMDD136	10.3	11.4	1.1	87.8	199.7	22.8	90.3	17.3	3.3	17.1	2.6	19.6	4.9	17.1	2.6	2.6	2.8	231.1	722	Upper Saprolite	**5.6**	**610**
RRMDD136	11.4	12.2	0.8	72.9	161.6	16.9	63.1	12.3	2.2	9.6	1.4	7.9	1.5	4.7	0.7	1.4	0.7	66.2	423	Lower Saprolite		

																				>300ppm TREO-Ce_2O_3 Interval	
Hole ID	From m	To m	Int.	La_2O_3 ppm	Ce_2O_3 ppm	Pr_2O_3 ppm	Nd_2O_3 ppm	Sm_2O_3 ppm	Eu_2O_3 ppm	Gd_2O_3 ppm	Tb_2O_3 ppm	Dy_2O_3 ppm	Ho_2O_3 ppm	Er_2O_3 ppm	Tm_2O_3 ppm	Yb_2O_3 ppm	Lu_2O_3 ppm	Y_2O_3 ppm	TREO ppm	Regolith Zone	Length (m)	TREO ppm
RRMDD137	0.0	0.2	0.2	72.6	115.8	15.5	53.9	10.6	1.7	9.1	1.5	9.5	1.9	5.4	0.9	1.5	0.8	54.2	355	Soil		
RRMDD137	0.2	1.1	0.9	89.0	431.0	15.2	51.7	8.0	1.3	5.9	1.0	6.6	1.2	3.8	0.6	1.0	0.6	32.6	650	Hardcap		
RRMDD137	1.1	1.9	0.8	100.0	445.1	20.0	65.2	12.0	1.8	8.2	1.4	8.7	1.6	4.8	0.8	1.4	0.8	43.2	715	Hardcap		
RRMDD137	1.9	2.4	0.5	65.8	112.7	13.9	50.7	9.6	1.5	7.3	1.2	8.1	1.5	4.4	0.7	1.2	0.7	40.5	320	Hardcap		
RRMDD137	2.4	3.2	0.8	97.2	671.2	22.1	76.9	15.8	2.5	11.0	1.8	11.3	2.0	6.1	1.0	1.8	0.9	54.9	976	Hardcap		
RRMDD137	3.2	4.0	0.8	107.0	686.4	24.8	89.3	17.9	3.1	13.7	2.3	13.7	2.5	7.4	1.2	2.3	1.1	67.4	1040	Hardcap		
RRMDD137	4.0	4.7	0.7	176.5	757.8	34.5	119.0	21.9	3.6	16.5	2.7	16.2	3.0	8.7	1.3	2.7	1.3	80.3	1246	Hardcap		
RRMDD137	4.7	5.0	0.3	155.4	248.3	35.6	121.3	22.6	3.5	16.8	2.6	14.6	2.7	8.1	1.2	2.6	1.2	72.3	709	Clay		
RRMDD137	5.0	6.0	1.0	136.6	257.7	37.6	141.1	27.3	4.7	20.1	3.0	16.4	2.7	7.6	1.2	2.9	1.0	71.9	732	Clay		
RRMDD137	6.0	6.9	0.9	96.5	227.2	24.8	105.7	23.4	4.4	20.7	3.2	17.5	2.9	8.0	1.1	3.2	0.9	78.9	618	Pallid		
RRMDD137	6.9	7.8	0.9	97.8	208.5	24.7	98.9	21.9	3.9	20.5	3.1	18.3	3.3	8.7	1.1	3.0	0.8	85.0	599	Pallid		
RRMDD137	7.8	8.3	0.6	77.1	176.3	17.6	65.7	13.0	2.5	11.7	1.8	11.3	2.4	6.7	1.0	1.8	0.9	78.7	469	Upper Saprolite		
RRMDD137	8.3	9.3	0.9	84.2	193.9	20.5	78.1	14.4	2.7	12.2	1.9	12.7	3.0	9.6	1.5	1.9	1.5	140.3	578	Upper Saprolite	**4.6**	**618**
RRMDD137	9.3	10.2	0.9	79.0	181.0	18.6	67.9	12.6	2.3	9.4	1.4	8.3	1.7	4.8	0.7	1.4	0.8	55.5	445	Saprock		
RRMDD137	10.2	11.1	0.9	75.6	175.1	17.6	63.7	11.9	2.3	9.0	1.3	7.5	1.4	3.8	0.6	1.3	0.5	43.8	416	Saprock		
RRMDD137	11.1	12.0	0.9	65.9	144.7	15.3	55.9	10.7	2.0	8.1	1.2	6.8	1.3	3.9	0.6	1.2	0.5	42.8	361	Saprock		
RRMDD137	12.0	12.9	0.9	78.1	179.8	18.0	65.1	11.7	2.2	8.9	1.2	6.9	1.3	3.5	0.5	1.2	0.5	40.1	419	Saprock		
RRMDD137	12.9	13.8	0.9	67.9	147.6	16.1	59.6	10.8	2.0	8.0	1.2	7.0	1.3	3.6	0.6	1.2	0.5	40.8	368	Saprock		
RRMDD137	13.8	14.5	0.7	65.1	140.0	15.2	55.9	10.4	2.0	7.5	1.1	6.2	1.2	3.1	0.5	1.1	0.5	36.7	346	Saprock		
RRMDD137	14.5	15.2	0.7	74.6	163.4	17.3	64.5	11.5	2.3	8.7	1.2	7.5	1.4	4.1	0.6	1.2	0.6	46.2	405	Saprock		
RRMDD137	15.2	16.0	0.8	57.5	124.2	13.5	49.9	9.6	2.0	7.3	1.1	6.5	1.3	3.9	0.6	1.1	0.6	42.4	321	Fresh Rock		
RRMDD138	0.0	0.9	0.9	63.6	251.8	12.4	42.6	7.6	1.3	6.1	1.0	6.3	1.2	3.6	0.6	1.0	0.6	32.6	432	Hardcap		
RRMDD138	0.9	1.9	0.9	77.4	475.5	14.6	50.0	9.4	1.5	6.7	1.1	7.0	1.3	3.8	0.6	1.1	0.6	35.0	686	Hardcap		
RRMDD138	1.9	2.8	0.9	90.4	339.7	17.3	58.0	11.4	1.8	8.0	1.4	8.3	1.6	4.7	0.8	1.4	0.8	44.7	590	Hardcap		
RRMDD138	2.8	3.8	0.9	80.1	168.7	15.9	54.8	10.6	1.6	7.8	1.4	8.6	1.7	4.8	0.8	1.3	0.8	44.2	403	Hardcap		
RRMDD138	3.8	4.6	0.9	94.6	378.3	20.4	78.6	13.9	2.3	10.7	1.7	10.1	1.9	5.8	0.9	1.7	0.9	53.0	675	Hardcap		
RRMDD138	4.6	5.6	1.0	119.0	244.8	32.4	131.8	26.4	4.9	21.3	3.2	18.0	3.3	8.1	1.1	3.2	0.9	89.0	708	Clay		
RRMDD138	5.6	6.3	0.7	87.8	195.6	21.1	80.9	16.5	3.3	15.5	2.4	14.3	2.9	7.8	1.1	2.4	0.9	86.4	539	Clay		
RRMDD138	6.3	7.0	0.7	89.0	205.6	21.4	81.5	14.9	2.9	13.4	2.1	14.3	3.6	11.5	1.9	2.1	2.0	160.0	626	Upper Saprolite		
RRMDD138	7.0	7.6	0.6	83.0	189.8	19.5	73.6	13.2	2.5	10.7	1.7	10.5	2.5	8.0	1.3	1.7	1.4	135.9	555	Upper Saprolite	**3.0**	**619**
RRMDD138	7.6	8.4	0.8	76.0	172.2	17.7	65.4	12.4	2.5	9.2	1.4	7.8	1.5	4.3	0.7	1.3	0.6	50.2	423	Lower Saprolite		
RRMDD138	8.4	9.2	0.8	78.7	185.7	18.5	67.2	12.5	2.3	9.3	1.4	8.2	1.6	4.5	0.7	1.4	0.6	54.5	447	Lower Saprolite		
RRMDD138	9.2	10.5	1.3	82.3	193.9	19.0	69.8	12.6	2.3	9.1	1.4	7.8	1.5	4.0	0.6	1.3	0.6	47.0	453	Saprock		
RRMDD138	10.5	11.0	0.5	70.3	156.4	16.2	59.5	10.8	2.1	8.0	1.2	6.8	1.3	3.7	0.6	1.2	0.6	42.8	381	Saprock		
RRMDD139	0.0	1.1	1.1	96.9	171.0	21.8	80.4	16.1	2.5	13.0	2.1	13.4	2.5	7.6	1.1	2.1	1.1	77.2	509	Soil		
RRMDD139	1.1	2.1	1.0	99.7	215.5	22.1	78.6	15.6	2.5	12.6	2.0	12.9	2.4	7.2	1.2	2.0	1.1	72.8	548	Soil		
RRMDD139	2.1	2.4	0.3	129.0	1003.8	26.8	92.1	17.7	2.8	13.1	2.1	13.3	2.4	7.3	1.2	2.1	1.1	61.8	1377	Hardcap		
RRMDD139	2.4	3.4	1.0	190.6	395.9	40.0	131.8	22.7	3.5	15.8	2.4	14.2	2.5	7.6	1.1	2.4	1.1	70.1	902	Clay		
RRMDD139	3.4	4.2	0.8	138.4	243.6	31.0	111.0	20.0	3.5	15.3	2.3	13.5	2.6	7.1	1.1	2.3	1.0	71.9	665	Clay		
RRMDD139	4.2	5.0	0.8	91.0	192.7	22.1	85.6	15.9	3.0	13.8	2.1	12.7	2.5	6.8	1.0	2.1	1.0	71.6	524	Clay		
RRMDD139	5.0	5.8	0.8	90.7	201.5	21.5	81.6	16.2	3.1	14.1	2.2	13.8	2.9	8.4	1.3	2.1	1.3	101.0	562	Clay		
RRMDD139	5.8	6.5	0.6	85.1	189.2	20.2	79.3	15.7	3.1	14.9	2.3	15.5	3.9	12.4	1.9	2.3	2.0	163.2	611	Upper Saprolite		
RRMDD139	6.5	7.1	0.6	77.5	177.5	19.5	76.5	14.7	2.8	14.1	2.1	15.1	4.0	13.3	2.1	2.1	2.1	220.3	644	Upper Saprolite		
RRMDD139	7.1	8.2	1.1	80.8	187.4	19.3	72.9	13.6	2.7	11.3	1.7	10.2	2.4	7.5	1.2	1.7	1.1	143.5	557	Lower Saprolite	**5.7**	**643**
RRMDD139	8.2	8.9	0.7	91.9	212.6	21.3	77.2	14.0	2.5	9.9	1.4	7.8	1.5	3.9	0.6	1.4	0.5	45.2	492	Saprock		
RRMDD139	8.9	9.6	0.8	79.6	185.7	18.4	67.0	12.3	2.3	8.9	1.2	7.0	1.3	3.4	0.5	1.2	0.5	40.6	430	Saprock		
RRMDD140	0.0	0.7	0.7	105.1	171.0	22.4	77.2	15.3	2.4	12.3	2.0	12.6	2.3	7.2	1.1	2.0	1.0	69.1	503	Soil		

																				>300ppm TREO-Ce_2O_3 Interval	
Hole ID	From m	To m	Int.	La_2O_3 ppm	Ce_2O_3 ppm	Pr_2O_3 ppm	Nd_2O_3 ppm	Sm_2O_3 ppm	Eu_2O_3 ppm	Gd_2O_3 ppm	Tb_2O_3 ppm	Dy_2O_3 ppm	Ho_2O_3 ppm	Er_2O_3 ppm	Tm_2O_3 ppm	Yb_2O_3 ppm	Lu_2O_3 ppm	Y_2O_3 ppm	TREO ppm	Regolith Zone	Length (m)	TREO ppm
RRMDD140	0.7	1.7	1.0	73.7	451.0	14.1	47.9	8.7	1.4	6.8	1.2	7.2	1.4	4.1	0.7	1.2	0.7	36.3	656	Hardcap		
RRMDD140	1.7	2.6	1.0	95.0	547.0	18.8	64.6	11.0	1.8	8.5	1.4	8.4	1.6	4.6	0.7	1.4	0.7	40.0	806	Hardcap		
RRMDD140	2.6	3.6	1.0	191.2	666.5	35.5	112.3	18.4	3.1	13.9	2.3	12.9	2.5	7.1	1.1	2.2	1.0	57.9	1128	Hardcap		
RRMDD140	3.6	4.2	0.6	229.3	371.3	41.3	122.5	18.6	2.9	12.3	1.9	11.3	2.2	6.3	1.0	1.9	1.0	61.3	885	Transition		
RRMDD140	4.2	5.3	1.1	147.2	235.4	38.7	146.4	26.0	4.4	19.8	3.0	15.7	2.7	7.7	1.1	2.9	0.9	72.3	724	Clay		
RRMDD140	5.3	6.3	1.0	108.6	220.8	29.5	121.3	25.2	4.6	21.6	3.3	19.2	3.4	9.5	1.3	3.3	1.1	94.1	667	Clay		
RRMDD140	6.3	7.2	1.0	97.6	200.9	24.9	104.5	20.7	3.8	18.7	2.9	16.6	3.2	9.5	1.3	2.9	1.2	96.1	605	Clay		
RRMDD140	7.2	8.3	1.1	82.1	178.6	20.7	86.5	16.8	3.0	15.9	2.5	15.3	3.5	11.3	1.7	2.5	1.5	134.0	576	Clay		
RRMDD140	8.3	8.9	0.6	97.3	212.0	22.8	85.1	14.9	2.6	11.2	1.7	8.8	1.7	5.1	0.7	1.7	0.6	53.1	519	Clay	**4.7**	**629**
RRMDD140	8.9	10.0	1.1	93.5	205.0	21.8	79.4	14.0	2.7	10.8	1.5	8.4	1.6	4.7	0.7	1.5	0.6	50.0	496	Clay		
RRMDD140	10.0	10.2	0.2	88.4	192.1	20.7	76.5	13.5	2.6	10.5	1.5	7.9	1.4	4.2	0.6	1.5	0.6	44.8	467	Upper Saprolite		
RRMDD140	10.2	10.9	0.7	72.6	147.0	17.0	61.0	10.3	1.8	7.5	1.1	5.7	1.1	3.3	0.5	1.1	0.5	32.3	363	Upper Saprolite		
RRMDD140	10.9	11.9	1.1	90.8	201.5	21.4	77.8	14.1	2.7	11.0	1.6	8.7	1.6	5.0	0.7	1.6	0.6	49.3	488	Lower Saprolite		
RRMDD140	11.9	13.0	1.1	61.1	135.3	14.9	55.3	10.5	2.0	7.9	1.2	6.7	1.2	4.0	0.6	1.2	0.6	43.9	346	Saprock		
RRMDD141	0.0	0.8	0.8	98.6	172.2	21.9	81.8	15.3	2.4	13.8	2.2	13.0	2.6	7.5	1.1	2.2	1.1	76.4	512	Soil		
RRMDD141	0.8	1.6	0.8	103.1	185.7	22.9	85.5	15.7	2.6	14.7	2.3	13.5	2.9	7.9	1.2	2.3	1.1	83.6	545	Hardcap		
RRMDD141	1.6	2.4	0.8	113.3	610.2	19.3	61.6	10.7	1.8	8.2	1.5	8.6	1.7	4.7	0.8	1.5	0.8	37.6	882	Hardcap		
RRMDD141	2.4	3.2	0.8	151.9	493.1	29.7	101.9	17.9	2.8	13.1	2.2	11.8	2.2	5.8	0.9	2.1	0.9	46.2	883	Hardcap		
RRMDD141	3.2	3.9	0.7	181.8	443.9	35.7	117.2	18.9	2.9	13.4	2.2	12.6	2.5	7.0	1.0	2.2	1.0	57.5	900	Hardcap		
RRMDD141	3.9	4.8	0.9	214.0	468.5	46.6	167.4	27.8	4.1	18.6	2.9	15.5	2.9	8.9	1.3	2.9	1.1	77.1	1060	Transition		
RRMDD141	4.8	5.8	1.0	155.4	261.2	35.2	134.1	24.7	4.2	19.1	2.9	15.8	2.7	7.9	1.2	2.9	1.0	73.5	742	Clay		
RRMDD141	5.8	6.5	0.7	85.5	155.8	21.7	81.3	15.8	3.0	14.3	2.2	12.7	2.3	6.7	1.0	2.2	0.9	68.2	474	Clay		
RRMDD141	6.5	7.2	0.7	105.7	210.8	27.6	104.0	21.3	3.9	18.4	2.9	15.4	2.6	7.5	1.1	2.9	0.9	74.9	600	Clay		
RRMDD141	7.2	8.3	1.1	70.3	147.6	17.7	70.2	13.9	2.5	12.8	2.0	12.3	2.5	7.7	1.1	2.0	1.0	80.0	444	Clay		
RRMDD141	8.3	9.3	1.1	82.7	176.9	20.2	76.4	14.4	2.8	13.3	2.0	12.5	2.6	8.3	1.3	2.0	1.2	104.8	521	Clay	**4.5**	**558**
RRMDD141	9.3	10.1	0.8	66.0	146.4	15.9	60.0	10.8	2.2	8.4	1.3	7.3	1.4	4.3	0.7	1.2	0.6	46.9	373	Upper Saprolite		
RRMDD141	10.1	10.9	0.8	77.6	171.6	18.7	67.9	12.5	2.4	10.0	1.5	8.2	1.6	4.9	0.7	1.5	0.7	48.3	428	Upper Saprolite		
RRMDD141	10.9	11.7	0.8	72.7	161.1	17.4	64.2	12.5	2.2	9.4	1.4	8.1	1.5	4.7	0.7	1.4	0.7	50.5	408	Lower Saprolite		
RRMDD141	11.7	12.6	0.9	89.7	197.9	20.9	78.7	14.7	2.6	10.9	1.7	8.4	1.6	4.5	0.6	1.7	0.6	48.4	483	Lower Saprolite		
RRMDD141	12.6	13.5	0.9	76.7	168.1	17.9	67.8	12.7	2.5	10.0	1.5	7.7	1.4	4.1	0.6	1.5	0.5	42.5	415	Lower Saprolite		
RRMDD141	13.5	14.3	0.8	71.5	157.5	16.9	61.9	11.0	2.0	9.0	1.4	8.0	1.6	4.7	0.7	1.4	0.7	49.0	397	Saprock		
RRMDD141	14.3	15.1	0.8	87.4	199.7	20.8	77.3	13.7	2.4	9.3	1.4	7.1	1.2	3.6	0.5	1.4	0.5	38.1	464	Saprock		
RRMDD141	15.1	15.5	0.4	79.0	172.2	18.8	70.0	12.8	2.2	9.7	1.5	7.6	1.4	4.2	0.6	1.5	0.5	43.9	426	Saprock		
RRMDD141	15.5	16.3	0.8	60.3	138.2	14.8	54.5	10.2	2.0	8.1	1.3	7.0	1.4	4.2	0.6	1.2	0.6	42.2	346	Saprock		
RRMDD141	16.3	17.1	0.8	67.1	151.7	16.3	61.2	11.7	2.3	9.0	1.4	7.7	1.5	4.4	0.6	1.4	0.6	47.0	384	Saprock		
RRMDD141	17.1	18.0	0.9	64.7	143.5	16.0	59.3	11.3	2.2	8.3	1.3	7.1	1.3	3.7	0.6	1.3	0.5	38.7	360	Saprock		
RRMDD142	0.0	0.9	0.9	90.8	523.6	16.8	55.1	10.5	1.7	8.1	1.4	7.9	1.5	4.6	0.7	1.4	0.7	42.9	768	Soil		
RRMDD142	0.9	1.7	0.9	93.9	472.0	16.7	56.1	10.5	1.7	8.6	1.4	8.0	1.6	4.8	0.7	1.4	0.7	42.8	721	Soil		
RRMDD142	1.7	2.8	1.1	86.7	577.5	13.6	41.6	8.0	1.2	5.5	1.0	5.7	1.1	3.4	0.5	1.0	0.5	27.6	775	Hardcap		
RRMDD142	2.8	3.8	1.1	91.6	532.9	15.0	46.7	8.8	1.4	6.4	1.1	6.4	1.2	3.7	0.6	1.1	0.6	30.0	748	Hardcap		
RRMDD142	3.8	4.8	1.0	119.0	477.9	24.2	82.9	14.6	2.3	10.1	1.6	9.5	1.8	5.2	0.8	1.6	0.8	44.8	797	Transition		
RRMDD142	4.8	5.8	1.0	235.7	283.5	63.9	249.6	38.8	6.0	25.9	3.6	18.3	3.1	8.8	1.2	3.6	1.1	89.7	1033	Clay		
RRMDD142	5.8	6.8	1.0	94.9	176.9	25.9	109.2	25.2	4.7	24.0	3.9	22.6	4.4	13.0	1.8	3.9	1.6	139.7	652	Clay		
RRMDD142	6.8	7.7	1.0	98.2	186.2	29.7	137.1	30.0	6.2	34.8	5.7	35.9	8.0	22.2	3.2	5.6	3.0	248.9	855	Clay		
RRMDD142	7.7	8.7	1.0	95.5	166.9	24.3	101.4	19.8	4.1	23.9	3.9	23.3	5.3	15.5	2.2	3.8	2.1	192.4	684	Clay		
RRMDD142	8.7	9.6	0.9	92.9	175.1	23.4	97.0	16.1	3.1	17.2	2.6	15.1	3.6	10.0	1.4	2.5	1.4	161.9	623	Upper Saprolite		
RRMDD142	9.6	10.4	0.8	90.3	188.0	20.3	78.7	13.1	2.5	10.5	1.6	8.6	1.8	4.8	0.7	1.5	0.6	68.2	491	Upper Saprolite	**5.6**	**729**

																				>300ppm TREO-Ce_2O_3 Interval	
Hole ID	From m	To m	Int.	La_2O_3 ppm	Ce_2O_3 ppm	Pr_2O_3 ppm	Nd_2O_3 ppm	Sm_2O_3 ppm	Eu_2O_3 ppm	Gd_2O_3 ppm	Tb_2O_3 ppm	Dy_2O_3 ppm	Ho_2O_3 ppm	Er_2O_3 ppm	Tm_2O_3 ppm	Yb_2O_3 ppm	Lu_2O_3 ppm	Y_2O_3 ppm	TREO ppm	Regolith Zone	Length (m)	TREO ppm
RRMDD142	10.4	11.3	0.9	76.2	159.9	17.3	64.7	11.1	2.1	8.7	1.4	7.4	1.4	3.8	0.6	1.3	0.6	44.3	401	Lower Saprolite		
RRMDD142	11.3	12.1	0.8	81.9	172.2	18.8	70.9	11.8	2.3	9.1	1.3	7.5	1.5	3.8	0.5	1.3	0.6	46.0	429	Lower Saprolite		
RRMDD142	12.1	13.0	0.9	72.5	153.4	16.9	62.9	10.4	2.1	8.1	1.2	6.1	1.2	3.2	0.5	1.2	0.5	36.6	377	Lower Saprolite		
RRMDD142	13.0	13.9	1.0	64.4	135.3	14.8	57.3	9.6	1.8	7.6	1.2	6.7	1.4	4.0	0.6	1.2	0.6	46.0	353	Lower Saprolite		
RRMDD142	13.9	14.7	0.8	71.1	152.3	16.5	63.5	10.5	2.2	8.5	1.3	6.9	1.3	3.5	0.5	1.3	0.5	38.9	379	Lower Saprolite		
RRMDD142	14.7	15.6	0.9	72.8	159.9	17.0	64.4	11.0	2.2	9.0	1.3	7.5	1.5	4.0	0.6	1.3	0.6	47.4	400	Lower Saprolite		
RRMDD142	15.6	16.5	0.9	76.5	166.9	17.6	65.7	11.2	2.1	8.8	1.3	7.0	1.3	3.4	0.5	1.3	0.6	39.7	404	Lower Saprolite		
RRMDD142	16.5	17.3	0.8	76.1	173.9	17.8	68.2	11.2	2.4	9.4	1.4	7.8	1.5	4.1	0.6	1.3	0.6	47.6	424	Saprock		
RRMDD142	17.3	18.0	0.8	63.6	142.9	15.0	57.5	10.2	2.0	8.1	1.2	6.6	1.2	3.6	0.5	1.2	0.5	37.7	352	Saprock		
RRMDD143	0.0	0.8	0.8	85.4	170.4	17.3	59.3	11.4	1.7	9.3	1.5	8.9	1.8	5.1	0.8	1.5	0.8	48.8	424	Soil		
RRMDD143	0.8	1.7	0.9	57.6	120.1	10.2	32.9	6.3	1.0	4.7	0.8	5.0	1.0	2.9	0.4	0.8	0.5	25.3	269	Hardcap		
RRMDD143	1.7	2.6	0.9	85.8	562.2	16.8	56.8	11.0	1.7	8.2	1.4	7.9	1.5	4.6	0.7	1.3	0.7	36.3	797	Hardcap		
RRMDD143	2.6	3.5	0.9	125.5	916.0	24.2	80.2	15.0	2.4	10.5	1.7	10.1	1.9	5.6	0.8	1.7	0.9	46.1	1243	Hardcap		
RRMDD143	3.5	4.5	1.0	139.0	258.9	36.5	145.8	24.7	4.3	17.9	2.6	14.3	2.5	6.3	0.9	2.6	0.8	66.3	723	Clay		
RRMDD143	4.5	5.5	1.0	92.5	189.8	22.7	93.2	17.9	3.4	16.5	2.3	13.0	2.4	6.8	0.9	2.3	0.9	68.7	533	Clay		
RRMDD143	5.5	6.3	0.8	86.9	181.0	21.7	93.1	19.7	3.8	19.8	3.2	18.5	3.9	10.4	1.5	3.1	1.4	111.2	579	Clay		
RRMDD143	6.3	7.1	0.8	79.2	158.7	20.0	87.5	18.1	3.5	19.7	3.1	19.7	4.3	12.2	1.8	3.1	1.6	139.7	572	Clay		
RRMDD143	7.1	7.8	0.7	86.7	183.3	23.2	103.0	20.4	4.2	25.2	4.1	26.1	6.4	18.9	2.8	4.0	2.6	246.4	757	Clay		
RRMDD143	7.8	8.6	0.8	79.9	169.3	19.8	81.4	14.3	3.0	16.4	2.5	16.0	4.2	13.0	1.9	2.5	1.9	222.9	649	Upper Saprolite	**5.1**	**633**
RRMDD143	8.6	9.4	0.8	70.7	152.9	16.4	63.5	10.9	2.3	8.8	1.4	8.1	1.7	4.7	0.7	1.4	0.7	49.4	394	Upper Saprolite		
RRMDD143	9.4	10.1	0.7	76.3	169.8	17.9	67.4	11.7	2.4	9.3	1.4	7.3	1.5	3.8	0.6	1.4	0.5	44.4	416	Lower Saprolite		
RRMDD143	10.1	11.0	0.9	74.7	168.1	17.6	67.2	11.7	2.2	8.8	1.2	6.6	1.3	3.4	0.5	1.2	0.5	39.4	404	Lower Saprolite		
RRMDD143	11.0	11.9	0.9	65.2	145.2	15.3	58.7	10.5	2.2	8.7	1.3	7.5	1.5	4.2	0.6	1.3	0.6	46.6	369	Lower Saprolite		
RRMDD143	11.9	12.8	0.9	64.0	144.7	15.1	56.7	10.2	2.3	8.7	1.3	7.4	1.5	4.3	0.6	1.3	0.6	47.7	366	Lower Saprolite		
RRMDD143	12.8	13.5	0.7	60.4	134.7	14.3	54.7	9.7	2.0	8.0	1.2	6.6	1.3	3.6	0.6	1.2	0.5	41.3	340	Saprock		
RRMDD143	13.5	14.2	0.7	59.3	131.2	14.0	54.2	9.8	1.9	7.8	1.2	6.7	1.4	3.6	0.5	1.2	0.5	41.5	335	Saprock		
RRMDD144	0.0	0.9	0.9	121.4	191.5	24.8	87.7	16.6	2.5	13.0	2.0	12.5	2.5	6.9	1.0	2.0	1.0	72.5	558	Soil		
RRMDD144	0.9	1.7	0.9	122.6	218.4	25.3	89.0	16.4	2.5	13.0	1.9	12.2	2.3	6.9	1.0	1.9	1.0	71.2	586	Soil		
RRMDD144	1.7	2.5	0.8	90.2	836.3	17.4	58.1	11.7	1.8	8.3	1.4	8.1	1.6	4.6	0.7	1.4	0.7	37.5	1080	Hardcap		
RRMDD144	2.5	3.3	0.8	106.1	783.6	20.5	68.6	13.6	2.0	9.6	1.6	9.2	1.8	5.1	0.9	1.6	0.8	42.8	1068	Hardcap		
RRMDD144	3.3	4.2	0.9	137.8	1091.7	25.3	81.9	14.8	2.3	10.0	1.7	9.4	1.8	5.3	0.8	1.7	0.8	44.1	1429	Hardcap		
RRMDD144	4.2	4.9	0.7	155.4	227.8	27.9	92.4	13.9	2.2	9.3	1.4	7.5	1.5	4.1	0.6	1.4	0.6	40.5	586	Mottled		
RRMDD144	4.9	5.7	0.8	136.0	141.7	25.3	80.5	14.6	2.5	9.3	1.4	7.9	1.5	4.0	0.7	1.4	0.7	44.4	472	Mottled		
RRMDD144	5.7	6.5	0.8	126.7	142.3	24.7	81.8	15.9	2.9	11.2	1.6	8.9	1.7	4.5	0.7	1.6	0.8	48.9	474	Mottled		
RRMDD144	6.5	7.2	0.7	137.8	179.2	28.4	97.3	19.5	3.8	14.3	2.1	11.4	2.0	5.5	0.8	2.1	0.9	58.5	564	Mottled		
RRMDD144	7.2	7.9	0.7	115.9	178.6	26.3	97.6	21.0	4.1	16.7	2.5	14.3	2.8	7.3	1.1	2.5	1.1	80.1	572	Clay		
RRMDD144	7.9	8.6	0.7	102.9	171.0	26.8	106.1	23.9	4.8	20.6	3.1	18.5	3.6	9.4	1.5	3.0	1.3	105.1	602	Clay		
RRMDD144	8.6	9.5	0.9	130.8	206.1	37.7	155.7	37.9	7.4	32.8	5.1	30.3	5.9	15.6	2.3	5.0	2.0	167.0	842	Upper Saprolite		
RRMDD144	9.5	10.4	0.9	134.3	216.7	39.4	163.3	35.0	6.9	30.5	4.7	29.0	5.9	15.6	2.4	4.7	2.2	179.7	870	Upper Saprolite		
RRMDD144	10.4	11.4	1.0	124.9	207.9	38.5	162.7	34.4	7.0	33.2	5.2	33.7	7.3	20.5	3.2	5.2	2.9	248.9	936	Upper Saprolite		
RRMDD144	11.4	12.6	1.2	114.8	196.2	33.4	138.8	24.9	5.0	26.2	3.9	26.2	6.2	18.4	2.8	3.9	2.7	271.8	875	Upper Saprolite		
RRMDD144	12.6	13.5	0.9	93.7	164.6	20.2	76.4	13.2	2.9	12.9	1.8	11.5	2.8	7.9	1.2	1.8	1.1	168.3	580	Upper Saprolite	**9.3**	**690**
RRMDD144	13.5	14.5	1.0	70.7	148.2	15.7	57.4	11.7	2.5	9.0	1.4	8.1	1.6	4.3	0.7	1.3	0.7	49.5	383	Lower Saprolite		
RRMDD144	14.5	15.5	1.0	64.2	134.1	14.3	50.9	10.3	2.2	7.9	1.2	6.9	1.3	3.5	0.6	1.2	0.5	40.8	340	Lower Saprolite		
RRMDD144	15.5	16.5	1.0	63.6	134.1	14.2	50.0	10.3	2.1	7.7	1.2	7.2	1.4	3.8	0.6	1.2	0.6	42.7	341	Saprock		
RRMDD144	16.5	17.5	1.0	66.7	138.2	14.7	52.0	10.8	2.1	8.0	1.2	6.5	1.3	3.4	0.5	1.1	0.5	39.2	346	Saprock		
RRMDD144	17.5	18.5	1.0	42.8	85.4	9.1	33.0	6.6	1.4	5.3	0.8	5.5	1.1	3.3	0.5	0.8	0.5	38.4	235	Fresh Rock		

																				>300ppm TREO-Ce_2O_3 Interval	
Hole ID	From m	To m	Int.	La_2O_3 ppm	Ce_2O_3 ppm	Pr_2O_3 ppm	Nd_2O_3 ppm	Sm_2O_3 ppm	Eu_2O_3 ppm	Gd_2O_3 ppm	Tb_2O_3 ppm	Dy_2O_3 ppm	Ho_2O_3 ppm	Er_2O_3 ppm	Tm_2O_3 ppm	Yb_2O_3 ppm	Lu_2O_3 ppm	Y_2O_3 ppm	TREO ppm	Regolith Zone	Length (m)	TREO ppm
RRMDD145	0.0	1.0	1.0	52.8	200.3	9.9	33.7	6.4	1.0	5.3	0.9	6.1	1.2	3.8	0.6	0.9	0.6	31.9	355	Soil		
RRMDD145	1.0	1.9	1.0	64.5	386.5	14.2	49.8	10.1	1.7	7.6	1.3	8.0	1.6	4.7	0.7	1.3	0.7	40.1	593	Hardcap		
RRMDD145	1.9	2.8	0.9	98.7	588.0	25.9	91.3	19.3	3.2	13.9	2.4	14.2	2.7	7.9	1.2	2.4	1.1	57.8	930	Hardcap		
RRMDD145	2.8	3.7	0.9	112.6	517.7	30.3	109.4	23.0	3.7	15.9	2.7	16.0	3.0	8.6	1.3	2.7	1.2	64.8	913	Hardcap		
RRMDD145	3.7	4.7	1.0	114.6	611.4	27.9	98.2	21.0	3.5	15.4	2.6	15.3	2.9	8.4	1.3	2.6	1.2	63.5	990	Transition		
RRMDD145	4.7	5.8	1.1	110.1	917.1	23.3	79.8	16.6	2.6	11.8	2.1	12.3	2.4	6.9	1.0	2.1	1.0	53.1	1242	Transition		
RRMDD145	5.8	6.7	1.0	148.9	264.7	29.7	98.7	19.4	3.6	13.4	1.9	11.0	2.0	5.3	0.9	1.9	0.8	52.4	655	Clay		
RRMDD145	6.7	7.7	1.0	187.6	204.4	37.6	133.0	25.6	4.9	20.9	3.2	19.9	4.2	11.9	1.9	3.2	1.8	154.3	814	Clay		
RRMDD145	7.7	8.6	0.9	348.3	301.0	84.8	303.3	46.5	8.6	34.6	4.9	29.2	5.7	15.0	2.2	4.9	2.0	208.3	1399	Clay		
RRMDD145	8.6	9.6	1.0	122.6	212.6	35.1	144.6	29.8	6.1	27.5	4.3	27.0	5.6	15.9	2.5	4.3	2.3	212.1	852	Clay		
RRMDD145	9.6	10.5	0.9	114.7	202.6	31.2	127.7	26.4	5.3	24.1	3.7	23.3	5.1	14.4	2.3	3.7	2.1	190.5	777	Upper Saprolite		
RRMDD145	10.5	11.4	0.9	95.5	214.3	23.5	95.5	20.6	4.3	21.5	3.1	19.5	4.5	12.9	2.0	3.1	1.8	205.1	727	Upper Saprolite	**5.7**	**872**
RRMDD145	11.4	12.3	0.9	79.3	167.5	15.7	53.4	10.2	2.0	7.8	1.2	7.3	1.5	4.4	0.7	1.2	0.7	53.2	406	Upper Saprolite		
RRMDD145	12.3	13.2	0.8	83.6	193.9	18.7	66.5	13.1	2.5	9.2	1.3	7.0	1.3	3.6	0.6	1.3	0.6	41.1	444	Upper Saprolite		
RRMDD145	13.2	14.2	1.0	76.2	172.8	17.1	61.8	12.6	2.6	10.1	1.5	9.0	1.9	5.2	0.8	1.5	0.8	65.4	439	Lower Saprolite		
RRMDD145	14.2	15.1	0.9	85.3	187.4	18.5	65.2	13.0	2.6	9.9	1.5	8.9	1.8	5.2	0.8	1.5	0.8	62.5	465	Lower Saprolite		
RRMDD145	15.1	16.0	0.9	97.2	226.6	21.5	75.6	14.7	2.8	10.5	1.5	7.9	1.4	3.8	0.6	1.5	0.5	41.3	507	Lower Saprolite		
RRMDD145	16.0	17.0	1.0	88.1	198.5	19.5	68.9	13.9	2.7	10.0	1.4	8.1	1.6	4.1	0.6	1.4	0.6	47.6	467	Saprock		
RRMDD145	17.0	18.0	1.0	64.9	138.8	14.6	52.0	10.6	2.1	8.0	1.2	7.2	1.4	4.2	0.7	1.2	0.6	47.7	355	Saprock		
RRMDD145	18.0	19.0	1.0	84.9	206.1	20.1	73.2	13.9	2.4	9.8	1.4	7.1	1.3	3.5	0.5	1.3	0.5	38.2	464	Saprock		
RRMDD145	19.0	20.0	1.0	73.5	175.7	17.5	64.4	12.5	2.2	9.0	1.3	7.7	1.5	4.2	0.6	1.3	0.6	46.7	419	Saprock		
RRMDD146	0.0	0.2	0.2	56.3	121.8	12.3	44.0	9.4	1.5	8.3	1.4	8.1	1.6	4.6	0.7	1.3	0.6	43.7	316	Soil		
RRMDD146	0.2	1.2	1.0	42.7	100.3	8.7	29.3	6.4	1.0	5.0	0.9	5.4	1.1	3.2	0.5	0.8	0.6	27.4	233	Hardcap		
RRMDD146	1.2	2.2	1.0	70.4	209.7	14.5	50.5	10.3	1.7	8.1	1.3	8.4	1.7	5.0	0.7	1.3	0.7	42.3	427	Hardcap		
RRMDD146	2.2	3.2	1.0	87.4	320.9	19.4	68.8	14.7	2.5	11.1	1.9	12.2	2.4	7.1	1.1	1.9	1.0	55.5	608	Hardcap		
RRMDD146	3.2	4.2	1.0	83.7	308.1	19.7	72.7	16.1	3.0	13.5	2.4	15.3	3.0	9.1	1.4	2.4	1.4	67.1	619	Hardcap		
RRMDD146	4.2	5.4	1.1	104.6	1008.5	24.2	83.4	18.8	3.1	14.4	2.6	15.7	3.0	9.0	1.3	2.6	1.3	63.5	1356	Hardcap		
RRMDD146	5.4	5.8	0.4	115.4	1235.7	24.0	79.3	15.8	2.6	11.4	1.9	11.3	2.2	6.1	0.9	1.9	0.9	48.1	1558	Transition		
RRMDD146	5.8	6.8	1.0	119.0	199.1	23.2	76.4	13.5	2.3	9.5	1.4	7.8	1.6	4.5	0.7	1.4	0.7	42.9	504	Pallid		
RRMDD146	6.8	7.8	1.0	107.3	183.9	21.7	71.9	12.3	2.0	8.4	1.3	7.2	1.4	4.2	0.6	1.2	0.7	41.0	465	Pallid		
RRMDD146	7.8	8.8	1.0	92.8	256.5	22.2	83.2	15.9	2.7	11.4	1.6	9.1	1.8	5.0	0.7	1.6	0.8	50.7	556	Pallid		
RRMDD146	8.8	9.8	1.0	102.9	189.2	23.3	84.9	15.9	2.7	11.3	1.6	9.6	1.8	5.1	0.8	1.6	0.8	51.0	502	Pallid		
RRMDD146	9.8	10.8	1.0	94.8	212.0	28.6	113.4	23.1	4.1	17.3	2.5	14.6	2.8	7.7	1.1	2.5	1.1	84.6	610	Pallid		
RRMDD146	10.8	11.8	1.0	99.5	213.2	26.8	107.1	22.8	4.2	19.5	2.9	16.5	3.1	8.3	1.2	2.9	1.1	89.9	619	Clay		
RRMDD146	11.8	12.8	1.0	88.8	214.3	23.6	93.1	18.3	3.5	16.6	2.4	14.6	3.1	8.7	1.3	2.4	1.3	100.7	593	Clay		
RRMDD146	12.8	13.8	1.0	89.1	211.4	21.4	81.5	15.8	2.9	13.6	1.9	11.5	2.5	7.5	1.1	1.9	1.1	115.3	579	Clay	**8.0**	**553**
RRMDD146	13.8	14.8	1.0	87.0	225.5	20.3	73.8	13.7	2.5	10.6	1.5	8.3	1.6	4.6	0.7	1.5	0.7	58.5	511	Clay		
RRMDD146	14.8	15.8	1.0	80.7	202.6	19.1	70.0	13.6	2.6	10.1	1.5	8.4	1.6	4.5	0.7	1.5	0.7	52.7	470	Clay		
RRMDD146	15.8	16.8	1.0	84.2	197.4	19.5	71.0	13.6	2.6	10.6	1.5	8.7	1.7	4.6	0.7	1.5	0.7	54.0	472	Clay		
RRMDD146	16.8	17.9	1.1	72.9	173.9	16.5	60.5	11.5	2.1	8.3	1.2	7.3	1.4	4.1	0.6	1.2	0.6	42.9	405	Clay		
RRMDD146	17.9	19.9	2.0	79.3	180.4	18.6	67.0	12.8	2.4	9.8	1.4	7.8	1.5	4.3	0.6	1.4	0.6	51.2	439	Upper Saprolite		
RRMDD146	18.9	19.9	1.0	77.4	182.1	17.7	65.3	12.5	2.3	9.6	1.4	8.4	1.7	4.9	0.7	1.4	0.7	56.5	443	Upper Saprolite		
RRMDD146	19.9	20.8	0.9	78.2	195.0	18.1	66.3	12.5	2.3	9.2	1.3	6.6	1.2	3.4	0.5	1.3	0.5	38.6	435	Lower Saprolite		
RRMDD146	20.8	21.6	0.8	88.1	212.6	20.9	76.0	14.8	2.8	11.5	1.6	9.9	2.0	5.5	0.8	1.6	0.7	59.4	508	Saprock		
RRMDD146	21.6	22.9	1.3	88.3	220.8	20.7	75.5	14.4	2.6	10.0	1.4	7.4	1.4	3.7	0.6	1.4	0.6	37.5	486	Saprock		
RRMDD147	0.0	0.8	0.8	99.1	151.7	19.8	74.4	13.9	2.4	12.7	2.0	12.1	2.5	7.1	1.0	1.9	1.0	74.4	476	Soil		
RRMDD147	0.8	1.5	0.8	110.6	169.8	22.1	81.3	15.7	2.7	13.1	2.1	13.3	2.7	7.8	1.1	2.1	1.1	81.7	527	Hardcap		

																				>300ppm TREO-Ce_2O_3 Interval	
Hole ID	From m	To m	Int.	La_2O_3 ppm	Ce_2O_3 ppm	Pr_2O_3 ppm	Nd_2O_3 ppm	Sm_2O_3 ppm	Eu_2O_3 ppm	Gd_2O_3 ppm	Tb_2O_3 ppm	Dy_2O_3 ppm	Ho_2O_3 ppm	Er_2O_3 ppm	Tm_2O_3 ppm	Yb_2O_3 ppm	Lu_2O_3 ppm	Y_2O_3 ppm	TREO ppm	Regolith Zone	Length (m)	TREO ppm
RRMDD147	1.5	2.3	0.8	109.3	193.9	22.0	79.4	15.2	2.6	13.0	2.1	12.5	2.6	7.4	1.1	2.1	1.1	77.0	541	Hardcap		
RRMDD147	2.3	3.0	0.8	98.3	353.7	18.8	63.2	11.9	2.1	9.2	1.6	9.2	1.9	5.5	0.8	1.6	0.8	44.3	623	Hardcap		
RRMDD147	3.0	3.9	0.9	190.6	244.8	36.6	127.7	20.6	3.5	16.1	2.3	13.6	2.7	7.7	1.2	2.3	1.1	77.6	748	Transition		
RRMDD147	3.9	4.8	0.9	132.5	227.2	27.2	97.3	17.8	3.0	13.4	2.0	11.4	2.3	6.4	0.9	2.0	0.9	62.5	607	Clay		
RRMDD147	4.8	5.8	1.0	128.4	193.9	30.1	107.4	18.7	3.2	14.7	2.0	12.2	2.2	6.3	0.9	2.0	0.9	60.3	583	Clay		
RRMDD147	5.8	6.5	0.7	90.0	182.1	20.9	74.8	13.3	2.5	12.1	1.8	11.0	2.0	6.6	0.9	1.8	0.9	57.3	478	Clay		
RRMDD147	6.5	7.3	0.9	94.9	190.9	24.0	95.9	20.1	3.9	18.9	2.8	17.3	3.2	9.0	1.2	2.8	1.1	91.7	578	Clay		
RRMDD147	7.3	8.2	0.9	90.0	183.9	22.1	86.2	17.3	3.5	17.6	2.7	16.6	3.3	10.2	1.3	2.7	1.3	107.3	566	Clay		
RRMDD147	8.2	9.1	0.9	88.1	195.0	25.5	113.4	21.7	4.3	25.1	3.8	28.1	6.6	21.6	2.9	3.8	2.8	251.4	794	Clay		
RRMDD147	9.1	9.9	0.8	104.1	249.5	30.9	123.6	19.9	3.9	23.9	3.6	26.1	7.3	27.1	3.7	3.6	3.7	440.7	1071	Upper Saprolite		
RRMDD147	9.9	10.7	0.8	95.0	217.3	24.2	94.6	15.5	3.0	15.2	2.2	15.3	3.8	12.9	1.8	2.2	1.8	276.8	782	Upper Saprolite	**6.8**	**682**
RRMDD147	10.7	11.5	0.8	77.6	169.8	17.7	69.1	12.5	2.4	9.8	1.5	8.4	1.6	4.8	0.6	1.5	0.6	51.6	429	Upper Saprolite		
RRMDD147	11.5	12.6	1.1	66.8	144.7	15.2	58.7	10.9	2.1	8.8	1.2	7.0	1.2	3.7	0.5	1.2	0.5	41.8	364	Saprock		
RRMDD147	12.6	13.7	1.1	72.9	163.4	17.1	64.3	11.4	2.2	9.4	1.3	7.5	1.4	4.2	0.6	1.3	0.6	46.2	404	Saprock		
RRMDD148	0.0	0.5	0.5	83.2	223.1	15.6	53.5	10.2	1.6	8.5	1.4	8.7	1.8	5.2	0.8	1.4	0.8	50.4	466	Soil		
RRMDD148	0.5	1.5	1.0	99.5	333.8	15.2	47.1	9.2	1.4	6.3	1.1	7.1	1.3	4.1	0.7	1.1	0.6	30.2	559	Hardcap		
RRMDD148	1.5	2.4	1.0	114.0	761.3	18.1	56.0	10.5	1.7	7.2	1.3	7.6	1.5	4.4	0.7	1.3	0.6	33.4	1020	Hardcap		
RRMDD148	2.4	3.4	1.0	121.4	795.3	20.7	67.2	12.6	1.9	8.6	1.5	8.7	1.7	4.9	0.8	1.5	0.7	40.9	1088	Hardcap		
RRMDD148	3.4	4.4	1.0	106.8	877.3	21.5	74.5	13.5	2.3	9.7	1.6	9.2	1.8	5.3	0.8	1.6	0.8	46.6	1173	Hardcap		
RRMDD148	4.4	5.1	0.7	107.3	901.9	22.1	78.0	13.9	2.3	9.7	1.6	9.0	1.9	5.4	0.8	1.6	0.8	46.2	1202	Transition		
RRMDD148	5.1	5.7	0.7	110.5	671.2	22.2	80.7	14.0	2.5	10.6	1.6	9.2	1.9	5.6	0.9	1.6	0.8	50.8	984	Transition		
RRMDD148	5.7	6.4	0.6	182.4	344.4	36.9	124.8	21.2	3.3	14.2	2.1	11.6	2.2	6.2	0.9	2.1	1.0	60.2	813	Clay		
RRMDD148	6.4	7.0	0.7	184.7	251.8	39.2	133.6	23.1	3.8	16.1	2.4	13.2	2.4	6.8	1.0	2.4	1.0	65.5	747	Clay		
RRMDD148	7.0	7.9	0.9	99.9	213.8	26.0	101.6	21.6	3.9	17.9	2.6	15.4	2.9	8.0	1.2	2.6	1.1	78.4	597	Clay		
RRMDD148	7.9	8.8	0.9	88.5	153.4	25.4	106.5	22.6	4.3	21.2	3.2	20.1	4.3	12.6	1.9	3.2	1.8	135.9	605	Clay		
RRMDD148	8.8	9.8	0.9	79.9	186.8	19.2	71.6	14.4	2.7	11.4	1.7	9.8	2.0	5.6	0.8	1.7	0.8	60.8	469	Clay		
RRMDD148	9.8	10.7	0.9	93.2	175.1	26.8	116.1	22.1	4.1	23.4	3.4	22.2	5.1	14.8	2.0	3.4	1.9	201.9	716	Upper Saprolite		
RRMDD148	10.7	11.6	0.9	65.2	149.9	15.7	58.4	11.6	2.1	8.8	1.3	7.5	1.5	4.4	0.7	1.3	0.7	49.7	379	Upper Saprolite		
RRMDD148	11.6	12.5	0.9	79.0	165.7	20.0	80.1	14.7	2.8	13.5	1.9	12.0	2.8	7.9	1.1	1.9	1.1	125.5	530	Lower Saprolite	**6.8**	**593**
RRMDD148	12.5	13.5	1.0	79.8	173.9	18.7	68.8	13.6	2.5	11.0	1.6	9.2	1.8	5.1	0.8	1.6	0.8	55.1	444	Lower Saprolite		
RRMDD148	13.5	14.5	1.0	68.6	151.7	16.4	61.5	12.5	2.3	10.4	1.6	9.4	1.9	5.6	0.8	1.6	0.8	63.1	408	Lower Saprolite		
RRMDD148	14.5	15.3	0.8	71.9	157.0	16.7	61.4	11.9	2.2	9.4	1.3	7.6	1.5	4.1	0.6	1.3	0.6	43.9	391	Saprock		
RRMDD148	15.3	16.2	0.9	61.1	128.8	14.5	52.8	10.0	1.9	9.0	1.3	7.9	1.6	5.0	0.7	1.3	0.7	52.2	349	Saprock		
RRMDD148	16.2	17.1	0.9	63.0	134.7	14.4	54.4	10.0	1.9	8.1	1.1	6.2	1.2	3.4	0.5	1.1	0.5	34.9	335	Saprock		
RRMDD148	17.1	18.0	0.9	63.4	134.1	14.6	58.1	10.4	2.0	8.8	1.2	7.5	1.3	4.3	0.5	1.2	0.6	39.7	348	Fresh Rock		
RRMDD149	0.0	0.3	0.3	85.8	155.8	18.3	68.7	13.0	2.3	11.1	1.8	10.7	2.2	6.5	0.9	1.8	0.9	65.7	446	Soil		
RRMDD149	0.3	0.9	0.6	76.5	147.0	17.0	62.9	12.3	2.3	10.5	1.7	10.1	2.1	6.2	0.9	1.7	0.9	59.8	412	Soil		
RRMDD149	0.9	2.0	1.1	56.8	151.1	10.6	38.1	7.6	1.4	6.0	1.1	6.5	1.3	4.1	0.6	1.1	0.6	36.6	323	Hardcap		
RRMDD149	2.0	3.0	1.1	61.5	299.9	12.4	49.3	9.1	1.7	7.2	1.3	7.6	1.6	4.6	0.7	1.3	0.7	40.6	499	Hardcap		
RRMDD149	3.0	3.9	0.9	90.8	800.0	20.0	72.3	13.7	2.6	10.3	1.8	10.5	2.1	6.0	0.9	1.8	0.9	50.4	1084	Hardcap		
RRMDD149	3.9	4.8	0.9	90.2	638.4	20.1	72.2	14.4	2.7	11.1	1.9	10.9	2.1	6.4	1.0	1.9	1.0	53.2	927	Hardcap		
RRMDD149	4.8	5.7	0.9	128.4	791.8	26.3	93.9	18.3	3.4	14.1	2.3	13.5	2.6	7.6	1.1	2.3	1.2	61.5	1168	Hardcap		
RRMDD149	5.7	6.6	0.9	60.3	199.7	12.4	44.3	7.3	1.4	6.4	0.9	6.6	1.2	3.7	0.5	0.9	0.5	36.4	383	Hardcap		
RRMDD149	6.6	7.5	0.9	45.6	103.3	11.0	41.3	7.1	1.3	5.6	0.8	5.4	1.1	3.4	0.5	0.8	0.5	33.9	261	Mottled		
RRMDD149	7.5	8.4	0.9	70.6	67.9	14.9	56.7	9.2	1.7	7.2	0.9	6.0	1.2	3.8	0.5	0.9	0.6	38.5	281	Clay		
RRMDD149	8.4	9.4	0.9	72.8	101.2	16.9	63.6	10.3	1.9	7.9	1.0	6.3	1.1	3.9	0.5	1.0	0.5	39.4	328	Clay		
RRMDD149	9.4	10.3	0.9	68.5	86.1	15.3	57.5	9.2	1.9	7.7	1.0	5.5	1.1	3.2	0.4	1.0	0.5	34.7	294	Clay		

																				>300ppm TREO-Ce_2O_3 Interval	
Hole ID	From m	To m	Int.	La_2O_3 ppm	Ce_2O_3 ppm	Pr_2O_3 ppm	Nd_2O_3 ppm	Sm_2O_3 ppm	Eu_2O_3 ppm	Gd_2O_3 ppm	Tb_2O_3 ppm	Dy_2O_3 ppm	Ho_2O_3 ppm	Er_2O_3 ppm	Tm_2O_3 ppm	Yb_2O_3 ppm	Lu_2O_3 ppm	Y_2O_3 ppm	TREO ppm	Regolith Zone	Length (m)	TREO ppm
RRMDD149	10.3	11.2	0.9	64.4	96.0	13.1	48.4	8.4	1.7	7.0	0.9	5.3	1.0	3.1	0.4	0.9	0.4	33.5	285	Clay		
RRMDD149	11.2	12.3	1.1	50.2	107.9	11.4	40.6	7.0	1.6	5.9	0.9	4.9	0.9	2.9	0.4	0.9	0.4	30.6	267	Clay		
RRMDD149	12.3	14.4	2.1	44.0	89.8	10.4	38.1	6.5	1.6	5.8	0.7	4.4	0.8	2.4	0.3	0.7	0.3	25.9	232	Clay		
RRMDD149	14.4	16.0	1.6	47.9	81.2	11.1	42.0	7.4	1.7	5.9	0.8	4.8	0.8	2.5	0.4	0.8	0.3	27.8	235	Clay		
RRMDD149	16.0	18.0	2.0	45.2	79.8	9.6	35.9	6.0	1.6	5.1	0.7	4.2	0.8	2.5	0.3	0.7	0.3	25.1	218	Clay		
RRMDD149	18.0	20.0	2.0	35.2	74.8	7.7	29.4	5.0	1.2	4.1	0.5	3.1	0.6	2.0	0.3	0.5	0.2	20.2	185	Clay		
RRMDD149	20.0	22.0	2.0	36.8	95.5	8.6	32.4	5.4	1.4	4.8	0.6	3.6	0.7	2.3	0.3	0.6	0.3	22.2	216	Clay		
RRMDD149	22.0	23.8	1.8	38.2	86.1	8.8	33.5	6.0	1.3	4.9	0.7	4.1	0.8	2.3	0.3	0.7	0.3	24.4	213	Clay		
RRMDD149	23.8	25.4	1.7	36.8	71.8	8.0	30.2	5.1	1.2	3.9	0.5	2.9	0.5	1.5	0.2	0.5	0.2	16.5	180	Clay		
RRMDD149	25.4	27.0	1.6	32.5	64.9	7.7	28.6	5.1	1.4	4.1	0.5	3.1	0.6	1.9	0.2	0.5	0.3	17.9	169	Clay		
RRMDD150	0.0	0.9	0.9	98.9	144.1	20.5	76.2	14.1	2.4	12.4	2.0	12.6	2.5	7.0	1.0	2.0	1.0	75.4	472	Soil		
RRMDD150	0.9	1.7	0.9	93.7	145.2	19.6	70.9	13.1	2.3	11.9	1.8	11.4	2.4	6.9	1.0	1.8	1.0	70.4	453	Soil		
RRMDD150	1.7	2.7	1.0	88.5	652.4	16.0	57.4	10.0	1.7	7.1	1.2	7.1	1.4	4.2	0.7	1.2	0.6	35.8	885	Hardcap		
RRMDD150	2.7	3.7	1.0	168.3	517.7	30.1	95.6	16.0	2.6	11.7	1.9	11.1	2.2	6.3	0.9	1.8	0.9	51.3	919	Hardcap		
RRMDD150	3.7	4.6	0.9	160.1	256.5	42.7	165.6	26.3	4.4	19.2	2.2	11.4	2.0	5.4	0.7	2.2	0.7	56.8	756	Clay		
RRMDD150	4.6	5.6	1.0	89.1	164.0	21.5	84.0	15.4	2.9	14.1	1.9	10.4	2.1	6.1	0.8	1.9	0.8	61.0	476	Clay		
RRMDD150	5.6	6.6	1.0	83.2	157.5	19.3	77.8	14.3	2.8	13.1	1.8	10.1	2.1	6.0	0.8	1.8	0.8	65.7	457	Clay		
RRMDD150	6.6	7.6	1.0	100.9	192.7	27.2	114.2	20.4	3.7	16.8	2.3	12.5	2.3	6.6	0.9	2.3	0.8	66.7	570	Clay		
RRMDD150	7.6	8.5	0.9	106.1	211.4	35.3	159.2	30.0	5.1	22.6	3.2	16.0	2.7	7.3	1.0	3.2	0.8	74.2	678	Clay		
RRMDD150	8.5	9.5	1.0	94.2	182.1	25.3	107.3	22.2	3.9	19.2	2.5	13.8	2.4	6.6	0.8	2.5	0.7	64.0	548	Clay	5.8	578
RRMDD150	9.5	10.3	0.8	68.1	140.0	17.7	73.8	14.6	3.0	14.8	2.1	12.0	2.3	6.3	0.9	2.1	0.8	66.4	425	Upper Saprolite		
RRMDD150	10.3	11.2	0.9	71.0	145.8	18.0	73.4	15.5	2.8	15.4	2.2	12.6	2.5	6.9	0.9	2.2	0.9	74.2	444	Upper Saprolite		
RRMDD150	11.2	11.9	0.7	66.8	142.9	16.4	66.3	14.1	3.1	15.6	2.2	12.3	2.7	8.0	1.1	2.2	1.0	87.5	442	Upper Saprolite		
RRMDD150	11.9	12.7	0.8	62.5	135.3	15.4	61.8	11.8	2.8	13.2	2.0	11.2	2.4	6.7	0.9	2.0	0.8	77.2	406	Upper Saprolite		
RRMDD150	12.7	13.6	0.9	64.7	137.0	15.5	59.6	12.1	2.3	12.9	1.8	10.3	2.2	6.8	0.9	1.8	0.9	81.9	411	Upper Saprolite		
RRMDD150	13.6	14.5	0.9	62.0	137.0	15.1	59.6	11.5	2.3	11.1	1.6	9.2	2.2	6.2	0.8	1.6	0.9	80.8	402	Lower Saprolite		
RRMDD150	14.5	15.5	1.0	60.4	128.8	14.2	55.9	10.5	2.2	10.0	1.4	7.7	1.8	5.4	0.7	1.4	0.7	72.8	374	Lower Saprolite		
RRMDD150	15.5	16.3	0.8	75.5	152.9	16.3	62.3	11.8	2.4	10.9	1.6	8.6	1.9	5.5	0.8	1.5	0.7	81.3	434	Saprock		
RRMDD150	16.3	17.2	0.9	58.6	130.0	14.2	53.8	10.0	2.2	9.5	1.4	7.3	1.6	4.5	0.6	1.4	0.6	60.4	356	Saprock		
RRMDD150	17.2	18.1	0.9	68.4	148.8	16.6	64.3	12.8	2.7	11.1	1.6	9.1	1.9	5.3	0.8	1.6	0.8	65.8	412	Saprock		
RRMDD150	18.1	19.0	0.9	66.1	147.6	16.0	62.8	11.8	2.3	9.8	1.4	7.4	1.5	4.7	0.6	1.4	0.6	47.7	382	Saprock		

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. The core was not oriented (vertical)
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 83% to 100% and averaged 98%. No relationship exists between core recovery and grade.
Logging	• *Whether core and chip samples have been geologically and*	All (100%) drill core has been geologically logged and core photographs taken.

<table>
<tr><th>Criteria</th><th>JORC Code explanation</th><th>Commentary</th></tr>
<tr><td></td><td>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.</td><td>Logging is qualitative with description of colour, weathering status, alteration, major and minor rock types, texture, grain size, regolith zone, presence of kaolinite, hematite, veins and alteration 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.</td></tr>
<tr><td>Sub-sampling techniques and sample preparation</td><td>• If core, whether cut or sawn and whether quarter, half or all core taken.
• If non-core, whether riffled, tube sampled, rotary split, etc and whether sampled wet or dry.
• For all sample types, the nature, quality and appropriateness of the sample preparation technique.
• Quality control procedures adopted for all sub-sampling stages to maximise representivity of samples.
• Measures taken to ensure that the sampling is representative of the in situ material collected, including for instance results for field duplicate/second-half sampling.
• Whether sample sizes are appropriate to the grain size of the material being sampled.</td><td>Diamond Drill Core

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.

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.

Samples were collected from core trays by hand and placed in individually numbered bags. These bags were dispatched to ALS for analysis with no further field preparation.

Sample weights were recorded prior to sample dispatch. Sample mass is considered appropriate for the grain size of the material being sampled that is generally very fine grained and uniform.

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.</td></tr>
<tr><td>Quality of assay data and laboratory tests</td><td>• The nature, quality and appropriateness of the assaying and laboratory procedures used and whether the technique is considered partial or total.
• For geophysical tools, spectrometers, handheld XRF instruments, etc, the parameters used in determining the analysis including instrument make and model, reading times, calibrations factors applied and their derivation, etc.
• Nature of quality control procedures adopted (eg standards, blanks, duplicates, external laboratory checks) and whether acceptable levels of accuracy (ie lack of bias) and precision have been established.</td><td>Assay and Laboratory Procedures – All Samples

Samples were dispatched by air freight direct to ALS laboratory Perth Australia. The preparation and analysis protocol used is as follows:

<table>
<tr><th>ALS Code</th><th>Description</th></tr>
<tr><td>WEI-21</td><td>Received sample weight</td></tr>
<tr><td>LOG-22</td><td>Sample Login w/o Barcode</td></tr>
<tr><td>DRY-21</td><td>High temperature drying</td></tr>
</table>
</td></tr>
</table>

Criteria	JORC Code explanation	Commentary

CRU-21	Crush entire sample
CRU-31	Fine crushing – 70% <2mm
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

The assay technique used for REE was Lithium Borate Fusion ICP-MS (ALS code ME-MS81). This is a recognised industry standard analysis technique for REE suite and associated elements. Elements analysed at ppm levels:

Ba	Ce	Cr	Cs	Dy	Er	Eu	Ga
Gd	Hf	Ho	La	Lu	Nb	Nd	Pr
Rb	Sm	Sn	Sr	Ta	Tb	Th	Tm
U	V	W	Y	Yb	Zr		

Analysis for scandium (Sc) was by Lithium Borate Fusion ICP-AES (ALS code Sc-ICP06).

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 were included in sample batches at a ratio of 1:25 to drill samples submitted. This is an acceptable ratio.

Criteria	JORC Code explanation	Commentary
		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. Laboratory inserted standards, blanks and duplicates were analysed as per industry standard practice. There is no evidence of bias from these results.
Verification of sampling and assaying	• *The verification of significant intersections by either independent or alternative company personnel.* • *The use of twinned holes.* • *Documentation of primary data, data entry procedures, data verification, data storage (physical and electronic) protocols.* • *Discuss any adjustment to assay data.*	No independent verification of significant intersection undertaken. No twinning of diamond core drill holes was undertaken. Sampling protocols for diamond core sampling and QAQC were documented and held on site by the responsible geologist. No procedures for data storage and management have been compiled as yet. 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. Sample numbers from assay data are verified by algorithm in spreadsheet prior to entry int the database. Assay data was 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 assay data and sampling data have been conducted to ensure data entry is correct.

Criteria	JORC Code explanation	Commentary

All assay data is received from the laboratory in element form is unadjusted for data entry.

Conversion of elemental analysis (REE) to stoichiometric oxide (REO) was undertaken by spreadsheet using defined conversion factors.(Source:https://www.jcu.edu.au/advanced-analytical-centre/services-and-resources/resources-and-extras/element-to-stoichiometric-oxide-conversion-factors)

Element ppm	Conversion Factor	Oxide Form
Ce	1.1713	Ce_2O_3
Dy	1.1477	Dy_2O_3
Er	1.1435	Er_2O_3
Eu	1.1579	Eu_2O_3
Gd	1.1526	Gd_2O_3
Ho	1.1455	Ho_2O_3
La	1.1728	La_2O_3
Lu	1.1371	Lu_2O_3
Nd	1.1664	Nd_2O_3
Pr	1.1703	Pr_2O_3
Sm	1.1596	Sm_2O_3
Tb	1.151	Tb_2O_3
Tm	1.1421	Tm_2O_3
Y	1.2699	Y_2O_3
Yb	1.1387	Yb_2O_3

Rare earth oxide is the industry accepted form for reporting rare earths. The following calculations are used for compiling REO into their reporting and evaluation groups:

Criteria	JORC Code explanation	Commentary
		TREO (Total Rare Earth Oxide) = La_2O_3 + Ce_2O_3 + Pr_2O_3 + Nd_2O_3 + Sm_2O_3 + Eu_2O_3 + Gd_2O_3 + Tb_2O_3 + Dy_2O_3 + Ho_2O_3 + Er_2O_3 + Tm_2O_3 + Yb_2O_3 + Y_2O_3 + Lu_2O_3. Note that Y_2O_3 is included in the TREO calculation. HREO (Heavy Rare Earth Oxide) = Sm_2O_3 + Eu_2O_3 + Gd_2O_3 + Tb_2O_3 + Dy_2O_3 + Ho_2O_3 + Er_2O_3 + Tm_2O_3 + Yb_2O_3, + Y_2O_3 + Lu_2O_3 CREO (Critical Rare Earth Oxide) = Nd_2O_3 + Eu_2O_3 + Tb_2O_3 + Dy_2O_3 + Y_2O_3 LREO (Light Rare Earth Oxide) = La_2O_3 + Ce_2O_3 + Pr_2O_3 + Nd_2O_3 HREO% of TREO= HREO/TREO x 100 In elemental form the classifications are: TREE: La+Ce+Pr+Nd+Sm+Eu+Gd+Tb+Dy+Ho+Er+Tm+Yb+Lu+Y 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 in Mineral Resource estimation.* • *Specification of the grid system used.* • *Quality and adequacy of topographic control.*	Drill hole collar locations for holes RRMDD001 to RRMDD041 were surveyed a relational DGPS system. The general accuracy for x,y and z is $\pm$ 0.2m. Hole locations for RRMDD042 – RRMDD150 were surveyed using handheld GPS. The accuracy for this type of device is considered $\pm$ 5m in x and y coordinates however the elevation component of coordinates is variable and z accuracy may be low using this type of device. 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. 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 Detailed topographic data was not sourced or used.
Data spacing and distribution	• *Data spacing for reporting of Exploration Results.* • *Whether the data spacing and distribution is sufficient to establish the degree of geological and grade continuity appropriate for the Mineral Resource and Ore Reserve estimation procedure(s) and classifications applied.*	Drilling was conducted on a nominal 400m x 400m spacing for holes RRMDD001 to RRMDD0041, RRMDD055, RRMDD056 and RRMDD069 to RRMDD150

Criteria	JORC Code explanation	Commentary
	• *Whether sample compositing has been applied.*	Infill drill holes on RL1693 have been drilled on a 200m x 200m spacing for holes RRMDD047 to RRMDD053, and 100m x 100m spacing for drill holes RRMDD0058 to RRMDD068 Exploration drill holes RRMDD042 to RRMDD046 on EL1766 were drilled where convenient on ternary and elevation anomalies and are not to any specific spacing. Historic RAB drilling has also been conducted on this spacing however the diamond drilling was offset by 200m from the RAB drilling Resource estimates have been made on the deposit and announce to the ASX and detail on classification and drill quality and spacing are made in the Table 1 related to the corresponding resource announcements.
Orientation of data in relation to geological structure	• *Whether the orientation of sampling achieves unbiased sampling of possible structures and the extent to which this is known, considering the deposit type.* • *If the relationship between the drilling orientation and the orientation of key mineralised structures is considered to have introduced a sampling bias, this should be assessed and reported if material.*	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 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 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*	The Makuutu Project is located in the Republic of Uganda. The mineral tenements comprise two (1) granted Retention Licences (RL1693 and RL0007), one (1) Exploration Licence (EL1766).

<table>
<tr><th>Criteria</th><th>JORC Code explanation</th><th>Commentary</th></tr>
<tr><td></td><td>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.</td><td>All 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. Ionic Rare Earths (IXR) currently has a 46% shareholding in RRM and may increase its shareholding to 60% by meeting expenditure commitments.

1. IXR to contribute US$1,700,000 of expenditure by 1 October 2020 to earn up to a 51% staged interest in RRM as follows;
<table><tr><th>Spend</th><th>Interest earned</th><th>Cumulative Interest earned</th></tr><tr><td>Exercise of Option US$100,000 of cash plus US$150,000 of shares</td><td>20%</td><td>20%</td></tr><tr><td>Expenditure contribution of US$650,000</td><td>11%</td><td>31%</td></tr><tr><td>Expenditure contribution of a further US$800,000</td><td>15%</td><td>46%</td></tr><tr><td>Expenditure contribution of a further US$350,000</td><td>5%</td><td>51%</td></tr></table>2. IXR to fund to completion of a bankable feasibility study to earn an additional 9% interest for a cumulative 60% interest in RRM.
3. During the earn-in phase there are milestone payments, payable in cash or IXR shares at the election of the Vendor, as follows:
• US$750,000 on the Grant of Retention Licence over RL1693 which is due to expire on 1 November 2020;
• US$375,000 on production of 10 kg of mixed rare-earth product from pilot or demonstration plant activities; and
• US$375,000 on conversion of existing licences to mining licences.
At any time should IXR not continue to invest in the project and project development ceases for at least two months RRM has the right to return the capital sunk by IXR and reclaim all interest earnt by IXR.</td></tr>
<tr><td>Exploration done by other parties</td><td>• Acknowledgment and appraisal of exploration by other parties.</td><td>Previous exploration includes:

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.</td></tr>
</table>

Criteria	JORC Code explanation	Commentary
		2010: Kweri Ltd undertook field verification of radiometric anomalies including scout sampling of existing community pits. Samples showed an enrichment of REE and Sc. 2011: Kweri Ltd conducted ground radiometric survey and evaluated historic groundwater borehole logs. 2012: Kweri Ltd and partner 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. Five (5) samples sent 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, 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 rocks. These granitic rocks are considered the original source of the REE which were then accumulated in the sediments of the basin as the granites 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 adsorbed on to fine particles of aluminosilicate clays (e.g. kaolinite, illite, smectite). This adsorbed REE is the target for extraction and production of REO.
Drill hole Information	• *A summary of all information material to the understanding of the exploration results including a tabulation of the following information for all Material drill holes:* ○ *easting and northing of the drill hole collar*	The material information for drill holes relating to this announcement are contained in Table 2.

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	○ *elevation or RL (Reduced Level – elevation above sea level in metres) of the drill hole collar* ○ *dip and azimuth of the hole* ○ *down hole length and interception depth* ○ *hole length.* • *If the exclusion of this information is justified on the basis that the information is not Material and this exclusion does not detract from the understanding of the report, the Competent Person should clearly explain why this is the case.*	
Data aggregation methods	• *In reporting Exploration Results, weighting averaging techniques, maximum and/or minimum grade truncations (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 should be clearly stated.*	A lower cut-off of 300 ppm TREO-Ce_2O_3 was used for data aggregation of significant intervals with a maximum of 2 metres of internal dilution and no top-cuts applied. This lower cut-off is consistent with the marginal cut-off grade estimated and applied in the resource statements on the Makuutu Project Significant intervals were tabulated downhole for reporting. All individual samples were included in length weighted averaging over the entire tabulated range. No metal equivalents values are used.
Relationship between mineralisation widths and intercept lengths	• *These relationships are particularly important in the reporting of Exploration Results.* • *If the geometry of the mineralisation with respect to the drill hole angle is known, its nature should be reported.* • *If it is not known and only the down hole lengths are reported, there should be a clear statement to this effect (eg 'down hole length, true width not known').*	Down hole lengths are considered true widths. The mineralisation is interpreted to be horizontal, flat lying sediments and weathering profile, with the vertical drilling perpendicular to mineralisation.
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.

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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.*	Metallurgical leach testing was previously conducted on samples derived from exploration pits, RAB drilling, and one 8.5 tonne bulk pit sample. 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 variation testing were tested using increasing rates of acid addition and leach time. Significant increases in extractions were achieved by adding acid to the leach liquor. Testing of samples from the project is ongoing.
Further work	• *The nature and scale of planned further work (eg tests for lateral extensions or depth extensions or large-scale step-out drilling).* • *Diagrams clearly highlighting the areas of possible extensions, including the main geological interpretations and future drilling areas, provided this information is not commercially sensitive.*	Future work programs are intended to further evaluate the economic opportunity of the project including extraction recovery maximisation, resource definition and estimation on the known areas of mineralisation, regional exploration and compilation of a Preliminary Economic Assessment (PEA)