01 February 2021

MAKUUTU TRANCHE 7 ASSAY RESULTS, RESOURCE UPDATE COMMENCED

- **Final infill drilling results of the current resource area continue to confirm continuity and grade of REE mineralisation**
- **Reported holes have all intersected REE mineralised clay above MRE cut-off grade**
- **Update to Mineral Resource Estimation underway, due late February**

Ionic Rare Earths Limited ("**IonicRE**" or "the Company") (ASX: IXR) is pleased to provide an update on the tranche seven (7) drill assays from the recently completed Phase 2 drill program at its 51% owned Makuutu Rare Earths Project ("**Makuutu**") in Uganda.

Drill assay results have been received for the outstanding 34 drill holes RRMDD246 to 279. All holes were drilled to infill the current Mineral Resource Estimate (MRE) area. This is the final tranche of drilling results from the Phase 2 drilling that was completed in October 2020.

All 34 holes reported in this announcement have delivered clay and saprolite mineralisation intersections above the cut-off grade of 300 ppm Total Rare Earth Oxide less Ce_2O_3 (TREO-Ce_2O_3), consistent with the initial drilling phases (2019 and H1 2020) and the current MRE.

Notable thick and high-grade intervals reported from the tranche seven assay results include:

- RRMDD248 7.4 metres at 1,228 ppm TREO from 7.0 metres
- RRMDD251 9.5 metres at 1,290 ppm TREO from 3.7 metres
- RRMDD252 6.2 metres at 1,024 ppm TREO from 3.8 metres
- RRMDD254 12.2 metres at 1,583 ppm TREO from 3.3 metres
- RRMDD262 5.8 metres at 1,513 ppm TREO from 3.9 metres
- RRMDD266 10.3 metres at 1,196 ppm TREO from 6.3 metres
- RRMDD270 19.5 metres at 1,223 ppm TREO from 7.7 metres
- RRMDD274 6.6 metres at 1,153 ppm TREO from 3.1 metres
- RRMDD277 12.2 metres at 1,266 ppm TREO from 11.9 metres
- RRMDD278 5.1 metres at 1,334 ppm TREO from 5.4 metres

The Project wide Mineral Resource estimation process has commenced and will include maiden estimates on Exploration Targets A to J in Figure 1, and an update to the current MRE with the infill drilling data aimed at increasing resource estimate confidence in that area.

Ionic Rare Earths Managing Director Mr. Tim Harrison commented:

"The last of the infill holes assay results confirmed numerous thick, high grade REE intervals as expected. This caps off a very successful Phase 2 drill program. We are very pleased by the outcome with 216 of the 222 holes drilled returning clay REE intervals above the MRE cut-off grade."

"We have now commenced the MRE update which we expect will be substantial, greatly increasing the scale of the Makuutu Project and aim to have this completed by the end of February."

Drilling Results

The seventh, and final tranche of assay results for the Makuutu resource expansion program have been received from the Phase 2 drill program which consisted of 3,745 metres of core drilling across three (3) tested tenements at Makuutu. The aim of the program was to validate the Company's initial Exploration Target, quantify the potential of the previous 26-kilometre-long Makuutu mineralisation corridor contained within licences RL0007, RL1693 and EL1766, and provide data for an upcoming mineral resource expansion, all of which has proven to be successful. Since that time, the newly awarded Exploration Licences (ASX: 14 December 2020) have extended the Makuutu mineralisation corridor to 37-kilometres in length and a substantial 50% increase in Exploration Target (ASX: 5th January 2021).

The Phase 2 drill program tested an area which is more than three (3) times greater than the area covered by the existing mineral resource estimate. These areas are defined by annotations A to J shown in Figure 1 below.

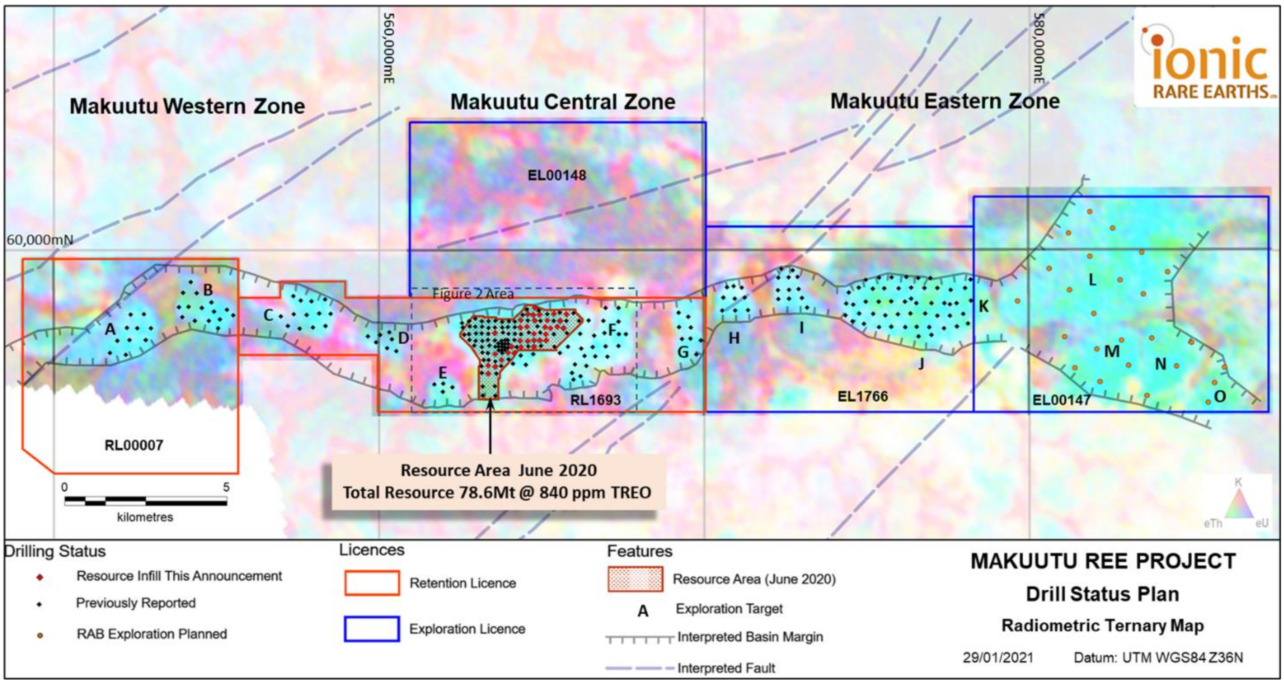

Figure 1: Drill program status plan showing completed and planned drill holes covering the Makuutu Rare Earths Project with the MRE and target areas. Zoom area diagram shown in Figure 2.

The drill results reported in this tranche are the remaining 34 infill drill holes from within the current mineral resource estimate (MRE) area. Figure 1 also illustrates the drill status over the entire Makuutu Rare Earths Project area, including;

1) the hole locations relevant to this announcement, which are shown in red within the existing MRE area with RL 1693;
2) all previously reported holes, which are shown in black across RL 00007, RL 1693 and EL 1766; and
3) the planned RAB drilling on the recently granted licence EL00147 due to commence in Q2, 2021, shown in orange on EL00147.

Figure 2 shows the locations for the results reported in this announcement within the highlighted area of Figure 1.

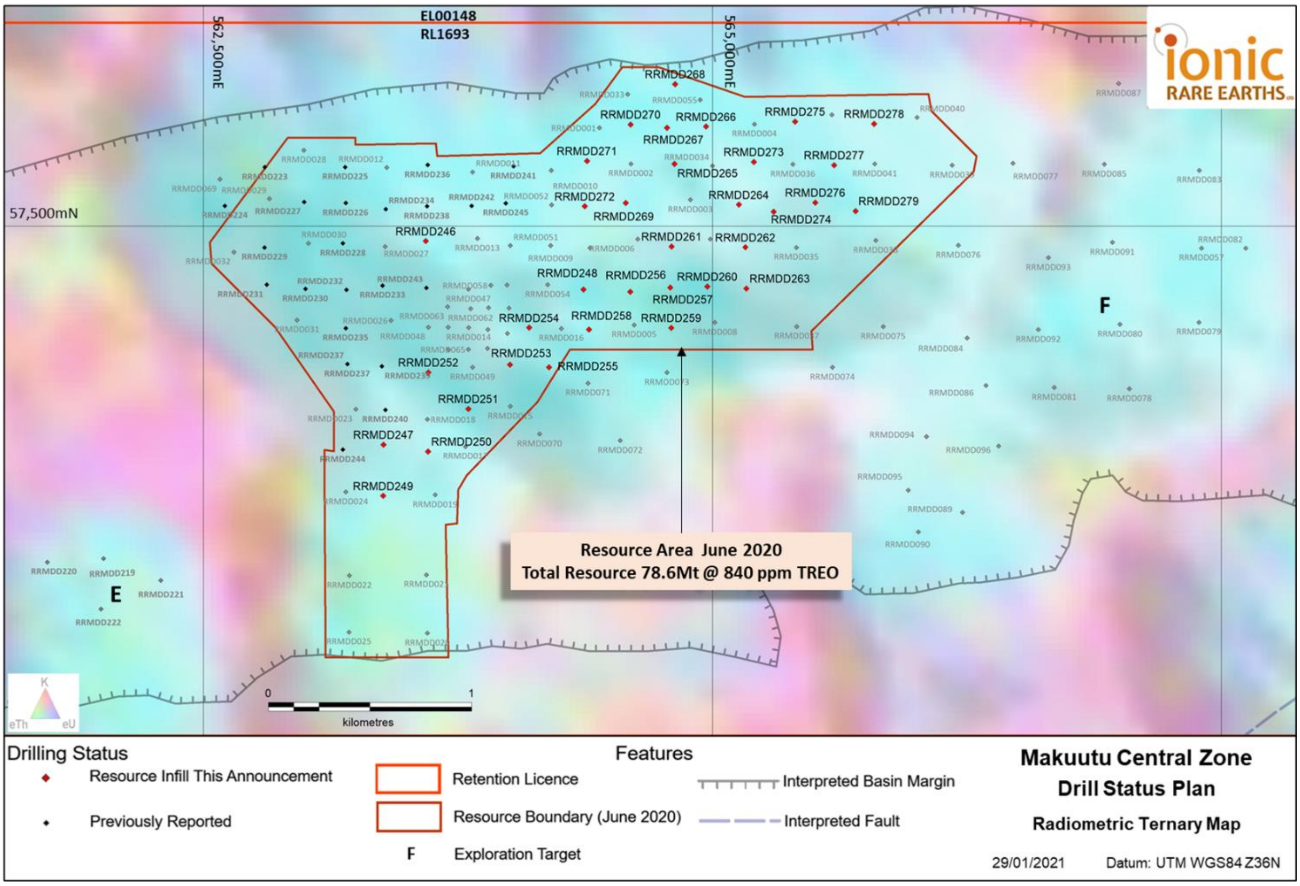

Figure 2: Makuutu Western and Central Zone drill plan with 34 infill drill holes showing hole locations RRMDD246 to 279.

The infill drilling of the current MRE area on the Makuutu Central Zone was designed to give a 200 metre spacing within the existing drilling for increasing resource estimation confidence in the Project wide resource estimate update.

The infill drill program was very successful with all 57 infill drill holes delivering clay and saprolite mineralisation intersections consistent with the initial drilling phases (2019 and H1 2020) and the current MRE.

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The intersections above the MRE cut-off grade of 300 ppm TREO-Ce_2O_3, from the 34 Tranche seven drill holes are listed in Table 1 including Total Rare Earth Oxides (TREO), Heavy Rare Earth Oxides (HREO) and Critical Rare Earth Oxides (CREO) grade. Hole locations are shown in Figure 2.

Table 1: Infill Drilling Results above MRE cut-off grade of 300ppm TREO-Ce_2O_3

Hole ID	Depth From (metres)	Length (metres)	TREO (ppm)	TREO-Ce_2O_3 (ppm)	HREO (ppm)	CREO (ppm)
RRMDD246	4.3	11.3	873	660	316	379
RRMDD247	4.7	12.9	951	658	221	321
RRMDD248	7.0	7.4	1,228	839	276	417
RRMDD249	7.3	8.9	964	632	180	287
RRMDD250	5.4	11.0	900	656	238	333
RRMDD251	3.7	9.5	1,290	960	338	474
RRMDD252	3.8	6.2	1,024	703	223	322
RRMDD253	7.4	1.9	773	467	94	173
RRMDD253	17.3	2.2	823	542	210	285
RRMDD254	3.3	12.2	1,583	1,124	435	611
RRMDD255	12.1	12.1	568	351	99	166
RRMDD256	11.0	4.0	525	329	98	159
RRMDD256	17.8	2.5	507	347	126	176
RRMDD257	5.3	11.2	905	655	247	336
RRMDD258	8.7	2.5	975	634	134	247
RRMDD258	13.5	3.6	742	478	167	240
RRMDD259	7.1	6.7	834	512	131	209
RRMDD260	8.3	10.0	735	498	160	242
RRMDD261	2.9	8.3	912	703	291	381
RRMDD262	3.9	5.8	1,513	1,119	517	643
RRMDD263	5.8	6.2	616	447	160	225
RRMDD264	4.6	8.6	946	721	310	398
RRMDD265	4.6	10.0	682	502	289	313
RRMDD266	6.3	10.3	1,196	905	376	495
RRMDD267	3.8	14.7	867	584	239	313
RRMDD268	12.1	1.8	1,144	912	288	405
RRMDD269	5.8	6.8	870	652	227	323
RRMDD270	7.7	19.5	1,223	980	325	486
RRMDD271	4.7	15.1	671	456	214	259
RRMDD272	5.5	11.5	666	482	175	242
RRMDD273	5.7	9.9	763	536	184	272
RRMDD274	5.4	6.6	1,153	832	343	460
RRMDD275	3.9	8.0	655	414	131	206
RRMDD276	7.3	7.7	715	440	140	209
RRMDD277	3.1	12.2	1,266	917	362	502
RRMDD278	5.4	5.1	1,334	974	374	511
RRMDD279	5.5	5.6	737	471	113	194
RRMDD279	13.5	2.2	590	365	125	187
RRMDD279	17.7	0.8	510	309	120	161

Note: Rounding may create arithmetic differences

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Drilling Program

The Phase 2 drilling program totaled 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. 68 holes completed and reported in two releases on 5th November 2020 and 23rd November 2020.*

4) Exploration drilling on tenement RL 00007, or Makuutu Western Zone (MWZ) – *25 drill holes completed and reported on 18th December 2020.*

5) Exploration drilling on the western side of the current Mineral Resource area further to the west (on tenement RL 1693) – *13 holes released on 18th December 2020 plus 11 drill holes reported 22nd January 2021.*

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 with 23 holes released on 22nd January 2021. Results from remaining 34 holes in this announcement.*

The drill program is the largest undertaken on the Project to date, and is a material increase on the previous 903 metres of core drilling which delivered a MRE announced to the ASX on 23rd June 2020 and set out in Table 2 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 previous 26-kilometre-long Makuutu mineralisation corridor covering RL 1693, RL 00007 and EL 1766 which is included within the revised Exploration Target* of **240 – 800 million tonnes grading 0.045 – 0.09%** (450 – 900 ppm) TREO as announced to the ASX on 5th January 2021.

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

The new Exploration Target includes an expanded 37-kilometre-long Makuutu mineralisation corridor which shows strong radiometric anomaly consistent with the targeting methodology used to date at Makuutu.

All metallurgical samples from the program have been received in Perth and are the subject of proposed Phase 2 metallurgical variability testwork expect to commence Q2 2021.

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Makuutu Rare Earths Project Status

A Mineral Resource Estimate (MRE) update including all areas of the Project drilled in the Phase 2 drilling program has commenced, with the MRE update aimed to be completed by late Feb 2021.

Given the material increase in the MRE that is expected in late Feb 2021, the Company will be completing an update of the Scoping Study ("Study") to reflect the significant increase in the scale of the Makuutu Rare Earths Project. The updated Study has the potential to feature multiple process modules and present options for accelerated production capacity ramp up further to the scenarios considered in the Study.

Table 2: Makuutu Resource above 300ppm TREO-Ce_2O_3 Cut-off Grade (reported ASX on 23rd June 2020).

Resource Classification	Tonnes (millions)	TREO (ppm)	TREO-Ce_2O_3 (ppm)	LREO (ppm)	HREO (ppm)	CREO (ppm)	Sc_2O_3 (ppm)
Indicated Resource	9.5	750	520	550	200	280	30
Inferred Resource	69.1	860	620	640	210	320	30
Total Resource	**78.6**	**840**	**610**	**630**	**210**	**310**	**30**

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

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Table 3: 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
RRMDD246	563593	57427	1173	HQ DD	15.60	0	-90
RRMDD247	563386	56428	1156	HQ DD	17.60	0	-90
RRMDD248	564368	57189	1168	HQ DD	18.60	0	-90
RRMDD249	563385	56176	1156	HQ DD	16.20	0	-90
RRMDD250	563605	56394	1156	HQ DD	17.00	0	-90
RRMDD251	563803	56603	1158	HQ DD	15.00	0	-90
RRMDD252	563606	56783	1163	HQ DD	11.50	0	-90
RRMDD253	564007	56820	1164	HQ DD	19.50	0	-90
RRMDD254	564101	57002	1168	HQ DD	15.50	0	-90
RRMDD255	564198	56808	1160	HQ DD	24.20	0	-90
RRMDD256	564598	57178	1161	HQ DD	23.30	0	-90
RRMDD257	564795	57199	1155	HQ DD	16.50	0	-90
RRMDD258	564396	56994	1161	HQ DD	18.60	0	-90
RRMDD259	564799	57001	1146	HQ DD	18.00	0	-90
RRMDD260	564977	57204	1151	HQ DD	19.80	0	-90
RRMDD261	564801	57401	1160	HQ DD	12.00	0	-90
RRMDD262	565164	57397	1153	HQ DD	10.60	0	-90
RRMDD263	565169	57195	1148	HQ DD	13.70	0	-90
RRMDD264	565132	57606	1157	HQ DD	17.70	0	-90
RRMDD265	564815	57807	1161	HQ DD	18.00	0	-90
RRMDD266	564970	57989	1154	HQ DD	18.00	0	-90
RRMDD267	564779	57983	1157	HQ DD	18.50	0	-90
RRMDD268	564818	58198	1150	HQ DD	18.00	0	-90
RRMDD269	564577	57614	1165	HQ DD	13.30	0	-90
RRMDD270	564600	58000	1158	HQ DD	29.50	0	-90
RRMDD271	564385	57821	1163	HQ DD	20.70	0	-90
RRMDD272	564374	57598	1167	HQ DD	18.00	0	-90
RRMDD273	565205	57816	1155	HQ DD	16.50	0	-90
RRMDD274	565303	57572	1154	HQ DD	12.00	0	-90
RRMDD275	565408	58015	1150	HQ DD	12.80	0	-90
RRMDD276	565507	57617	1153	HQ DD	15.00	0	-90
RRMDD277	565600	57801	1153	HQ DD	15.30	0	-90
RRMDD278	565797	58003	1147	HQ DD	10.50	0	-90
RRMDD279	565705	57575	1148	HQ DD	18.50	0	-90

Authorised for release by the Board.

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About Makuutu Rare Earths Project

The Makuutu Rare Earths Project is an ionic adsorption clay (IAC) hosted Rare Earth Element (REE) deposit located 120 km east of Kampala in Uganda. The deposit stretches 37 km in length and has demonstrated potential for a long life, low-cost capital intensity source of critical and heavy rare earths. These IAC deposits are prevalent in southern China which have been the source of the world's lowest cost critical and heavy REE production, however these deposits are gradually being exhausted and Makuutu represents one of only a handful of such deposits outside of southern China.

The Makuutu deposit is shallow, with less than 3 m of cover over a 12 m thick clay zone which results in low-cost bulk mining methods with low strip ratio. Processing is via simple acidified salt desorption heap leaching which washes the rare earths (in a chemical form) from the ore. The rare earths are precipitated as a mixed rare earth carbonate product, which attracts both a higher payability and achieves a high basket price due to the dominant high value critical and heavy rare earths which make up over 70% of the product basket. The Project has the potential of generating a high margin product with an operation life exceeding 30 years. The Project is also prospective for a low-cost Scandium co-product.

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.

Forward Looking Statements

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

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Appendix 1: Diamond Core Drilling Analytical Results RRMDD246 to RRMDD279 Including Highlighted Intersections >300 ppm TREO-Ce_2O_3
(Note: Rounding will cause minor value differences)

Hole ID	From m	To m	Int. m	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
RRMDD246	0.0	1.4	1.4	177.1	290.5	36.7	131.2	20.0	3.2	11.9	1.6	9.2	1.6	4.5	0.6	1.6	0.6	43.6	734	Soil		
RRMDD246	1.4	2.8	1.5	162.4	454.5	33.9	121.9	19.1	2.9	11.3	1.6	9.2	1.6	4.5	0.6	1.6	0.6	39.7	865	Hardcap		
RRMDD246	2.8	4.3	1.5	72.9	1006.1	15.6	55.2	9.3	1.5	6.6	1.1	6.5	1.3	3.8	0.6	1.1	0.6	33.4	1216	Hardcap		
RRMDD246	4.3	5.3	1.0	138.4	126.5	20.6	67.2	11.1	2.1	10.3	1.5	8.4	1.8	5.4	0.8	1.5	0.8	66.3	463	Mottled		
RRMDD246	5.3	6.3	1.0	74.9	79.6	16.9	63.3	11.5	2.2	11.1	1.6	9.7	2.1	6.4	1.0	1.6	0.9	82.7	366	Mottled		
RRMDD246	6.3	7.3	1.0	173.6	207.3	47.0	182.5	35.6	6.7	32.7	4.8	26.9	5.9	17.0	2.4	4.7	2.0	235.6	985	Clay		
RRMDD246	7.3	8.0	0.7	140.1	217.3	51.5	207.6	44.1	8.8	44.3	6.9	42.7	9.8	29.7	4.2	6.9	3.5	436.8	1254	Clay		
RRMDD246	8.0	8.7	0.7	56.9	54.8	16.3	66.4	13.2	2.6	13.8	2.1	12.7	2.8	8.4	1.2	2.1	1.1	108.1	362	Clay		
RRMDD246	8.7	9.4	0.7	126.1	232.5	36.3	141.7	27.1	5.3	25.4	3.8	22.2	4.7	14.2	2.1	3.7	1.7	185.4	832	Clay		
RRMDD246	9.4	10.3	0.9	235.7	257.7	50.8	191.9	41.7	8.6	38.6	5.8	32.7	6.7	18.8	2.8	5.7	2.2	204.5	1104	Clay		
RRMDD246	10.3	11.2	0.9	256.8	330.3	53.8	194.8	38.0	7.7	34.3	4.9	28.2	5.6	16.2	2.2	4.9	1.9	182.2	1162	Clay		
RRMDD246	11.2	12.1	0.9	150.1	213.2	35.9	134.1	26.0	4.9	23.2	3.3	19.2	4.0	11.7	1.7	3.3	1.5	141.0	773	Clay		
RRMDD246	12.1	13.0	0.9	179.4	255.3	46.5	177.3	35.9	7.3	32.4	4.8	27.3	5.6	16.0	2.3	4.8	1.9	189.2	986	Clay		
RRMDD246	13.0	13.9	0.9	200.5	352.6	64.0	253.1	55.4	11.3	50.4	7.5	41.9	8.6	24.2	3.4	7.4	2.7	264.1	1347	Clay		
RRMDD246	13.9	14.3	0.4	101.6	172.8	32.7	132.4	29.3	6.2	30.1	4.5	26.4	5.5	16.2	2.3	4.5	1.9	185.4	752	Upper Saprolite		
RRMDD246	14.3	14.9	0.6	144.3	263.5	47.2	199.5	43.4	9.2	46.4	6.7	38.7	8.3	24.1	3.4	6.6	2.8	318.7	1163	Lower Saprolite		
RRMDD246	14.9	15.6	0.7	107.0	198.5	28.7	114.5	21.6	4.5	23.9	3.1	18.3	4.2	12.6	1.7	3.1	1.4	186.0	729	Lower Saprolite	**11.3**	**873**
RRMDD247	0.0	1.5	1.5	104.3	201.5	21.2	74.9	13.2	2.0	9.8	1.5	9.6	1.9	5.7	0.8	1.5	0.9	61.2	510	Soil		
RRMDD247	1.5	2.6	1.2	43.4	700.4	9.3	33.4	6.3	1.0	4.4	0.9	4.9	1.0	3.0	0.5	0.8	0.5	26.9	837	Hardcap		
RRMDD247	2.6	3.7	1.1	55.5	864.4	13.1	47.5	9.1	1.5	6.1	1.2	6.8	1.4	4.1	0.6	1.1	0.6	36.1	1049	Hardcap		
RRMDD247	3.7	4.7	1.0	79.5	190.3	16.3	57.6	10.5	1.8	8.8	1.4	8.2	1.7	5.5	0.9	1.4	0.8	59.4	444	Mottled		
RRMDD247	4.7	5.6	0.9	97.0	97.3	21.8	79.8	13.6	2.3	12.0	1.8	10.5	2.2	6.8	1.0	1.8	1.0	75.4	424	Clay		
RRMDD247	5.6	6.5	0.9	123.1	169.3	29.3	104.9	18.0	3.1	15.0	2.2	12.6	2.6	7.9	1.1	2.2	1.0	86.7	579	Clay		
RRMDD247	6.5	7.4	0.9	210.5	288.1	48.5	175.0	29.8	5.1	25.9	3.7	21.0	4.4	12.5	1.9	3.7	1.6	152.4	984	Clay		
RRMDD247	7.4	8.3	0.9	262.7	1044.8	60.5	218.7	37.3	6.3	31.9	4.6	25.5	5.2	14.5	2.1	4.6	1.8	182.2	1903	Clay		
RRMDD247	8.3	9.1	0.8	270.9	189.2	66.5	234.4	40.6	6.6	30.5	4.2	22.8	4.5	12.5	1.8	4.2	1.5	146.0	1036	Clay		
RRMDD247	9.1	9.9	0.8	341.3	376.0	91.9	314.9	53.5	8.3	36.4	4.9	24.2	4.5	12.3	1.7	4.8	1.4	148.6	1425	Clay		
RRMDD247	9.9	10.6	0.8	327.2	443.9	84.8	295.1	50.0	7.8	34.6	4.7	23.9	4.6	12.8	1.8	4.6	1.5	163.2	1460	Clay		
RRMDD247	10.6	11.1	0.5	207.0	249.5	48.2	169.7	27.8	4.6	22.9	3.1	17.4	3.5	10.1	1.5	3.0	1.3	123.4	893	Upper Saprolite		
RRMDD247	11.1	12.0	0.9	143.1	150.5	30.5	107.9	18.0	3.1	15.5	2.3	12.6	2.7	7.6	1.1	2.3	1.1	90.4	589	Upper Saprolite		
RRMDD247	12.0	12.8	0.8	175.3	261.2	38.3	138.8	23.9	4.0	20.4	2.9	16.4	3.4	9.9	1.4	2.9	1.3	117.3	817	Upper Saprolite		
RRMDD247	12.8	13.7	0.9	222.2	304.5	43.7	152.8	25.9	4.3	22.0	3.1	17.4	3.5	10.3	1.4	3.0	1.3	121.3	937	Upper Saprolite		
RRMDD247	13.7	14.3	0.6	210.5	210.2	45.9	163.3	27.5	4.9	24.9	3.6	20.1	4.1	11.7	1.7	3.5	1.4	142.2	876	Lower Saprolite		
RRMDD247	14.3	14.9	0.6	212.3	219.6	47.3	165.6	27.1	4.5	22.7	3.1	17.3	3.6	9.8	1.4	3.0	1.2	123.8	862	Lower Saprolite		
RRMDD247	14.9	15.7	0.8	313.1	223.1	59.3	215.2	34.3	5.9	26.5	3.6	19.2	3.4	8.3	1.1	3.6	1.0	98.0	1016	Lower Saprolite		
RRMDD247	15.7	16.7	1.0	127.2	128.3	29.3	104.5	17.9	3.2	14.8	2.0	11.6	2.2	5.6	0.8	2.0	0.7	65.8	516	Lower Saprolite		
RRMDD247	16.7	17.6	0.9	252.2	260.0	48.9	177.3	31.4	5.8	27.5	4.0	22.0	4.2	11.1	1.5	4.0	1.3	128.3	979	Lower Saprolite	**12.9**	**951**
RRMDD248	0.0	1.8	1.8	90.3	161.6	17.5	60.2	9.8	1.6	7.2	1.1	7.6	1.5	4.4	0.7	1.1	0.7	45.3	411	Soil		
RRMDD248	1.8	3.7	1.9	113.8	699.3	20.0	61.6	8.8	1.5	5.8	1.0	6.1	1.1	3.8	0.5	1.0	0.6	31.2	956	Hardcap		
RRMDD248	3.7	5.6	1.9	166.0	805.9	30.1	96.6	14.0	2.4	8.7	1.4	8.3	1.5	4.6	0.7	1.4	0.7	39.6	1182	Hardcap		
RRMDD248	5.6	6.0	0.4	238.1	488.4	34.1	97.9	12.6	2.0	8.7	1.3	7.3	1.4	4.2	0.6	1.3	0.7	38.4	937	Transition		
RRMDD248	6.0	7.0	1.0	54.2	67.3	11.4	42.9	7.2	1.4	7.4	1.1	6.7	1.4	4.3	0.7	1.1	0.7	48.8	256	Clay		
RRMDD248	7.0	7.8	0.8	176.5	254.2	39.2	141.7	24.0	4.0	19.2	2.7	15.7	3.0	8.3	1.2	2.7	1.1	100.4	794	Clay		
RRMDD248	7.8	8.7	0.9	130.8	144.1	42.0	158.0	27.0	4.5	21.2	3.0	17.4	3.4	9.2	1.3	3.0	1.2	110.0	676	Clay		

Hole ID	From m	To m	Int. m	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
RRMDD248	8.7	9.5	0.9	207.0	262.4	66.1	244.9	42.6	6.8	30.5	4.3	23.9	4.5	12.1	1.7	4.3	1.5	150.5	1063	Clay		
RRMDD248	9.5	10.4	0.9	278.0	350.2	76.0	282.3	47.8	7.8	35.7	5.0	27.8	5.3	14.5	2.0	4.9	1.8	177.8	1317	Clay		
RRMDD248	10.4	11.4	1.0	526.6	515.4	88.8	307.9	50.8	8.7	36.0	4.9	25.2	4.3	10.7	1.5	4.9	1.3	117.8	1705	Clay		
RRMDD248	11.4	12.4	1.0	323.7	391.2	79.1	295.1	50.8	8.5	38.8	5.5	30.0	5.6	14.9	2.0	5.5	1.8	175.9	1428	Clay		
RRMDD248	12.4	13.4	1.0	270.9	380.7	79.6	304.4	54.7	9.3	45.0	6.3	35.5	6.8	18.5	2.5	6.3	2.2	230.5	1453	Clay		
RRMDD248	13.4	14.4	1.0	137.2	725.0	38.3	144.6	24.6	4.0	19.4	2.7	14.9	2.9	7.6	1.1	2.6	1.0	88.3	1214	Clay	**7.4**	**1228**
RRMDD248	14.4	15.4	1.0	62.6	89.3	13.3	49.3	8.4	1.5	7.0	1.0	5.5	1.1	3.0	0.4	1.0	0.4	33.4	277	Upper Saprolite		
RRMDD248	15.4	16.5	1.1	25.3	49.5	5.7	20.6	3.3	0.6	2.5	0.3	1.8	0.3	0.9	0.2	0.3	0.1	9.8	121	Upper Saprolite		
RRMDD248	16.5	17.6	1.1	58.8	106.9	13.1	49.2	8.6	1.6	7.2	1.0	5.5	1.1	2.9	0.4	1.0	0.4	33.1	291	Lower Saprolite		
RRMDD248	17.6	18.6	1.1	57.6	107.6	12.2	42.7	7.1	1.4	5.5	0.7	3.7	0.7	2.0	0.3	0.7	0.3	22.0	265	Lower Saprolite		
RRMDD249	0.0	1.3	1.3	65.0	401.8	14.3	52.0	9.5	1.6	7.0	1.2	7.7	1.5	4.6	0.7	1.2	0.7	44.7	613	Soil		
RRMDD249	1.3	2.7	1.4	52.8	1317.7	11.3	39.8	6.9	1.2	4.9	1.0	5.3	1.0	3.2	0.5	1.0	0.5	28.1	1475	Hardcap		
RRMDD249	2.7	4.1	1.4	91.5	1224.0	20.2	71.2	11.7	1.8	8.2	1.5	8.4	1.7	5.1	0.8	1.4	0.8	49.4	1498	Hardcap		
RRMDD249	4.1	5.1	1.0	78.8	154.6	16.1	54.2	9.3	1.7	7.8	1.2	7.7	1.6	4.7	0.8	1.2	0.8	48.5	389	Transition		
RRMDD249	5.1	6.2	1.1	78.0	170.4	15.4	52.6	9.0	1.6	7.8	1.3	7.9	1.7	5.2	0.8	1.3	0.8	52.4	406	Mottled		
RRMDD249	6.2	7.3	1.1	80.6	186.2	17.8	59.4	10.3	1.7	7.8	1.2	7.2	1.5	4.6	0.7	1.2	0.7	45.7	427	Mottled		
RRMDD249	7.3	8.1	0.8	456.2	435.7	80.2	278.8	50.4	9.0	39.2	5.7	32.5	6.6	17.7	2.4	5.6	2.0	234.9	1657	Clay		
RRMDD249	8.1	8.9	0.8	228.7	305.7	59.9	198.9	32.5	5.2	19.8	2.7	13.5	2.3	6.2	0.9	2.7	0.8	62.7	943	Clay		
RRMDD249	8.9	9.8	0.9	249.8	358.4	64.4	213.5	35.4	5.9	22.1	3.1	15.0	2.6	6.7	0.9	3.0	0.8	67.3	1049	Upper Saprolite		
RRMDD249	9.8	10.6	0.9	287.3	306.9	73.0	246.1	42.3	7.2	28.5	3.8	19.4	3.3	8.3	1.1	3.8	0.9	84.7	1117	Upper Saprolite		
RRMDD249	10.6	11.5	0.9	152.5	493.1	34.8	118.4	20.6	3.8	15.3	2.2	11.4	2.1	5.6	0.8	2.2	0.7	59.7	923	Upper Saprolite		
RRMDD249	11.5	12.4	0.9	221.7	256.5	50.7	168.5	28.3	5.0	19.8	2.7	14.1	2.6	6.6	0.9	2.7	0.8	71.2	852	Upper Saprolite		
RRMDD249	12.4	13.3	1.0	153.6	221.4	36.5	125.4	21.6	3.8	15.2	2.1	11.4	2.1	5.7	0.8	2.1	0.8	61.1	664	Lower Saprolite		
RRMDD249	13.3	14.3	1.0	174.2	180.4	32.7	115.2	21.0	3.9	16.4	2.2	12.5	2.2	5.4	0.7	2.2	0.6	60.2	630	Lower Saprolite		
RRMDD249	14.3	15.2	1.0	195.9	309.2	40.5	140.0	23.9	4.4	18.9	2.7	15.7	3.0	8.2	1.2	2.7	1.0	97.4	865	Lower Saprolite		
RRMDD249	15.2	16.2	1.0	191.8	472.0	45.1	158.6	26.7	4.8	20.6	3.0	16.4	3.2	8.6	1.2	3.0	1.1	101.2	1057	Lower Saprolite	**8.9**	**964**
RRMDD250	0.0	2.0	2.0	86.3	130.6	16.6	57.9	10.0	1.6	8.0	1.2	8.3	1.6	5.1	0.7	1.2	0.7	53.1	383	Soil		
RRMDD250	2.0	3.2	1.2	40.2	315.1	8.5	30.4	5.3	0.9	4.0	0.7	4.8	1.0	3.2	0.5	0.7	0.5	28.7	445	Hardcap		
RRMDD250	3.2	4.4	1.2	53.6	705.1	12.1	43.2	7.4	1.2	5.1	1.0	5.4	1.1	3.3	0.5	0.9	0.5	30.7	871	Hardcap		
RRMDD250	4.4	5.4	1.1	64.4	147.0	12.6	43.0	7.5	1.4	6.5	1.1	6.6	1.5	4.3	0.7	1.1	0.7	42.8	341	Mottled		
RRMDD250	5.4	6.3	0.9	128.4	167.5	36.3	126.6	21.7	3.7	15.3	2.2	12.2	2.3	6.2	0.9	2.2	0.8	65.5	592	Clay		
RRMDD250	6.3	7.2	0.9	240.4	397.1	67.9	234.4	40.1	6.9	28.0	4.0	21.3	3.9	10.1	1.4	4.0	1.2	112.3	1173	Clay		
RRMDD250	7.2	8.1	0.9	232.8	361.9	57.1	198.3	33.5	5.8	23.9	3.5	19.3	3.6	9.6	1.3	3.5	1.1	109.2	1064	Clay		
RRMDD250	8.1	9.0	0.8	187.6	261.2	49.7	173.8	29.8	5.3	23.5	3.3	18.8	3.7	9.7	1.3	3.3	1.2	114.7	887	Upper Saprolite		
RRMDD250	9.0	9.8	0.8	293.2	328.0	75.3	275.3	49.2	9.4	45.9	7.0	42.2	8.8	24.0	3.3	6.9	2.9	318.7	1490	Upper Saprolite		
RRMDD250	9.8	10.6	0.8	288.5	272.9	71.2	256.6	45.8	8.5	40.6	6.1	36.7	7.6	20.7	2.9	6.1	2.5	271.8	1338	Upper Saprolite		
RRMDD250	10.6	11.2	0.6	363.6	176.9	54.8	193.0	31.8	5.8	28.2	3.8	21.0	4.0	10.0	1.3	3.7	1.1	121.7	1021	Lower Saprolite		
RRMDD250	11.2	11.8	0.6	123.7	122.4	30.9	111.4	19.8	3.6	17.2	2.6	16.0	3.3	9.4	1.3	2.6	1.2	117.1	583	Lower Saprolite		
RRMDD250	11.8	12.7	0.9	168.9	169.8	42.5	151.6	26.2	4.7	21.9	3.0	18.1	3.5	9.4	1.3	3.0	1.1	114.2	739	Lower Saprolite		
RRMDD250	12.7	13.7	0.9	160.7	158.7	37.2	135.9	24.6	4.6	21.8	3.2	18.6	3.7	10.0	1.4	3.2	1.2	117.8	703	Lower Saprolite		
RRMDD250	13.7	14.6	0.9	152.5	179.2	35.8	128.9	23.1	4.2	20.1	2.9	17.6	3.5	9.5	1.3	2.9	1.2	114.3	697	Lower Saprolite		
RRMDD250	14.6	15.5	0.9	159.5	322.1	37.7	134.7	22.9	4.3	18.7	2.6	15.2	2.8	7.4	1.1	2.6	1.0	84.3	817	Lower Saprolite		
RRMDD250	15.5	16.4	0.9	132.5	206.7	28.6	105.1	18.6	3.5	16.4	2.3	13.0	2.5	6.7	0.9	2.3	0.8	75.7	616	Lower Saprolite	**11.0**	**900**
RRMDD250	16.4	17.0	0.6	54.9	80.8	11.7	41.4	6.7	1.2	5.5	0.7	4.7	0.9	2.8	0.4	0.7	0.4	30.5	243	Saprock		
RRMDD251	0.0	1.4	1.4	74.9	134.7	15.0	52.4	8.7	1.5	6.9	1.1	7.3	1.4	4.7	0.7	1.1	0.6	43.9	355	Soil		
RRMDD251	1.4	3.1	1.7	49.7	668.8	10.8	38.1	6.7	1.1	5.0	0.9	5.5	1.0	3.4	0.5	0.9	0.5	30.4	823	Hardcap		
RRMDD251	3.1	3.7	0.6	76.0	971.0	16.3	57.2	9.8	1.6	7.7	1.4	7.8	1.6	4.6	0.7	1.4	0.7	43.3	1201	Transition		

Hole ID	From m	To m	Int. m	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)	TREO ppm
RRMDD251	3.7	4.8	1.1	123.7	148.8	24.2	83.2	13.5	2.2	11.1	1.7	10.2	2.1	6.2	1.0	1.7	1.0	68.2	499	Mottled		
RRMDD251	4.8	5.8	1.1	327.2	481.4	71.2	243.8	39.3	6.1	27.7	4.0	21.7	4.1	11.1	1.6	3.9	1.4	126.5	1371	Clay		
RRMDD251	5.8	6.8	1.0	559.4	584.5	138.7	494.6	81.1	12.7	57.3	7.8	42.2	7.7	20.2	2.7	7.7	2.2	233.0	2252	Clay		
RRMDD251	6.8	7.8	1.0	358.9	338.5	79.6	286.9	46.3	7.5	36.5	5.2	30.6	6.0	16.5	2.3	5.2	2.0	198.7	1421	Clay		
RRMDD251	7.8	8.8	1.0	255.7	267.1	53.8	192.5	30.7	5.2	24.9	3.5	20.7	4.2	11.7	1.7	3.5	1.5	137.1	1014	Clay		
RRMDD251	8.8	9.8	1.0	310.8	297.5	68.6	249.6	41.9	6.8	31.5	4.4	24.3	4.7	11.9	1.7	4.4	1.5	127.6	1187	Clay		
RRMDD251	9.8	10.8	1.0	554.7	360.8	91.9	328.9	52.1	8.9	41.6	5.7	32.3	6.0	16.2	2.3	5.7	1.9	178.4	1687	Clay		
RRMDD251	10.8	11.6	0.8	194.1	288.1	41.8	159.8	26.9	4.8	24.8	3.6	21.0	4.4	12.3	1.8	3.5	1.6	137.8	926	Upper Saprolite		
RRMDD251	11.6	12.4	0.8	253.3	256.5	47.7	205.9	41.0	9.0	66.6	10.4	69.6	16.4	47.9	6.4	10.3	5.8	656.5	1704	Upper Saprolite		
RRMDD251	12.4	13.1	0.8	156.6	230.2	29.8	114.3	19.9	3.6	21.3	3.0	19.1	4.3	12.5	1.7	3.0	1.6	174.6	796	Upper Saprolite	**9.5**	**1290**
RRMDD251	13.1	14.1	0.9	99.3	202.6	21.4	77.2	13.5	2.4	11.0	1.6	9.0	1.8	5.0	0.7	1.6	0.7	58.2	506	Saprock		
RRMDD251	14.1	15.0	0.9	81.9	158.1	18.1	68.1	12.4	2.4	11.4	1.7	10.1	2.1	5.8	0.9	1.7	0.8	65.3	441	Saprock		
RRMDD252	0.0	1.8	1.8	130.2	240.1	27.5	101.0	16.6	2.8	13.0	1.9	12.4	2.4	7.2	1.0	1.9	1.0	78.6	638	Soil		
RRMDD252	1.8	3.8	2.0	93.7	347.9	19.4	69.2	11.0	1.9	8.4	1.4	8.8	1.7	5.2	0.8	1.4	0.8	50.3	622	Hardcap		
RRMDD252	3.8	4.8	1.1	160.7	380.7	27.9	96.6	15.5	2.5	12.6	2.0	11.8	2.4	7.1	1.1	2.0	1.0	75.8	800	Clay		
RRMDD252	4.8	5.4	0.6	984.0	547.0	134.6	398.9	51.6	7.9	38.6	5.0	28.0	5.3	13.9	1.9	5.0	1.7	177.8	2401	Clay		
RRMDD252	5.4	6.0	0.6	323.7	279.9	55.8	179.6	26.6	4.6	22.5	3.2	19.1	4.0	11.3	1.7	3.2	1.7	154.3	1091	Clay		
RRMDD252	6.0	6.9	0.9	169.5	378.3	32.8	112.2	18.3	3.1	15.1	2.2	13.1	2.7	7.7	1.2	2.2	1.1	89.3	849	Clay		
RRMDD252	6.9	7.8	0.9	222.8	277.6	57.9	222.2	38.5	6.9	31.6	4.4	25.5	5.0	13.9	2.0	4.4	1.8	173.3	1088	Upper Saprolite		
RRMDD252	7.8	8.7	0.9	202.9	260.0	42.0	147.5	24.2	4.3	20.3	2.8	16.3	3.2	8.8	1.3	2.8	1.2	107.3	845	Upper Saprolite		
RRMDD252	8.7	9.6	0.9	117.2	243.6	31.5	124.2	22.9	4.4	20.9	3.0	17.3	3.4	9.2	1.3	3.0	1.2	112.6	716	Upper Saprolite		
RRMDD252	9.6	10.0	0.4	132.5	171.6	30.4	122.5	20.1	3.9	25.2	3.0	17.0	3.8	10.2	1.4	3.0	1.2	227.9	774	Lower Saprolite	**6.2**	**1024**
RRMDD252	10.0	10.7	0.8	62.4	122.4	14.1	50.6	9.1	1.7	7.3	1.0	5.8	1.2	3.7	0.7	1.0	0.7	39.1	321	Saprock		
RRMDD252	10.7	11.5	0.8	78.8	162.2	18.2	64.7	11.9	2.3	9.8	1.5	8.7	1.7	5.2	0.8	1.5	0.8	56.3	424	Saprock		
RRMDD253	0.0	1.5	1.5	103.7	363.1	20.2	67.7	10.6	1.9	7.8	1.2	7.3	1.4	4.2	0.7	1.2	0.7	40.8	632	Hardcap		
RRMDD253	1.5	3.1	1.5	102.4	454.5	20.1	70.7	10.8	1.8	7.1	1.2	7.0	1.2	3.8	0.6	1.2	0.6	35.0	718	Hardcap		
RRMDD253	3.1	4.6	1.5	85.6	388.9	16.4	56.6	9.1	1.4	6.7	1.1	6.8	1.4	4.1	0.6	1.1	0.7	40.1	621	Hardcap		
RRMDD253	4.6	5.5	0.9	49.7	131.8	8.4	26.7	4.4	0.8	3.9	0.7	4.4	1.0	3.3	0.6	0.7	0.6	30.1	267	Mottled		
RRMDD253	5.5	6.4	0.9	30.8	51.5	5.8	19.4	3.5	0.6	3.1	0.6	3.8	0.9	3.2	0.6	0.6	0.6	29.5	154	Mottled		
RRMDD253	6.4	7.4	1.0	39.3	147.6	8.4	28.7	5.1	0.9	4.2	0.7	4.5	1.0	3.4	0.6	0.7	0.6	31.5	277	Mottled		
RRMDD253	7.4	8.4	1.0	135.5	271.7	26.2	83.4	13.2	2.1	8.6	1.2	6.4	1.3	3.9	0.6	1.2	0.6	38.4	594	Clay		
RRMDD253	8.4	9.3	0.9	306.1	343.2	46.0	154.0	23.1	4.0	16.1	2.0	10.1	1.7	4.4	0.7	2.0	0.6	46.6	960	Clay	**1.9**	**773**
RRMDD253	9.3	10.2	0.9	82.7	142.9	17.9	61.9	10.0	1.7	7.7	1.1	6.2	1.2	3.7	0.6	1.1	0.6	40.8	380	Clay		
RRMDD253	10.2	11.1	0.9	83.3	132.9	19.1	66.1	10.7	1.8	7.8	1.1	6.2	1.3	3.6	0.6	1.1	0.6	40.5	377	Clay		
RRMDD253	11.1	12.0	0.9	85.8	147.6	19.8	67.7	11.2	1.9	8.2	1.1	6.1	1.2	3.7	0.6	1.1	0.6	40.1	397	Upper Saprolite		
RRMDD253	12.0	12.8	0.8	95.0	175.7	22.9	79.9	13.4	2.2	9.0	1.2	6.9	1.4	3.8	0.6	1.2	0.6	42.2	456	Upper Saprolite		
RRMDD253	12.8	13.7	0.9	79.3	162.2	18.5	63.0	10.1	1.7	6.9	0.9	5.3	1.0	3.0	0.5	0.9	0.6	32.5	386	Upper Saprolite		
RRMDD253	13.7	14.7	0.9	73.1	154.0	16.4	56.3	9.1	1.5	6.3	0.9	5.0	1.0	3.0	0.5	0.8	0.5	31.7	360	Upper Saprolite		
RRMDD253	14.7	15.6	0.9	64.9	140.6	14.9	51.1	8.0	1.4	5.7	0.8	4.7	1.0	2.9	0.5	0.8	0.5	31.2	329	Upper Saprolite		
RRMDD253	15.6	16.4	0.9	91.2	195.6	20.9	69.5	10.8	1.8	7.2	1.0	5.3	1.0	3.1	0.5	1.0	0.5	33.4	443	Upper Saprolite		
RRMDD253	16.4	17.3	0.9	78.3	151.1	18.0	61.1	10.2	1.7	6.8	0.9	5.3	1.1	3.1	0.5	0.9	0.5	33.5	373	Upper Saprolite		
RRMDD253	17.3	18.2	0.9	136.6	279.9	40.1	144.6	27.0	4.7	18.6	2.7	15.1	2.6	7.5	1.1	2.6	0.9	75.9	760	Upper Saprolite		
RRMDD253	18.2	18.8	0.6	148.4	279.9	36.4	130.6	24.2	4.6	20.7	3.1	18.8	3.8	10.7	1.7	3.1	1.5	130.2	818	Lower Saprolite		
RRMDD253	18.8	19.5	0.7	168.3	282.3	39.9	148.7	28.4	5.5	25.8	3.7	22.4	4.6	13.1	1.9	3.7	1.7	154.3	904	Lower Saprolite	**2.2**	**823**
RRMDD254	0.0	1.8	1.8	124.3	214.9	23.9	82.3	12.9	2.2	9.8	1.5	9.1	1.8	5.1	0.8	1.5	0.8	55.0	546	Soil		
RRMDD254	1.8	3.3	1.5	131.4	725.0	22.9	74.6	11.7	1.9	7.4	1.1	6.6	1.2	3.5	0.5	1.1	0.5	30.4	1020	Hardcap		
RRMDD254	3.3	4.3	1.0	201.7	479.1	94.3	341.8	65.9	10.4	36.7	5.0	25.0	4.0	10.0	1.4	5.0	1.1	99.7	1381	Mottled		

																					>300ppm TREO-Ce_2O_3 Interval	
Hole ID	From m	To m	Int. m	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
RRMDD254	4.3	5.4	1.0	143.7	287.0	55.8	204.7	38.3	6.3	24.6	3.5	18.8	3.4	8.9	1.3	3.5	1.1	95.8	897	Mottled		
RRMDD254	5.4	6.2	0.8	562.9	1042.5	226.5	775.7	140.3	23.4	96.6	13.3	72.4	13.2	34.6	4.8	13.2	3.8	468.6	3492	Clay		
RRMDD254	6.2	7.1	0.9	347.1	655.9	131.1	481.7	87.7	14.6	60.7	8.5	47.2	8.7	23.2	3.3	8.4	2.7	316.2	2197	Clay		
RRMDD254	7.1	7.9	0.8	391.7	689.9	134.0	512.0	89.1	15.2	63.7	9.4	54.6	10.7	30.8	4.4	9.3	3.8	424.1	2443	Clay		
RRMDD254	7.9	8.8	0.9	310.8	525.9	94.8	355.8	60.3	10.4	45.0	6.6	38.6	7.8	22.6	3.2	6.5	2.9	339.1	1830	Clay		
RRMDD254	8.8	9.7	0.9	438.6	469.7	76.4	278.8	44.9	8.3	38.0	5.4	31.8	6.5	18.9	2.7	5.4	2.3	274.3	1702	Upper Saprolite		
RRMDD254	9.7	10.7	1.0	492.6	454.5	71.3	255.4	40.1	7.6	35.3	4.9	30.2	6.1	17.6	2.6	4.9	2.2	247.6	1673	Upper Saprolite		
RRMDD254	10.7	11.6	0.9	165.4	269.4	42.1	157.5	28.2	5.4	22.9	3.5	21.8	4.2	11.8	1.7	3.5	1.6	134.0	873	Upper Saprolite		
RRMDD254	11.6	12.3	0.7	187.1	304.5	53.2	213.5	45.3	8.9	37.8	6.0	37.2	7.0	19.7	2.9	6.0	2.5	200.6	1132	Upper Saprolite		
RRMDD254	12.3	13.1	0.7	168.9	289.3	46.6	183.1	38.5	7.9	33.1	5.3	33.6	6.3	18.2	2.7	5.3	2.4	179.1	1020	Upper Saprolite		
RRMDD254	13.1	14.0	0.9	173.0	288.1	46.7	190.1	40.9	8.5	38.3	6.1	38.8	7.5	22.2	3.3	6.1	3.0	219.7	1092	Lower Saprolite		
RRMDD254	14.0	14.9	0.9	182.4	296.3	49.7	199.5	40.2	8.2	39.3	5.9	37.4	7.3	21.4	3.2	5.9	2.9	224.8	1124	Lower Saprolite		
RRMDD254	14.9	15.5	0.7	280.3	412.3	71.4	290.4	51.1	10.1	46.8	6.5	37.4	7.3	19.8	2.8	6.4	2.3	241.3	1486	Lower Saprolite	**12.2**	**1583**
RRMDD255	0.0	1.6	1.6	130.2	246.0	25.3	88.4	13.5	2.3	10.9	1.7	10.7	2.1	6.4	1.0	1.7	0.9	67.6	609	Soil		
RRMDD255	1.6	3.1	1.5	90.7	739.1	17.1	55.9	8.8	1.5	6.2	1.1	6.2	1.2	3.6	0.5	1.1	0.5	32.5	966	Hardcap		
RRMDD255	3.1	4.6	1.5	92.8	938.2	19.0	64.7	10.0	1.7	7.1	1.2	7.0	1.4	4.2	0.6	1.2	0.6	39.5	1189	Hardcap		
RRMDD255	4.6	5.5	0.9	91.5	345.5	16.9	57.6	9.7	1.6	6.8	1.1	7.0	1.5	4.7	0.7	1.1	0.8	44.6	591	Transition		
RRMDD255	5.5	6.4	0.9	55.4	131.8	10.0	34.1	5.7	0.9	4.5	0.7	4.7	1.0	3.5	0.6	0.7	0.6	33.3	287	Clay		
RRMDD255	6.4	7.3	0.9	58.1	150.5	10.1	33.5	5.3	1.0	4.4	0.7	4.6	1.0	3.2	0.6	0.7	0.6	33.1	307	Clay		
RRMDD255	7.3	8.2	0.9	60.9	112.4	9.6	30.8	4.5	0.8	3.4	0.6	4.1	0.9	3.2	0.6	0.6	0.6	29.8	263	Clay		
RRMDD255	8.2	9.2	1.0	37.6	56.2	7.9	28.6	4.9	0.9	4.0	0.6	4.2	0.9	3.1	0.5	0.6	0.5	30.6	181	Clay		
RRMDD255	9.2	10.2	1.0	57.6	103.5	13.2	45.8	7.7	1.3	5.2	0.8	4.7	0.9	3.0	0.5	0.8	0.5	30.7	276	Clay		
RRMDD255	10.2	11.1	0.9	87.7	136.5	20.5	71.4	10.9	1.9	7.4	1.0	6.3	1.3	3.7	0.7	1.0	0.7	41.9	393	Clay		
RRMDD255	11.1	12.1	1.0	95.5	146.4	22.3	76.0	12.8	2.0	7.8	1.2	6.7	1.3	4.0	0.6	1.2	0.6	44.1	422	Clay		
RRMDD255	12.1	13.1	1.0	112.6	205.0	28.6	101.8	17.8	3.1	11.2	1.6	8.7	1.6	4.4	0.7	1.6	0.6	44.7	544	Clay		
RRMDD255	13.1	14.0	0.9	124.3	242.5	33.8	120.7	20.7	3.5	13.0	1.9	10.3	1.8	5.1	0.8	1.9	0.7	51.9	633	Clay		
RRMDD255	14.0	15.0	1.0	123.1	200.3	31.7	110.2	17.9	3.1	11.1	1.5	8.8	1.6	4.9	0.7	1.5	0.7	51.6	569	Clay		
RRMDD255	15.0	16.0	1.0	107.4	178.0	27.2	95.3	15.0	2.5	9.5	1.3	7.3	1.4	4.2	0.6	1.3	0.6	45.8	497	Upper Saprolite		
RRMDD255	16.0	17.0	1.0	101.7	176.9	25.0	87.1	14.1	2.3	9.1	1.2	7.0	1.4	3.9	0.6	1.2	0.6	43.4	476	Upper Saprolite		
RRMDD255	17.0	18.0	1.0	108.6	190.9	25.7	89.3	14.0	2.5	8.8	1.2	7.1	1.3	4.0	0.6	1.2	0.5	43.6	499	Upper Saprolite		
RRMDD255	18.0	19.0	1.0	128.4	240.1	31.0	108.1	17.8	3.0	11.2	1.5	8.5	1.6	4.5	0.7	1.5	0.6	49.7	608	Upper Saprolite		
RRMDD255	19.0	19.9	1.0	129.0	249.5	31.4	106.4	17.0	2.9	10.5	1.4	8.1	1.4	4.2	0.7	1.4	0.6	47.6	612	Upper Saprolite		
RRMDD255	19.9	20.9	1.0	126.7	236.6	32.1	114.5	18.5	3.3	11.6	1.5	8.6	1.5	4.3	0.7	1.5	0.6	47.2	609	Upper Saprolite		
RRMDD255	20.9	21.9	1.0	118.5	217.3	30.7	109.4	18.5	3.2	11.5	1.5	8.4	1.5	3.9	0.6	1.5	0.5	44.3	571	Upper Saprolite		
RRMDD255	21.9	22.9	1.0	102.3	178.0	24.1	86.1	14.1	2.6	9.6	1.3	7.2	1.3	3.9	0.6	1.3	0.5	42.4	475	Upper Saprolite		
RRMDD255	22.9	23.9	1.0	131.9	256.5	33.1	121.9	22.1	4.1	15.5	2.2	12.2	2.2	6.3	0.9	2.2	0.7	70.6	682	Lower Saprolite		
RRMDD255	23.9	24.2	0.3	119.0	325.6	28.0	102.5	18.6	3.4	14.0	2.1	11.9	2.2	5.9	0.8	2.1	0.7	57.1	694	Lower Saprolite	**12.1**	**568**
RRMDD256	0.0	1.9	1.9	89.1	593.8	15.6	50.0	8.0	1.4	6.0	1.0	6.1	1.2	3.6	0.5	1.0	0.6	34.4	812	Soil		
RRMDD256	1.9	3.8	1.9	99.8	612.6	16.9	53.2	7.9	1.4	5.4	1.0	5.6	1.0	3.3	0.5	1.0	0.5	29.2	839	Hardcap		
RRMDD256	3.8	5.7	1.9	97.9	744.9	16.7	54.1	8.2	1.3	5.7	1.0	5.9	1.1	3.5	0.5	1.0	0.6	33.1	976	Transition		
RRMDD256	5.7	7.6	1.9	94.2	278.8	15.5	48.1	6.8	1.2	4.8	0.8	4.8	0.9	2.7	0.5	0.8	0.5	26.9	487	Transition		
RRMDD256	7.6	8.4	0.8	49.8	47.9	8.8	28.7	4.7	0.8	3.8	0.6	4.0	0.8	2.6	0.5	0.6	0.5	25.5	180	Mottled		
RRMDD256	8.4	9.2	0.8	53.6	132.4	7.7	22.6	3.3	0.6	2.3	0.4	2.2	0.4	1.3	0.2	0.4	0.3	13.0	241	Mottled		
RRMDD256	9.2	9.9	0.7	64.6	78.9	10.8	35.5	5.6	1.0	4.2	0.7	4.3	0.8	2.6	0.5	0.7	0.5	25.4	236	Mottled		
RRMDD256	9.9	11.0	1.1	78.2	137.0	20.7	74.9	13.1	2.4	9.0	1.3	7.0	1.2	3.4	0.5	1.3	0.5	32.8	384	Mottled		
RRMDD256	11.0	11.6	0.6	113.5	220.2	30.3	109.4	19.5	3.4	13.0	1.8	9.4	1.6	4.3	0.6	1.8	0.6	40.4	570	Clay		
RRMDD256	11.6	12.2	0.6	111.1	216.1	29.0	103.2	17.3	3.1	11.7	1.6	8.4	1.4	3.9	0.6	1.6	0.6	38.1	548	Clay		

																					>300ppm TREO-Ce_2O_3 Interval	
Hole ID	From m	To m	Int. m	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
RRMDD256	12.2	13.1	0.9	109.9	197.4	27.6	97.4	16.6	3.0	11.4	1.6	8.1	1.5	4.0	0.6	1.6	0.6	43.0	524	Clay		
RRMDD256	13.1	14.0	0.9	78.5	130.6	19.4	67.8	11.3	2.0	7.3	1.0	5.5	1.0	2.9	0.5	1.0	0.5	27.9	357	Clay		
RRMDD256	14.0	15.0	0.9	112.2	230.7	32.5	123.1	24.0	4.7	17.6	2.6	15.1	2.7	7.2	1.0	2.6	0.9	72.1	649	Clay	**4.0**	**525**
RRMDD256	15.0	15.9	0.9	91.1	168.1	23.9	84.1	14.4	2.7	9.9	1.4	7.6	1.4	4.2	0.7	1.4	0.7	41.7	453	Clay		
RRMDD256	15.9	16.8	0.9	78.7	125.3	20.9	75.1	13.0	2.4	8.8	1.2	7.0	1.3	3.6	0.6	1.2	0.6	37.0	377	Clay		
RRMDD256	16.8	17.8	1.1	90.2	162.2	24.2	88.1	15.7	3.0	10.9	1.6	8.4	1.6	4.3	0.6	1.6	0.6	41.1	454	Clay		
RRMDD256	17.8	18.9	1.1	96.8	153.4	24.2	89.8	15.7	3.1	12.2	1.7	9.8	1.8	5.0	0.8	1.7	0.7	51.9	469	Clay		
RRMDD256	18.9	19.4	0.5	110.0	154.0	26.2	99.6	18.1	3.8	16.7	2.5	15.9	3.2	9.2	1.4	2.5	1.3	102.9	567	Clay		
RRMDD256	19.4	20.3	0.9	107.9	170.4	24.6	92.5	16.7	3.4	13.7	2.0	11.1	2.1	5.7	0.9	2.0	0.8	61.1	515	Upper Saprolite	**2.5**	**507**
RRMDD256	20.3	21.1	0.9	97.7	185.1	21.6	75.5	12.8	2.6	9.5	1.4	7.8	1.5	4.1	0.6	1.4	0.6	46.4	468	Upper Saprolite		
RRMDD256	21.1	22.2	1.1	70.1	126.5	15.0	50.4	8.0	1.6	6.0	0.8	4.5	0.9	2.5	0.4	0.8	0.4	28.6	317	Lower Saprolite		
RRMDD256	22.2	23.3	1.1	66.4	123.0	13.5	46.0	7.4	1.4	5.3	0.7	4.2	0.9	2.5	0.4	0.7	0.4	27.4	300	Saprock		
RRMDD257	0.0	1.5	1.5	102.4	207.9	18.9	63.5	10.2	1.7	8.3	1.3	8.6	1.6	5.0	0.8	1.3	0.8	51.4	484	Soil		
RRMDD257	1.5	3.4	1.9	119.0	616.1	20.5	67.3	10.3	1.7	6.8	1.1	6.7	1.3	3.7	0.6	1.1	0.6	30.9	887	Hardcap		
RRMDD257	3.4	5.3	1.9	159.5	753.1	27.7	91.8	14.7	2.4	10.4	1.7	9.6	1.8	5.2	0.8	1.6	0.7	43.2	1124	Hardcap		
RRMDD257	5.3	6.3	1.0	187.6	148.2	25.2	73.9	10.8	1.9	8.1	1.1	6.7	1.2	3.5	0.5	1.1	0.6	35.3	506	Clay		
RRMDD257	6.3	7.2	1.0	38.8	53.3	9.2	32.9	5.4	0.9	4.4	0.7	4.3	0.9	2.9	0.5	0.7	0.5	30.5	186	Clay		
RRMDD257	7.2	8.2	1.0	539.5	552.9	110.2	358.1	59.4	10.0	41.0	5.6	30.9	5.8	15.4	2.0	5.6	1.8	252.7	1991	Clay		
RRMDD257	8.2	9.2	1.1	224.6	460.3	48.3	159.8	26.0	4.4	17.6	2.6	14.1	2.7	7.4	1.1	2.5	1.0	95.1	1068	Clay		
RRMDD257	9.2	10.1	0.9	127.2	242.5	41.5	147.0	25.2	4.2	17.7	2.5	13.9	2.8	7.6	1.1	2.5	1.0	94.7	731	Clay		
RRMDD257	10.1	11.0	1.0	246.3	342.0	76.3	279.9	49.1	8.6	35.3	5.1	29.0	5.5	15.0	2.1	5.1	1.9	196.8	1298	Clay		
RRMDD257	11.0	11.9	0.9	212.9	241.3	55.8	217.0	39.0	7.7	35.2	5.3	31.4	6.1	16.9	2.4	5.3	2.2	185.4	1064	Upper Saprolite		
RRMDD257	11.9	12.7	0.9	139.6	169.8	35.8	141.1	25.9	5.2	24.7	3.8	22.6	4.4	12.2	1.8	3.7	1.7	130.2	722	Upper Saprolite		
RRMDD257	12.7	13.6	0.9	273.3	291.7	64.5	261.3	49.4	9.8	45.2	6.4	35.7	6.5	17.3	2.3	6.3	1.9	181.0	1253	Upper Saprolite		
RRMDD257	13.6	14.4	0.9	197.6	212.0	41.5	161.0	29.3	6.0	27.2	4.0	23.9	4.5	12.5	1.8	4.0	1.6	140.3	867	Upper Saprolite		
RRMDD257	14.4	15.3	0.9	103.2	119.5	17.2	69.8	12.8	3.0	19.0	2.7	16.9	4.0	11.4	1.6	2.7	1.5	175.2	560	Upper Saprolite		
RRMDD257	15.3	15.9	0.6	81.2	105.1	17.6	66.8	12.5	2.5	13.9	2.1	13.7	3.1	9.2	1.3	2.1	1.3	116.6	449	Lower Saprolite		
RRMDD257	15.9	16.5	0.6	139.0	178.6	26.4	102.4	19.5	4.5	29.5	4.5	30.0	7.1	20.6	2.9	4.5	2.8	261.6	834	Lower Saprolite	**11.2**	**905**
RRMDD258	0.0	1.6	1.6	89.5	197.4	16.8	56.5	9.2	1.5	7.7	1.3	8.2	1.6	4.9	0.8	1.3	0.8	50.4	448	Hardcap		
RRMDD258	1.6	3.1	1.6	61.8	776.6	12.1	40.5	6.8	1.1	5.3	0.9	5.5	1.0	3.0	0.5	0.9	0.5	27.2	944	Hardcap		
RRMDD258	3.1	4.7	1.6	60.3	369.0	11.5	40.1	6.7	1.1	5.3	0.9	5.0	1.1	3.3	0.5	0.9	0.5	31.1	537	Hardcap		
RRMDD258	4.7	5.7	1.0	22.2	52.4	4.0	12.9	2.2	0.4	2.0	0.3	2.2	0.5	1.5	0.2	0.3	0.3	15.2	117	Mottled		
RRMDD258	5.7	6.8	1.1	22.5	55.6	4.3	14.3	2.6	0.4	2.6	0.5	3.1	0.7	2.4	0.4	0.5	0.5	23.1	134	Mottled		
RRMDD258	6.8	7.9	1.1	30.4	90.8	6.3	21.5	3.9	0.7	3.6	0.6	4.1	0.9	2.8	0.5	0.6	0.5	28.7	196	Clay		
RRMDD258	7.9	8.7	0.8	43.3	68.6	9.3	32.2	5.8	1.0	5.1	0.8	4.9	1.1	3.4	0.5	0.8	0.6	33.0	210	Clay		
RRMDD258	8.7	9.5	0.8	475.0	565.7	89.4	296.3	48.5	8.3	33.0	4.0	18.0	2.8	6.0	0.8	4.0	0.7	63.7	1616	Clay		
RRMDD258	9.5	10.4	0.8	168.3	224.3	32.4	104.9	18.0	3.0	13.1	1.7	9.9	1.8	4.9	0.7	1.7	0.7	52.7	638	Clay		
RRMDD258	10.4	11.2	0.8	181.8	231.9	35.2	116.4	19.8	3.3	13.6	1.8	9.3	1.7	4.3	0.6	1.8	0.6	47.2	669	Clay	**2.5**	**975**
RRMDD258	11.2	12.0	0.8	77.5	125.3	17.0	56.7	9.4	1.5	7.5	1.1	6.0	1.3	3.8	0.6	1.1	0.6	41.9	351	Upper Saprolite		
RRMDD258	12.0	12.7	0.7	98.7	165.7	21.7	73.5	12.9	2.1	9.9	1.5	7.9	1.7	4.7	0.7	1.5	0.6	52.3	456	Lower Saprolite		
RRMDD258	12.7	13.5	0.7	90.0	150.5	20.0	66.7	11.6	1.9	9.1	1.4	8.2	1.7	4.5	0.7	1.4	0.7	50.5	419	Lower Saprolite		
RRMDD258	13.5	14.2	0.7	117.9	216.1	31.4	106.3	19.4	3.2	13.7	2.0	10.9	2.2	6.0	0.9	2.0	0.8	62.7	595	Lower Saprolite		
RRMDD258	14.2	15.2	1.0	213.4	412.3	63.8	218.7	41.5	6.7	28.6	4.0	21.1	3.8	10.0	1.4	4.0	1.1	103.6	1134	Lower Saprolite		
RRMDD258	15.2	16.1	1.0	100.2	181.0	22.9	77.3	13.5	2.4	10.3	1.5	9.2	1.9	5.3	0.8	1.5	0.8	55.0	483	Lower Saprolite		
RRMDD258	16.1	17.1	1.0	126.1	236.6	32.8	116.6	22.3	4.1	19.3	2.9	17.1	3.5	10.0	1.4	2.9	1.2	123.6	720	Lower Saprolite	**3.6**	**742**
RRMDD258	17.1	17.9	0.8	94.5	172.2	21.3	72.2	12.6	2.1	9.2	1.4	7.7	1.6	4.4	0.7	1.4	0.6	48.8	451	Saprock		
RRMDD258	17.9	18.6	0.8	153.6	271.7	34.8	126.0	23.4	4.4	23.4	3.5	20.1	4.5	12.3	1.7	3.4	1.6	147.9	833	Saprock		

Hole ID	From m	To m	Int. m	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
RRMDD259	0.0	1.7	1.7	97.3	188.0	18.0	63.0	10.5	1.8	9.1	1.4	9.0	1.8	5.1	0.8	1.4	0.8	53.0	461	Soil		
RRMDD259	1.7	3.5	1.8	68.4	630.2	12.7	42.5	6.9	1.1	5.0	0.9	5.9	1.1	3.4	0.6	0.9	0.6	31.4	811	Hardcap		
RRMDD259	3.5	5.3	1.8	84.6	791.8	16.6	57.0	8.9	1.4	6.8	1.2	6.7	1.3	3.8	0.6	1.2	0.6	34.8	1017	Hardcap		
RRMDD259	5.3	7.1	1.8	124.9	1076.4	23.1	78.4	12.2	1.9	8.7	1.4	8.3	1.5	4.5	0.7	1.4	0.7	43.6	1388	Hardcap		
RRMDD259	7.1	7.4	0.3	154.8	158.7	29.0	93.7	14.1	2.4	11.9	1.8	10.6	2.1	6.4	1.0	1.8	0.9	67.2	556	Mottled		
RRMDD259	7.4	8.4	1.0	289.7	537.6	64.2	209.4	32.6	5.3	25.4	3.7	20.8	4.2	11.9	1.7	3.6	1.6	128.9	1341	Mottled		
RRMDD259	8.4	9.2	0.8	363.6	1000.3	94.1	303.3	50.3	7.9	34.8	4.8	25.6	4.9	12.4	1.8	4.8	1.6	132.7	2043	Clay		
RRMDD259	9.2	10.0	0.8	242.8	278.8	58.9	191.3	31.0	4.9	20.8	2.9	15.8	3.0	8.1	1.2	2.8	1.1	86.7	950	Clay		
RRMDD259	10.0	10.8	0.8	156.6	236.6	36.5	119.0	19.2	3.1	13.8	1.9	10.6	2.1	5.9	0.9	1.9	0.9	62.2	671	Clay		
RRMDD259	10.8	11.7	0.9	50.0	85.0	11.2	36.2	5.8	0.9	4.3	0.5	2.9	0.6	1.7	0.3	0.5	0.3	16.0	216	Clay		
RRMDD259	11.7	12.3	0.7	105.4	179.8	28.2	96.0	16.8	3.0	11.6	1.7	8.4	1.5	4.0	0.6	1.7	0.5	35.3	495	Clay		
RRMDD259	12.3	13.0	0.6	79.6	125.3	21.8	74.8	13.9	2.4	10.0	1.5	8.1	1.6	4.4	0.7	1.5	0.6	43.8	390	Clay		
RRMDD259	13.0	13.8	0.8	128.4	103.0	23.8	83.7	14.5	2.9	13.1	1.8	10.0	2.0	5.2	0.8	1.8	0.7	58.4	450	Upper Saprolite	6.7	834
RRMDD259	13.8	14.6	0.8	96.6	82.9	20.1	74.1	13.7	2.6	12.9	1.8	9.9	1.9	5.1	0.7	1.8	0.7	53.6	378	Upper Saprolite		
RRMDD259	14.6	15.3	0.7	48.6	48.0	11.2	42.5	8.3	1.6	7.2	1.0	6.5	1.3	3.8	0.6	1.0	0.5	45.0	227	Upper Saprolite		
RRMDD259	15.3	16.0	0.7	40.0	44.7	8.2	28.8	5.1	1.0	4.5	0.7	4.1	0.9	2.6	0.4	0.7	0.4	30.6	173	Upper Saprolite		
RRMDD259	16.0	16.7	0.7	55.7	92.1	13.5	49.9	9.7	1.7	7.9	1.2	6.9	1.5	4.1	0.6	1.2	0.6	47.6	294	Upper Saprolite		
RRMDD259	16.7	17.4	0.6	38.0	90.4	8.5	30.9	5.3	0.9	4.4	0.6	3.8	0.8	2.4	0.4	0.6	0.4	27.2	215	Lower Saprolite		
RRMDD259	17.4	18.0	0.6	17.6	33.3	3.6	12.5	2.0	0.4	1.6	0.2	1.3	0.3	0.8	0.1	0.2	0.1	8.5	82	Lower Saprolite		
RRMDD260	0.0	1.9	1.9	77.5	513.0	13.6	46.0	7.0	1.2	5.8	0.9	5.6	1.1	3.2	0.5	0.9	0.5	32.5	709	Soil		
RRMDD260	1.9	3.0	1.1	59.2	511.9	9.9	31.5	5.0	0.8	3.6	0.6	3.5	0.7	2.2	0.3	0.6	0.4	18.9	649	Hardcap		
RRMDD260	3.0	4.0	1.1	70.6	631.3	13.2	44.7	7.5	1.2	5.5	1.0	5.6	1.1	3.4	0.5	1.0	0.6	31.0	818	Hardcap		
RRMDD260	4.0	5.1	1.1	111.1	606.7	21.6	77.0	11.9	1.9	9.5	1.4	9.4	1.9	5.5	0.8	1.4	0.9	56.8	918	Hardcap		
RRMDD260	5.1	6.2	1.1	141.3	454.5	23.9	80.2	12.2	2.0	9.3	1.5	9.1	1.8	5.3	0.8	1.5	0.9	55.4	799	Transition		
RRMDD260	6.2	7.0	0.9	104.3	251.8	18.2	58.7	9.8	1.6	7.4	1.1	6.8	1.5	4.3	0.7	1.1	0.7	44.8	513	Mottled		
RRMDD260	7.0	7.9	0.9	92.5	131.2	17.3	57.3	9.7	1.6	7.5	1.2	7.4	1.5	4.6	0.7	1.2	0.8	48.4	383	Mottled		
RRMDD260	7.9	8.3	0.4	105.4	120.1	18.5	59.3	9.9	1.6	7.5	1.2	7.2	1.5	4.6	0.7	1.2	0.8	46.7	386	Mottled		
RRMDD260	8.3	9.4	1.1	145.4	189.2	23.3	71.0	10.6	1.7	7.6	1.2	7.4	1.5	4.6	0.7	1.2	0.7	47.7	514	Clay		
RRMDD260	9.4	10.6	1.1	357.7	363.1	71.0	215.2	29.8	4.4	15.3	2.0	11.0	1.9	5.0	0.7	2.0	0.7	49.7	1130	Clay		
RRMDD260	10.6	11.3	0.7	270.9	336.2	71.7	235.6	34.1	4.9	16.4	2.3	11.3	1.9	4.9	0.7	2.2	0.7	43.0	1037	Clay		
RRMDD260	11.3	12.1	0.8	184.7	296.3	44.8	148.7	22.4	3.4	12.2	1.7	9.2	1.6	4.6	0.7	1.7	0.8	42.8	776	Clay		
RRMDD260	12.1	12.9	0.8	123.1	210.8	29.0	100.8	16.8	2.7	10.8	1.7	10.0	2.0	5.8	0.9	1.7	0.9	57.7	575	Clay		
RRMDD260	12.9	13.7	0.8	123.7	237.8	28.3	97.5	15.9	2.6	9.8	1.4	8.2	1.6	4.5	0.7	1.4	0.7	43.4	578	Clay		
RRMDD260	13.7	14.7	1.0	52.9	121.8	16.3	65.8	14.1	2.4	9.6	1.4	7.9	1.6	4.4	0.7	1.4	0.7	43.8	345	Upper Saprolite		
RRMDD260	14.7	15.6	0.9	223.4	308.1	58.9	235.6	45.0	7.4	28.7	3.9	19.5	3.3	8.4	1.2	3.8	1.2	81.4	1030	Upper Saprolite		
RRMDD260	15.6	16.5	0.9	96.9	190.9	29.4	124.2	26.8	4.5	17.8	2.4	12.7	2.3	5.9	0.9	2.4	0.8	59.3	577	Upper Saprolite		
RRMDD260	16.5	17.4	0.9	88.2	209.7	30.0	133.6	30.5	5.4	23.1	3.3	17.6	3.3	8.8	1.3	3.2	1.2	90.2	649	Upper Saprolite		
RRMDD260	17.4	18.3	0.9	89.6	159.3	25.2	115.6	30.3	6.7	40.9	6.0	37.5	8.5	24.4	3.5	5.9	3.2	363.2	920	Lower Saprolite	10.0	735
RRMDD260	18.3	19.0	0.6	59.0	122.4	13.9	52.8	11.2	2.2	10.1	1.6	9.3	1.9	5.4	0.8	1.5	0.7	62.9	356	Saprock		
RRMDD260	19.0	19.6	0.6	60.2	140.6	14.4	51.6	10.1	1.8	7.8	1.1	6.5	1.4	4.1	0.6	1.1	0.7	42.2	344	Saprock		
RRMDD260	19.6	19.8	0.2	76.8	179.8	17.4	59.7	10.0	1.7	6.3	0.8	4.3	0.8	2.2	0.3	0.8	0.4	24.6	386	Saprock		
RRMDD261	0.0	1.0	1.0	114.3	184.5	21.2	72.0	11.8	2.0	9.3	1.4	8.7	1.7	4.5	0.7	1.3	0.8	47.0	481	Hardcap		
RRMDD261	1.0	1.9	1.0	117.9	346.7	20.6	66.5	10.2	1.7	6.8	1.0	6.0	1.2	3.4	0.5	1.0	0.5	31.5	616	Hardcap		
RRMDD261	1.9	2.9	1.0	209.9	538.8	42.4	144.6	19.8	2.9	10.5	1.4	7.1	1.3	3.6	0.5	1.4	0.5	31.9	1017	Transition		
RRMDD261	2.9	3.8	0.9	229.3	243.6	35.3	106.1	16.4	2.7	11.8	1.7	9.7	2.0	5.5	0.9	1.7	0.9	58.5	726	Mottled		
RRMDD261	3.8	4.6	0.9	142.5	169.3	30.4	103.8	19.0	3.1	13.0	1.9	10.8	2.1	5.6	0.9	1.9	0.9	57.4	563	Mottled		
RRMDD261	4.6	5.4	0.8	136.0	165.2	26.6	89.7	16.0	2.7	12.0	1.8	10.8	2.2	6.3	1.0	1.8	1.0	64.6	538	Mottled		

Hole ID	From m	To m	Int. m	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
RRMDD261	5.4	6.3	0.9	96.4	119.5	24.5	88.3	16.9	2.8	12.3	1.8	10.2	2.1	5.9	0.9	1.8	0.9	61.5	446	Mottled		
RRMDD261	6.3	7.3	1.0	89.7	124.7	25.6	96.7	18.0	3.0	13.9	2.1	12.2	2.5	7.1	1.1	2.1	1.0	78.1	478	Clay		
RRMDD261	7.3	8.4	1.1	336.6	408.8	109.8	424.6	79.9	13.5	54.7	7.5	39.1	7.0	17.8	2.5	7.4	2.1	184.1	1696	Clay		
RRMDD261	8.4	9.5	1.1	334.2	323.3	100.8	404.7	84.2	16.1	76.6	11.7	69.2	13.9	38.1	5.3	11.6	4.6	410.2	1905	Clay		
RRMDD261	9.5	10.0	0.5	103.7	178.6	33.6	141.7	30.3	5.9	30.0	4.6	28.6	6.3	18.3	2.7	4.6	2.6	219.1	811	Upper Saprolite		
RRMDD261	10.0	10.6	0.6	105.6	127.1	33.8	147.0	33.4	6.9	36.8	5.5	34.2	7.3	20.8	3.0	5.5	2.9	252.1	822	Lower Saprolite		
RRMDD261	10.6	11.2	0.6	72.4	99.0	19.3	80.8	17.5	4.1	24.9	3.9	25.7	6.1	18.4	2.5	3.9	2.4	226.0	607	Lower Saprolite	8.3	912
RRMDD261	11.2	12.0	0.8	143.7	162.8	34.8	152.8	29.9	6.9	44.0	6.1	38.7	9.3	26.8	3.6	6.0	3.2	407.6	1076	Saprock		
RRMDD262	0.0	1.5	1.5	143.7	410.0	26.7	87.9	14.8	2.6	11.3	1.7	10.1	2.1	6.2	0.9	1.7	0.9	66.3	787	Soil		
RRMDD262	1.5	3.0	1.5	131.9	525.9	22.2	70.0	10.4	1.8	7.2	1.1	6.3	1.2	3.8	0.6	1.1	0.6	35.6	820	Hardcap		
RRMDD262	3.0	3.9	0.9	99.9	514.2	21.7	77.9	14.0	2.5	12.3	1.9	11.5	2.5	7.2	1.1	1.9	1.1	75.3	845	Transition		
RRMDD262	3.9	4.8	0.9	207.6	1200.6	44.2	151.6	26.2	4.6	20.0	3.0	16.5	3.3	9.8	1.4	3.0	1.4	100.2	1793	Mottled		
RRMDD262	4.8	5.5	0.7	198.8	237.8	39.8	141.7	23.8	4.4	19.5	2.9	17.6	3.6	11.0	1.6	2.8	1.5	118.4	825	Clay		
RRMDD262	5.5	6.1	0.6	262.7	384.2	79.2	295.1	53.9	9.6	40.2	6.1	37.5	7.6	22.7	3.2	6.1	3.1	254.0	1465	Clay		
RRMDD262	6.1	7.0	0.9	285.0	282.3	95.6	359.3	64.9	11.7	47.7	7.0	40.5	8.1	23.3	3.3	6.9	2.9	271.8	1510	Upper Saprolite		
RRMDD262	7.0	7.9	0.9	254.5	219.0	76.3	292.8	53.5	9.7	39.9	5.6	31.0	5.9	16.0	2.3	5.6	2.0	170.8	1185	Upper Saprolite		
RRMDD262	7.9	8.8	0.9	234.0	170.4	61.6	251.9	48.5	10.1	52.3	7.7	47.5	9.9	28.2	4.0	7.7	3.7	309.9	1247	Upper Saprolite		
RRMDD262	8.8	9.7	0.9	380.0	195.0	83.9	372.1	69.0	15.3	101.3	14.4	90.3	21.1	63.5	8.4	14.3	7.4	934.6	2371	Upper Saprolite	5.8	1513
RRMDD262	9.7	10.6	0.9	85.1	130.0	16.4	61.0	10.7	2.2	9.5	1.3	7.5	1.6	4.5	0.6	1.2	0.6	81.7	414	Saprock		
RRMDD263	0.0	1.9	1.9	115.4	271.7	20.7	69.2	11.9	2.0	9.3	1.5	8.2	1.7	4.9	0.8	1.4	0.8	49.8	569	Soil		
RRMDD263	1.9	3.3	1.4	99.5	290.5	18.5	61.2	10.5	1.7	7.4	1.1	6.5	1.3	3.7	0.6	1.1	0.6	35.4	540	Hardcap		
RRMDD263	3.3	4.6	1.4	122.6	216.7	21.0	67.4	10.5	1.7	7.9	1.2	7.3	1.6	4.7	0.8	1.2	0.8	47.6	513	Hardcap		
RRMDD263	4.6	5.2	0.6	108.5	317.4	20.0	67.0	10.2	1.8	8.1	1.3	7.7	1.6	5.1	0.8	1.3	0.8	49.1	601	Transition		
RRMDD263	5.2	5.8	0.6	137.8	240.1	24.7	81.2	12.6	2.3	10.4	1.6	9.4	2.0	5.9	0.9	1.5	1.0	63.0	594	Transition		
RRMDD263	5.8	6.5	0.7	140.7	204.4	26.3	86.4	13.2	2.2	9.9	1.5	9.0	1.9	5.7	0.8	1.5	0.9	58.3	563	Clay		
RRMDD263	6.5	7.2	0.7	160.7	185.1	29.1	93.3	13.7	2.3	10.1	1.5	9.5	2.0	5.9	0.9	1.5	1.0	62.1	578	Clay		
RRMDD263	7.2	8.0	0.9	174.2	164.6	31.2	93.7	12.4	2.2	9.6	1.5	8.6	1.9	5.3	0.9	1.5	0.9	55.2	564	Clay		
RRMDD263	8.0	8.9	0.9	86.4	85.3	19.4	69.2	12.2	2.2	10.0	1.5	9.5	2.0	5.8	0.9	1.5	0.9	57.9	365	Upper Saprolite		
RRMDD263	8.9	9.8	0.9	101.4	145.8	23.8	84.9	14.7	2.7	11.0	1.6	9.7	2.0	5.8	0.9	1.6	0.9	56.5	463	Upper Saprolite		
RRMDD263	9.8	10.9	1.1	80.2	181.0	20.7	77.8	13.9	2.5	10.8	1.6	9.3	1.8	5.4	0.8	1.6	0.8	51.7	460	Upper Saprolite		
RRMDD263	10.9	12.0	1.1	225.2	214.9	67.3	276.4	52.3	10.5	46.9	6.4	35.3	7.1	19.6	2.6	6.4	2.3	235.6	1209	Upper Saprolite	6.2	616
RRMDD263	12.0	12.8	0.9	77.2	151.7	17.4	64.7	11.9	2.4	9.9	1.5	8.6	1.9	5.5	0.8	1.4	1.0	58.8	415	Saprock		
RRMDD263	12.8	13.7	0.9	75.8	149.3	17.0	62.8	11.0	2.1	8.4	1.2	6.4	1.2	3.7	0.5	1.2	0.5	38.2	379	Saprock		
RRMDD264	0.0	2.1	2.1	95.3	182.1	17.7	58.4	10.1	1.7	7.4	1.2	7.0	1.4	4.3	0.6	1.2	0.7	40.9	430	Soil		
RRMDD264	2.1	4.2	2.1	100.0	773.1	19.1	62.5	10.7	1.8	7.3	1.3	7.2	1.4	4.3	0.7	1.3	0.7	36.1	1027	Hardcap		
RRMDD264	4.2	4.6	0.4	147.8	255.3	25.3	80.6	12.7	2.3	9.1	1.4	8.3	1.7	4.9	0.7	1.4	0.8	44.6	597	Transition		
RRMDD264	4.6	5.5	0.9	236.9	215.5	40.1	115.7	15.8	2.7	11.3	1.7	9.1	1.8	5.4	0.8	1.6	0.9	57.1	717	Mottled		
RRMDD264	5.5	6.4	0.9	260.4	240.1	49.2	149.9	22.4	4.0	16.4	2.3	13.3	2.6	7.7	1.1	2.3	1.1	82.9	856	Mottled		
RRMDD264	6.4	7.4	0.9	120.2	118.9	24.0	80.8	13.9	2.7	13.2	1.9	11.9	2.5	7.6	1.2	1.9	1.2	85.0	487	Clay		
RRMDD264	7.4	8.3	0.9	130.2	156.4	30.7	110.8	20.2	3.8	17.9	2.6	15.7	3.3	9.8	1.5	2.6	1.4	113.5	620	Clay		
RRMDD264	8.3	9.1	0.8	107.4	200.9	37.8	155.7	31.0	5.8	24.3	3.5	20.0	4.0	11.3	1.6	3.5	1.6	133.3	742	Clay		
RRMDD264	9.1	9.8	0.8	131.4	257.7	61.3	271.8	55.7	10.3	39.9	5.5	29.0	5.4	15.0	2.0	5.5	1.9	159.4	1052	Clay		
RRMDD264	9.8	10.5	0.7	124.3	219.6	48.7	213.5	43.6	8.6	36.9	5.3	29.0	5.9	16.5	2.3	5.2	2.2	186.7	948	Clay		
RRMDD264	10.5	11.4	0.9	431.6	477.9	129.9	537.7	105.4	22.1	115.3	17.7	108.6	22.6	61.9	8.5	17.5	7.7	748.0	2812	Clay		
RRMDD264	11.4	12.3	0.9	161.3	224.9	36.4	137.6	24.5	4.9	22.9	3.3	19.7	3.8	10.1	1.5	3.3	1.4	116.7	772	Clay		
RRMDD264	12.3	13.2	0.9	77.3	145.8	19.9	77.3	14.7	3.2	15.4	2.3	14.2	3.0	8.7	1.3	2.3	1.3	100.4	487	Upper Saprolite	8.6	946
RRMDD264	13.2	14.1	0.9	73.5	124.7	16.2	61.7	11.9	2.6	13.4	2.0	12.5	2.7	7.6	1.1	2.0	1.1	87.1	420	Upper Saprolite		

Hole ID	From m	To m	Int. m	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
RRMDD264	14.1	14.9	0.8	44.8	82.0	9.3	35.3	6.6	1.3	7.4	1.2	7.5	1.6	4.7	0.8	1.2	0.8	50.8	255	Lower Saprolite		
RRMDD264	14.9	15.7	0.8	66.4	141.1	19.2	83.7	20.0	5.0	29.4	4.4	28.5	6.7	19.4	2.6	4.4	2.7	304.8	738	Saprock		
RRMDD264	15.7	16.7	1.0	51.1	106.4	12.4	47.1	9.0	2.0	8.5	1.2	7.1	1.5	4.2	0.6	1.2	0.6	54.9	308	Saprock		
RRMDD264	16.7	17.7	1.0	53.2	108.7	11.9	42.3	7.4	1.4	5.5	0.8	4.2	0.9	2.5	0.4	0.8	0.5	26.7	267	Saprock		
RRMDD265	0.0	1.7	1.7	184.7	379.5	30.9	94.2	13.7	2.3	9.5	1.4	8.2	1.6	4.8	0.7	1.4	0.7	47.2	781	Soil		
RRMDD265	1.7	3.4	1.7	158.9	597.4	26.8	80.5	11.9	1.9	8.2	1.2	7.2	1.4	4.2	0.7	1.2	0.7	39.4	941	Hardcap		
RRMDD265	3.4	4.0	0.6	112.9	328.0	20.1	66.7	11.0	1.9	8.3	1.3	7.6	1.5	4.4	0.7	1.3	0.7	45.0	611	Transition		
RRMDD265	4.0	4.6	0.6	112.5	240.1	21.4	71.9	12.2	2.2	9.2	1.4	8.0	1.6	4.8	0.7	1.4	0.8	48.5	537	Transition		
RRMDD265	4.6	5.5	0.9	126.1	199.1	25.9	87.6	15.5	2.8	12.3	1.8	9.8	1.9	5.2	0.8	1.8	0.8	59.9	551	Clay		
RRMDD265	5.5	6.4	0.9	151.9	224.3	32.5	116.4	24.5	5.2	31.0	5.2	34.0	7.8	22.8	3.2	5.2	2.9	348.0	1015	Clay		
RRMDD265	6.4	7.4	0.9	84.1	157.5	19.4	72.9	14.6	3.0	14.9	2.4	14.3	3.1	8.5	1.2	2.4	1.1	99.7	499	Clay		
RRMDD265	7.4	8.3	1.0	83.3	168.1	20.1	76.7	15.7	3.3	16.0	2.5	14.7	3.0	8.6	1.2	2.4	1.1	98.3	515	Clay		
RRMDD265	8.3	9.3	0.9	77.3	149.9	19.4	76.2	16.3	3.5	17.1	2.7	16.4	3.3	9.2	1.3	2.7	1.2	100.4	497	Clay		
RRMDD265	9.3	10.2	0.9	73.1	138.2	18.5	74.4	16.0	3.4	17.0	2.8	16.9	3.4	9.3	1.3	2.7	1.2	98.7	477	Clay		
RRMDD265	10.2	11.1	0.9	82.0	162.8	23.4	98.7	24.6	5.4	28.9	4.7	28.8	5.7	15.7	2.2	4.7	1.9	160.6	650	Clay		
RRMDD265	11.1	12.0	0.9	89.1	183.9	26.1	113.0	27.1	6.1	36.0	6.0	37.8	8.1	22.6	3.1	6.0	2.8	259.1	827	Upper Saprolite		
RRMDD265	12.0	12.9	0.9	103.2	224.9	33.4	151.0	32.1	7.1	46.2	7.1	45.1	10.5	29.6	4.1	7.0	3.7	387.3	1092	Upper Saprolite		
RRMDD265	12.9	13.8	0.9	92.3	202.6	24.6	102.3	19.5	4.3	28.0	4.0	25.5	6.2	18.2	2.5	4.0	2.3	280.6	817	Upper Saprolite		
RRMDD265	13.8	14.6	0.9	80.7	178.6	19.4	74.1	13.2	2.8	15.3	2.1	12.7	3.1	9.0	1.2	2.1	1.1	184.8	600	Lower Saprolite	**10.0**	**682**
RRMDD265	14.6	15.5	0.9	84.4	188.0	18.8	66.8	11.8	2.4	9.7	1.4	7.6	1.5	4.1	0.6	1.4	0.6	57.3	456	Lower Saprolite		
RRMDD265	15.5	16.3	0.8	84.6	189.2	19.3	68.4	12.4	2.5	9.9	1.4	8.1	1.5	4.1	0.6	1.4	0.6	44.8	449	Saprock		
RRMDD265	16.3	17.2	0.9	83.3	183.3	18.5	66.6	11.6	2.4	9.3	1.3	6.8	1.3	3.5	0.5	1.3	0.5	37.2	427	Saprock		
RRMDD265	17.2	18.0	0.8	83.7	188.6	18.8	68.1	11.5	2.4	9.0	1.3	7.1	1.4	3.7	0.5	1.3	0.6	39.5	438	Fresh Rock		
RRMDD266	0.0	1.2	1.2	158.9	380.7	26.9	85.4	12.7	2.2	9.7	1.5	7.8	1.6	4.9	0.8	1.4	0.8	48.9	744	Soil		
RRMDD266	1.2	3.1	1.9	134.3	864.4	21.7	67.5	9.7	1.6	6.8	1.1	6.6	1.2	3.4	0.5	1.1	0.5	31.7	1152	Hardcap		
RRMDD266	3.1	4.4	1.3	141.9	860.9	21.8	67.8	10.4	1.6	7.1	1.2	7.0	1.2	3.9	0.6	1.2	0.6	35.9	1163	Hardcap		
RRMDD266	4.4	5.3	1.0	118.5	284.6	16.4	47.4	7.0	1.2	5.5	0.9	5.5	1.2	3.6	0.6	0.9	0.6	35.2	529	Mottled		
RRMDD266	5.3	6.3	1.0	119.0	144.7	17.1	50.6	7.2	1.2	5.8	0.9	5.7	1.1	3.5	0.5	0.9	0.6	35.3	394	Mottled		
RRMDD266	6.3	7.4	1.0	207.6	507.2	37.9	124.2	20.1	3.5	14.4	2.1	11.5	2.2	6.1	0.9	2.1	0.9	61.1	1002	Clay		
RRMDD266	7.4	8.2	0.9	315.5	326.8	103.0	386.1	68.9	12.5	53.8	8.2	46.1	9.0	23.9	3.3	8.1	3.0	290.8	1659	Clay		
RRMDD266	8.1	9.1	1.0	293.2	331.5	86.0	325.4	59.0	10.8	51.9	7.3	45.2	8.9	25.4	3.5	7.3	3.2	323.8	1582	Clay		
RRMDD266	9.1	10.0	0.9	229.9	299.9	61.6	230.9	41.7	7.4	34.0	4.9	30.1	5.9	16.4	2.3	4.9	2.1	191.1	1163	Clay		
RRMDD266	10.0	10.9	0.9	498.4	425.2	143.9	572.7	107.6	19.7	97.4	13.1	76.3	14.1	38.4	5.3	13.0	4.6	468.6	2498	Clay		
RRMDD266	10.9	11.4	0.5	253.3	253.0	65.9	260.1	49.4	9.3	50.3	7.1	44.6	8.9	25.5	3.5	7.1	3.3	316.2	1358	Clay		
RRMDD266	11.4	11.9	0.5	248.6	267.1	66.4	260.1	47.7	8.9	44.7	6.2	37.8	7.5	20.7	2.9	6.2	2.6	256.5	1284	Clay		
RRMDD266	11.9	12.7	0.8	254.5	275.3	63.5	251.9	47.0	9.1	46.3	6.3	37.3	7.1	19.3	2.7	6.3	2.5	225.4	1254	Clay		
RRMDD266	12.7	13.5	0.8	273.3	265.9	65.3	262.4	49.4	9.3	48.6	6.4	37.5	6.9	18.8	2.6	6.4	2.3	218.4	1274	Clay		
RRMDD266	13.5	14.2	0.8	127.2	167.5	26.7	111.9	22.6	4.8	29.4	4.2	27.1	5.7	15.9	2.3	4.1	2.1	224.8	776	Upper Saprolite		
RRMDD266	14.2	15.0	0.8	93.4	185.1	21.1	77.7	14.5	2.8	13.2	1.8	11.1	2.2	6.6	0.9	1.8	0.9	78.5	512	Upper Saprolite		
RRMDD266	15.0	15.8	0.8	66.5	130.6	14.1	49.3	8.2	1.5	6.5	0.9	5.4	1.1	3.1	0.5	0.9	0.5	35.4	325	Upper Saprolite		
RRMDD266	15.8	16.5	0.7	93.9	220.8	23.3	88.9	17.7	3.5	15.7	2.3	14.7	3.0	9.1	1.3	2.2	1.3	95.9	594	Lower Saprolite	**10.3**	**1196**
RRMDD266	16.5	17.3	0.8	72.8	155.2	15.6	54.7	9.3	1.8	7.6	1.0	6.0	1.2	3.5	0.5	1.0	0.5	39.1	370	Saprock		
RRMDD266	17.3	18.0	0.8	73.4	165.2	17.2	61.7	11.4	2.2	8.8	1.2	6.7	1.2	3.5	0.5	1.2	0.5	38.4	393	Saprock		
RRMDD267	0.0	1.6	1.6	173.0	376.0	30.0	96.5	13.9	2.3	10.2	1.6	9.6	1.8	5.4	0.8	1.6	0.8	51.9	775	Soil		
RRMDD267	1.6	3.1	1.6	174.2	920.6	32.1	99.1	13.7	2.1	8.7	1.4	8.5	1.6	4.8	0.8	1.4	0.7	44.1	1314	Hardcap		
RRMDD267	3.1	3.8	0.7	119.6	1440.7	22.2	72.6	12.3	2.0	9.6	1.6	9.3	1.8	5.5	0.9	1.6	0.9	48.1	1749	Transition		
RRMDD267	3.8	4.8	1.0	198.8	305.7	33.7	101.7	15.0	2.4	10.3	1.5	8.7	1.7	5.1	0.8	1.5	0.8	51.6	739	Mottled		

Hole ID	From m	To m	Int. m	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)	TREO ppm
RRMDD267	4.8	5.7	0.9	128.4	188.6	23.8	75.8	11.6	1.9	8.8	1.2	7.8	1.6	4.7	0.8	1.2	0.8	49.0	506	Mottled		
RRMDD267	5.7	6.6	0.9	308.4	555.2	53.6	160.4	22.0	3.5	15.2	2.2	12.9	2.4	7.4	1.1	2.1	1.1	74.2	1222	Clay		
RRMDD267	6.6	7.5	0.9	103.4	614.9	28.1	109.3	22.1	3.7	16.9	2.5	15.1	2.9	8.4	1.3	2.5	1.2	87.5	1020	Clay		
RRMDD267	7.5	8.4	0.9	206.4	511.9	48.1	177.3	34.3	6.3	28.7	4.3	26.3	5.2	14.9	2.3	4.2	2.1	153.0	1225	Clay		
RRMDD267	8.4	9.3	1.0	108.4	278.8	28.4	109.8	20.6	3.5	15.4	2.2	13.3	2.5	7.7	1.2	2.1	1.2	79.6	675	Clay		
RRMDD267	9.3	10.3	1.0	100.3	189.2	25.7	94.7	17.2	3.1	13.7	1.9	11.9	2.3	7.0	1.1	1.9	1.1	73.4	544	Clay		
RRMDD267	10.3	11.1	0.8	497.3	315.1	158.6	656.7	133.9	24.1	106.6	14.5	85.8	16.6	47.7	6.9	14.4	6.2	505.4	2590	Clay		
RRMDD267	11.1	11.9	0.8	151.9	222.0	41.2	160.4	31.5	5.7	24.8	3.5	20.2	3.8	11.0	1.7	3.4	1.5	113.4	796	Clay		
RRMDD267	11.9	12.7	0.8	90.7	145.8	25.2	99.0	19.0	3.5	16.9	2.4	15.1	3.1	9.1	1.4	2.4	1.3	98.8	534	Clay		
RRMDD267	12.7	13.7	1.0	102.4	158.7	28.9	115.8	22.1	3.9	18.8	2.7	16.7	3.4	10.1	1.5	2.6	1.4	114.2	603	Clay		
RRMDD267	13.7	14.7	1.0	128.4	213.8	38.5	153.4	30.6	5.9	27.9	4.2	26.7	5.4	16.1	2.2	4.2	2.0	194.9	854	Clay		
RRMDD267	14.7	15.7	1.0	109.4	254.2	28.8	110.8	21.9	4.2	21.2	3.1	19.0	3.9	11.4	1.6	3.0	1.4	137.1	731	Upper Saprolite		
RRMDD267	15.7	16.6	1.0	151.9	316.3	36.4	140.6	27.5	5.4	26.4	3.7	22.8	4.6	13.1	1.9	3.7	1.6	156.2	912	Upper Saprolite		
RRMDD267	16.6	17.6	1.0	98.4	147.0	26.6	110.9	23.3	4.8	24.7	3.6	22.3	4.5	13.1	1.9	3.5	1.6	161.3	647	Upper Saprolite		
RRMDD267	17.6	18.5	0.9	83.9	134.7	21.6	89.3	20.6	4.1	21.2	3.2	20.3	3.9	11.8	1.6	3.2	1.4	140.3	561	Lower Saprolite	14.7	867
RRMDD268	0.0	1.6	1.6	140.7	354.9	23.0	74.6	11.3	2.0	8.3	1.3	8.1	1.5	4.5	0.7	1.3	0.7	44.7	678	Soil		
RRMDD268	1.6	3.2	1.6	141.9	378.3	22.5	70.3	10.7	1.7	7.5	1.2	7.2	1.4	4.1	0.6	1.2	0.6	38.7	688	Hardcap		
RRMDD268	3.2	4.0	0.9	56.6	74.4	11.0	38.4	6.0	1.0	5.0	0.8	4.9	1.0	3.0	0.5	0.8	0.5	30.1	234	Clay		
RRMDD268	4.0	4.9	0.9	41.8	50.4	8.5	30.0	4.7	0.8	4.2	0.6	4.0	0.9	2.6	0.4	0.6	0.4	25.7	176	Clay		
RRMDD268	4.9	5.7	0.9	31.3	35.1	6.4	22.6	3.7	0.6	3.1	0.5	3.1	0.6	2.0	0.3	0.5	0.3	19.7	130	Clay		
RRMDD268	5.7	6.6	0.9	23.9	55.8	5.0	17.8	2.7	0.5	2.4	0.4	2.5	0.5	1.6	0.3	0.4	0.3	16.4	130	Clay		
RRMDD268	6.6	7.5	0.9	22.3	54.0	4.8	17.0	2.9	0.5	2.5	0.4	2.7	0.6	1.7	0.3	0.4	0.3	17.3	128	Clay		
RRMDD268	7.5	8.4	0.9	25.7	75.7	5.7	20.1	3.4	0.6	2.9	0.4	2.6	0.5	1.7	0.3	0.4	0.3	17.0	157	Clay		
RRMDD268	8.4	9.5	1.1	19.8	79.2	4.5	15.9	2.7	0.4	2.2	0.4	2.3	0.5	1.6	0.2	0.4	0.3	15.0	145	Clay		
RRMDD268	9.5	10.5	1.1	19.7	56.2	4.5	15.5	2.5	0.3	2.1	0.3	2.1	0.4	1.2	0.2	0.3	0.2	12.7	118	Clay		
RRMDD268	10.5	11.5	1.0	11.5	29.4	2.8	9.8	1.7	0.3	1.4	0.2	1.4	0.3	0.9	0.2	0.2	0.2	9.8	70	Clay		
RRMDD268	11.5	12.1	0.5	30.3	55.8	7.6	27.2	4.5	0.7	3.4	0.5	2.9	0.6	1.8	0.3	0.5	0.3	17.9	154	Upper Saprolite		
RRMDD268	12.1	13.0	0.9	419.9	305.7	73.3	244.9	43.7	8.4	41.0	7.0	42.2	8.4	22.3	2.8	7.0	2.0	271.8	1500	Upper Saprolite		
RRMDD268	13.0	13.9	0.9	287.3	158.7	50.9	170.9	26.9	4.7	18.4	2.4	11.7	1.7	4.4	0.5	2.4	0.4	45.8	787	Upper Saprolite	1.8	1144
RRMDD268	13.9	14.7	0.8	23.9	31.4	5.9	21.0	3.5	0.6	2.3	0.3	1.7	0.3	0.9	0.1	0.3	0.1	8.6	101	Lower Saprolite		
RRMDD268	14.7	15.5	0.8	45.5	154.6	13.7	49.5	8.9	1.6	6.1	0.9	5.1	1.0	2.4	0.4	0.9	0.3	26.3	317	Lower Saprolite		
RRMDD268	15.5	16.4	0.8	80.7	67.8	18.4	63.0	10.4	1.9	7.8	1.0	5.6	1.0	2.7	0.4	1.0	0.3	27.0	289	Lower Saprolite		
RRMDD268	16.4	17.2	0.8	40.0	40.3	10.2	37.6	6.5	1.2	4.9	0.7	3.5	0.6	1.6	0.2	0.7	0.3	18.0	166	Saprock		
RRMDD268	17.2	18.0	0.8	69.2	79.6	17.0	66.7	13.3	3.0	16.0	3.0	21.9	4.7	14.1	1.9	3.0	1.7	154.9	470	Saprock		
RRMDD269	0.0	2.0	2.0	80.7	142.3	16.9	63.0	10.9	1.8	9.2	1.4	8.9	1.9	5.4	0.9	1.4	0.9	58.8	404	Soil		
RRMDD269	2.0	4.0	2.0	69.4	319.8	12.8	44.9	7.2	1.2	5.1	0.9	5.6	1.1	3.2	0.5	0.9	0.6	28.4	501	Hardcap		
RRMDD269	4.0	4.9	0.9	62.3	626.6	13.2	47.8	8.6	1.4	6.8	1.1	6.7	1.4	4.3	0.7	1.1	0.7	39.0	822	Transition		
RRMDD269	4.9	5.8	0.9	61.7	127.1	13.2	48.6	8.4	1.6	7.2	1.2	7.5	1.5	4.9	0.8	1.2	0.9	50.3	336	Mottled		
RRMDD269	5.8	6.7	0.9	106.4	124.2	22.2	80.2	13.6	2.4	11.6	1.9	11.2	2.4	7.1	1.1	1.9	1.1	77.1	464	Mottled		
RRMDD269	6.7	7.6	0.9	123.1	181.0	26.8	96.2	15.2	2.7	12.3	1.9	10.8	2.2	6.6	1.0	1.9	1.0	72.8	555	Mottled		
RRMDD269	7.6	8.4	0.9	166.0	230.2	35.5	123.6	19.4	3.3	14.1	2.1	11.4	2.2	6.4	1.0	2.1	1.0	73.3	691	Mottled		
RRMDD269	8.4	9.1	0.6	136.6	123.6	27.3	96.7	16.5	3.0	13.0	1.9	10.5	2.0	6.2	0.9	1.9	1.0	62.6	504	Clay		
RRMDD269	9.1	9.7	0.6	150.7	137.6	27.9	96.2	16.5	2.9	12.9	1.9	11.1	2.1	6.2	0.9	1.9	1.0	68.8	539	Clay		
RRMDD269	9.7	10.3	0.6	315.5	309.2	70.2	260.1	44.3	7.9	36.3	5.0	27.0	4.9	13.8	1.9	5.0	1.8	150.5	1253	Upper Saprolite		
RRMDD269	10.3	10.9	0.6	473.8	455.6	113.9	435.1	75.3	13.7	58.3	7.8	41.1	7.1	18.9	2.6	7.8	2.2	209.5	1923	Upper Saprolite		
RRMDD269	10.9	11.5	0.6	286.2	272.9	66.5	248.4	42.3	7.8	33.2	4.5	24.3	4.3	11.7	1.6	4.5	1.5	124.7	1134	Upper Saprolite		
RRMDD269	11.5	12.1	0.6	240.4	237.8	61.2	237.9	43.0	8.0	35.3	5.1	27.5	4.9	13.7	1.9	5.0	1.8	146.7	1070	Upper Saprolite		

Hole ID	From m	To m	Int. m	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)	TREO ppm
RRMDD269	12.1	12.7	0.6	182.4	178.6	35.6	146.4	26.8	6.0	36.2	5.4	33.2	7.4	22.6	3.1	5.3	3.0	318.7	1011	Upper Saprolite	**6.8**	**870**
RRMDD269	12.7	13.3	0.7	242.8	244.8	56.4	221.0	44.5	9.8	47.3	7.1	42.7	8.5	23.7	3.4	7.0	3.1	275.6	1238	Saprock		
RRMDD270	0.0	1.9	1.9	150.7	235.4	24.6	80.7	12.4	2.1	8.6	1.3	8.3	1.6	5.0	0.7	1.3	0.7	48.0	581	Soil		
RRMDD270	1.9	3.6	1.7	154.2	699.3	23.8	74.3	10.4	1.7	6.9	1.2	7.1	1.4	3.9	0.6	1.2	0.6	37.1	1024	Hardcap		
RRMDD270	3.6	5.2	1.6	152.5	1294.3	24.8	79.3	12.2	2.0	8.3	1.4	8.0	1.5	4.5	0.7	1.4	0.7	39.1	1631	Hardcap		
RRMDD270	5.2	6.0	0.8	90.5	561.1	16.8	56.3	9.3	1.7	7.8	1.3	7.4	1.5	4.6	0.7	1.2	0.7	45.1	806	Transition		
RRMDD270	6.0	6.8	0.8	43.5	64.9	8.4	29.5	5.2	1.0	4.9	0.8	5.4	1.2	3.6	0.6	0.8	0.7	37.6	208	Mottled		
RRMDD270	6.8	7.7	1.0	87.3	182.1	19.5	68.7	11.8	2.2	10.3	1.6	10.3	2.1	6.4	0.9	1.6	0.9	71.9	478	Mottled		
RRMDD270	7.7	8.7	1.0	154.8	189.8	36.9	128.3	21.6	4.0	18.3	2.7	15.8	3.3	9.2	1.3	2.6	1.3	109.8	699	Clay		
RRMDD270	8.7	9.7	1.0	111.8	212.0	26.3	91.7	15.6	3.0	13.1	2.0	12.5	2.6	7.4	1.1	2.0	1.0	86.9	589	Clay		
RRMDD270	9.7	10.4	0.7	157.2	158.7	39.1	134.7	22.3	4.2	18.4	2.7	16.1	3.2	9.0	1.3	2.7	1.2	109.5	680	Clay		
RRMDD270	10.4	11.1	0.7	159.5	159.9	40.4	139.4	23.4	4.3	17.2	2.4	14.0	2.7	7.5	1.1	2.4	1.0	89.4	664	Clay		
RRMDD270	11.1	12.1	1.0	157.2	214.9	43.9	148.1	25.2	4.5	16.8	2.3	13.2	2.5	6.6	1.0	2.3	0.9	75.1	714	Clay		
RRMDD270	12.1	13.1	1.0	220.5	238.9	68.5	231.5	39.9	7.0	22.5	3.1	15.4	2.6	6.5	0.9	3.0	0.8	70.1	931	Clay		
RRMDD270	13.1	14.1	1.0	198.2	209.7	59.5	200.6	34.6	6.1	20.5	2.7	13.9	2.4	6.3	0.9	2.7	0.8	66.3	825	Clay		
RRMDD270	14.1	15.0	1.0	217.6	216.1	67.8	231.5	39.8	6.9	23.4	3.1	15.7	2.6	6.7	1.0	3.1	0.8	69.2	905	Clay		
RRMDD270	15.0	16.0	1.0	188.8	208.5	52.7	182.5	31.0	5.5	19.7	2.5	13.5	2.3	5.9	0.9	2.5	0.8	64.8	782	Clay		
RRMDD270	16.0	17.0	1.0	206.4	333.8	54.9	191.3	33.2	6.0	22.7	3.1	16.9	3.1	7.8	1.1	3.1	1.0	87.4	972	Clay		
RRMDD270	17.0	18.0	1.0	197.0	193.9	55.8	192.5	32.8	5.9	21.0	2.8	14.9	2.6	6.8	1.0	2.8	0.9	76.2	807	Clay		
RRMDD270	18.0	19.0	0.9	206.4	230.7	53.4	189.5	32.0	5.9	21.8	3.1	15.8	2.8	6.9	1.0	3.0	0.8	82.4	855	Clay		
RRMDD270	19.0	19.8	0.8	422.2	363.1	113.6	400.1	68.9	13.0	48.1	6.4	32.6	5.5	13.3	1.8	6.3	1.3	145.4	1642	Clay		
RRMDD270	19.8	20.6	0.8	392.9	282.3	103.2	369.7	63.9	12.0	47.3	6.6	35.5	6.6	16.5	2.2	6.5	1.8	188.6	1536	Clay		
RRMDD270	20.6	21.4	0.8	279.1	212.0	72.3	258.9	44.4	8.2	31.2	4.2	21.8	3.9	9.8	1.3	4.1	1.1	107.9	1060	Clay		
RRMDD270	21.4	22.4	1.0	470.3	230.7	120.5	444.4	78.2	15.1	59.4	7.9	39.8	6.6	15.6	2.1	7.8	1.5	163.8	1664	Clay		
RRMDD270	22.4	23.4	1.0	606.3	263.5	151.0	570.4	103.4	20.6	89.8	12.4	69.3	12.6	32.1	4.3	12.3	3.4	377.2	2329	Clay		
RRMDD270	23.4	24.5	1.0	676.7	296.3	172.0	632.2	113.5	23.1	100.7	13.9	75.9	13.6	34.6	4.6	13.8	3.5	396.2	2571	Clay		
RRMDD270	24.5	25.5	1.0	682.6	278.8	136.3	549.4	99.4	21.9	110.4	15.5	88.3	17.4	46.2	6.1	15.4	4.9	595.6	2668	Clay		
RRMDD270	25.5	26.5	1.0	399.9	395.9	78.5	303.3	53.8	11.3	55.8	7.5	42.6	8.4	22.1	2.9	7.5	2.5	306.0	1698	Clay		
RRMDD270	26.5	27.2	0.7	102.7	140.6	21.4	79.3	13.5	2.8	13.6	1.9	11.9	2.5	7.1	1.0	1.9	0.9	98.8	500	Upper Saprolite	**19.5**	**1223**
RRMDD270	27.2	28.0	0.7	84.6	166.3	18.5	65.3	10.9	2.2	9.0	1.3	7.0	1.4	3.9	0.6	1.3	0.5	47.9	421	Upper Saprolite		
RRMDD270	28.0	28.7	0.8	70.6	149.3	15.2	53.1	8.7	1.7	7.2	1.0	5.9	1.2	3.4	0.5	1.0	0.5	42.3	361	Lower Saprolite		
RRMDD270	28.7	29.5	0.8	84.9	226.6	18.7	65.7	11.7	2.3	9.9	1.4	7.8	1.6	4.5	0.6	1.4	0.6	57.0	495	Lower Saprolite		
RRMDD271	0.0	1.8	1.8	146.6	364.3	25.5	83.6	12.2	2.0	8.8	1.3	8.5	1.6	4.8	0.7	1.3	0.8	47.4	709	Soil		
RRMDD271	1.8	3.2	1.3	198.2	719.2	35.0	111.0	15.5	2.3	10.0	1.5	9.0	1.7	5.1	0.8	1.5	0.8	45.2	1157	Hardcap		
RRMDD271	3.2	3.9	0.8	191.2	507.2	30.2	92.3	13.3	2.2	9.5	1.5	8.2	1.7	4.6	0.7	1.4	0.8	47.5	912	Transition		
RRMDD271	3.9	4.7	0.8	166.5	723.9	33.1	110.2	16.5	2.7	11.1	1.6	8.9	1.7	4.8	0.8	1.6	0.8	46.4	1130	Transition		
RRMDD271	4.7	5.6	1.0	144.8	244.8	31.2	105.8	15.7	2.7	10.2	1.3	7.1	1.3	4.0	0.6	1.3	0.7	40.6	612	Mottled		
RRMDD271	5.6	6.6	1.0	191.2	315.1	44.5	158.0	22.7	3.5	13.1	1.7	8.7	1.6	4.5	0.7	1.7	0.7	45.8	813	Mottled		
RRMDD271	6.6	7.5	0.9	147.2	247.1	30.7	103.8	14.8	2.4	9.3	1.3	7.4	1.4	4.0	0.6	1.3	0.6	43.4	615	Mottled		
RRMDD271	7.5	8.5	1.0	79.0	120.6	19.3	73.2	14.0	2.9	13.1	2.0	12.2	2.5	7.3	1.1	2.0	1.0	84.7	435	Clay		
RRMDD271	8.5	9.4	0.9	81.6	381.8	26.4	117.8	27.0	5.4	26.9	4.1	24.4	4.9	13.5	1.9	4.1	1.7	154.3	876	Clay		
RRMDD271	9.4	10.4	0.9	87.4	126.5	30.3	142.9	34.6	7.0	34.8	5.1	30.2	5.9	16.2	2.2	5.1	1.9	197.5	728	Clay		
RRMDD271	10.4	11.4	1.1	75.4	132.9	23.4	109.5	26.9	5.6	29.3	4.4	26.3	5.3	14.5	2.0	4.3	1.8	179.1	641	Clay		
RRMDD271	11.4	12.5	1.1	106.3	222.5	27.0	102.8	19.9	3.9	19.1	2.8	16.5	3.4	9.3	1.3	2.8	1.3	113.1	652	Upper Saprolite		
RRMDD271	12.5	13.4	0.9	91.0	212.0	25.4	102.6	20.9	4.1	19.9	2.8	16.9	3.5	9.9	1.4	2.8	1.2	116.6	631	Upper Saprolite		
RRMDD271	13.4	14.3	0.9	92.9	168.7	26.6	109.3	22.1	4.5	22.4	3.3	19.7	4.0	11.0	1.6	3.3	1.4	135.2	626	Upper Saprolite		
RRMDD271	14.3	15.2	0.9	92.3	167.5	25.4	105.8	24.0	5.2	26.7	4.1	24.8	5.1	14.3	1.9	4.1	1.7	164.5	667	Upper Saprolite		

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																					>300ppm $TREO-Ce_2O_3$ Interval	
Hole ID	From m	To m	Int. m	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
RRMDD271	15.2	16.1	0.9	90.5	172.8	26.0	109.9	25.6	5.6	29.3	4.4	26.4	5.5	15.0	2.0	4.4	1.7	174.6	694	Upper Saprolite		
RRMDD271	16.1	17.0	0.9	100.3	215.5	26.4	112.0	25.9	5.5	31.0	4.4	26.6	5.4	15.0	2.1	4.4	1.8	156.2	733	Upper Saprolite		
RRMDD271	17.0	17.9	0.9	107.9	251.8	28.8	123.1	26.6	5.7	28.8	4.2	25.6	5.1	14.7	1.9	4.2	1.6	162.5	792	Upper Saprolite		
RRMDD271	17.9	18.9	0.9	100.4	231.3	23.9	95.4	19.0	4.0	19.7	2.8	16.8	3.5	9.9	1.3	2.8	1.2	108.4	640	Upper Saprolite		
RRMDD271	18.9	19.8	0.9	94.1	229.6	22.2	86.2	15.6	3.3	16.1	2.2	13.3	2.7	8.0	1.1	2.2	1.0	90.9	588	Upper Saprolite	**15.1**	**671**
RRMDD271	19.8	20.7	0.9	90.2	197.4	21.2	83.9	17.1	3.5	17.8	2.6	15.2	3.2	9.1	1.2	2.5	1.1	110.0	576	Saprock		
RRMDD272	0.0	1.9	1.9	87.5	168.1	16.6	56.7	9.6	1.6	7.2	1.1	7.3	1.4	4.3	0.6	1.1	0.7	44.7	409	Soil		
RRMDD272	1.9	3.1	1.1	106.8	331.5	20.7	71.9	11.9	2.0	8.0	1.3	7.7	1.4	4.2	0.6	1.3	0.7	35.3	605	Hardcap		
RRMDD272	3.1	3.5	0.5	80.2	678.2	14.5	51.4	9.2	1.5	6.8	1.1	5.9	1.1	3.2	0.5	1.1	0.5	28.6	884	Transition		
RRMDD272	3.5	4.5	1.0	41.3	117.1	8.4	32.7	6.0	1.1	6.2	0.9	5.9	1.2	4.0	0.7	0.9	0.8	38.1	265	Mottled		
RRMDD272	4.5	5.5	1.0	86.4	212.0	18.2	68.5	12.5	2.2	11.6	1.8	10.5	2.1	6.7	0.9	1.8	1.0	64.9	501	Mottled		
RRMDD272	5.5	6.3	0.9	161.3	171.6	38.5	145.8	27.4	4.8	22.9	3.3	18.2	3.5	10.2	1.5	3.2	1.4	108.3	722	Clay		
RRMDD272	6.3	7.2	0.9	212.3	205.0	43.0	163.3	30.0	5.2	26.2	3.8	21.7	4.2	12.4	1.7	3.7	1.7	131.4	866	Clay		
RRMDD272	7.2	8.1	0.9	193.5	196.2	38.3	140.6	24.6	4.4	22.5	3.1	17.7	3.6	10.6	1.5	3.1	1.4	109.1	770	Clay		
RRMDD272	8.1	8.9	0.9	149.5	153.4	40.7	151.0	27.7	4.6	19.1	2.5	13.4	2.4	7.0	1.0	2.5	1.0	68.2	644	Clay		
RRMDD272	8.9	9.9	1.0	130.8	170.4	30.7	110.3	19.1	3.3	14.6	2.0	11.2	2.1	6.3	0.9	2.0	0.9	60.3	565	Clay		
RRMDD272	9.9	10.9	1.0	154.2	260.0	37.8	135.3	23.3	4.1	17.8	2.4	13.3	2.5	7.4	1.1	2.4	1.1	72.4	735	Clay		
RRMDD272	10.9	11.8	1.0	138.4	170.4	32.2	114.8	19.5	3.3	14.2	2.0	10.9	2.2	6.4	0.9	2.0	1.0	64.6	583	Clay		
RRMDD272	11.8	12.8	1.0	143.7	312.7	34.9	127.7	22.7	3.9	17.2	2.4	13.4	2.5	7.5	1.1	2.3	1.1	73.7	767	Clay		
RRMDD272	12.8	13.8	1.0	121.4	162.8	28.7	107.1	19.3	3.8	16.5	2.3	13.1	2.4	7.0	1.0	2.3	1.1	68.8	558	Clay		
RRMDD272	13.8	14.9	1.1	136.6	160.5	31.7	118.4	23.5	4.8	21.2	3.3	19.2	3.7	10.0	1.5	3.2	1.4	107.1	646	Upper Saprolite		
RRMDD272	14.9	15.9	1.1	109.8	125.3	26.3	104.0	19.8	4.1	18.4	2.9	16.5	3.3	9.1	1.3	2.8	1.3	98.9	544	Upper Saprolite		
RRMDD272	15.9	17.0	1.1	124.9	133.5	28.7	119.6	23.2	5.0	24.6	3.7	21.8	4.5	12.2	1.8	3.7	1.7	141.6	650	Lower Saprolite	**11.5**	**666**
RRMDD272	17.0	18.0	1.1	106.1	120.6	21.6	89.8	16.3	3.6	17.5	2.6	15.1	3.3	9.0	1.3	2.6	1.3	123.4	534	Saprock		
RRMDD273	0.0	1.0	1.0	101.4	202.0	18.8	64.4	10.2	1.7	7.8	1.3	7.6	1.5	4.7	0.7	1.3	0.7	45.3	470	Soil		
RRMDD273	1.0	2.7	1.7	116.6	632.5	20.0	66.0	10.1	1.6	7.0	1.1	6.5	1.2	3.6	0.6	1.1	0.6	31.6	900	Hardcap		
RRMDD273	2.7	4.3	1.6	178.9	1016.7	30.1	95.1	13.8	2.4	9.5	1.5	8.5	1.5	4.6	0.7	1.5	0.7	40.1	1405	Hardcap		
RRMDD273	4.3	5.0	0.7	41.2	103.3	7.6	26.2	4.3	0.8	3.6	0.6	4.1	0.9	2.8	0.5	0.6	0.6	27.3	224	Mottled		
RRMDD273	5.0	5.7	0.7	72.0	182.7	16.1	57.9	9.9	1.8	7.7	1.2	7.0	1.4	4.0	0.6	1.2	0.7	44.4	409	Mottled		
RRMDD273	5.7	6.1	0.4	105.1	176.3	25.0	90.9	14.6	2.7	11.2	1.7	9.7	1.9	5.6	0.8	1.6	0.8	62.6	510	Clay		
RRMDD273	6.1	7.0	0.9	104.4	130.6	27.3	101.5	16.9	3.1	13.3	1.9	10.7	2.1	5.8	0.8	1.9	0.8	64.5	486	Clay		
RRMDD273	7.0	8.0	0.9	103.8	133.5	26.7	98.4	16.3	3.1	13.1	1.9	10.9	2.2	6.0	0.9	1.9	0.8	67.8	487	Clay		
RRMDD273	8.0	8.9	0.9	95.7	123.6	24.2	89.0	14.5	2.9	11.3	1.6	9.5	1.9	5.2	0.8	1.6	0.7	56.9	439	Clay		
RRMDD273	8.9	9.8	0.9	189.4	318.6	48.0	179.0	30.5	5.8	22.2	3.2	16.9	3.1	8.1	1.1	3.1	1.0	83.7	914	Upper Saprolite		
RRMDD273	9.8	10.8	0.9	137.8	230.7	37.6	137.1	22.3	4.2	15.9	2.3	12.4	2.3	6.1	0.9	2.3	0.8	65.3	678	Upper Saprolite		
RRMDD273	10.8	11.7	0.9	113.8	168.1	28.1	101.9	16.5	3.2	12.7	1.8	10.1	2.0	5.6	0.8	1.8	0.8	60.6	528	Upper Saprolite		
RRMDD273	11.7	12.7	0.9	249.8	301.0	54.8	213.5	35.5	7.1	29.4	4.0	21.0	3.9	9.7	1.4	4.0	1.1	110.1	1046	Upper Saprolite		
RRMDD273	12.7	13.6	0.9	218.1	311.6	50.6	196.5	33.3	6.8	28.7	4.4	26.1	5.2	15.6	2.3	4.3	2.2	176.5	1082	Upper Saprolite		
RRMDD273	13.6	14.6	1.0	124.3	161.1	30.5	115.4	18.8	3.8	15.3	2.2	12.3	2.3	6.3	1.0	2.1	0.9	71.9	568	Lower Saprolite		
RRMDD273	14.6	15.6	1.0	319.0	400.6	72.2	285.8	49.1	10.0	42.0	6.1	33.3	6.5	17.2	2.4	6.1	2.1	234.3	1486	Lower Saprolite	**9.9**	**763**
RRMDD273	15.6	16.5	0.9	126.7	155.8	31.0	119.0	20.6	4.3	17.6	2.5	13.8	2.6	6.8	0.9	2.5	0.8	69.3	574	Saprock		
RRMDD274	0.0	1.9	1.9	115.3	196.8	22.1	77.7	13.0	2.2	9.6	1.5	9.5	1.8	5.2	0.8	1.5	0.8	54.4	512	Soil		
RRMDD274	1.9	3.4	1.5	148.4	479.1	26.3	85.8	12.9	2.0	8.0	1.2	7.2	1.3	3.8	0.6	1.2	0.6	33.8	812	Hardcap		
RRMDD274	3.4	4.4	1.0	75.6	210.2	19.4	73.0	12.6	2.4	9.6	1.5	8.8	1.7	5.0	0.8	1.5	0.8	49.9	473	Clay		
RRMDD274	4.4	5.4	1.0	61.1	84.3	16.4	63.0	10.6	2.0	9.0	1.5	8.7	1.8	5.2	0.8	1.4	0.9	54.2	321	Clay		
RRMDD274	5.4	6.4	1.0	91.1	244.8	25.0	94.6	15.4	2.9	12.8	2.0	11.6	2.4	6.8	1.0	2.0	1.0	74.8	588	Clay		
RRMDD274	6.4	7.2	0.8	249.8	268.2	41.5	147.0	24.0	4.7	18.8	2.8	15.5	3.0	8.1	1.2	2.7	1.2	91.6	880	Clay		

																					>300ppm TREO-Ce_2O_3 Interval	
Hole ID	From m	To m	Int. m	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
RRMDD274	7.2	8.0	0.8	523.1	748.5	186.7	656.7	113.6	21.3	83.7	12.1	64.7	12.1	31.7	4.4	12.0	3.6	405.1	2879	Clay		
RRMDD274	8.0	8.8	0.8	208.2	308.1	52.3	202.4	34.3	6.8	28.6	4.2	24.0	4.9	13.0	1.9	4.2	1.7	149.8	1044	Clay		
RRMDD274	8.8	9.5	0.7	118.5	218.4	29.4	114.9	19.7	3.8	16.7	2.6	15.2	3.2	8.7	1.3	2.5	1.2	99.2	655	Upper Saprolite		
RRMDD274	9.5	10.3	0.7	191.8	261.2	44.2	182.5	35.5	7.7	33.4	5.3	31.9	6.1	16.5	2.4	5.2	2.2	187.9	1014	Lower Saprolite		
RRMDD274	10.3	11.1	0.9	151.3	262.4	53.1	234.4	50.9	11.3	50.3	8.1	48.7	9.6	26.1	3.6	8.0	3.3	292.1	1213	Lower Saprolite		
RRMDD274	11.1	12.0	0.9	140.7	270.6	43.1	183.1	36.8	8.1	37.8	5.9	35.0	7.1	19.8	2.7	5.9	2.4	234.9	1034	Lower Saprolite	**6.6**	**1153**
RRMDD275	0.0	1.9	1.9	98.7	330.3	17.9	58.6	9.3	1.6	7.2	1.1	6.8	1.3	4.2	0.6	1.1	0.6	40.0	579	Soil		
RRMDD275	1.9	3.0	1.1	134.3	735.6	22.3	82.7	11.2	1.9	7.4	1.2	7.3	1.3	3.9	0.6	1.2	0.6	35.3	1047	Hardcap		
RRMDD275	3.0	3.9	0.9	75.9	172.2	17.7	62.9	10.2	1.8	8.1	1.2	7.3	1.5	4.6	0.7	1.2	0.7	49.4	415	Mottled		
RRMDD275	3.9	4.8	0.9	133.1	200.3	35.6	126.0	18.8	3.4	14.5	2.1	11.6	2.3	6.5	0.9	2.1	0.9	77.2	635	Clay		
RRMDD275	4.8	5.7	0.9	170.1	325.6	44.4	154.5	23.7	4.4	16.3	2.3	12.3	2.4	6.3	0.9	2.3	0.9	72.6	839	Clay		
RRMDD275	5.7	6.5	0.8	131.4	269.4	35.8	126.0	19.2	3.4	12.6	1.8	9.7	1.9	5.0	0.7	1.7	0.7	56.8	676	Clay		
RRMDD275	6.5	7.4	0.9	123.7	207.9	34.3	116.6	18.5	3.3	13.0	1.8	9.8	1.9	5.2	0.8	1.8	0.7	56.9	596	Clay		
RRMDD275	7.4	8.1	0.7	107.8	166.3	28.0	97.9	16.4	2.8	11.5	1.6	8.5	1.6	4.6	0.7	1.6	0.6	51.4	501	Clay		
RRMDD275	8.1	8.8	0.7	106.4	211.4	28.4	100.2	16.3	2.8	11.8	1.7	9.2	1.8	5.2	0.8	1.7	0.7	59.4	558	Upper Saprolite		
RRMDD275	8.8	9.5	0.8	134.3	354.9	34.5	119.0	19.7	3.5	14.0	2.0	11.0	2.1	5.9	0.8	2.0	0.8	67.4	772	Upper Saprolite		
RRMDD275	9.5	10.3	0.8	138.4	265.9	37.3	130.6	20.9	3.9	15.8	2.2	12.2	2.3	6.3	0.9	2.2	0.8	71.6	711	Upper Saprolite		
RRMDD275	10.3	11.1	0.8	109.3	221.4	27.9	99.0	17.4	3.3	15.3	2.4	14.5	3.0	8.4	1.2	2.4	1.0	104.4	631	Upper Saprolite		
RRMDD275	11.1	11.9	0.9	123.1	182.1	30.5	111.7	19.6	3.6	15.6	2.3	12.7	2.5	6.7	0.9	2.3	0.9	74.4	589	Lower Saprolite	**8.0**	**655**
RRMDD275	11.9	12.8	0.9	125.5	125.9	33.0	122.5	21.2	4.1	16.9	2.4	12.9	2.4	6.2	0.9	2.4	0.8	65.7	543	Saprock		
RRMDD276	0.0	2.0	2.0	111.9	235.4	21.1	72.3	11.1	1.9	7.3	1.1	6.6	1.2	3.8	0.5	1.1	0.6	35.2	511	Soil		
RRMDD276	2.0	3.7	1.7	108.2	401.8	20.9	73.6	11.0	1.9	7.2	1.1	6.4	1.1	3.4	0.5	1.1	0.5	29.1	668	Hardcap		
RRMDD276	3.7	5.6	1.9	69.0	704.0	13.5	45.0	7.0	1.2	5.0	0.9	5.1	0.9	2.7	0.5	0.8	0.5	23.4	879	Hardcap		
RRMDD276	5.6	6.4	0.9	60.5	659.4	13.0	44.9	7.8	1.4	6.8	1.2	6.6	1.4	4.1	0.6	1.2	0.6	43.6	853	Mottled		
RRMDD276	6.4	7.3	0.9	93.8	373.6	20.1	70.7	11.9	2.2	10.2	1.6	8.9	1.9	5.2	0.8	1.6	0.7	61.5	665	Mottled		
RRMDD276	7.3	8.2	0.9	117.9	140.6	25.5	89.5	14.8	2.8	12.6	1.8	10.2	2.1	5.9	0.8	1.8	0.8	68.8	496	Clay		
RRMDD276	8.2	8.8	0.7	165.4	157.0	38.0	133.6	22.3	4.2	18.2	2.6	14.3	2.8	7.4	1.0	2.6	0.9	91.1	661	Clay		
RRMDD276	8.8	9.5	0.7	144.8	272.9	33.0	116.5	19.2	3.7	15.8	2.2	12.0	2.4	6.4	0.9	2.2	0.9	77.1	710	Clay		
RRMDD276	9.5	10.7	1.2	179.4	357.2	37.9	131.8	21.5	4.1	17.3	2.4	13.3	2.6	6.9	0.9	2.4	0.8	81.3	860	Upper Saprolite		
RRMDD276	10.7	11.2	0.5	130.2	486.1	26.6	90.9	15.0	2.7	12.0	1.7	9.2	1.8	4.9	0.7	1.7	0.6	55.6	840	Upper Saprolite		
RRMDD276	11.2	11.9	0.7	133.1	206.1	28.4	101.0	16.4	3.1	14.0	1.9	11.1	2.2	6.0	0.9	1.9	0.8	72.4	599	Upper Saprolite		
RRMDD276	11.9	12.6	0.7	141.3	417.0	32.1	113.3	18.2	3.3	14.0	2.0	10.9	2.2	5.9	0.8	1.9	0.7	66.7	830	Upper Saprolite		
RRMDD276	12.6	13.3	0.7	158.3	271.7	35.0	121.3	19.6	3.7	15.5	2.2	11.9	2.4	6.6	0.9	2.2	0.8	74.9	727	Upper Saprolite		
RRMDD276	13.3	14.2	0.8	161.8	272.9	37.7	132.4	21.7	4.2	17.3	2.4	13.7	2.6	7.1	1.0	2.4	0.9	82.4	760	Lower Saprolite		
RRMDD276	14.2	15.0	0.8	150.1	202.0	34.5	121.3	20.2	3.9	15.9	2.3	12.7	2.4	6.5	0.9	2.3	0.8	74.0	650	Lower Saprolite	**7.7**	**715**
RRMDD277	0.0	1.6	1.6	125.5	251.8	24.8	87.1	14.4	2.5	10.9	1.7	10.4	2.0	6.0	0.9	1.6	0.9	62.4	603	Soil		
RRMDD277	1.6	3.1	1.5	148.9	808.2	26.8	90.2	13.2	2.3	9.1	1.5	8.3	1.5	4.3	0.7	1.5	0.7	40.6	1158	Hardcap		
RRMDD277	3.1	4.0	0.9	168.3	274.1	36.4	128.9	22.0	4.1	18.4	2.6	14.7	3.0	8.1	1.2	2.6	1.1	91.6	777	Mottled		
RRMDD277	4.0	4.9	0.9	127.2	214.9	32.5	120.7	20.5	3.8	18.0	2.6	15.4	3.2	8.8	1.3	2.6	1.3	103.1	676	Mottled		
RRMDD277	4.9	5.7	0.9	290.9	479.1	95.4	345.3	58.3	10.1	40.9	5.5	28.9	5.2	13.4	1.9	5.5	1.6	149.8	1532	Clay		
RRMDD277	5.7	6.6	0.9	219.9	349.0	71.3	255.4	42.2	7.4	28.9	4.0	21.1	3.9	10.2	1.5	4.0	1.2	108.7	1129	Clay		
RRMDD277	6.6	7.5	0.9	218.7	324.5	66.0	246.1	42.4	7.4	31.5	4.4	23.6	4.4	11.7	1.7	4.4	1.4	140.3	1129	Clay		
RRMDD277	7.5	8.5	1.0	200.5	320.9	58.5	214.0	35.9	6.3	27.1	3.8	20.4	3.8	10.5	1.5	3.8	1.3	118.4	1027	Clay		
RRMDD277	8.5	9.3	0.8	117.9	179.8	29.6	106.3	17.2	3.2	14.4	2.0	11.6	2.3	6.5	0.9	2.0	0.9	75.8	570	Clay		
RRMDD277	9.3	10.1	0.8	701.3	1037.8	228.8	901.6	152.5	28.7	131.4	18.3	100.1	19.9	53.5	7.5	18.2	6.4	684.5	4090	Clay		
RRMDD277	10.1	10.9	0.8	373.0	550.5	108.3	418.7	73.9	14.2	67.9	9.6	55.8	11.7	33.4	4.7	9.6	4.3	448.3	2184	Clay		
RRMDD277	10.9	11.7	0.8	267.4	391.2	75.6	293.9	51.5	9.8	45.3	6.4	35.0	7.0	18.9	2.6	6.3	2.3	245.7	1459	Clay		

																					>300ppm TREO-Ce_2O_3 Interval	
Hole ID	From m	To m	Int. m	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
RRMDD277	11.7	12.7	1.0	163.0	250.7	43.5	166.2	29.1	5.6	26.3	3.7	21.0	4.2	11.2	1.6	3.7	1.4	141.0	872	Upper Saprolite		
RRMDD277	12.7	13.6	0.9	150.1	194.4	33.8	138.8	25.0	4.9	23.5	3.6	20.4	4.2	12.0	1.6	3.6	1.4	142.2	760	Lower Saprolite		
RRMDD277	13.6	14.4	0.9	166.0	192.1	37.2	158.0	33.6	7.2	36.4	6.1	37.5	7.8	22.9	3.0	6.0	2.8	243.2	960	Lower Saprolite		
RRMDD277	14.4	15.3	0.9	157.2	207.3	35.9	149.9	31.1	6.7	34.0	5.5	34.4	7.2	21.3	2.8	5.4	2.5	224.1	925	Lower Saprolite	**12.2**	**1266**
RRMDD278	0.0	1.9	1.9	152.5	265.9	28.0	88.8	12.5	2.2	8.2	1.2	6.5	1.2	3.4	0.5	1.1	0.5	33.7	606	Soil		
RRMDD278	1.9	3.4	1.5	61.0	487.3	11.6	38.8	6.6	1.1	4.4	0.8	4.6	0.8	2.4	0.4	0.8	0.4	22.1	643	Hardcap		
RRMDD278	3.4	4.4	1.0	55.0	108.6	12.3	47.1	8.4	1.6	7.1	1.2	7.2	1.5	4.6	0.7	1.1	0.7	45.2	302	Mottled		
RRMDD278	4.4	5.4	1.0	77.1	128.3	16.7	64.5	11.3	2.1	9.0	1.4	8.5	1.7	5.4	0.7	1.4	0.7	55.2	384	Mottled		
RRMDD278	5.4	6.1	0.6	154.8	358.4	32.3	123.6	21.3	3.9	17.5	2.7	15.5	3.1	8.8	1.2	2.6	1.0	99.1	846	Clay		
RRMDD278	6.1	6.7	0.6	188.8	521.2	40.6	154.0	26.8	4.9	20.6	3.1	16.9	3.4	9.5	1.3	3.1	1.1	104.8	1100	Clay		
RRMDD278	6.7	7.6	0.9	218.1	254.2	48.5	182.5	31.2	5.7	23.3	3.4	19.0	3.7	10.1	1.3	3.4	1.1	114.4	920	Upper Saprolite		
RRMDD278	7.6	8.5	0.9	381.2	313.9	81.8	321.9	54.3	10.2	46.8	6.4	35.1	7.1	19.9	2.4	6.4	1.9	313.7	1603	Upper Saprolite		
RRMDD278	8.5	9.4	0.9	326.0	361.9	82.0	316.1	57.3	10.9	43.9	6.4	35.2	6.6	18.1	2.3	6.4	1.9	205.1	1480	Upper Saprolite		
RRMDD278	9.4	10.3	0.8	394.1	412.3	90.2	366.2	68.4	13.9	64.8	9.3	55.0	11.1	30.9	3.9	9.3	3.2	402.6	1935	Lower Saprolite		
RRMDD278	10.3	10.5	0.3	219.9	320.9	52.3	210.5	43.3	9.1	39.0	6.4	39.0	7.5	22.2	2.9	6.4	2.9	196.2	1179	Saprock	**5.1**	**1334**
RRMDD279	0.0	1.6	1.6	70.1	146.4	13.2	44.6	7.4	1.3	5.9	1.0	5.9	1.2	3.6	0.6	1.0	0.6	36.4	339	Soil		
RRMDD279	1.6	3.0	1.5	59.8	504.8	11.1	36.7	6.7	1.1	4.9	0.9	5.4	1.0	3.0	0.5	0.9	0.5	26.4	664	Hardcap		
RRMDD279	3.0	4.5	1.5	179.4	781.3	26.2	78.1	11.4	1.9	8.0	1.3	7.7	1.4	4.2	0.7	1.3	0.7	34.8	1138	Hardcap		
RRMDD279	4.5	5.5	1.0	88.0	236.6	16.6	57.6	9.4	1.7	7.4	1.2	6.8	1.4	4.4	0.6	1.2	0.6	44.7	478	Clay		
RRMDD279	5.5	6.4	1.0	491.4	487.3	72.4	222.2	30.5	5.1	17.9	2.3	11.4	1.9	5.2	0.7	2.3	0.6	50.5	1402	Clay		
RRMDD279	6.4	7.4	0.9	65.2	140.0	11.9	40.6	6.1	1.1	4.3	0.7	3.8	0.8	2.4	0.4	0.7	0.4	22.2	300	Clay		
RRMDD279	7.4	8.3	1.0	173.0	281.1	32.2	113.4	17.9	3.2	12.1	1.7	9.5	1.8	5.2	0.7	1.7	0.6	55.5	710	Clay		
RRMDD279	8.3	9.2	0.9	103.1	172.8	23.6	89.3	15.4	3.0	12.7	1.9	11.5	2.4	7.0	0.9	1.9	0.8	82.4	529	Upper Saprolite		
RRMDD279	9.2	10.1	0.9	116.2	187.4	27.5	104.2	17.9	3.2	12.0	1.6	8.6	1.6	4.4	0.6	1.6	0.5	49.0	536	Upper Saprolite		
RRMDD279	10.1	11.0	0.9	235.7	319.8	46.2	169.7	29.0	5.5	20.7	2.8	14.3	2.5	6.9	0.8	2.8	0.7	73.8	931	Upper Saprolite	**5.6**	**737**
RRMDD279	11.0	11.8	0.8	99.9	162.2	20.0	74.5	12.4	2.3	9.5	1.4	7.5	1.5	4.2	0.6	1.4	0.5	46.9	445	Upper Saprolite		
RRMDD279	11.8	12.6	0.8	65.1	102.1	15.9	61.8	10.7	2.1	8.4	1.2	6.8	1.4	3.9	0.5	1.2	0.5	42.5	324	Upper Saprolite		
RRMDD279	12.6	13.5	0.8	78.0	127.1	19.6	76.7	13.5	2.7	10.9	1.7	9.2	1.8	5.2	0.7	1.6	0.6	58.5	408	Upper Saprolite		
RRMDD279	13.5	14.2	0.7	100.7	209.7	26.9	105.9	19.1	3.6	14.8	2.0	10.9	2.0	5.5	0.7	2.0	0.6	60.8	565	Upper Saprolite		
RRMDD279	14.2	14.9	0.7	107.4	233.1	28.7	113.0	21.2	4.1	16.0	2.3	12.1	2.2	6.2	0.8	2.3	0.6	66.8	617	Upper Saprolite		
RRMDD279	14.9	15.6	0.7	105.7	231.3	26.4	104.7	19.1	3.6	14.8	2.1	11.1	2.0	5.3	0.7	2.1	0.6	58.4	588	Upper Saprolite	**2.2**	**590**
RRMDD279	15.6	16.3	0.7	83.2	175.1	20.9	84.2	15.7	3.0	12.1	1.7	9.4	1.8	5.0	0.7	1.7	0.6	52.6	468	Upper Saprolite		
RRMDD279	16.3	17.0	0.7	73.1	128.8	18.8	75.5	14.4	2.9	12.0	1.7	9.5	1.9	5.2	0.7	1.7	0.6	55.0	402	Upper Saprolite		
RRMDD279	17.0	17.7	0.7	68.8	115.5	17.3	69.6	13.7	2.8	12.2	1.8	10.9	2.1	6.2	0.8	1.8	0.7	66.8	391	Upper Saprolite		
RRMDD279	17.7	18.5	0.8	87.1	201.5	20.6	80.7	15.9	3.0	12.6	1.9	11.2	2.1	6.1	0.8	1.8	0.7	64.0	510	Lower Saprolite	**0.8**	**510**

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

Diamond Drill Core Samples

- 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 all holes were surveyed using a relational DGPS system. The general accuracy for x,y and z is $\pm$ 0.2m. 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.* • *Whether sample compositing has been applied.*	Drilling relating to this report was conducted on a nominal 200m x 200m grid spacing. 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	• *Whether the orientation of sampling achieves unbiased sampling of possible structures and the extent to which this is known, considering the deposit type.*	The Makuutu mineralisation is interpreted to be in a flat lying weathered profile including cover soil, lateritic caprock, clays transitioning to saprolite and saprock.

Criteria	JORC Code explanation	Commentary
geological structure	• *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.*	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 interests, historical sites, wilderness or national park and environmental settings.* • *The security of the tenure held at the time of reporting along with any known impediments to obtaining a licence to operate in the area.*	The Makuutu Project is located in the Republic of Uganda. The mineral tenements comprise two (1) granted Retention Licences (RL1693 and RL00007), three (3) Exploration Licences (EL1766, EL00147 and EL00148). 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 51% 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;

Criteria	JORC Code explanation	Commentary
		<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.
Exploration done by other parties	• *Acknowledgment and appraisal of exploration by other parties.*	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. 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

Criteria	JORC Code explanation	Commentary
		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* ○ *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*	The material information for drill holes relating to this announcement are contained in Table 3.

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	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.
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*	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

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	characteristics; potential deleterious or contaminating substances.	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.