25 November 2021

MAKUUTU PHASE 4 DRILLING TRANCHE 2 ASSAY RESULTS

- **Second Tranche of Phase 4 drilling results (60 holes) received, aimed at increasing grade estimation confidence from Inferred to Indicated resource classification**
- **All 60 holes have intersected rare earth element (REE) mineralised clay above MRE cut-off grade, including the following thick high-grade intervals:**
  - **RRMDD386 15.0 metres at 1,156 ppm TREO from 2.1 metres**
  - **RRMDD373 21.0 metres at 1,040 ppm TREO from 3.7 metres**
  - **RRMDD381 17.2 metres at 1,021 ppm TREO from 4.3 metres**
  - **RRMDD340 13.9 metres at 1,043 ppm TREO from 2.8 metres**
  - **RRMDD360 12.3 metres at 1,054 ppm TREO from 7.3 metres**
- **Several high-grade REE bearing clays were reported, outside the current resource area, within the Makuutu Central Eastern Zone (CEZ) Exploration Target**
- **A further three (3) Tranches of samples currently at the Perth laboratory with the final tranche in transit from Uganda to Perth**

Ionic Rare Earths Limited ("IonicRE" or "the Company") (ASX: IXR) is pleased to announce the receipt of assays for Tranche 2 of the 8,220 metre Phase 4 drill program completed in October at the Makuutu Rare Earths Project ("Makuutu" or "the Project") in Uganda.

Makuutu is defining itself as a large scale, ionic adsorption clay (IAC) hosted rare earth element (REE) project, with extension potential identified east and to the northwest. The Project is well supported by existing infrastructure and is one of less than a handful of confirmed IAC deposits identified globally.

Drill assay results have been received for the Tranche 2 submission consisting of 60 drill holes, including RRMDD326 and RRMDD331 to 389. All holes were drilled to infill the current Makuutu Central Zone East Mineral Resource Estimate (MRE) area on a 200-metre spacing, aimed at

increasing grade estimation confidence from Inferred to Indicated resource classification. Additionally, a number of holes were included to assist in converting the Makuutu Central Eastern Zone (CEZ) Exploration Target to a classified resource. Furthermore, new holes have been added around the perimeter of the previously announced MRE (ASX: 3 March 2021) which has the potential for a minor increase in the total size of the resource across this area.

Sample backlogs remain significant at the assay laboratory, with a further three sample tranches currently at the Perth laboratory, and a final (sixth) tranche currently in transit to Australia.

All 60 holes reported in this announcement have delivered clay and saprolite mineralisation intersections above the cut-off grade of 200 ppm Total Rare Earth Oxide less CeO_2 (TREO-CeO_2), consistent with the initial drilling phases (2019 and H1 2020) and the current MRE.

Notable thick, high-grade and near surface intervals reported from the tranche two assay results include:

- RRMDD373 21.0 metres at 1,040 ppm TREO from 3.7 metres
- RRMDD381 17.2 metres at 1,021 ppm TREO from 4.3 metres
- RRMDD340 13.9 metres at 1,043 ppm TREO from 2.8 metres
- RRMDD363 16.4 metres at 960 ppm TREO from 3.3 metres
- RRMDD360 12.3 metres at 1,054 ppm TREO from 7.3 metres
- RRMDD335 10.3 metres at 1,078 ppm TREO from 2.3 metres
- RRMDD386 15.0 metres at 1,156 ppm TREO from 2.1 metres
- RRMDD385 25.3 metres at 815 ppm TREO from 4.6 metres
- RRMDD362 24.0 metres at 779 ppm TREO from 2.4 metres

Ionic Rare Earths Managing Director Mr. Tim Harrison commented:

"The primary objective of the Phase 4 infill drill program was to increase the confidence on the MRE at Makuutu to support a longer life mine plan for the Feasibility Study. Pleasingly, the higher grades and thickness we have observed in the infill drilling, and also in the areas that sit outside the current MRE, infer that we will also see a potential increase in the total quantum of resource at Makuutu."

"The thicknesses of the clay zones under shallow cover further differentiates Makuutu as a truly unique asset – a proven ionic adsorption clay of scale rapidly advancing towards development."

"We await the remaining assays, however due to the delays we are experiencing, it will likely be the second quarter of 2022 before an updated Mineral Resource Estimate is released. . The Company is exploring options to expedite the receipt of the remaining tranche of assays into Australia and the results from remaining assays."

"The scale of resource potential emerging at Makuutu further validates the Company's plans to examine a greater role in the rare earth supply chain for the future, underpinned by a long-life potential supply of critical and heavy rare earths at Makuutu."

Ionic Rare Earths Limited, Level 1, 34 Colin Street, West Perth WA 6005 Australia T+61 8 9481 2555 F+61 8 9485 1290

Drilling Results

The second tranche of assays have been received from the Makuutu Phase 4 drill program. The aim of the program is to increase MRE confidence in the Central Zone plus areas F, G, H and I as illustrated in Figure 1. In addition, exploration targets C, E and the area between the Central Zone and Central Zone East have been infill drilled to support resource estimation of these zones.

Figure 1 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;
2) completed Phase 4 drill holes with assay results pending shown as blue points;
3) all previously reported holes, which are shown in grey.

The drill results reported in Tranche 2 consist of sixty (60) infill drill holes from within the current MRE area Central Zone Inferred Resource, and to the east of the current MRE Central Zone. The infill holes increase the drill density to a 200-metre grid designed to provide sufficient data to increase resource confidence to Indicated status under JORC guidelines.

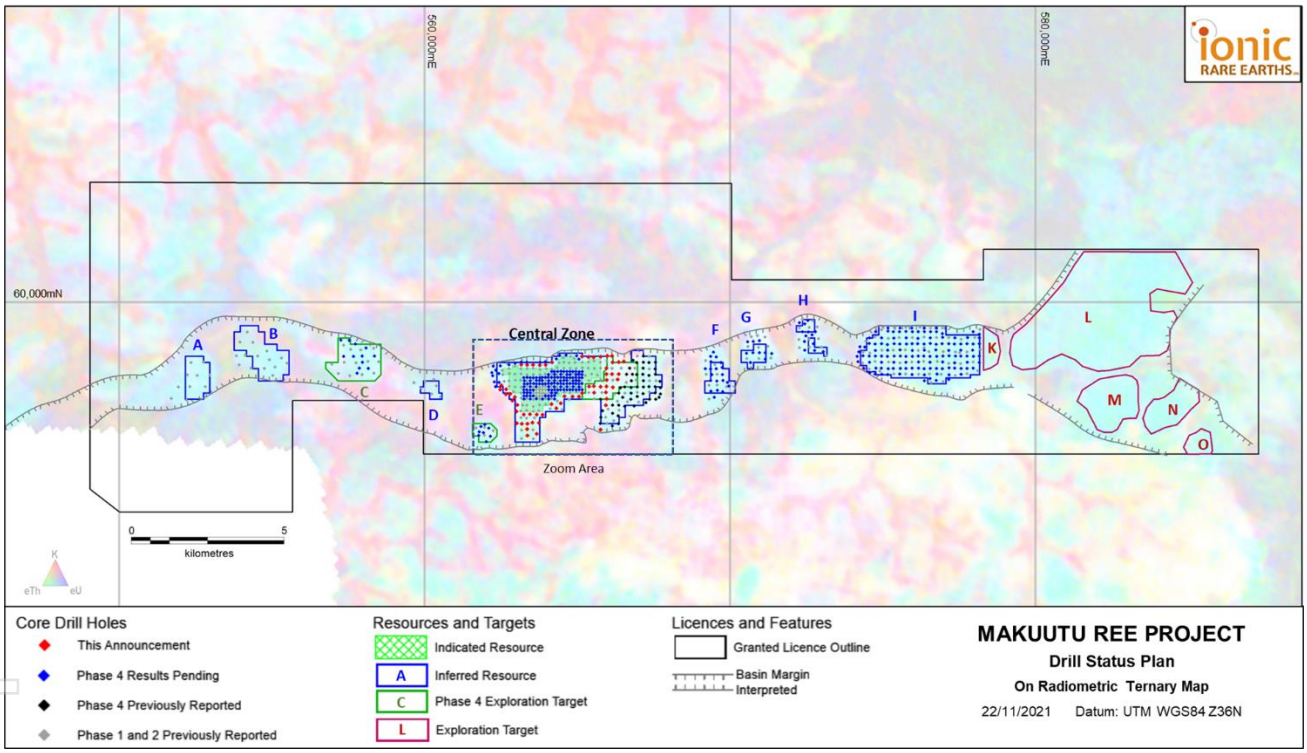

Figure 1: Phase 4 Drill Program status plan showing completed and planned drill holes covering the Makuutu Rare Earths Project with the MRE and target areas.

Figure 2 shows the locations of the results reported in this announcement within the zoom area of Figure 1. The hole location points are shown as the TREO intercept grade above the MRE cutoff of 200ppm TREO-CeO_2.

The infill drill program results received to date have provided clay and saprolite mineralisation intersections consistent with the initial drilling phases (2019 and H1 2020) on which the current MRE was based.

The intersections above the MRE cut-off grade of 200 ppm TREO-CeO_2, from the 60 Tranche 2 drill holes are listed in Table 1 which includes results displayed as Total Rare Earth Oxides (TREO), Total Rare Earth Oxide less CeO_2 (TREO-CeO_2), Heavy Rare Earth Oxides (HREO) and Critical Rare Earth Oxides (CREO) grade. Hole locations are shown in Figure 2.

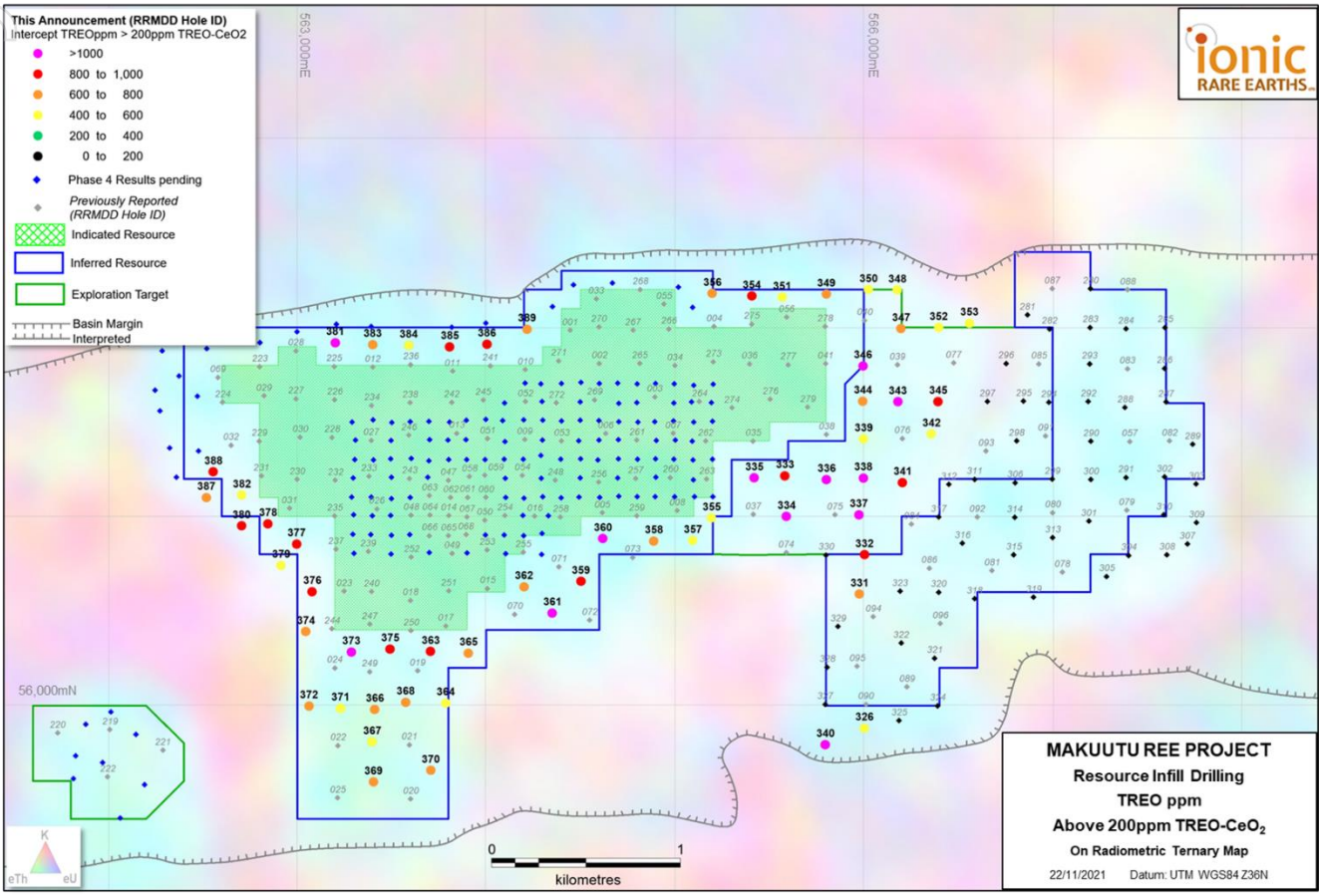

Figure 2: Makuutu Central Zone drill plan with Tranche 2 infill drill holes showing hole locations by drill intercept TREO grade and RRMDD drill hole ID

Drilling Program Update

The Phase 4 drill program totaled 8,220 metres of drilling with the objective of increasing the resource confidence to JORC Indicated status over most of the current resource. The drill program was the largest undertaken on the Project to date and will be followed by a MRE update currently anticipated to be undertaken in early 2022.

In addition to the assay samples, several tonnes of metallurgical samples, consisting of individual drill core intervals, are also being delivered from the program to specialised testing laboratories in Australia. Testing of existing and current samples is ongoing.

Table 1: Infill Drilling Results above MRE cut-off grade of 300ppm TREO-CeO_2

Drill Hole ID	Depth From (metres)	Length (metres)	TREO (ppm)	TREO-CeO_2 (ppm)	HREO (ppm)	CREO (ppm)
RRMDD326	1.9	17.5	578	385	124	183
RRMDD331	3.1	12.5	733	413	124	190
RRMDD332	2.5	2.4	824	611	213	298

Ionic Rare Earths Limited, Level 1, 34 Colin Street, West Perth WA 6005 Australia T+61 8 9481 2555 F+61 8 9485 1290

Drill Hole ID	Depth From (metres)	Length (metres)	TREO	Drill Hole ID	Depth From (metres)	Length (metres)
RRMDD333	2.1	9.8	924	637	267	338
RRMDD334	2.9	3.9	1379	933	284	443
RRMDD335	2.3	10.3	1078	793	263	371
RRMDD336	3.4	3.5	1045	580	180	274
RRMDD337	4.8	8.6	1062	729	247	346
RRMDD338	4.0	5.6	1004	781	242	361
RRMDD339	2.8	20.0	564	339	118	165
RRMDD340	3.5	3.2	611	220	99	114
RRMDD340	9.5	13.9	1043	872	609	586
RRMDD341	3.3	6.1	856	592	206	287
RRMDD342	2.0	4.8	450	272	92	131
RRMDD343	3.9	6.0	1088	802	266	388
RRMDD344	3.7	8.7	721	466	166	229
RRMDD345	3.3	5.1	914	664	211	311
RRMDD346	2.1	9.3	1029	731	239	378
RRMDD347	2.7	17.6	727	500	177	243
RRMDD348	3.2	15.2	548	355	120	172
RRMDD349	1.2	14.2	712	329	100	153
RRMDD350	4.2	8.9	524	357	119	176
RRMDD351	4.1	14.2	592	378	137	189
RRMDD352	1.8	3.9	566	324	107	150
RRMDD353	1.8	1.1	490	291	105	142
RRMDD354	3.6	4.7	896	678	207	323
RRMDD354	13.9	5.3	526	291	102	143
RRMDD355	2.9	8.9	538	330	124	164
RRMDD356	3.3	3.1	732	490	162	233
RRMDD357	3.4	5.5	527	351	108	161
RRMDD358	3.1	14.6	683	465	160	216
RRMDD359	3.9	11.9	804	544	172	257
RRMDD360	7.3	12.3	1054	734	231	350
RRMDD361	2.4	5.6	1459	1082	377	535
RRMDD362	2.4	24.0	779	521	171	248
RRMDD363	3.3	16.4	960	640	190	288
RRMDD364	1.9	10.1	561	390	149	197
RRMDD365	2.5	11.3	619	382	125	179
RRMDD366	5.5	12.0	629	493	156	226
RRMDD367	4.6	11.9	393	262	90	122
RRMDD367	20.4	2.6	507	316	122	158
RRMDD368	5.7	16.0	626	483	179	241
RRMDD369	4.6	18.7	737	538	210	271
RRMDD370	5.3	7.9	633	398	156	206
RRMDD371	11.3	8.2	535	351	104	158
RRMDD372	3.3	20.9	617	417	130	190
RRMDD373	3.7	21.0	1040	738	270	363
RRMDD374	2.3	10.6	603	396	127	186
RRMDD375	5.2	7.2	894	611	187	285
RRMDD376	4.3	14.4	824	574	181	270
RRMDD377	1.6	6.8	985	682	232	329
RRMDD378	2.2	7.8	885	625	216	300
RRMDD379	6.3	7.9	408	246	93	122
RRMDD380	5.2	3.2	835	558	208	276
RRMDD381	4.3	17.2	1021	759	434	472
RRMDD382	4.6	17.0	504	340	111	159
RRMDD383	4.9	18.8	723	534	321	328
RRMDD384	22.0	1.0	328	221	82	111
RRMDD384	3.1	1.0	451	247	81	107
RRMDD385	4.6	25.3	815	543	239	291
RRMDD386	4.3	15.0	888	498	148	230
RRMDD387	3.6	11.1	674	455	141	212
RRMDD388	3.9	11.8	835	497	171	240
RRMDD389	8.3	12.9	772	443	141	210

Note: Rounding may create arithmetic differences

TREO, HREO and CREO definitions provided within JORC Table 1.

Table 2: Makuutu Rare Earths Project core hole details this Announcement (Datum UTM WGS84 Zone 36N)

Drill Hole ID	UTM East (m.)	UTM North (m.)	Elevation (m.a.s.l.)	Drill Type	Hole Length EOH (m.)	Azimuth	Inclination
RRMDD326	566005	55881	1145	DD HQ3	19.40	0	-90
RRMDD331	565979	56590	1131	DD HQ3	16.90	0	-90
RRMDD332	566005	56798	1122	DD HQ3	4.90	0	-90
RRMDD333	565584	57216	1141	DD HQ3	11.40	0	-90
RRMDD334	565592	57000	1131	DD HQ3	9.40	0	-90
RRMDD335	565422	57204	1144	DD HQ3	13.90	0	-90
RRMDD336	565804	57196	1135	DD HQ3	7.90	0	-90
RRMDD337	565976	57009	1123	DD HQ3	13.40	0	-90
RRMDD338	565999	57204	1130	DD HQ3	10.90	0	-90
RRMDD339	566001	57411	1135	DD HQ3	24.60	0	-90
RRMDD340	565798	55794	1147	DD HQ3	25.40	0	-90
RRMDD341	566206	57179	1121	DD HQ3	9.40	0	-90
RRMDD342	566360	57437	1117	DD HQ3	7.90	0	-90
RRMDD343	566182	57607	1129	DD HQ3	11.40	0	-90
RRMDD344	565996	57610	1137	DD HQ3	12.40	0	-90
RRMDD345	566395	57608	1119	DD HQ3	8.40	0	-90
RRMDD346	565997	57797	1139	DD HQ3	12.00	0	-90
RRMDD347	566199	57994	1129	DD HQ3	21.40	0	-90
RRMDD348	566179	58199	1129	DD HQ3	18.40	0	-90
RRMDD349	565803	58176	1144	DD HQ3	15.40	0	-90
RRMDD350	566026	58200	1136	DD HQ3	13.10	0	-90
RRMDD351	565569	58161	1147	DD HQ3	20.40	0	-90
RRMDD352	566398	58000	1118	DD HQ3	5.60	0	-90
RRMDD353	566561	58023	1109	DD HQ3	4.90	0	-90
RRMDD354	565408	58166	1146	DD HQ3	20.40	0	-90
RRMDD355	565195	56993	1138	DD HQ3	11.80	0	-90
RRMDD356	565199	58180	1135	DD HQ3	6.40	0	-90
RRMDD357	565096	56873	1132	DD HQ3	10.90	0	-90
RRMDD358	564890	56871	1138	DD HQ3	20.40	0	-90
RRMDD359	564503	56657	1148	DD HQ3	15.70	0	-90
RRMDD360	564620	56884	1150	DD HQ3	21.20	0	-90
RRMDD361	564352	56490	1149	DD HQ3	8.50	0	-90
RRMDD362	564202	56628	1154	DD HQ3	26.90	0	-90
RRMDD363	563707	56286	1153	DD HQ3	19.70	0	-90
RRMDD364	563787	56013	1145	DD HQ3	25.90	0	-90
RRMDD365	563908	56278	1141	DD HQ3	14.40	0	-90
RRMDD366	563412	55979	1157	DD HQ3	22.40	0	-90
RRMDD367	563398	55808	1159	DD HQ3	23.00	0	-90
RRMDD368	563575	56017	1154	DD HQ3	37.90	0	-90
RRMDD369	563405	55596	1162	DD HQ3	23.30	0	-90
RRMDD370	563709	55658	1152	DD HQ3	20.40	0	-90
RRMDD371	563230	55985	1156	DD HQ3	19.50	0	-90
RRMDD372	563064	55998	1154	DD HQ3	29.40	0	-90
RRMDD373	563288	56283	1156	DD HQ3	24.70	0	-90
RRMDD374	563047	56391	1147	DD HQ3	12.90	0	-90
RRMDD375	563493	56299	1156	DD HQ3	12.40	0	-90
RRMDD376	563081	56603	1145	DD HQ3	19.90	0	-90
RRMDD377	562998	56854	1149	DD HQ3	8.40	0	-90
RRMDD378	562847	56962	1147	DD HQ3	10.80	0	-90
RRMDD379	562916	56741	1141	DD HQ3	17.00	0	-90
RRMDD380	562707	56950	1140	DD HQ3	8.40	0	-90
RRMDD381	563203	57920	1167	DD HQ3	21.40	0	-90
RRMDD382	562708	57113	1147	DD HQ3	23.40	0	-90
RRMDD383	563401	57910	1168	DD HQ3	23.70	0	-90
RRMDD384	563592	57906	1166	DD HQ3	24.50	0	-90
RRMDD385	563808	57898	1159	DD HQ3	32.10	0	-90
RRMDD386	564006	57911	1149	DD HQ3	19.30	0	-90
RRMDD387	562521	57101	1142	DD HQ3	15.90	0	-90
RRMDD388	562557	57237	1147	DD HQ3	18.20	0	-90
RRMDD389	564218	57991	1151	DD HQ3	23.30	0	-90

Authorised for release by the Board.

For enquiries, contact: Tim Harrison
Managing Director
+61 8 9481 2555

Makuutu Mineral Resource Estimate

Table 3: Makuutu Resource above 200ppm TREO-CeO_2 Cut-off Grade

Resource Classification	Tonnes (millions)	TREO (ppm)	TREO-CeO_2 (ppm)	LREO (ppm)	HREO (ppm)	CREO (ppm)	Sc_2O_3 (ppm)
Indicated Resource	66	820	570	590	230	300	30
Inferred Resource	248	610	410	450	160	210	30
Total Resource	**315**	**650**	**440**	**480**	**170**	**230**	**30**

Rounding has been applied to 1Mt and 10ppm which may influence averaging calculation.
All REO are tabulated in MRE announcement dated 3 March 2021 with formulas defining composition of Light Rare Earth Oxides (LREO), Heavy Rare Earth Oxides (HREO), Critical Rare Earth Oxides (CREO) and Total Rare Earth Oxides (TREO).

Table 4: Mineral Resources by Area

Classification	Indicated Resource			Inferred Resource			Total Resource		
Area	Tonnes (millions)	TREO (ppm)	TREO-CeO_2 (ppm)	Tonnes (millions)	TREO (ppm)	TREO-CeO_2 (ppm)	Tonnes (millions)	TREO (ppm)	TREO-CeO_2 (ppm)
Central Zone	66	820	570	51	730	500	118	780	540
A				12	570	390	12	570	390
B				25	410	280	25	410	280
C				-	-	-	-	-	-
D				6	560	400	6	560	400
E				-	-	-	-	-	-
Central Zone East				37	740	520	37	740	520
F				11	570	390	11	570	390
G				6	660	450	6	660	450
H				4	780	560	4	780	560
I				96	550	350	96	550	350
Total Resource	**66**	**820**	**570**	**248**	**610**	**410**	**315**	**650**	**440**

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

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 and is well serviced by existing high quality infrastructure including roads, rail, power infrastructure and cell communications. The installed infrastructure is illustrated in Figure 3.

The Company will move to 60% ownership of Makuutu on the completion of the Feasibility Study and has a pre-emptive right over the remaining 40% stake in the Project.

The deposit stretches 37 km in length and has demonstrated potential for a long life, low-cost capital 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 9 m average thickness clay and saprolite zone which results in low-cost bulk mining methods with low strip ratio. A maximum thickness of 19.5 m has been identified at Makuutu. Processing is via simple acidified salt desorption heap leaching, breaking the chemical ionic bond which washes the rare earths (in a chemical form) from the ore into a pregnant leach solution ("PLS"). The PLS is concentrated up using membrane technology, from which the rare earths are precipitated as a mixed rare earth carbonate product; a 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 27 years. The Project is also prospective for a low-cost Scandium co-product.

Figure 3: Makuutu Rare Earths Project Location with major existing infrastructure.

Existing Infrastructure

One of the Makuutu Rare Earths Project's competitive advantages is its proximity to existing infrastructure. The Makuutu site is approximately 10km from Highway 109 which is a sealed bitumen road connecting to Kampala, to Kenya and on to the Port of Mombasa. All weather access roads connecting the site to the adjacent sealed bitumen highway are already existing. A rail line lies within 10 kilometres north of the Makuutu site near the town of Iganga. There are four hydroelectric power plants located within 65 km of the project area, with total installed generating capacity of approximately 810 MW, providing an abundant supply of cheap power to the Project.

Water will be sourced at the project by harvesting water from the Makuutu site, given the Project location in a positive rainfall environment, and a net positive process water balance will require

membrane processes to be used to process site discharge water for reagent recovery. Excess water management will be a key focus of the Project the ensure environmental standards are met and reagent consumption is minimised.

A workforce of semi-skilled and artisanal workers is available in nearby towns and population centres. The closest major population centre is Iganga, which has a population of 50,000. The town of Mayuge is approximately 10 km from the Project site and the intent is to source local operations staff from the immediate districts and train staff accordingly. The operation is to be staffed by a residential workforce. No fly in – fly out is envisaged, and the number of expatriate staff is intended to be low, and to be phased out over time. Industrial facilities are available in the city of Jinja, approximately 40 km from the Project area. Additional industrial facilities are available on the outskirts of Kampala.

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 3 March 2021 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.

The information in this report that relates to Scoping Study results and production targets was first released to the ASX on 29 April 2021 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.

Appendix 1: **Diamond Core Drilling Analytical Results RRMDD326 and RRMDD331 to RRMDD389 Including Highlighted Intersections >200 ppm TREO-CeO_2 (Note: Rounding will cause minor value differences)**

																					>200ppm TREO-CeO_2 Interval	
Hole ID	From m	To m	Int. m	La_2O_3 ppm	CeO_2 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
RRMDD326	0.00	1.42	1.42	77.3	896.7	15.2	53.2	9.5	1.6	7.8	1.4	7.8	1.5	4.6	0.7	5.1	0.8	40.4	1124	Hardcap		
RRMDD326	1.42	1.90	0.48	140.1	2665.6	25.1	82.7	14.4	2.2	10.3	2.0	10.1	1.9	5.5	0.9	6.2	0.9	47.5	3015	Hardcap		
RRMDD326	1.90	2.80	0.90	116.8	216.8	20.2	69.3	11.0	1.8	9.1	1.4	8.7	1.6	4.9	0.8	5.4	0.8	52.2	521	Mottled		
RRMDD326	2.80	3.70	0.90	105.8	135.7	21.0	67.4	11.7	1.9	9.6	1.4	9.3	1.8	5.9	0.9	6.0	0.9	58.3	438	Mottled		
RRMDD326	3.70	4.63	0.93	112.8	146.2	19.2	60.0	10.5	1.8	7.9	1.3	7.6	1.5	5.3	0.8	5.2	0.7	49.0	430	Mottled		
RRMDD326	4.63	5.53	0.90	67.7	157.2	14.2	45.8	8.1	1.3	6.8	1.0	6.3	1.3	4.1	0.6	4.2	0.6	39.1	358	Mottled		
RRMDD326	5.53	6.43	0.90	74.0	116.9	15.6	50.2	8.2	1.4	6.2	0.9	5.9	1.1	3.8	0.5	3.8	0.6	35.3	325	Clay		
RRMDD326	6.43	7.33	0.90	126.7	199.6	28.0	90.2	14.8	2.0	8.9	1.4	7.9	1.6	5.2	0.8	5.0	0.7	51.7	544	Clay		
RRMDD326	7.33	8.40	1.07	138.4	191.0	33.7	112.2	18.0	2.5	10.7	1.5	9.0	1.8	5.5	0.8	5.0	0.7	59.1	590	Clay		
RRMDD326	8.40	9.36	0.96	119.6	202.7	31.9	103.9	17.0	2.9	12.2	1.7	9.6	1.8	5.4	0.7	4.7	0.7	58.2	573	Clay		
RRMDD326	9.36	10.32	0.96	178.3	251.8	48.8	170.3	25.5	4.0	16.8	2.3	13.0	2.5	7.1	0.9	5.8	0.9	78.2	806	Clay		
RRMDD326	10.32	11.28	0.96	141.9	191.6	37.0	128.3	19.2	3.3	13.3	1.9	10.1	2.0	5.7	0.8	4.8	0.7	62.0	623	Clay		
RRMDD326	11.28	12.24	0.96	146.6	224.2	39.5	136.5	20.4	3.1	12.2	1.6	8.5	1.4	4.2	0.6	3.5	0.5	42.8	646	Upper Saprolite		
RRMDD326	12.24	13.20	0.96	91.6	181.8	23.7	82.2	12.0	2.0	8.5	1.1	6.5	1.3	3.7	0.5	3.3	0.5	40.9	460	Upper Saprolite		
RRMDD326	13.20	14.16	0.96	141.3	299.7	42.2	157.5	27.4	4.6	18.6	2.6	13.4	2.2	5.9	0.8	4.7	0.7	55.7	777	Upper Saprolite		
RRMDD326	14.16	15.10	0.94	101.3	126.5	25.5	94.9	16.3	2.8	11.8	1.7	9.3	1.6	4.2	0.6	3.7	0.5	41.1	442	Upper Saprolite		
RRMDD326	15.10	15.86	0.76	296.7	271.5	49.7	189.0	35.8	6.9	34.5	5.3	28.0	4.9	12.0	1.5	9.3	1.2	123.8	1070	Upper Saprolite		
RRMDD326	15.86	16.62	0.76	191.8	261.6	44.3	172.6	30.1	5.2	25.7	3.8	21.2	4.0	10.9	1.4	8.5	1.2	113.1	895	Upper Saprolite		
RRMDD326	16.62	17.40	0.78	160.7	215.6	36.1	147.5	25.9	4.8	26.5	3.9	22.1	4.6	12.9	1.6	9.8	1.4	159.4	833	Upper Saprolite		
RRMDD326	17.40	18.40	1.00	79.4	169.5	18.7	71.2	13.5	2.4	11.0	1.7	9.7	2.0	6.1	0.8	4.9	0.7	70.6	462	Lower Saprolite		
RRMDD326	18.40	19.40	1.00	67.2	137.0	15.6	58.3	10.9	2.1	9.3	1.4	8.0	1.6	4.4	0.6	3.6	0.5	47.2	368	Lower Saprolite	18	578
RRMDD331	0.00	1.11	1.11	63.3	551.6	13.2	47.0	8.5	1.4	6.9	1.2	6.8	1.3	4.1	0.7	4.7	0.7	38.5	750	Hardcap		
RRMDD331	1.11	2.21	1.10	56.3	977.8	11.9	41.8	7.5	1.3	5.6	1.1	6.1	1.1	3.6	0.6	4.0	0.6	32.3	1152	Hardcap		
RRMDD331	2.21	3.12	0.91	91.2	829.2	19.1	63.3	10.7	1.8	8.3	1.3	8.0	1.7	5.0	0.8	5.2	0.8	48.0	1094	Transition		
RRMDD331	3.12	4.01	0.89	181.8	718.6	32.5	106.4	17.2	2.9	13.4	2.1	12.2	2.5	7.0	1.0	7.0	1.1	73.0	1179	Mottled		
RRMDD331	4.01	4.90	0.89	106.3	186.7	19.9	67.7	11.2	1.9	8.5	1.3	8.3	1.7	4.8	0.7	5.0	0.8	49.0	474	Mottled		
RRMDD331	4.90	5.80	0.90	88.5	213.7	17.7	61.1	10.1	1.7	7.7	1.2	7.1	1.4	4.3	0.6	4.6	0.7	43.4	464	Clay		
RRMDD331	5.80	6.76	0.96	104.7	738.3	22.4	77.3	13.0	2.1	9.3	1.5	8.4	1.6	4.7	0.7	4.7	0.7	49.0	1038	Clay		
RRMDD331	6.76	7.70	0.94	232.2	319.4	55.8	187.2	30.1	4.8	18.8	2.6	14.2	2.5	6.7	0.9	5.7	0.8	73.9	956	Clay		
RRMDD331	7.70	8.32	0.62	174.7	323.1	44.3	147.5	23.0	3.7	14.6	1.9	10.7	1.9	5.2	0.7	4.4	0.6	55.7	812	Upper Saprolite		
RRMDD331	8.32	8.93	0.61	208.2	314.5	51.5	173.8	28.1	4.4	16.8	2.2	11.2	2.0	5.2	0.7	4.5	0.6	57.1	881	Upper Saprolite		
RRMDD331	8.93	9.78	0.85	190.6	301.0	46.4	159.2	25.4	4.2	16.2	2.1	10.7	1.9	5.0	0.7	4.2	0.6	53.1	821	Upper Saprolite		
RRMDD331	9.78	10.64	0.86	208.8	336.6	49.1	166.8	26.2	4.1	16.0	2.1	10.6	1.8	4.8	0.7	4.2	0.6	51.4	884	Upper Saprolite		
RRMDD331	10.64	11.49	0.85	173.6	320.6	39.5	137.1	22.1	3.5	14.4	1.9	9.8	1.7	4.7	0.6	3.9	0.5	50.5	785	Upper Saprolite		
RRMDD331	11.49	12.35	0.86	164.8	215.0	34.7	127.7	21.5	3.9	19.2	2.9	17.8	3.6	10.1	1.4	8.5	1.2	130.2	762	Upper Saprolite		
RRMDD331	12.35	13.20	0.85	137.8	265.3	30.7	115.0	21.4	3.9	18.9	2.6	14.7	2.9	7.7	1.0	6.0	0.8	100.1	729	Upper Saprolite		
RRMDD331	13.20	14.10	0.90	43.4	77.8	9.5	33.2	5.6	1.0	5.1	0.7	4.5	1.0	3.1	0.4	2.7	0.4	39.5	228	Upper Saprolite		
RRMDD331	14.10	14.40	0.30	114.0	347.6	30.0	117.8	25.2	4.8	20.8	3.1	17.6	3.3	8.5	1.1	6.2	0.9	110.4	811	Upper Saprolite		
RRMDD331	14.40	15.60	1.20	77.1	159.7	17.7	61.0	11.1	2.1	8.1	1.2	6.5	1.3	3.6	0.5	3.3	0.5	39.1	393	Lower Saprolite	12	733
RRMDD331	15.60	16.90	1.30	70.0	165.8	15.9	54.0	9.4	1.7	6.2	0.9	4.8	0.9	2.6	0.4	2.6	0.3	25.4	361	Saprock		
RRMDD332	0.00	1.90	1.90	30.3	318.2	7.0	25.7	5.3	0.9	4.5	0.8	5.2	1.0	3.3	0.6	4.3	0.6	27.2	435	Hardcap		
RRMDD332	1.90	2.50	0.60	132.5	402.9	32.9	116.3	18.8	2.9	13.5	2.0	11.4	2.0	5.9	1.0	6.9	1.0	52.7	803	Transition		
RRMDD332	2.50	2.75	0.25	396.4	335.4	92.3	327.8	52.0	7.9	32.8	4.4	23.0	3.8	10.1	1.4	9.7	1.4	99.6	1398	Clay		
RRMDD332	2.75	3.45	0.70	327.2	245.1	74.4	267.1	46.2	8.1	34.9	4.9	27.1	4.9	13.4	1.8	11.1	1.6	139.7	1207	Clay		
RRMDD332	3.45	4.20	0.75	99.7	184.9	25.4	104.9	23.7	4.8	22.8	3.5	22.3	4.7	14.5	2.1	12.3	1.6	160.0	687	Upper Saprolite		

Hole ID	From m	To m	Int. m	La_2O_3 ppm	CeO_2 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	>200ppm TREO-CeO_2 Interval Length (m)	>200ppm TREO-CeO_2 Interval TREO ppm
RRMDD332	4.20	4.90	0.70	81.0	167.7	17.9	59.3	9.3	1.6	6.1	0.9	4.8	0.9	2.6	0.4	2.7	0.4	28.3	384	Lower Saprolite	2	824
RRMDD333	0.00	1.55	1.55	96.4	1034.3	17.7	58.1	10.2	1.7	8.1	1.4	7.6	1.4	4.2	0.7	4.8	0.7	38.4	1286	Hardcap		
RRMDD333	1.55	2.10	0.55	85.0	1658.3	17.8	61.7	10.7	1.7	8.5	1.5	8.3	1.6	4.9	0.8	5.4	0.8	43.9	1911	Transition		
RRMDD333	2.10	2.94	0.84	110.6	701.4	23.1	79.4	13.3	2.3	10.3	1.6	10.1	2.0	6.0	0.9	6.2	0.9	59.7	1028	Clay		
RRMDD333	2.94	3.78	0.84	329.6	652.3	63.1	199.5	31.2	5.0	20.9	3.2	17.7	3.4	9.3	1.3	8.7	1.3	94.5	1441	Clay		
RRMDD333	3.78	4.63	0.85	113.4	359.9	27.1	99.6	17.2	3.0	14.9	2.2	13.6	2.8	8.3	1.2	8.1	1.2	90.7	763	Clay		
RRMDD333	4.63	5.48	0.85	97.1	114.2	24.6	88.3	15.7	2.7	12.9	2.0	12.2	2.6	7.6	1.1	7.5	1.1	82.9	472	Clay		
RRMDD333	5.48	6.33	0.85	130.2	157.2	35.8	129.5	23.3	4.0	17.5	2.6	16.0	3.1	9.0	1.3	8.6	1.2	94.4	634	Clay		
RRMDD333	6.33	7.18	0.85	238.1	255.5	74.4	268.3	46.8	7.8	31.5	4.6	26.4	4.8	13.4	1.9	12.3	1.7	143.5	1131	Clay		
RRMDD333	7.18	8.00	0.82	209.3	208.8	54.1	198.9	34.7	6.4	28.1	4.0	23.5	4.6	13.2	1.8	11.3	1.6	159.4	960	Clay		
RRMDD333	8.00	8.80	0.80	136.0	195.3	35.5	134.7	24.7	4.5	21.4	3.2	18.9	3.9	11.0	1.6	9.9	1.4	133.3	735	Clay		
RRMDD333	8.80	9.72	0.92	247.5	250.6	71.9	281.1	58.6	11.9	56.1	8.6	51.6	10.2	28.8	3.8	23.6	3.3	303.5	1411	Clay		
RRMDD333	9.72	10.40	0.68	263.9	195.3	65.0	268.3	52.6	11.2	63.6	9.5	59.6	12.9	36.4	4.7	28.5	4.1	497.8	1573	Clay		
RRMDD333	10.40	11.90	1.50	81.6	151.7	17.6	63.2	12.3	2.4	11.0	1.6	10.5	2.2	6.8	1.0	6.9	1.1	86.2	456	Lower Saprolite	10	924
RRMDD334	0.00	1.95	1.95	76.1	750.6	17.4	63.0	11.4	1.9	9.0	1.5	8.8	1.6	4.9	0.8	5.3	0.8	46.5	999	Hardcap		
RRMDD334	1.95	2.92	0.97	63.3	520.8	13.3	44.4	7.9	1.3	6.3	1.0	6.5	1.3	4.3	0.7	4.5	0.6	36.8	713	Transition		
RRMDD334	2.92	3.50	0.58	100.4	427.5	20.1	69.4	10.4	1.9	8.8	1.4	8.2	1.7	5.3	0.8	5.2	0.8	53.0	715	Clay		
RRMDD334	3.50	4.08	0.58	136.0	406.6	27.2	93.7	14.6	2.4	11.6	1.7	10.8	2.2	6.8	1.0	6.8	0.9	67.6	790	Clay		
RRMDD334	4.08	4.90	0.82	334.2	452.1	85.1	290.4	45.5	7.4	30.2	4.2	23.4	4.1	11.9	1.6	10.6	1.5	119.1	1421	Clay		
RRMDD334	4.90	5.60	0.70	467.9	520.8	119.4	405.9	61.5	10.0	41.4	5.6	30.3	5.5	14.8	2.0	11.8	1.7	163.2	1862	Clay		
RRMDD334	5.60	6.49	0.89	312.0	426.3	80.8	290.4	49.4	8.5	38.3	5.6	32.6	6.4	18.9	2.7	17.8	2.5	179.1	1471	Clay		
RRMDD334	6.49	6.77	0.28	551.2	422.6	152.8	555.2	95.2	16.8	74.8	10.7	61.2	11.3	31.7	4.3	27.4	3.8	326.4	2345	Upper Saprolite	4	1379
RRMDD334	6.77	8.07	1.30	217.6	161.5	41.3	163.3	27.1	5.6	32.4	4.4	26.6	5.5	15.3	1.9	10.8	1.6	229.2	944	Fresh Rock		
RRMDD334	8.07	9.40	1.33	75.5	151.7	18.5	70.1	12.5	2.4	10.1	1.4	8.6	1.7	4.8	0.6	4.3	0.6	49.9	413	Fresh Rock		
RRMDD335	0.00	1.63	1.63	253.3	576.1	52.8	191.3	28.3	4.7	20.3	2.7	14.5	2.3	6.2	0.9	5.9	0.9	57.3	1218	Hardcap		
RRMDD335	1.63	2.28	0.65	114.0	382.0	22.9	80.6	13.3	2.2	10.5	1.7	10.3	1.9	6.0	1.0	6.9	1.0	56.6	711	Transition		
RRMDD335	2.28	2.64	0.36	162.4	409.1	27.9	89.1	14.0	2.4	10.8	1.7	10.9	2.1	6.5	1.0	6.9	1.0	62.9	809	Clay		
RRMDD335	2.64	3.54	0.90	99.5	410.3	20.7	72.4	12.3	2.2	11.0	1.7	10.2	2.1	6.7	0.9	6.7	1.0	61.8	719	Clay		
RRMDD335	3.54	4.44	0.90	84.0	286.2	19.4	68.9	11.7	2.1	10.5	1.7	10.1	2.1	6.2	1.0	6.6	1.0	64.9	576	Clay		
RRMDD335	4.44	5.35	0.91	93.2	200.2	20.4	71.7	12.5	2.2	10.0	1.7	10.0	2.1	6.2	0.9	6.3	0.9	61.3	500	Clay		
RRMDD335	5.35	6.25	0.90	154.2	173.2	37.8	132.4	21.6	3.9	16.3	2.4	13.7	2.5	7.2	1.1	7.0	1.0	73.9	648	Clay		
RRMDD335	6.25	7.16	0.91	1366.3	573.7	200.6	608.9	80.2	13.4	51.3	6.5	33.1	5.1	12.2	1.5	9.4	1.2	124.3	3088	Clay		
RRMDD335	7.16	8.04	0.88	141.9	177.5	32.0	110.8	18.1	3.1	14.0	2.0	11.8	2.3	6.7	1.0	6.6	1.0	65.7	594	Clay		
RRMDD335	8.04	8.92	0.88	122.0	226.6	35.0	124.2	20.4	3.4	14.1	1.9	11.4	2.2	6.4	0.9	6.1	0.9	66.0	642	Clay		
RRMDD335	8.92	9.72	0.80	134.9	242.0	33.6	117.2	19.3	3.5	14.2	2.0	11.5	2.2	6.4	0.9	6.1	0.9	64.9	660	Clay		
RRMDD335	9.72	10.67	0.95	363.6	342.7	117.6	451.4	84.3	15.4	68.1	9.7	54.5	9.7	27.1	3.6	22.7	3.0	278.1	1852	Clay		
RRMDD335	10.67	11.50	0.83	396.4	264.1	97.6	401.2	74.6	15.5	87.5	12.5	78.3	16.4	47.7	6.2	37.2	5.6	621.0	2162	Clay		
RRMDD335	11.50	11.98	0.48	143.1	202.7	27.7	100.3	16.5	3.2	17.6	2.2	13.5	2.9	8.8	1.1	6.9	1.1	141.6	689	Upper Saprolite		
RRMDD335	11.98	12.57	0.59	84.0	167.7	20.2	75.6	14.2	3.0	13.3	2.0	11.7	2.3	6.7	0.9	5.8	0.8	73.5	482	Lower Saprolite	10	1078
RRMDD335	12.57	13.90	1.33	74.2	149.9	17.5	63.6	11.5	2.3	9.8	1.4	8.6	1.7	4.9	0.7	4.3	0.6	54.4	405	Saprock		
RRMDD336	0.00	1.53	1.53	77.9	312.0	16.1	56.9	9.8	1.6	8.1	1.3	7.5	1.5	4.2	0.7	4.8	0.7	41.7	545	Hardcap		
RRMDD336	1.53	3.05	1.52	77.9	1504.8	17.6	62.8	11.0	1.8	8.2	1.4	7.5	1.4	3.9	0.6	4.4	0.6	35.8	1740	Hardcap		
RRMDD336	3.05	3.38	0.33	125.5	1897.9	30.6	103.6	18.7	3.2	13.9	2.3	12.7	2.4	7.0	1.0	6.7	0.9	60.2	2287	Transition		

																					>200ppm TREO-CeO_2 Interval	
Hole ID	From m	To m	Int. m	La_2O_3 ppm	CeO_2 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
RRMDD336	3.38	4.75	1.37	140.7	595.8	35.2	120.1	20.5	3.4	15.7	2.3	13.7	2.5	7.2	1.0	6.8	0.9	70.1	1036	Clay		
RRMDD336	4.75	5.76	1.01	363.6	457.0	84.3	283.4	43.5	7.2	31.9	4.3	23.6	4.5	12.4	1.6	9.6	1.4	158.1	1486	Clay		
RRMDD336	5.76	6.83	1.07	108.5	303.4	25.4	88.9	14.4	2.7	11.8	1.7	9.4	1.8	5.1	0.6	3.9	0.6	61.3	639	Upper Saprolite	3	1045
RRMDD336	6.83	7.90	1.07	65.1	129.6	15.0	56.5	9.8	1.8	8.3	1.2	6.4	1.2	3.5	0.4	2.8	0.4	38.1	340	Saprock		
RRMDD337	0.00	1.60	1.60	126.7	769.0	24.3	84.3	14.4	2.4	11.4	1.9	10.4	2.0	5.8	0.9	6.1	0.9	56.3	1117	Soil		
RRMDD337	1.60	3.20	1.60	69.7	2045.3	16.5	58.7	10.8	1.8	8.2	1.6	8.4	1.5	4.6	0.8	5.1	0.7	39.6	2273	Hardcap		
RRMDD337	3.20	4.80	1.60	84.6	1154.7	18.8	68.1	11.9	2.0	9.2	1.5	8.1	1.5	4.4	0.7	4.8	0.7	39.5	1411	Hardcap		
RRMDD337	4.80	5.54	0.74	117.9	389.4	25.4	88.1	15.2	2.7	13.0	2.0	11.6	2.3	6.9	1.0	6.2	0.9	72.0	754	Mottled		
RRMDD337	5.54	6.28	0.74	123.1	99.1	26.9	97.3	17.1	3.0	14.5	2.2	13.1	2.6	7.6	1.1	6.7	1.0	83.9	499	Mottled		
RRMDD337	6.28	7.03	0.75	621.6	517.2	85.3	277.6	43.1	7.7	33.7	4.4	22.4	3.7	9.0	1.0	6.0	0.9	99.9	1734	Mottled		
RRMDD337	7.03	7.82	0.79	296.7	766.5	57.8	196.0	32.0	5.1	21.3	2.9	16.1	2.7	7.4	1.0	6.0	0.8	76.2	1488	Clay		
RRMDD337	7.82	8.60	0.78	254.5	577.3	61.1	214.0	34.4	5.8	24.1	3.3	18.0	3.2	9.0	1.2	7.4	1.0	103.5	1318	Clay		
RRMDD337	8.60	9.20	0.60	133.7	208.8	33.1	120.7	20.2	3.6	15.8	2.2	13.0	2.5	7.1	1.0	6.1	0.9	86.4	655	Upper Saprolite		
RRMDD337	9.20	9.80	0.60	151.3	230.9	39.9	140.0	23.0	4.1	17.8	2.6	15.2	3.0	8.6	1.1	7.0	1.0	109.8	755	Upper Saprolite		
RRMDD337	9.80	10.40	0.60	265.1	250.6	58.4	211.1	35.8	6.3	27.5	3.8	20.8	3.7	10.3	1.3	8.4	1.2	112.0	1016	Upper Saprolite		
RRMDD337	10.40	11.40	1.00	268.6	237.7	66.1	251.9	42.8	8.0	39.2	5.7	33.4	6.8	18.9	2.5	15.3	2.1	238.1	1237	Lower Saprolite		
RRMDD337	11.40	12.40	1.00	184.1	189.2	39.9	153.4	27.0	5.2	26.4	3.8	21.8	4.5	12.8	1.7	10.4	1.5	160.0	842	Lower Saprolite		
RRMDD337	12.40	13.40	1.00	276.8	223.6	54.0	218.1	37.8	7.5	41.7	5.6	31.9	6.4	18.1	2.3	13.8	2.0	230.5	1170	Lower Saprolite	9	1062
RRMDD338	0.00	2.00	2.00	65.1	615.4	13.0	46.7	8.5	1.4	6.9	1.2	6.7	1.3	3.8	0.6	4.2	0.6	36.2	812	Hardcap		
RRMDD338	2.00	4.00	2.00	54.2	934.8	11.1	39.1	6.7	1.1	5.3	1.0	5.1	1.0	3.2	0.5	3.5	0.5	27.9	1095	Hardcap		
RRMDD338	4.00	5.32	1.32	130.8	202.1	27.1	85.8	14.1	2.4	10.7	1.5	7.5	1.4	4.2	0.6	3.9	0.6	43.4	536	Clay		
RRMDD338	5.32	5.90	0.58	543.0	255.5	94.0	295.1	48.1	8.2	34.7	4.4	23.9	4.2	11.3	1.4	8.9	1.2	134.0	1468	Clay		
RRMDD338	5.90	6.52	0.62	190.0	229.1	46.0	152.2	25.2	4.4	18.8	2.5	13.6	2.5	7.1	0.9	5.9	0.8	78.2	777	Clay		
RRMDD338	6.52	7.14	0.62	438.6	396.8	126.3	418.7	72.4	12.1	47.9	6.4	33.6	5.8	15.7	2.0	12.0	1.6	177.8	1768	Clay		
RRMDD338	7.14	7.61	0.47	662.6	270.2	161.9	566.9	101.5	14.9	68.0	9.1	52.9	9.4	25.4	3.3	19.7	2.5	332.7	2301	Upper Saprolite		
RRMDD338	7.61	8.20	0.59	130.2	141.3	30.8	105.9	19.4	3.3	14.7	2.2	12.7	2.6	7.5	1.0	6.3	0.9	99.1	578	Upper Saprolite		
RRMDD338	8.20	8.78	0.58	236.9	194.7	50.1	180.2	32.4	6.1	30.7	4.0	22.8	4.4	12.2	1.6	9.3	1.3	151.1	938	Upper Saprolite		
RRMDD338	8.78	9.57	0.79	143.7	145.0	26.2	93.3	16.6	3.2	18.0	2.5	15.3	3.2	9.5	1.2	7.0	1.1	132.7	618	Lower Saprolite	6	1004
RRMDD338	9.57	10.90	1.33	82.2	137.0	17.8	59.6	11.2	2.1	9.2	1.1	6.5	1.3	4.0	0.5	3.4	0.5	50.5	387	Saprock		
RRMDD339	0.00	1.39	1.39	115.4	404.1	24.3	88.2	15.6	2.7	12.8	2.0	12.1	2.2	6.6	1.1	7.0	1.0	68.3	763	Soil		
RRMDD339	1.39	2.77	1.38	65.7	783.7	12.8	44.0	8.2	1.3	6.5	1.1	6.3	1.2	3.5	0.6	4.2	0.6	29.8	970	Transition		
RRMDD339	2.77	3.72	0.95	76.3	418.9	15.6	54.2	8.7	1.4	7.1	1.1	6.9	1.4	4.4	0.7	4.6	0.7	42.9	645	Clay		
RRMDD339	3.72	4.66	0.94	80.1	230.9	17.2	60.9	10.0	1.6	7.9	1.3	7.9	1.6	4.8	0.7	5.2	0.8	49.9	481	Clay		
RRMDD339	4.66	5.61	0.95	77.6	115.7	16.6	59.5	9.5	1.6	8.2	1.3	7.7	1.6	4.8	0.7	5.1	0.8	50.8	361	Clay		
RRMDD339	5.61	6.55	0.94	72.1	107.0	15.6	56.2	9.3	1.5	7.7	1.2	7.5	1.5	4.7	0.7	4.7	0.7	48.3	339	Clay		
RRMDD339	6.55	7.55	1.00	81.0	125.3	17.9	64.5	10.5	1.8	8.5	1.3	7.6	1.6	4.7	0.7	4.9	0.7	50.8	382	Clay		
RRMDD339	7.55	8.56	1.01	120.2	154.2	26.9	95.5	15.7	2.8	13.3	2.0	10.9	2.3	6.4	0.9	6.2	0.9	71.2	529	Clay		
RRMDD339	8.56	9.56	1.00	169.5	390.6	38.1	132.4	21.5	3.6	16.2	2.4	13.2	2.6	7.5	1.0	6.7	1.0	85.0	891	Clay		
RRMDD339	9.56	10.57	1.01	167.7	427.5	38.3	136.5	21.9	3.7	17.1	2.5	13.8	2.7	7.8	1.1	6.9	1.1	91.4	940	Clay		
RRMDD339	10.57	11.57	1.00	147.2	292.4	33.8	119.6	19.7	3.4	14.8	2.2	12.3	2.5	7.3	1.0	6.4	0.9	81.7	745	Clay		
RRMDD339	11.57	12.62	1.05	156.6	191.0	35.5	128.9	22.1	4.3	20.1	3.0	17.3	3.6	10.1	1.3	8.3	1.2	127.6	731	Clay		
RRMDD339	12.62	13.68	1.06	268.6	490.1	69.0	248.4	43.5	8.0	31.9	4.6	24.0	4.4	11.4	1.6	9.6	1.3	124.1	1340	Clay		
RRMDD339	13.68	14.28	0.60	23.9	95.6	5.0	18.0	3.3	0.6	2.8	0.4	2.7	0.5	1.7	0.2	1.7	0.2	16.4	173	Sand		

																					>200ppm TREO-CeO_2 Interval	
Hole ID	From m	To m	Int. m	La_2O_3 ppm	CeO_2 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
RRMDD339	14.28	15.06	0.78	94.8	192.2	21.5	80.0	13.4	2.4	10.4	1.5	8.3	1.5	4.5	0.6	4.1	0.6	52.2	488	Clay		
RRMDD339	15.06	15.84	0.78	135.5	224.8	32.0	121.9	22.1	4.3	18.7	2.7	15.0	2.9	8.1	1.1	6.8	1.0	90.4	687	Clay		
RRMDD339	15.84	16.39	0.55	34.5	61.7	7.2	29.3	5.7	1.2	5.8	0.9	5.5	1.1	3.0	0.4	2.6	0.3	30.7	190	Sand		
RRMDD339	16.39	17.07	0.68	92.9	181.8	22.2	82.6	14.8	2.9	12.6	1.8	10.2	2.0	5.8	0.8	4.9	0.7	62.1	498	Clay		
RRMDD339	17.07	17.75	0.68	84.1	168.3	18.5	69.3	12.1	2.4	11.0	1.6	9.5	1.9	5.6	0.8	4.8	0.7	63.6	454	Clay		
RRMDD339	17.75	18.41	0.66	25.9	46.6	6.7	23.9	4.3	0.7	3.5	0.6	3.2	0.7	2.0	0.3	1.8	0.3	21.2	142	Sand		
RRMDD339	18.41	19.07	0.66	26.9	54.0	7.3	28.5	5.6	1.0	4.7	0.8	4.8	1.0	2.9	0.4	2.7	0.4	32.4	173	Sand		
RRMDD339	19.07	19.85	0.78	100.9	215.0	22.4	83.3	14.4	2.5	10.8	1.5	7.9	1.5	4.2	0.5	3.8	0.5	41.9	511	Clay		
RRMDD339	19.85	20.64	0.79	87.6	183.0	19.8	70.6	11.9	2.1	8.9	1.2	6.4	1.2	3.4	0.5	3.4	0.5	39.5	440	Clay		
RRMDD339	20.64	21.24	0.60	59.7	103.1	13.5	46.4	8.3	1.6	6.1	0.9	5.2	1.1	3.0	0.4	2.9	0.4	32.5	285	Upper Saprolite		
RRMDD339	21.24	21.83	0.59	58.3	117.1	14.9	52.6	9.8	1.8	7.2	1.0	5.9	1.1	3.2	0.4	2.9	0.4	31.5	308	Upper Saprolite		
RRMDD339	21.83	22.76	0.93	147.2	415.2	36.0	118.4	20.0	3.6	13.7	2.0	10.7	1.9	4.9	0.7	4.2	0.6	51.2	830	Upper Saprolite	20	564
RRMDD339	22.76	23.70	0.94	48.3	87.5	10.8	35.6	6.0	1.1	3.8	0.5	2.9	0.5	1.6	0.2	1.7	0.3	15.1	216	Upper Saprolite		
RRMDD339	23.70	24.60	0.90	55.0	96.8	12.6	42.7	7.9	1.6	6.3	0.9	5.1	1.0	3.1	0.4	2.9	0.4	33.0	270	Lower Saprolite		
RRMDD340	0.00	1.55	1.55	46.9	364.8	10.5	37.1	7.0	1.3	6.0	1.0	6.3	1.2	3.7	0.6	4.2	0.6	31.7	523	Soil		
RRMDD340	1.55	3.10	1.55	50.4	1011.0	11.2	39.5	7.4	1.3	5.8	1.1	6.2	1.1	3.5	0.6	4.1	0.6	30.2	1174	Hardcap		
RRMDD340	3.10	3.50	0.40	103.1	1002.4	22.8	76.6	14.7	2.4	11.4	1.9	11.3	2.3	6.4	1.0	7.1	1.0	58.5	1323	Transition		
RRMDD340	3.50	4.61	1.11	67.1	158.5	15.0	51.9	9.7	1.7	8.7	1.4	8.9	1.9	5.6	0.9	6.0	0.9	54.4	393	Clay		
RRMDD340	4.61	5.66	1.05	57.0	380.8	13.5	46.8	8.8	1.6	8.2	1.5	8.8	1.9	5.6	0.8	6.3	0.9	54.0	596	Clay		
RRMDD340	5.66	6.71	1.05	52.4	647.4	12.5	45.3	8.7	1.6	7.9	1.5	9.1	1.9	6.0	0.9	6.1	1.0	54.4	857	Clay	3	611
RRMDD340	6.71	7.75	1.04	43.5	286.2	10.8	38.4	7.7	1.4	7.1	1.2	8.0	1.7	5.1	0.8	5.1	0.8	48.5	466	Clay		
RRMDD340	7.75	8.60	0.85	25.9	30.3	7.0	25.4	5.3	1.0	4.8	0.8	5.1	1.1	3.1	0.5	2.9	0.5	29.0	143	Clay		
RRMDD340	8.60	9.46	0.86	34.4	100.6	8.7	32.2	6.4	1.3	6.4	1.1	7.1	1.4	4.2	0.6	4.2	0.6	39.2	248	Clay		
RRMDD340	9.46	10.25	0.79	68.6	635.1	18.0	66.0	14.0	2.7	13.3	2.3	14.1	2.8	8.6	1.2	8.2	1.2	80.8	937	Clay		
RRMDD340	10.25	11.05	0.80	93.0	336.6	24.1	89.0	18.8	3.8	18.3	3.1	19.0	3.7	10.6	1.5	9.8	1.4	107.2	740	Clay		
RRMDD340	11.05	11.91	0.86	64.9	172.6	17.5	65.8	14.2	2.9	13.4	2.2	13.8	2.7	7.8	1.1	7.2	1.0	78.7	466	Clay		
RRMDD340	11.91	12.77	0.86	56.9	117.4	15.4	57.4	12.0	2.4	11.1	1.9	11.8	2.3	6.8	1.0	6.3	0.9	66.3	370	Clay		
RRMDD340	12.77	13.63	0.86	43.4	36.2	11.9	44.3	9.6	1.9	9.3	1.6	10.4	2.0	6.2	0.9	6.0	0.9	57.0	242	Clay		
RRMDD340	13.63	14.49	0.86	48.0	63.3	12.5	47.0	9.6	2.3	9.8	1.7	10.6	2.2	6.5	1.0	6.3	0.9	66.3	288	Clay		
RRMDD340	14.49	15.33	0.84	91.5	15.2	22.9	83.3	16.5	3.4	15.7	2.5	15.9	3.2	9.4	1.3	8.0	1.1	107.1	397	Clay		
RRMDD340	15.33	16.17	0.84	101.7	16.8	25.1	91.8	17.1	3.6	15.8	2.5	15.4	3.0	8.6	1.1	7.4	1.1	96.9	408	Clay		
RRMDD340	16.17	17.00	0.83	95.6	83.0	23.0	85.5	17.8	3.8	17.2	2.9	18.1	3.6	10.5	1.5	9.4	1.4	106.2	479	Clay		
RRMDD340	17.00	17.40	0.40	115.6	80.7	30.2	112.7	23.4	4.7	22.7	3.8	23.2	4.6	13.3	1.9	12.0	1.8	139.1	590	Clay		
RRMDD340	17.40	18.43	1.03	106.7	84.9	23.6	84.9	16.8	3.5	17.6	2.9	18.1	4.0	11.7	1.6	10.3	1.5	152.4	541	Sand		
RRMDD340	18.43	19.45	1.02	229.9	59.2	57.8	222.2	45.3	9.5	43.3	6.4	34.7	6.1	15.8	2.1	12.2	1.6	179.1	925	Sand		
RRMDD340	19.45	20.30	0.85	28.7	25.1	6.5	27.4	6.4	1.7	8.8	1.6	9.9	2.0	5.6	0.8	5.7	0.8	61.6	193	Sand		
RRMDD340	20.30	21.08	0.78	241.6	326.8	64.3	319.6	108.9	25.7	173.5	35.9	242.2	48.6	127.5	14.3	69.7	8.7	1689.0	3496	Upper Saprolite		
RRMDD340	21.08	21.86	0.78	338.9	662.1	112.2	563.4	202.9	47.2	299.7	65.4	453.3	91.1	245.9	28.6	140.1	17.3	3136.7	6405	Upper Saprolite		
RRMDD340	21.86	22.64	0.78	44.9	94.1	14.1	67.2	21.6	5.0	30.3	6.0	39.6	7.8	20.8	2.4	13.0	1.6	247.0	616	Upper Saprolite		
RRMDD340	22.64	23.40	0.76	72.1	183.6	25.3	119.0	41.6	9.3	56.2	11.4	74.0	14.3	38.1	4.7	26.2	3.4	449.5	1129	Upper Saprolite	14	1043
RRMDD340	23.40	24.40	1.00	8.3	22.2	2.9	13.6	4.5	1.3	6.1	1.2	7.6	1.5	4.5	0.6	3.8	0.6	48.1	127	Lower Saprolite		
RRMDD340	24.40	25.40	1.00	5.9	15.6	2.4	11.9	3.9	1.3	5.4	1.0	6.7	1.5	4.3	0.6	3.8	0.6	42.9	108	Lower Saprolite		
RRMDD341	0.00	1.64	1.64	92.4	1009.7	20.4	71.3	12.5	2.2	9.6	1.6	9.3	1.7	4.9	0.8	5.4	0.8	46.2	1289	Hardcap		

Hole ID	From m	To m	Int. m	La_2O_3 ppm	CeO_2 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	>200ppm TREO-CeO_2 Interval Length (m)	>200ppm TREO-CeO_2 Interval TREO ppm
RRMDD341	1.64	3.28	1.64	133.1	1609.2	30.7	107.1	18.8	3.1	13.7	2.3	12.6	2.2	6.4	1.0	6.5	0.9	57.7	2005	Transition		
RRMDD341	3.28	4.17	0.89	202.9	702.6	49.9	171.5	29.1	4.5	20.2	3.1	15.8	2.9	8.0	1.1	6.7	1.0	83.3	1303	Clay		
RRMDD341	4.17	5.06	0.89	276.8	248.1	67.4	232.1	38.0	6.3	26.7	3.9	19.9	3.6	9.3	1.3	7.7	1.1	98.7	1041	Clay		
RRMDD341	5.06	5.80	0.74	388.2	291.1	87.0	319.6	55.4	9.9	48.2	7.0	37.1	6.8	18.0	2.3	13.5	1.8	212.7	1499	Upper Saprolite		
RRMDD341	5.80	6.53	0.73	361.2	202.1	60.0	226.9	38.4	7.6	46.3	6.6	38.3	8.2	22.4	2.8	16.0	2.4	332.7	1372	Upper Saprolite		
RRMDD341	6.53	7.97	1.44	71.9	141.3	15.8	54.8	10.0	1.8	7.7	1.1	6.3	1.2	3.5	0.5	3.0	0.5	41.5	361	Lower Saprolite		
RRMDD341	7.97	9.40	1.43	71.7	143.1	16.5	57.0	10.6	2.0	8.4	1.3	6.7	1.3	3.6	0.5	3.4	0.5	40.3	367	Lower Saprolite	6	856
RRMDD342	0.00	1.99	1.99	57.9	200.2	11.9	43.2	8.0	1.4	7.0	1.2	7.2	1.4	4.2	0.7	5.1	0.8	35.9	386	Hardcap		
RRMDD342	1.99	2.78	0.79	160.1	373.4	37.7	135.9	21.2	3.5	15.4	2.3	12.5	2.2	6.6	0.9	6.5	0.9	62.9	842	Clay		
RRMDD342	2.78	3.45	0.67	88.8	125.9	19.8	69.5	11.4	2.0	8.9	1.2	6.9	1.3	3.2	0.5	2.9	0.5	36.7	379	Clay		
RRMDD342	3.45	4.22	0.77	69.3	135.1	15.4	57.7	10.6	1.9	9.0	1.3	7.2	1.4	4.0	0.6	3.4	0.5	47.2	365	Upper Saprolite		
RRMDD342	4.22	4.90	0.68	62.5	123.5	13.7	49.3	9.2	1.8	8.1	1.3	7.3	1.5	4.2	0.6	3.5	0.5	50.5	337	Upper Saprolite		
RRMDD342	4.90	5.74	0.84	66.5	133.3	14.8	53.2	9.2	1.6	6.6	1.0	5.5	1.1	3.1	0.4	2.7	0.4	35.8	335	Upper Saprolite		
RRMDD342	5.74	6.82	1.08	80.3	168.3	18.1	63.5	10.7	2.2	9.7	1.4	7.7	1.6	4.6	0.7	4.0	0.6	53.7	427	Lower Saprolite	5	450
RRMDD342	6.82	7.90	1.08	51.7	110.6	13.7	50.9	9.8	1.8	7.8	1.2	6.9	1.3	3.6	0.5	3.2	0.5	40.0	304	Lower Saprolite		
RRMDD343	0.00	2.14	2.14	77.5	616.7	16.1	57.0	9.4	1.7	8.1	1.3	7.8	1.4	4.3	0.7	4.6	0.7	42.5	850	Hardcap		
RRMDD343	2.14	3.02	0.88	65.7	636.3	13.8	50.0	8.1	1.4	6.7	1.0	6.0	1.2	3.6	0.5	3.6	0.5	33.9	832	Transition		
RRMDD343	3.02	3.92	0.90	130.8	1590.8	28.0	94.9	16.4	2.6	12.0	2.0	10.9	2.1	6.0	0.9	5.6	0.8	61.0	1965	Transition		
RRMDD343	3.92	4.60	0.68	261.5	269.0	58.2	203.0	33.4	5.6	24.8	3.8	21.5	4.2	12.3	1.7	10.7	1.6	137.1	1049	Mottled		
RRMDD343	4.60	5.28	0.68	265.1	331.7	63.2	215.8	35.7	6.0	26.9	4.1	23.1	4.6	13.3	1.9	11.6	1.7	154.3	1159	Mottled		
RRMDD343	5.28	6.02	0.74	242.8	264.1	58.0	204.7	33.9	5.6	24.3	3.7	20.9	3.9	11.1	1.6	9.7	1.4	123.6	1009	Clay		
RRMDD343	6.02	6.75	0.73	224.6	242.0	56.8	200.6	33.3	5.6	24.4	3.5	19.5	3.7	10.6	1.5	9.0	1.3	120.6	957	Clay		
RRMDD343	6.75	7.49	0.74	218.7	197.2	51.6	175.5	29.5	5.5	22.3	3.2	16.9	3.4	9.3	1.3	8.2	1.1	100.7	844	Clay		
RRMDD343	7.49	8.32	0.83	212.9	293.6	51.0	180.2	29.3	5.0	20.5	2.8	15.1	2.8	7.7	1.1	6.5	1.0	87.6	917	Upper Saprolite		
RRMDD343	8.32	9.15	0.83	241.6	334.1	57.5	204.1	33.6	5.9	24.8	3.5	18.6	3.5	9.8	1.3	7.9	1.1	107.9	1055	Upper Saprolite		
RRMDD343	9.15	9.95	0.80	421.0	347.6	86.3	319.6	54.3	10.5	49.8	6.8	38.0	7.9	20.4	2.9	16.7	2.4	306.0	1690	Lower Saprolite	6	1088
RRMDD343	9.95	11.40	1.45	74.9	143.7	17.2	67.0	13.6	2.8	11.5	1.8	9.8	2.0	5.9	0.8	4.8	0.7	68.1	425	Saprock		
RRMDD344	0.00	1.32	1.32	101.1	603.1	18.1	60.4	9.8	1.7	7.1	1.2	6.8	1.2	3.6	0.6	3.9	0.6	31.6	851	Hardcap		
RRMDD344	1.32	1.90	0.58	97.6	707.6	17.2	56.1	8.7	1.5	6.3	1.0	5.4	1.0	2.8	0.4	3.4	0.5	24.0	933	Transition		
RRMDD344	1.90	2.80	0.90	67.0	96.1	12.9	44.9	7.2	1.3	5.5	0.8	4.5	0.9	2.8	0.4	2.9	0.4	25.1	273	Mottled		
RRMDD344	2.80	3.70	0.90	60.4	86.6	11.6	38.8	6.4	1.1	4.5	0.7	4.2	0.8	2.7	0.4	2.6	0.4	25.0	246	Mottled		
RRMDD344	3.70	4.77	1.07	72.2	130.8	15.6	53.1	9.0	1.7	6.7	1.0	5.0	1.0	2.9	0.4	3.0	0.5	29.2	332	Clay		
RRMDD344	4.77	5.84	1.07	199.4	302.2	39.3	134.7	24.0	4.5	16.5	2.3	11.2	1.8	4.2	0.6	3.6	0.5	42.9	788	Clay		
RRMDD344	5.84	6.90	1.06	183.0	285.0	38.4	132.4	23.8	4.2	16.0	2.3	11.0	1.8	4.2	0.5	3.5	0.5	41.7	748	Clay		
RRMDD344	6.90	8.12	1.22	63.3	124.1	14.6	51.0	8.4	1.5	6.2	0.9	5.0	1.0	3.0	0.4	3.1	0.5	29.8	313	Clay		
RRMDD344	8.12	9.00	0.88	68.0	156.0	17.5	59.8	10.6	1.9	7.0	1.0	5.8	1.1	3.3	0.5	3.2	0.5	35.0	371	Upper Saprolite		
RRMDD344	9.00	9.85	0.85	183.5	393.1	62.8	237.9	46.3	8.5	36.2	5.4	28.6	5.3	14.5	1.9	11.6	1.7	160.0	1197	Lower Saprolite		
RRMDD344	9.85	10.70	0.85	166.0	337.8	47.6	169.7	31.2	5.7	21.7	3.2	17.0	3.1	8.3	1.2	7.8	1.0	84.7	906	Lower Saprolite		
RRMDD344	10.70	12.40	1.70	198.8	320.6	40.4	149.9	26.4	5.5	28.1	4.2	24.6	5.3	15.2	2.1	13.2	2.0	212.7	1049	Lower Saprolite	9	721
RRMDD345	0.00	1.26	1.26	79.3	192.2	16.2	57.3	9.7	1.8	8.3	1.4	8.4	1.5	4.8	0.7	5.2	0.7	45.6	433	Soil		
RRMDD345	1.26	2.52	1.26	49.4	390.6	9.3	33.7	6.1	1.1	5.0	0.9	5.1	0.9	3.0	0.4	3.2	0.4	24.6	534	Hardcap		
RRMDD345	2.52	3.27	0.75	68.4	594.5	14.5	48.5	8.8	1.5	6.8	1.2	6.8	1.4	4.2	0.7	4.6	0.7	41.1	804	Transition		
RRMDD345	3.27	4.02	0.75	90.7	384.5	20.7	70.3	12.9	2.3	9.9	1.7	9.8	2.0	5.9	0.9	6.3	0.9	57.1	676	Clay		

Hole ID	From m	To m	Int. m	La_2O_3 ppm	CeO_2 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	>200ppm TREO-CeO_2 Interval Length (m)	>200ppm TREO-CeO_2 Interval TREO ppm
RRMDD345	4.02	5.05	1.03	208.8	226.6	48.2	161.5	27.3	4.7	18.8	2.7	14.7	2.8	8.1	1.2	7.5	1.1	88.5	822	Clay		
RRMDD345	5.05	6.07	1.02	373.0	261.6	90.9	302.1	50.3	8.5	32.3	4.5	24.3	4.4	12.0	1.6	10.4	1.4	140.3	1318	Clay		
RRMDD345	6.07	6.86	0.79	403.4	253.1	85.7	305.6	54.3	10.1	44.0	6.1	33.6	6.3	16.8	2.3	14.0	2.0	217.8	1455	Clay		
RRMDD345	6.86	7.50	0.64	160.7	211.3	33.0	125.4	25.0	5.2	23.2	3.3	17.8	3.5	9.2	1.2	7.3	1.0	123.9	751	Upper Saprolite		
RRMDD345	7.50	8.40	0.90	79.0	179.3	17.8	59.8	10.1	1.9	7.1	1.0	5.4	1.0	2.9	0.4	3.0	0.4	32.6	402	Lower Saprolite	5	914
RRMDD346	0.00	1.38	1.38	95.6	459.4	17.5	58.9	9.8	1.9	7.7	1.2	7.3	1.3	4.1	0.6	4.7	0.7	37.3	708	Hardcap		
RRMDD346	1.38	2.14	0.76	116.3	271.5	22.5	73.5	11.2	1.8	7.8	1.2	7.4	1.3	4.1	0.7	4.9	0.7	35.2	560	Transition		
RRMDD346	2.14	3.10	0.96	148.9	271.5	29.1	95.5	15.8	2.7	11.8	1.8	10.7	2.1	6.3	0.9	6.6	1.0	63.9	669	Clay		
RRMDD346	3.10	4.08	0.98	140.7	266.6	28.8	96.7	16.2	2.8	12.6	1.9	11.3	2.3	6.6	1.0	6.8	1.0	71.5	667	Clay		
RRMDD346	4.08	5.04	0.96	173.0	216.2	33.6	102.5	14.9	2.5	10.4	1.5	8.7	1.8	5.2	0.8	5.6	0.8	54.9	632	Clay		
RRMDD346	5.04	5.59	0.55	378.8	433.6	97.1	285.8	35.6	5.8	20.3	2.7	14.1	2.6	6.8	1.0	6.8	1.0	72.0	1364	Clay		
RRMDD346	5.59	6.85	1.26	453.9	603.1	191.5	650.9	97.3	16.0	49.2	6.4	29.6	4.6	10.8	1.4	9.0	1.3	105.4	2230	Clay		
RRMDD346	6.85	7.75	0.90	157.7	255.5	42.2	149.9	26.8	4.9	19.7	2.9	16.1	3.1	8.9	1.3	8.6	1.3	94.2	793	Clay		
RRMDD346	7.75	8.65	0.90	147.8	239.5	40.5	150.5	28.6	5.3	21.1	3.2	18.4	3.6	10.3	1.5	9.8	1.4	114.5	796	Clay		
RRMDD346	8.65	9.47	0.82	154.2	286.2	84.3	391.9	89.3	17.1	69.6	10.0	53.1	9.7	24.9	3.5	22.1	3.0	290.8	1510	Upper Saprolite		
RRMDD346	9.47	10.30	0.83	137.2	238.9	64.8	295.1	63.7	12.6	52.8	7.7	41.2	8.0	21.5	3.0	18.6	2.6	278.1	1246	Upper Saprolite		
RRMDD346	10.30	11.48	1.18	67.9	149.9	16.9	59.3	11.3	2.2	8.5	1.2	6.6	1.2	3.6	0.5	3.5	0.5	42.9	376	Lower Saprolite	9	1029
RRMDD346	11.48	12.00	0.52	67.6	153.6	16.4	57.5	10.4	2.1	7.8	1.1	6.1	1.2	3.3	0.5	3.1	0.5	36.8	368	Saprock		
RRMDD347	0.00	1.34	1.34	82.6	302.2	16.1	56.2	9.2	1.6	7.5	1.1	7.0	1.2	3.8	0.6	4.2	0.6	35.4	529	Hardcap		
RRMDD347	1.34	2.68	1.34	69.3	550.3	13.4	45.4	7.3	1.3	5.5	0.9	5.4	0.9	3.1	0.5	3.5	0.5	24.5	732	Hardcap		
RRMDD347	2.68	3.70	1.02	75.4	178.7	17.4	60.5	11.0	2.1	9.0	1.4	8.2	1.7	5.0	0.8	4.9	0.7	53.0	430	Clay		
RRMDD347	3.70	4.74	1.04	71.2	122.0	16.1	56.6	10.3	1.9	8.3	1.2	7.3	1.5	4.2	0.7	4.4	0.6	46.6	353	Clay		
RRMDD347	4.74	5.74	1.00	113.1	362.4	25.9	89.8	16.8	3.2	13.3	2.0	11.6	2.3	6.5	0.9	5.9	0.9	71.0	726	Clay		
RRMDD347	5.74	6.75	1.01	187.1	249.4	36.2	124.8	20.8	4.0	17.2	2.5	13.8	2.8	7.7	1.1	6.7	1.0	98.0	773	Clay		
RRMDD347	6.75	7.72	0.97	181.8	173.8	35.0	121.3	19.8	3.8	16.4	2.4	13.4	2.7	7.4	1.0	6.5	0.9	94.5	681	Clay		
RRMDD347	7.72	8.37	0.65	230.5	511.0	47.8	167.4	28.3	5.4	23.1	3.4	18.7	3.7	9.8	1.3	8.1	1.1	121.4	1181	Clay		
RRMDD347	8.37	9.03	0.66	300.2	240.8	67.3	232.1	40.2	7.4	30.9	4.5	24.6	4.8	12.9	1.7	10.4	1.5	168.3	1148	Clay		
RRMDD347	9.03	10.26	1.23	241.6	223.0	52.4	183.7	32.0	6.2	25.2	3.7	20.7	4.1	10.9	1.4	8.9	1.2	129.5	945	Clay		
RRMDD347	10.26	11.12	0.86	182.4	191.0	43.0	154.5	27.1	5.4	23.1	3.4	18.1	3.5	9.5	1.3	7.8	1.1	101.3	772	Clay		
RRMDD347	11.12	12.00	0.88	207.6	298.5	50.3	178.5	30.8	6.0	24.4	3.6	19.1	3.6	9.9	1.3	7.8	1.1	108.6	951	Clay		
RRMDD347	12.00	12.88	0.88	189.4	258.0	45.3	161.5	28.1	5.4	22.9	3.3	17.4	3.2	9.0	1.2	7.4	1.0	97.3	850	Clay		
RRMDD347	12.88	13.78	0.90	178.3	230.3	42.8	148.7	25.7	5.1	20.3	3.0	15.9	2.9	7.9	1.0	6.8	0.9	83.3	773	Clay		
RRMDD347	13.78	14.65	0.87	140.1	188.6	31.1	111.4	18.8	3.8	15.6	2.3	12.6	2.3	6.6	0.8	5.5	0.7	66.9	607	Clay		
RRMDD347	14.65	15.53	0.88	131.9	170.1	28.8	104.3	18.3	3.8	16.3	2.4	13.0	2.5	7.3	0.9	5.8	0.8	78.7	585	Clay		
RRMDD347	15.53	16.44	0.91	219.3	218.7	50.9	203.5	40.8	8.6	39.0	5.8	31.6	6.0	16.6	2.1	12.5	1.7	206.4	1063	Upper Saprolite		
RRMDD347	16.44	17.35	0.91	132.5	201.5	28.9	105.6	18.2	3.7	15.9	2.3	12.1	2.3	6.4	0.8	5.3	0.7	69.0	605	Upper Saprolite		
RRMDD347	17.35	18.26	0.91	143.1	223.0	28.5	107.8	18.6	3.8	18.8	2.6	14.4	2.9	7.9	1.0	6.0	0.8	105.4	685	Upper Saprolite		
RRMDD347	18.26	19.17	0.91	113.2	198.4	23.2	84.0	14.1	2.8	13.1	1.8	9.7	2.0	5.5	0.8	4.5	0.6	67.8	541	Upper Saprolite		
RRMDD347	19.17	20.28	1.11	85.0	186.7	18.8	69.6	12.7	2.4	11.0	1.5	8.6	1.7	4.8	0.6	3.8	0.5	63.0	471	Lower Saprolite	18	727
RRMDD347	20.28	21.40	1.12	73.8	189.2	17.5	60.5	10.5	2.1	8.0	1.1	5.9	1.2	3.3	0.4	2.8	0.4	35.2	412	Saprock		
RRMDD348	0.00	1.30	1.30	67.8	237.7	13.6	47.0	7.9	1.5	6.5	0.9	5.7	1.1	3.4	0.5	3.8	0.5	28.7	426	Soil		
RRMDD348	1.30	2.60	1.30	88.9	909.0	18.3	61.7	9.3	1.7	6.9	1.1	6.2	1.1	3.3	0.5	3.6	0.5	28.4	1141	Hardcap		
RRMDD348	2.60	3.20	0.60	103.2	1289.8	21.9	70.0	11.1	2.0	7.7	1.3	6.7	1.2	3.7	0.5	3.8	0.5	32.8	1556	Transition		

																					>200ppm TREO-CeO_2 Interval	
Hole ID	From m	To m	Int. m	La_2O_3 ppm	CeO_2 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
RRMDD348	3.20	4.18	0.98	93.1	151.1	20.8	73.5	11.9	2.1	9.3	1.4	7.9	1.6	4.7	0.6	4.3	0.6	51.4	434	Clay		
RRMDD348	4.18	5.16	0.98	98.5	148.6	22.5	80.6	12.6	2.2	10.3	1.4	7.7	1.5	4.6	0.6	4.0	0.6	52.2	448	Clay		
RRMDD348	5.16	6.14	0.98	115.3	293.6	26.9	93.5	15.1	2.7	12.2	1.8	9.4	1.9	5.4	0.7	4.9	0.6	59.7	644	Clay		
RRMDD348	6.14	7.12	0.98	147.2	189.8	34.3	118.4	19.1	3.4	14.9	2.0	10.9	2.1	6.0	0.8	5.1	0.7	70.0	625	Clay		
RRMDD348	7.12	8.12	1.00	114.6	156.6	26.8	95.9	15.6	2.9	12.3	1.7	9.0	1.8	5.1	0.7	4.3	0.6	60.1	508	Clay		
RRMDD348	8.12	9.16	1.04	157.7	163.4	37.0	133.0	21.5	4.0	17.3	2.3	11.9	2.4	6.6	0.9	5.6	0.8	79.2	643	Clay		
RRMDD348	9.16	10.14	0.98	156.6	205.1	36.5	128.3	20.7	3.9	17.2	2.3	12.6	2.5	7.2	0.9	6.0	0.9	82.5	683	Clay		
RRMDD348	10.14	11.18	1.04	163.0	226.6	40.5	149.9	26.9	5.3	24.1	3.5	20.3	4.1	12.3	1.6	10.5	1.5	149.8	840	Clay		
RRMDD348	11.18	12.09	0.91	136.0	225.4	32.1	115.5	20.0	3.9	16.1	2.2	11.6	2.2	6.2	0.9	5.8	0.8	61.8	640	Clay		
RRMDD348	12.09	12.92	0.83	134.9	224.8	29.6	108.1	18.8	3.7	15.7	2.2	11.2	2.0	5.6	0.8	5.0	0.7	58.8	622	Clay		
RRMDD348	12.92	13.74	0.82	111.2	233.4	25.6	91.0	15.9	3.0	13.3	1.7	9.3	1.7	4.9	0.7	4.6	0.6	51.8	569	Clay		
RRMDD348	13.74	14.59	0.85	95.9	193.5	22.0	81.8	14.9	2.9	12.2	1.7	9.3	1.7	5.1	0.7	4.6	0.6	52.3	499	Clay		
RRMDD348	14.59	15.54	0.95	74.0	182.4	17.4	60.8	10.5	2.0	8.3	1.2	6.2	1.2	3.6	0.5	3.4	0.5	39.7	412	Upper Saprolite		
RRMDD348	15.54	16.49	0.95	76.6	186.7	18.0	63.9	11.1	2.1	8.4	1.2	6.3	1.2	3.5	0.5	3.2	0.5	34.3	417	Upper Saprolite		
RRMDD348	16.49	17.44	0.95	67.9	162.8	16.9	62.9	11.7	2.4	10.0	1.6	8.2	1.6	4.6	0.7	4.3	0.6	46.2	402	Upper Saprolite		
RRMDD348	17.44	18.40	0.96	62.7	145.0	15.0	54.6	10.3	2.1	8.3	1.2	6.4	1.2	3.5	0.5	3.0	0.4	35.6	350	Lower Saprolite	15	548
RRMDD349	0.00	1.21	1.21	109.2	528.2	19.5	65.2	10.0	1.7	7.2	1.1	6.4	1.2	3.4	0.6	4.0	0.5	31.7	790	Hardcap		
RRMDD349	1.21	2.10	0.89	85.8	870.9	17.9	59.4	9.8	1.8	7.1	1.2	6.7	1.3	3.9	0.6	3.9	0.6	36.1	1107	Clay		
RRMDD349	2.10	2.99	0.89	89.1	802.1	18.7	64.6	10.8	1.9	7.7	1.2	7.0	1.4	4.1	0.6	4.0	0.6	40.0	1054	Clay		
RRMDD349	2.99	3.88	0.89	94.9	734.6	21.0	73.0	11.7	2.2	8.5	1.4	7.2	1.4	4.2	0.6	3.8	0.6	38.9	1004	Clay		
RRMDD349	3.88	4.77	0.89	93.4	438.5	22.0	75.0	12.6	2.3	8.7	1.3	7.3	1.2	3.7	0.5	3.8	0.6	37.6	709	Clay		
RRMDD349	4.77	5.66	0.89	113.1	264.1	26.5	93.0	15.5	2.8	10.6	1.4	7.4	1.3	3.9	0.6	3.8	0.6	38.0	582	Clay		
RRMDD349	5.66	6.55	0.89	133.1	267.8	32.5	113.6	18.4	3.4	12.0	1.6	8.5	1.4	4.1	0.6	3.3	0.5	39.1	640	Clay		
RRMDD349	6.55	7.46	0.91	139.0	273.9	34.0	117.2	19.2	3.5	12.1	1.6	8.2	1.4	4.0	0.6	3.6	0.5	40.8	660	Clay		
RRMDD349	7.46	8.45	0.99	143.7	281.3	32.9	110.8	17.9	3.1	11.8	1.7	9.3	1.7	4.5	0.6	4.0	0.6	53.5	677	Upper Saprolite		
RRMDD349	8.45	9.44	0.99	133.7	386.9	33.7	118.4	20.2	3.9	14.3	2.0	11.1	1.9	5.2	0.7	4.1	0.6	57.0	794	Upper Saprolite		
RRMDD349	9.44	10.43	0.99	124.9	291.1	28.5	99.7	15.9	2.9	11.3	1.6	8.9	1.7	4.7	0.6	4.2	0.6	55.5	652	Upper Saprolite		
RRMDD349	10.43	11.43	1.00	107.9	255.5	23.8	84.1	14.0	2.8	11.0	1.5	8.9	1.6	4.8	0.7	4.0	0.6	54.5	576	Upper Saprolite		
RRMDD349	11.43	12.41	0.98	97.1	225.4	21.8	75.3	12.5	2.4	9.9	1.4	7.8	1.4	4.1	0.6	3.7	0.5	46.7	511	Upper Saprolite		
RRMDD349	12.41	13.40	0.99	117.9	248.1	26.7	97.7	16.6	3.2	13.1	1.9	10.6	1.9	5.1	0.7	4.3	0.6	57.4	606	Upper Saprolite		
RRMDD349	13.40	14.40	1.00	121.4	214.4	26.1	95.3	16.7	3.5	14.9	2.2	12.1	2.3	6.1	0.9	5.3	0.8	69.2	591	Upper Saprolite		
RRMDD349	14.40	15.40	1.00	97.5	294.8	20.4	73.1	12.1	2.5	11.3	1.6	8.9	1.8	5.1	0.7	4.2	0.6	70.0	604	Lower Saprolite	14	712
RRMDD350	0.00	1.10	1.10	117.9	368.5	21.8	71.3	10.7	1.9	7.9	1.2	6.6	1.2	3.6	0.5	3.6	0.5	31.6	649	Soil		
RRMDD350	1.10	2.09	0.99	113.6	756.7	21.7	71.9	10.6	1.9	7.5	1.2	6.4	1.1	3.4	0.5	4.0	0.5	29.8	1031	Hardcap		
RRMDD350	2.09	2.67	0.58	42.3	146.2	10.1	35.5	6.6	1.3	5.0	0.8	5.1	1.0	3.0	0.4	3.0	0.5	29.1	290	Clay		
RRMDD350	2.67	3.25	0.58	61.9	94.0	12.4	41.8	7.2	1.4	5.7	0.8	5.2	1.0	3.2	0.5	3.0	0.4	30.9	269	Clay		
RRMDD350	3.25	4.22	0.97	57.9	129.6	13.2	46.3	7.9	1.5	6.2	0.9	5.8	1.1	3.4	0.5	3.2	0.5	38.7	317	Clay		
RRMDD350	4.22	5.19	0.97	100.5	148.6	23.6	84.0	13.9	2.4	9.9	1.4	8.0	1.6	4.4	0.6	3.8	0.5	53.3	457	Clay		
RRMDD350	5.19	6.16	0.97	79.3	93.6	17.6	64.2	10.6	1.9	8.1	1.1	6.4	1.2	3.6	0.5	3.1	0.4	38.4	330	Clay		
RRMDD350	6.16	7.13	0.97	112.4	253.1	26.2	94.5	16.3	3.2	12.3	1.7	9.5	1.7	4.7	0.6	3.7	0.5	50.0	590	Clay		
RRMDD350	7.13	8.07	0.94	167.1	245.1	43.9	161.0	29.0	5.5	21.5	3.0	17.3	3.2	9.0	1.2	7.0	0.9	105.3	820	Clay		
RRMDD350	8.07	9.01	0.94	164.2	180.0	42.4	152.2	26.9	5.3	20.1	2.7	15.6	2.8	8.1	1.0	5.8	0.8	90.8	719	Clay		
RRMDD350	9.01	9.95	0.94	126.1	141.3	31.8	115.2	19.5	3.8	14.6	1.9	10.8	2.0	5.2	0.7	4.1	0.6	61.8	539	Clay		

Hole ID	From m	To m	Int. m	La_2O_3 ppm	CeO_2 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	>200ppm TREO-CeO_2 Interval Length (m)	>200ppm TREO-CeO_2 Interval TREO ppm
RRMDD350	9.95	10.89	0.94	79.5	130.8	19.5	70.7	12.2	2.4	8.9	1.2	6.6	1.2	3.5	0.5	3.0	0.4	39.7	380	Clay		
RRMDD350	10.89	11.83	0.94	77.4	143.1	18.0	63.9	10.5	2.0	7.8	1.1	5.9	1.1	3.3	0.5	3.1	0.4	35.0	373	Clay		
RRMDD350	11.83	12.47	0.64	86.6	145.6	25.7	102.5	20.5	4.2	16.7	2.5	14.4	2.7	7.6	0.9	5.3	0.7	81.3	517	Upper Saprolite		
RRMDD350	12.47	13.10	0.63	101.3	187.3	24.9	90.0	15.8	3.0	11.8	1.7	9.5	1.8	5.0	0.7	3.9	0.6	55.5	513	Upper Saprolite	9	524
RRMDD351	0.00	1.20	1.20	143.7	880.8	22.7	72.2	11.4	2.0	8.6	1.4	8.0	1.5	4.5	0.7	4.7	0.6	41.4	1204	Soil		
RRMDD351	1.20	2.40	1.20	59.2	1259.1	10.7	35.5	5.9	1.1	4.4	0.8	4.6	0.8	2.5	0.4	2.9	0.4	22.2	1411	Hardcap		
RRMDD351	2.40	3.23	0.83	48.3	180.0	10.3	36.6	6.0	1.1	5.2	0.8	5.1	1.1	3.4	0.5	3.6	0.5	30.9	333	Mottled		
RRMDD351	3.23	4.07	0.84	59.8	95.6	12.8	46.5	7.7	1.4	6.2	1.0	6.3	1.3	4.1	0.6	4.2	0.6	40.8	289	Mottled		
RRMDD351	4.07	4.90	0.83	123.1	186.7	25.7	92.1	14.6	2.5	11.2	1.6	9.3	1.8	5.5	0.8	4.6	0.7	60.6	541	Mottled		
RRMDD351	4.90	5.75	0.85	212.3	337.8	47.8	174.4	31.0	5.9	29.0	4.7	28.9	6.1	17.3	2.3	13.5	1.9	207.0	1120	Mottled		
RRMDD351	5.75	6.60	0.85	181.8	372.2	38.4	140.0	22.3	3.9	16.8	2.4	14.1	2.7	8.1	1.1	6.4	0.9	94.4	905	Clay		
RRMDD351	6.60	7.43	0.83	66.4	118.9	13.8	49.8	7.5	1.3	5.8	0.8	4.9	1.0	2.9	0.4	2.6	0.4	31.1	308	Clay		
RRMDD351	7.43	8.28	0.85	63.8	129.6	13.7	48.6	7.6	1.3	5.9	0.8	4.8	1.0	2.9	0.4	2.6	0.4	32.4	316	Clay		
RRMDD351	8.28	9.00	0.72	97.8	189.2	22.4	78.1	11.9	2.1	8.3	1.1	6.2	1.1	3.2	0.4	2.8	0.4	34.4	459	Clay		
RRMDD351	9.00	9.75	0.75	138.4	181.8	33.0	118.4	18.7	3.3	12.7	1.6	7.7	1.4	3.6	0.5	3.0	0.5	39.1	563	Clay		
RRMDD351	9.75	10.51	0.76	119.0	153.6	26.7	92.8	14.3	2.5	10.1	1.3	7.4	1.4	4.0	0.5	3.1	0.5	44.1	481	Clay		
RRMDD351	10.51	11.27	0.76	119.0	186.7	26.0	92.4	14.0	2.5	9.8	1.3	7.1	1.3	3.8	0.5	3.3	0.5	43.2	511	Clay		
RRMDD351	11.27	12.00	0.73	134.9	277.6	31.2	113.4	18.8	3.5	15.0	2.1	12.7	2.5	7.4	0.9	5.7	0.8	84.8	711	Clay		
RRMDD351	12.00	12.80	0.80	175.9	216.8	42.3	163.9	30.3	5.6	24.0	3.3	17.3	3.1	8.0	1.0	5.7	0.8	88.5	787	Clay		
RRMDD351	12.80	13.66	0.86	109.5	186.1	23.7	85.7	13.6	2.6	10.7	1.4	7.9	1.4	4.0	0.5	3.4	0.5	44.6	496	Clay		
RRMDD351	13.66	14.46	0.80	94.9	151.1	20.0	72.9	11.3	2.0	8.3	1.0	5.7	1.1	2.9	0.4	2.7	0.4	31.5	406	Clay		
RRMDD351	14.46	15.46	1.00	123.1	176.9	24.8	98.1	18.1	4.0	23.0	3.8	24.6	5.8	17.1	2.2	12.8	1.9	236.8	773	Upper Saprolite		
RRMDD351	15.46	16.45	0.99	129.0	305.9	23.4	89.3	14.3	2.9	15.3	2.1	12.2	2.7	7.5	1.0	5.6	0.8	107.7	719	Lower Saprolite		
RRMDD351	16.45	17.43	0.98	70.8	249.4	16.4	61.2	10.4	2.2	8.5	1.2	6.7	1.3	3.7	0.5	3.1	0.4	45.1	481	Lower Saprolite		
RRMDD351	17.43	18.26	0.83	69.2	202.7	15.1	56.5	9.6	1.9	7.9	1.1	6.0	1.2	3.5	0.5	2.8	0.4	41.8	420	Lower Saprolite	14	592
RRMDD351	18.26	19.33	1.07	69.9	226.6	15.5	56.2	9.0	1.7	6.8	0.9	5.3	1.1	3.0	0.4	2.5	0.4	35.8	435	Saprock		
RRMDD351	19.33	20.40	1.07	60.4	199.0	14.7	53.9	10.0	1.9	7.7	1.1	6.9	1.4	4.1	0.6	3.8	0.6	42.3	408	Saprock		
RRMDD352	0.00	0.92	0.92	91.4	595.8	18.0	61.7	10.7	1.8	8.4	1.3	8.1	1.4	4.7	0.7	5.1	0.7	41.8	852	Hardcap		
RRMDD352	0.92	1.75	0.83	110.8	744.4	17.3	54.0	8.8	1.7	7.1	1.2	7.0	1.4	4.2	0.7	4.4	0.6	39.1	1003	Transition		
RRMDD352	1.75	2.64	0.89	98.5	291.1	19.1	62.5	10.7	1.9	8.4	1.4	8.1	1.6	4.7	0.7	4.8	0.7	44.6	559	Clay		
RRMDD352	2.64	3.53	0.89	103.1	191.0	23.0	79.3	13.2	2.3	10.6	1.6	9.4	1.9	5.6	0.8	5.4	0.8	57.5	506	Clay		
RRMDD352	3.53	4.42	0.89	145.4	332.9	32.3	110.8	18.5	3.4	14.1	2.1	11.7	2.3	7.0	1.0	6.4	0.9	65.5	754	Clay		
RRMDD352	4.42	5.60	1.18	101.7	176.3	21.6	75.8	12.7	2.5	10.6	1.4	7.7	1.6	4.3	0.6	3.7	0.6	54.6	476	Lower Saprolite	4	566
RRMDD353	0.00	1.77	1.77	90.5	188.6	20.9	77.2	14.1	2.4	11.6	1.8	11.1	2.1	6.4	0.9	6.6	0.9	61.1	496	Watercourse		
RRMDD353	1.77	2.90	1.13	91.5	199.0	20.7	74.3	13.3	2.7	11.2	1.6	9.0	1.8	5.1	0.7	4.3	0.6	54.2	490	Upper Saprolite	1.1	490
RRMDD353	2.90	3.90	1.00	68.5	166.4	16.3	57.9	10.3	2.1	8.3	1.1	6.0	1.1	3.2	0.4	2.7	0.4	33.4	378	Saprock		
RRMDD353	3.90	4.90	1.00	65.2	156.0	15.5	54.8	10.4	2.1	8.1	1.2	6.2	1.1	3.3	0.4	2.6	0.4	32.9	360	Saprock		
RRMDD354	0.00	1.19	1.19	113.6	481.5	20.0	65.0	9.9	1.7	7.2	1.1	6.6	1.2	3.9	0.6	3.7	0.6	32.1	749	Soil		
RRMDD354	1.19	2.38	1.19	172.4	1012.2	28.6	90.2	13.6	2.3	9.5	1.5	8.4	1.4	4.3	0.6	4.6	0.6	37.7	1388	Hardcap		
RRMDD354	2.38	3.62	1.24	137.8	250.6	27.8	92.7	15.0	2.6	11.1	1.7	9.5	1.9	5.4	0.8	4.8	0.8	57.8	620	Transition		
RRMDD354	3.62	4.60	0.98	299.1	260.4	73.3	247.3	39.8	6.7	28.7	4.0	21.8	4.2	11.5	1.6	9.3	1.4	140.3	1149	Clay		
RRMDD354	4.60	5.58	0.98	238.1	232.2	61.3	207.6	33.0	5.5	23.4	3.3	18.2	3.4	9.6	1.3	7.9	1.2	115.3	961	Clay		
RRMDD354	5.58	6.56	0.98	211.7	232.2	51.5	173.2	28.2	4.7	19.9	2.9	15.6	3.0	8.2	1.2	6.8	1.1	98.8	859	Clay		

Hole ID	From m	To m	Int. m	La_2O_3 ppm	CeO_2 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	>200ppm TREO-CeO_2 Interval Length (m)	>200ppm TREO-CeO_2 Interval TREO ppm
RRMDD354	6.56	7.56	1.00	256.8	250.6	65.7	221.6	35.1	5.9	25.0	3.5	19.2	3.7	10.2	1.4	8.4	1.3	122.7	1031	Clay		
RRMDD354	7.56	8.36	0.80	91.7	91.1	23.6	80.8	13.0	2.2	9.2	1.4	7.6	1.5	4.2	0.6	3.8	0.6	50.5	382	Sand	5	896
RRMDD354	8.36	9.17	0.81	20.6	26.5	4.6	15.4	2.5	0.4	1.8	0.3	1.7	0.4	1.1	0.2	1.0	0.2	11.6	88	Sand		
RRMDD354	9.17	9.98	0.81	32.1	97.8	7.9	25.8	4.3	0.7	3.1	0.5	2.6	0.5	1.6	0.2	1.6	0.2	17.0	196	Sand		
RRMDD354	9.98	10.82	0.84	40.9	101.7	10.4	35.8	5.9	1.0	4.1	0.6	3.2	0.7	1.9	0.3	1.8	0.3	20.7	229	Sand		
RRMDD354	10.82	11.83	1.01	58.3	142.5	11.9	38.7	6.3	1.1	4.7	0.7	3.8	0.8	2.1	0.3	2.0	0.3	23.5	297	Clay		
RRMDD354	11.83	12.84	1.01	34.8	97.9	7.8	26.8	4.3	0.7	3.0	0.5	2.8	0.6	1.7	0.3	1.8	0.3	20.1	204	Clay		
RRMDD354	12.84	13.85	1.01	59.2	167.7	13.5	44.6	7.0	1.2	5.1	0.7	4.1	0.9	2.6	0.4	2.6	0.4	29.5	339	Clay		
RRMDD354	13.85	14.87	1.02	89.8	363.6	22.3	73.8	11.5	2.0	7.6	1.0	5.4	1.0	3.0	0.4	2.7	0.4	33.4	618	Clay		
RRMDD354	14.87	15.94	1.07	75.3	221.7	18.2	61.5	10.0	1.8	7.1	1.0	5.6	1.1	3.2	0.4	2.9	0.4	35.6	446	Upper Saprolite		
RRMDD354	15.94	17.01	1.07	86.2	196.5	21.1	73.9	13.2	2.6	10.7	1.7	9.4	1.9	5.3	0.8	4.7	0.7	62.0	491	Upper Saprolite		
RRMDD354	17.01	18.08	1.07	102.4	203.3	24.8	89.7	16.4	3.1	13.4	2.0	10.9	2.2	5.8	0.8	5.1	0.8	66.3	547	Upper Saprolite		
RRMDD354	18.08	19.18	1.10	100.4	193.5	22.7	82.5	14.8	3.0	13.4	1.9	10.7	2.1	6.0	0.8	5.1	0.8	73.0	531	Lower Saprolite	5	526
RRMDD354	19.18	20.90	1.72	71.5	170.1	16.6	56.7	10.0	1.9	7.6	1.1	6.0	1.1	3.1	0.5	3.0	0.5	38.9	389	Saprock		
RRMDD355	0.00	1.44	1.44	97.2	1041.7	16.8	53.9	8.5	1.5	6.3	1.1	6.3	1.2	3.7	0.6	4.1	0.6	31.7	1275	Hardcap		
RRMDD355	1.44	2.88	1.44	111.2	745.6	21.9	73.8	12.2	2.0	8.7	1.4	8.1	1.5	4.6	0.8	5.2	0.7	39.9	1038	Transition		
RRMDD355	2.88	4.05	1.17	104.1	215.0	20.4	70.5	12.0	2.0	9.7	1.5	9.5	1.9	5.8	0.9	6.0	0.9	57.0	517	Clay		
RRMDD355	4.05	5.05	1.00	74.6	167.1	16.8	61.6	10.6	1.9	9.4	1.5	9.2	1.9	5.7	0.9	6.0	0.9	56.8	425	Clay		
RRMDD355	5.05	6.05	1.00	71.7	225.4	17.6	65.6	11.6	2.0	10.0	1.6	9.3	1.9	6.0	0.9	5.6	0.9	62.5	492	Clay		
RRMDD355	6.05	7.05	1.00	111.9	195.3	25.6	90.4	15.8	2.8	12.4	1.9	11.1	2.1	6.5	1.0	6.6	0.9	62.0	546	Clay		
RRMDD355	7.05	8.05	1.00	174.2	211.9	36.9	124.8	20.9	3.6	15.4	2.2	12.5	2.3	6.8	1.0	7.2	1.0	68.1	689	Clay		
RRMDD355	8.05	9.04	0.99	76.3	262.9	21.2	83.6	15.7	2.8	13.4	2.0	12.3	2.4	7.5	1.1	7.1	1.0	75.8	585	Clay		
RRMDD355	9.04	9.96	0.92	128.4	301.0	34.1	131.2	24.2	4.6	20.8	3.1	17.6	3.5	10.1	1.4	9.1	1.3	107.9	798	Upper Saprolite		
RRMDD355	9.96	10.88	0.92	85.8	170.1	20.1	74.9	13.2	2.6	11.0	1.6	9.1	1.8	5.1	0.7	4.6	0.7	56.9	458	Lower Saprolite		
RRMDD355	10.88	11.80	0.92	60.4	126.5	14.9	52.7	9.5	2.0	8.1	1.3	7.2	1.4	4.2	0.6	3.9	0.6	44.2	337	Lower Saprolite	9	538
RRMDD356	0.00	1.24	1.24	96.4	234.0	19.9	70.1	11.8	2.0	9.1	1.5	9.2	1.8	5.5	0.9	5.8	0.8	55.0	524	Soil		
RRMDD356	1.24	2.48	1.24	97.9	269.0	18.9	63.9	10.3	1.7	8.0	1.3	7.9	1.5	4.6	0.7	4.9	0.7	45.8	537	Hardcap		
RRMDD356	2.48	3.31	0.83	107.1	291.1	20.6	65.8	10.9	1.9	8.1	1.3	7.7	1.5	4.7	0.7	4.6	0.7	46.2	573	Transition		
RRMDD356	3.31	4.10	0.79	155.4	208.8	34.3	116.1	19.1	3.3	14.4	2.2	12.1	2.4	6.9	1.0	6.4	1.0	75.8	659	Clay		
RRMDD356	4.10	4.88	0.78	220.5	271.5	54.1	183.1	30.7	5.2	20.6	3.0	16.2	3.1	8.4	1.2	7.6	1.1	95.0	921	Clay		
RRMDD356	4.88	5.55	0.67	192.3	291.1	44.0	158.0	29.5	5.6	24.1	3.5	19.2	3.7	9.8	1.3	8.3	1.2	109.7	902	Upper Saprolite		
RRMDD356	5.55	6.40	0.85	87.6	207.0	20.4	70.8	13.0	2.5	10.6	1.6	8.9	1.8	4.7	0.7	3.9	0.6	58.2	492	Lower Saprolite	3	732
RRMDD357	0.00	1.42	1.42	93.2	219.9	19.0	67.0	11.7	1.8	8.9	1.4	9.0	1.7	5.1	0.8	5.9	0.9	49.5	496	Soil		
RRMDD357	1.42	2.85	1.43	86.4	320.6	17.3	60.3	9.9	1.5	7.6	1.2	7.5	1.4	4.5	0.7	5.1	0.7	42.4	567	Hardcap		
RRMDD357	2.85	3.40	0.55	73.8	239.5	15.2	48.8	8.6	1.5	6.6	1.1	6.3	1.3	3.9	0.6	4.0	0.6	36.4	448	Transition		
RRMDD357	3.40	4.32	0.92	101.3	120.9	23.3	77.4	13.6	2.4	10.2	1.6	9.4	1.9	5.6	0.9	5.7	0.9	56.3	431	Clay		
RRMDD357	4.32	5.24	0.92	124.9	136.4	28.9	95.4	16.4	2.8	11.1	1.7	9.5	1.8	5.3	0.8	5.4	0.8	51.6	493	Clay		
RRMDD357	5.24	6.17	0.93	144.3	202.7	33.0	109.4	18.3	3.1	12.2	1.8	10.1	1.9	5.4	0.8	5.3	0.8	52.7	602	Clay		
RRMDD357	6.17	7.03	0.86	151.3	240.8	34.2	112.6	18.3	3.1	12.0	1.8	9.6	1.8	5.1	0.7	5.0	0.8	52.4	649	Clay		
RRMDD357	7.03	7.90	0.87	146.0	244.5	33.5	111.5	18.9	3.2	12.6	1.8	9.8	1.8	5.2	0.7	5.1	0.8	53.2	649	Clay		
RRMDD357	7.90	8.90	1.00	66.3	123.5	16.3	60.1	11.0	2.4	9.9	1.4	8.5	1.7	4.7	0.7	4.4	0.6	54.9	366	Lower Saprolite	6	527
RRMDD357	8.90	9.90	1.00	81.5	192.2	17.9	58.4	10.4	1.9	8.2	1.2	6.5	1.3	3.8	0.6	3.6	0.6	40.8	429	Saprock		
RRMDD357	9.90	10.90	1.00	74.1	160.9	17.6	60.1	11.4	2.2	8.9	1.3	7.2	1.4	3.9	0.6	3.5	0.6	40.9	395	Saprock		

Hole ID	From m	To m	Int. m	La_2O_3 ppm	CeO_2 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	>200ppm TREO-CeO_2 Interval Length (m)	>200ppm TREO-CeO_2 Interval TREO ppm
RRMDD358	0.00	2.10	2.10	78.8	465.6	14.9	50.5	8.4	1.4	6.3	1.1	6.9	1.3	4.1	0.7	4.9	0.6	37.5	683	Hardcap		
RRMDD358	2.10	3.11	1.01	91.8	382.0	16.4	50.2	9.1	1.5	7.0	1.2	7.3	1.5	4.5	0.7	4.8	0.7	39.7	619	Transition		
RRMDD358	3.11	3.96	0.85	174.7	320.6	26.7	80.5	13.7	2.3	10.4	1.7	9.8	1.9	5.5	0.8	5.5	0.8	52.1	707	Clay		
RRMDD358	3.96	4.82	0.86	73.4	101.2	14.3	45.4	8.0	1.4	6.9	1.1	6.9	1.4	4.4	0.7	4.6	0.7	43.6	314	Clay		
RRMDD358	4.82	5.67	0.85	92.8	143.1	16.6	52.1	9.1	1.5	7.6	1.2	7.8	1.6	4.9	0.8	4.9	0.8	47.1	392	Clay		
RRMDD358	5.67	6.64	0.97	68.5	103.2	14.3	46.5	8.3	1.4	7.0	1.1	6.8	1.4	4.4	0.7	4.6	0.7	42.9	312	Clay		
RRMDD358	6.64	7.62	0.98	188.8	173.8	40.6	137.1	23.9	4.2	20.9	3.0	17.5	3.5	9.9	1.3	8.7	1.3	113.9	748	Clay		
RRMDD358	7.62	8.59	0.97	162.4	155.4	34.3	114.7	20.4	3.6	17.8	2.5	15.3	3.1	8.8	1.2	7.6	1.1	100.8	649	Clay		
RRMDD358	8.59	9.36	0.77	322.5	188.6	67.9	231.5	41.0	7.4	37.0	5.4	32.5	6.5	18.6	2.4	15.0	2.2	226.0	1205	Clay		
RRMDD358	9.36	10.15	0.79	293.2	504.9	62.0	209.4	37.7	6.9	33.9	5.0	28.9	5.8	16.4	2.2	13.6	2.0	193.7	1415	Clay		
RRMDD358	10.15	10.92	0.77	274.4	261.6	57.6	201.2	35.9	6.5	32.4	4.6	27.0	5.4	15.0	2.0	12.3	1.8	182.2	1120	Clay		
RRMDD358	10.92	11.87	0.95	201.7	250.6	45.4	152.8	27.5	5.0	21.6	3.0	17.0	3.2	9.0	1.2	7.6	1.1	99.4	846	Clay		
RRMDD358	11.87	12.82	0.95	146.0	225.4	33.0	110.0	19.8	3.6	14.8	2.1	11.1	2.1	5.8	0.8	5.2	0.8	61.6	642	Clay		
RRMDD358	12.82	13.77	0.95	157.2	243.2	36.4	117.8	21.0	3.8	15.7	2.2	12.1	2.3	6.3	0.9	5.8	0.9	66.8	692	Clay		
RRMDD358	13.77	14.72	0.95	139.6	217.4	31.9	104.9	18.9	3.3	13.8	1.9	10.6	2.0	5.5	0.8	5.0	0.8	57.9	614	Clay		
RRMDD358	14.72	15.67	0.95	140.7	220.5	31.7	105.6	19.0	3.4	14.1	2.0	10.8	2.0	5.7	0.8	5.3	0.8	60.7	623	Clay		
RRMDD358	15.67	16.62	0.95	110.5	275.2	24.5	79.3	14.0	2.6	10.3	1.5	7.8	1.4	3.9	0.6	3.7	0.6	38.6	574	Clay		
RRMDD358	16.62	17.72	1.10	78.7	164.0	16.7	55.1	10.1	1.8	7.4	1.0	5.8	1.1	3.0	0.5	3.1	0.4	27.9	377	Clay	15	683
RRMDD358	17.72	18.64	0.92	45.7	75.5	10.6	35.5	6.6	1.3	4.8	0.8	4.4	0.8	2.6	0.4	2.5	0.4	24.1	216	Upper Saprolite		
RRMDD358	18.64	19.55	0.91	41.3	66.6	10.5	37.6	7.6	1.7	7.4	1.2	7.3	1.6	5.0	0.7	4.1	0.6	57.5	250	Upper Saprolite		
RRMDD358	19.55	20.40	0.85	36.0	60.7	9.7	35.7	7.5	1.5	6.5	1.0	6.3	1.3	3.6	0.5	3.0	0.5	45.1	219	Lower Saprolite		
RRMDD359	0.00	1.48	1.48	42.9	111.3	9.4	33.7	6.1	0.9	4.7	0.8	4.9	0.9	3.1	0.5	3.5	0.5	26.0	249	Hardcap		
RRMDD359	1.48	2.98	1.50	46.6	577.3	10.3	36.2	6.9	1.0	4.6	0.8	5.2	0.9	3.0	0.5	3.4	0.5	25.3	722	Transition		
RRMDD359	2.98	3.85	0.87	45.0	101.6	9.4	31.1	5.7	1.0	5.1	0.9	5.8	1.3	4.0	0.6	4.3	0.7	38.7	255	Mottled		
RRMDD359	3.85	4.75	0.90	84.8	127.8	20.6	67.9	11.8	2.0	9.2	1.4	8.4	1.7	5.1	0.7	5.0	0.8	53.7	401	Mottled		
RRMDD359	4.75	5.52	0.77	115.9	183.6	30.8	103.2	16.5	2.8	11.5	1.7	9.5	1.9	5.3	0.8	5.0	0.7	57.3	547	Clay		
RRMDD359	5.52	6.30	0.78	403.4	395.5	71.3	230.9	36.2	6.3	24.8	3.4	17.4	3.0	7.6	1.0	6.4	0.9	84.8	1293	Clay		
RRMDD359	6.30	7.07	0.77	196.4	285.0	51.0	174.4	27.7	4.7	19.5	2.8	14.8	2.7	7.6	1.0	6.6	0.9	81.8	877	Clay		
RRMDD359	7.07	8.13	1.06	261.5	383.3	68.1	232.7	36.4	6.1	24.3	3.4	18.5	3.3	8.9	1.2	7.5	1.0	99.8	1156	Clay		
RRMDD359	8.13	9.19	1.06	201.1	294.8	50.9	175.5	28.1	4.9	19.9	2.8	15.4	2.9	7.8	1.1	6.7	0.9	88.9	902	Clay		
RRMDD359	9.19	10.26	1.07	171.2	244.5	41.7	145.2	24.1	4.1	16.9	2.4	13.0	2.5	6.9	0.9	6.0	0.9	74.8	755	Clay		
RRMDD359	10.26	11.18	0.92	178.9	242.6	43.9	158.6	26.9	4.7	19.2	2.8	15.1	2.9	8.1	1.1	6.6	1.0	87.9	800	Clay		
RRMDD359	11.18	12.10	0.92	180.0	250.6	44.6	159.8	27.5	4.8	19.9	3.0	16.8	3.2	9.3	1.2	7.7	1.1	107.4	837	Clay		
RRMDD359	12.10	12.75	0.65	252.2	384.5	61.0	216.4	37.2	6.4	26.5	3.9	20.8	3.7	10.0	1.4	8.4	1.2	101.7	1135	Clay		
RRMDD359	12.75	13.40	0.65	132.5	216.2	29.6	110.3	19.1	3.6	15.7	2.3	12.3	2.3	6.6	0.9	5.8	0.9	66.5	625	Clay		
RRMDD359	13.40	14.55	1.15	104.6	192.9	21.8	78.8	13.6	2.6	13.3	2.0	11.6	2.4	7.3	1.0	6.2	0.9	80.1	539	Upper Saprolite		
RRMDD359	14.55	15.70	1.15	134.3	223.6	24.8	92.1	15.4	3.1	16.7	2.5	15.6	3.5	10.3	1.4	8.4	1.3	146.7	700	Upper Saprolite	12	804
RRMDD360	0.00	1.60	1.60	48.6	209.4	9.2	31.5	5.6	0.9	4.3	0.7	4.8	0.9	2.9	0.5	3.5	0.5	25.9	349	Hardcap		
RRMDD360	1.60	3.20	1.60	45.0	442.2	9.4	31.3	5.9	0.9	4.0	0.7	4.6	0.9	2.9	0.5	3.6	0.5	24.4	577	Hardcap		
RRMDD360	3.20	4.80	1.60	62.6	925.0	13.9	44.7	8.2	1.4	5.7	1.0	5.6	1.1	3.5	0.6	4.0	0.6	30.2	1108	Hardcap		
RRMDD360	4.80	5.76	0.96	59.6	287.4	11.7	39.7	6.6	1.1	4.8	0.8	4.8	1.0	3.0	0.5	3.1	0.5	26.8	451	Transition		
RRMDD360	5.76	6.53	0.77	46.0	119.6	9.0	30.7	5.3	0.9	4.5	0.8	5.0	1.1	3.5	0.5	3.7	0.6	34.5	266	Mottled		
RRMDD360	6.53	7.30	0.77	36.1	38.8	6.9	23.3	4.0	0.7	3.7	0.6	4.3	0.9	3.1	0.5	3.5	0.6	29.5	156	Mottled		

																					>200ppm TREO-CeO_2 Interval	
Hole ID	From m	To m	Int. m	La_2O_3 ppm	CeO_2 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
RRMDD360	7.30	8.05	0.75	471.5	432.4	58.6	167.4	22.2	3.7	14.0	1.8	8.9	1.5	4.0	0.6	3.8	0.6	39.4	1230	Mottled		
RRMDD360	8.05	9.06	1.01	90.7	135.7	20.5	68.4	11.4	1.9	7.7	1.2	6.6	1.3	4.1	0.6	4.0	0.6	41.0	396	Clay		
RRMDD360	9.06	9.89	0.83	94.4	138.8	22.5	78.1	13.0	2.2	9.7	1.4	7.8	1.6	4.7	0.7	4.4	0.7	49.1	429	Clay		
RRMDD360	9.89	10.76	0.87	99.1	152.3	24.5	84.7	13.9	2.4	9.8	1.4	8.1	1.6	4.7	0.7	4.6	0.7	48.6	457	Clay		
RRMDD360	10.76	11.63	0.87	101.4	285.0	23.9	84.2	13.6	2.2	9.6	1.4	8.1	1.6	4.7	0.7	4.6	0.7	49.1	591	Clay		
RRMDD360	11.63	12.39	0.76	565.3	780.0	202.4	689.3	120.0	19.8	73.5	10.4	54.2	9.4	24.9	3.2	18.3	2.5	276.8	2850	Clay		
RRMDD360	12.39	13.15	0.76	448.0	567.5	145.0	481.7	81.5	13.4	49.1	6.8	35.1	5.9	15.3	1.9	11.2	1.5	183.5	2048	Clay		
RRMDD360	13.15	13.90	0.75	238.1	358.7	61.9	211.1	35.1	5.9	22.7	3.2	17.3	3.1	8.6	1.1	6.8	1.0	96.3	1071	Clay		
RRMDD360	13.90	14.71	0.81	259.2	449.6	70.9	247.3	40.9	6.8	25.2	3.5	18.0	3.1	8.1	1.1	6.9	0.9	80.1	1222	Upper Saprolite		
RRMDD360	14.71	15.52	0.81	224.6	409.1	59.2	208.2	35.3	5.7	21.8	3.1	16.6	2.9	7.7	1.1	6.5	0.9	79.2	1082	Upper Saprolite		
RRMDD360	15.52	16.33	0.81	138.4	207.0	33.2	118.4	19.8	3.4	14.5	2.1	12.2	2.3	6.7	0.9	5.9	0.9	67.4	633	Upper Saprolite		
RRMDD360	16.33	17.14	0.81	199.4	221.1	45.3	170.3	30.6	5.6	25.5	3.7	20.9	4.0	11.3	1.5	9.2	1.3	125.8	875	Upper Saprolite		
RRMDD360	17.14	17.97	0.83	392.9	351.3	78.3	319.6	57.9	11.8	62.4	9.6	56.4	11.3	32.5	4.4	27.1	4.0	368.3	1788	Lower Saprolite		
RRMDD360	17.97	18.80	0.83	259.2	248.1	41.2	162.7	28.4	5.7	31.4	4.2	24.2	4.9	13.4	1.7	9.9	1.5	168.3	1005	Lower Saprolite		
RRMDD360	18.80	19.63	0.83	126.7	181.8	22.4	81.8	13.6	2.7	13.7	2.0	11.5	2.4	7.3	1.0	6.0	1.0	95.4	569	Lower Saprolite	12	1054
RRMDD360	19.63	20.40	0.77	91.2	205.1	19.7	71.2	12.4	2.4	9.9	1.4	8.1	1.6	4.8	0.7	4.2	0.7	61.2	495	Saprock		
RRMDD360	20.40	21.20	0.80	77.5	184.9	17.8	62.9	11.0	2.1	8.2	1.2	6.6	1.2	3.6	0.5	3.6	0.5	39.2	421	Saprock		
RRMDD361	0.00	2.37	2.37	148.4	980.3	23.3	72.0	11.8	1.9	8.3	1.4	7.8	1.5	4.7	0.7	4.7	0.7	40.4	1308	Hardcap		
RRMDD361	2.37	3.26	0.89	335.4	232.8	70.3	243.8	39.0	6.8	31.2	4.3	25.0	4.9	13.8	1.9	11.1	1.7	164.5	1186	Mottled		
RRMDD361	3.26	4.15	0.89	295.5	305.9	75.3	264.8	44.2	7.4	33.3	4.9	27.5	5.4	15.4	2.1	12.4	1.8	182.2	1278	Clay		
RRMDD361	4.15	5.04	0.89	348.3	525.8	98.3	356.9	59.3	10.1	45.0	6.5	37.3	7.4	20.7	2.7	16.5	2.4	262.9	1800	Clay		
RRMDD361	5.04	5.99	0.95	455.0	434.9	94.7	320.8	55.0	9.5	47.1	6.6	35.5	7.1	19.8	2.7	15.5	2.3	250.8	1757	Clay		
RRMDD361	5.99	6.94	0.95	343.6	313.2	84.5	289.3	49.1	8.6	39.8	5.5	29.0	5.6	15.4	2.1	12.4	1.9	194.9	1395	Clay		
RRMDD361	6.94	7.94	1.00	255.7	444.7	67.5	236.8	42.3	7.1	33.4	5.0	27.5	5.5	15.3	2.2	12.9	1.8	181.0	1339	Upper Saprolite	6	1459
RRMDD361	7.94	8.50	0.56	194.7	280.1	52.0	177.3	30.6	4.8	20.2	2.7	13.3	2.4	6.5	0.9	5.6	0.8	66.4	858	Lower Saprolite		
RRMDD362	0.00	1.20	1.20	84.4	207.0	17.7	57.4	10.5	1.7	7.6	1.2	7.5	1.5	4.5	0.7	5.1	0.7	42.3	450	Hardcap		
RRMDD362	1.20	2.40	1.20	64.3	346.4	13.8	44.3	8.3	1.4	5.9	1.0	6.0	1.2	3.6	0.6	4.2	0.6	28.2	530	Transition		
RRMDD362	2.40	3.39	0.99	92.4	239.5	19.6	65.9	11.1	2.0	10.2	1.6	9.0	1.9	5.6	0.9	5.7	0.9	58.8	525	Clay		
RRMDD362	3.39	4.37	0.98	100.4	223.6	23.8	80.7	14.2	2.4	11.6	1.8	10.3	2.1	6.3	1.0	6.3	0.9	65.5	551	Clay		
RRMDD362	4.37	5.36	0.99	198.8	312.0	46.4	155.1	26.6	4.4	19.8	2.8	15.3	3.0	8.4	1.2	7.8	1.1	95.8	898	Clay		
RRMDD362	5.36	6.34	0.98	209.3	289.9	48.2	161.5	28.1	4.6	21.2	3.1	16.9	3.3	9.5	1.4	8.5	1.2	106.5	913	Clay		
RRMDD362	6.34	7.33	0.99	192.9	223.0	46.2	151.0	25.7	4.2	19.4	2.7	14.6	2.8	8.1	1.2	7.5	1.1	91.4	792	Clay		
RRMDD362	7.33	8.31	0.98	200.0	250.6	48.0	165.0	27.1	4.5	19.0	2.7	15.8	3.0	8.4	1.2	7.5	1.1	94.6	848	Clay		
RRMDD362	8.31	9.30	0.99	223.4	344.0	51.1	176.7	29.0	4.8	21.2	3.0	17.1	3.4	9.4	1.3	8.2	1.2	109.0	1003	Clay		
RRMDD362	9.30	10.28	0.98	191.8	216.2	44.1	154.0	25.3	4.1	17.6	2.6	14.6	2.8	7.8	1.2	7.2	1.0	90.2	780	Clay		
RRMDD362	10.28	11.27	0.99	228.1	270.2	53.8	180.8	29.3	4.8	20.4	3.0	17.2	3.2	9.1	1.3	8.3	1.2	107.4	938	Clay		
RRMDD362	11.27	12.25	0.98	242.8	260.4	64.2	215.8	35.1	5.6	21.7	3.1	17.1	3.1	8.3	1.2	7.3	1.1	93.6	980	Clay		
RRMDD362	12.25	13.20	0.95	235.7	283.8	64.5	217.5	36.2	5.5	20.3	2.8	14.7	2.5	6.9	1.0	6.0	0.9	71.5	970	Clay		
RRMDD362	13.20	14.14	0.94	146.6	187.9	33.3	115.2	19.3	3.2	13.7	2.0	11.8	2.3	6.7	0.9	5.8	0.9	77.5	627	Clay		
RRMDD362	14.14	15.08	0.94	159.5	202.1	35.6	124.8	20.8	3.6	15.6	2.4	13.6	2.6	7.5	1.1	6.7	1.0	89.1	686	Clay		
RRMDD362	15.08	16.02	0.94	418.7	402.9	96.9	349.9	64.6	11.8	48.5	7.2	39.7	7.2	19.4	2.6	15.2	2.1	224.8	1711	Clay		
RRMDD362	16.02	16.96	0.94	194.1	229.7	39.5	141.1	23.9	4.7	24.2	3.7	21.4	4.6	12.5	1.8	10.2	1.5	164.5	877	Clay		
RRMDD362	16.96	17.90	0.94	202.9	261.6	42.6	152.2	25.6	4.8	23.7	3.5	20.0	4.1	11.7	1.6	9.3	1.4	146.0	911	Clay		

																					>200ppm TREO-CeO_2 Interval	
Hole ID	From m	To m	Int. m	La_2O_3 ppm	CeO_2 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
RRMDD362	17.90	18.85	0.95	182.4	297.3	39.6	142.9	25.4	4.6	20.5	2.9	15.3	2.9	7.5	1.1	6.1	0.9	82.3	832	Clay		
RRMDD362	18.85	19.79	0.94	157.2	321.8	38.7	145.8	27.8	5.3	25.4	3.9	22.3	4.3	11.3	1.5	8.4	1.2	137.8	913	Clay		
RRMDD362	19.79	20.74	0.95	140.7	281.3	28.8	101.4	17.0	3.0	13.8	2.0	10.7	2.1	5.5	0.8	4.9	0.8	58.9	672	Clay		
RRMDD362	20.74	21.63	0.89	110.4	227.3	23.7	79.2	13.1	2.2	9.9	1.4	7.6	1.5	4.2	0.6	3.8	0.6	44.8	530	Upper Saprolite		
RRMDD362	21.63	22.62	0.99	102.3	232.2	22.5	73.9	11.8	2.0	8.9	1.2	6.9	1.4	4.1	0.6	3.9	0.6	43.0	515	Upper Saprolite		
RRMDD362	22.62	23.60	0.98	134.3	294.8	28.6	95.8	15.5	2.7	12.0	1.7	9.4	1.9	5.1	0.7	4.4	0.7	59.1	667	Upper Saprolite		
RRMDD362	23.60	24.50	0.90	92.1	210.7	20.1	65.9	10.1	1.7	6.8	1.0	5.2	1.1	3.2	0.5	3.3	0.5	33.5	456	Upper Saprolite		
RRMDD362	24.50	25.41	0.91	59.2	122.5	14.1	49.0	8.4	1.5	5.6	0.8	4.4	0.8	2.2	0.3	2.1	0.3	22.7	294	Upper Saprolite		
RRMDD362	25.41	26.41	1.00	91.2	243.8	21.6	76.0	13.3	2.4	10.9	1.6	8.7	1.8	4.9	0.7	4.0	0.6	60.7	542	Lower Saprolite	24	779
RRMDD363	0.00	1.25	1.25	56.1	820.6	11.3	36.0	7.1	1.1	5.2	0.9	5.1	1.0	3.2	0.5	3.7	0.5	29.6	982	Hardcap		
RRMDD363	1.25	2.50	1.25	52.7	1480.2	10.8	35.2	6.7	1.1	4.8	0.9	4.8	1.0	3.0	0.5	3.4	0.5	25.7	1631	Hardcap		
RRMDD363	2.50	3.33	0.83	107.0	611.7	21.6	70.7	11.6	1.8	9.0	1.5	8.4	1.7	5.2	0.8	5.4	0.8	54.5	912	Transition		
RRMDD363	3.33	4.18	0.85	113.9	340.3	22.7	73.7	12.1	1.9	9.6	1.5	8.7	1.8	5.6	0.9	5.6	0.9	57.9	657	Clay		
RRMDD363	4.18	5.03	0.85	95.3	192.2	20.2	66.3	11.1	1.7	8.6	1.4	8.1	1.7	5.2	0.8	5.4	0.9	55.2	474	Clay		
RRMDD363	5.03	5.88	0.85	83.2	104.7	18.2	59.7	10.0	1.7	8.3	1.3	7.9	1.7	5.3	0.9	5.7	0.9	54.2	364	Clay		
RRMDD363	5.88	6.73	0.85	63.4	153.6	14.3	47.2	8.0	1.3	6.2	1.0	5.5	1.2	3.7	0.6	3.9	0.6	38.6	349	Clay		
RRMDD363	6.73	7.64	0.91	184.1	248.1	42.5	142.9	23.4	3.7	15.8	2.2	11.8	2.3	7.0	1.0	6.4	1.0	72.9	765	Clay		
RRMDD363	7.64	8.55	0.91	221.1	260.4	52.2	172.0	28.1	4.3	19.0	2.5	13.2	2.5	7.2	1.0	6.4	0.9	77.8	869	Clay		
RRMDD363	8.55	9.38	0.83	195.9	316.9	44.3	145.8	24.4	3.8	17.8	2.5	12.7	2.5	7.0	1.0	6.1	0.9	76.3	858	Clay		
RRMDD363	9.38	10.21	0.83	222.8	248.1	48.9	161.0	26.6	4.2	19.3	2.7	14.2	2.6	7.5	1.1	6.6	1.0	86.4	853	Clay		
RRMDD363	10.21	11.10	0.89	248.6	258.0	52.9	177.3	29.8	4.8	22.0	3.0	16.1	3.0	8.6	1.2	7.5	1.1	98.5	933	Clay		
RRMDD363	11.10	12.00	0.90	443.3	345.2	101.6	331.3	53.7	8.2	36.5	4.9	25.5	4.7	12.6	1.7	10.0	1.5	146.7	1527	Clay		
RRMDD363	12.00	12.89	0.89	391.7	297.3	88.9	292.8	46.6	7.3	32.6	4.3	22.8	4.2	11.7	1.6	9.4	1.4	134.6	1347	Clay		
RRMDD363	12.89	13.78	0.89	390.5	319.4	88.4	291.6	47.9	7.4	32.8	4.5	22.7	4.1	10.9	1.6	9.1	1.3	126.1	1359	Clay		
RRMDD363	13.78	14.84	1.06	355.4	1351.2	85.1	293.9	48.8	7.8	36.3	5.2	26.3	4.6	11.7	1.5	8.4	1.1	123.6	2361	Upper Saprolite		
RRMDD363	14.84	15.90	1.06	116.0	109.0	25.7	85.3	13.9	2.2	10.1	1.4	7.1	1.3	3.7	0.5	3.4	0.5	38.0	418	Upper Saprolite		
RRMDD363	15.90	16.68	0.78	261.5	304.6	56.4	184.9	29.8	4.7	19.2	2.6	12.6	2.2	5.9	0.8	4.9	0.7	61.7	953	Upper Saprolite		
RRMDD363	16.68	17.45	0.77	180.6	221.7	39.5	133.0	22.6	3.9	19.4	2.9	16.7	3.5	10.4	1.4	8.8	1.3	125.8	792	Upper Saprolite		
RRMDD363	17.45	18.18	0.73	169.5	213.7	35.5	119.6	20.2	3.4	16.1	2.2	12.3	2.5	7.1	1.0	6.0	0.9	85.8	696	Upper Saprolite		
RRMDD363	18.18	18.94	0.76	220.5	260.4	48.8	175.5	34.3	6.7	36.5	5.9	35.8	7.6	22.4	3.1	17.9	2.7	292.1	1170	Lower Saprolite		
RRMDD363	18.94	19.70	0.76	415.2	310.8	62.2	215.8	39.1	6.9	31.1	4.3	21.3	3.7	9.3	1.3	7.3	1.0	98.3	1228	Lower Saprolite	16	960
RRMDD364	0.00	1.90	1.90	71.0	345.2	14.6	52.0	8.4	1.6	7.3	1.2	6.7	1.3	4.2	0.7	4.4	0.6	40.0	559	Hardcap		
RRMDD364	1.90	2.90	1.00	114.1	294.8	23.2	78.0	13.2	2.3	10.4	1.6	8.8	1.7	4.8	0.7	4.5	0.7	51.6	611	Mottled		
RRMDD364	2.90	3.90	1.00	86.8	107.9	18.5	63.5	11.0	2.0	8.9	1.4	8.2	1.7	4.9	0.7	4.7	0.7	53.5	374	Mottled		
RRMDD364	3.90	4.90	1.00	84.7	109.2	18.7	64.3	11.1	2.0	9.6	1.5	8.8	1.8	5.2	0.8	4.9	0.8	59.3	383	Mottled		
RRMDD364	4.90	5.90	1.00	123.1	214.4	27.2	94.5	16.1	2.8	13.0	1.9	11.2	2.3	6.5	1.0	6.1	0.9	79.2	600	Mottled		
RRMDD364	5.90	6.88	0.98	166.0	266.6	38.4	135.3	22.8	4.2	19.2	2.9	16.4	3.5	9.5	1.3	8.1	1.2	120.6	816	Clay		
RRMDD364	6.88	7.86	0.98	151.3	180.6	34.8	122.5	21.2	4.0	18.2	2.7	15.4	3.1	8.5	1.2	7.2	1.1	105.9	678	Clay		
RRMDD364	7.86	8.83	0.97	160.1	211.3	39.1	140.0	23.8	4.2	19.1	2.8	16.4	3.3	9.0	1.3	7.8	1.2	115.3	755	Clay		
RRMDD364	8.83	9.81	0.98	124.9	120.9	30.0	107.0	18.6	3.5	16.1	2.4	14.0	2.9	8.3	1.2	6.8	1.1	102.5	560	Clay		
RRMDD364	9.81	10.98	1.17	93.6	99.7	22.7	80.8	13.6	2.6	12.5	1.9	10.9	2.3	6.7	0.9	5.6	0.9	83.7	438	Sand		
RRMDD364	10.98	11.98	1.00	82.9	120.4	21.7	75.5	13.4	2.4	11.7	1.8	10.4	2.2	6.1	0.8	5.1	0.8	71.2	426	Sand	10	561
RRMDD364	11.98	13.07	1.09	24.2	37.8	6.4	22.4	4.1	0.7	3.3	0.5	3.3	0.7	2.2	0.3	2.1	0.3	23.6	132	Sand		

Hole ID	From m	To m	Int. m	La_2O_3 ppm	CeO_2 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	>200ppm TREO-CeO_2 Interval Length (m)	>200ppm TREO-CeO_2 Interval TREO ppm
RRMDD364	13.07	14.16	1.09	8.2	11.8	2.1	6.9	1.3	0.2	1.0	0.2	1.2	0.3	1.0	0.2	1.1	0.2	9.1	45	Sand		
RRMDD364	14.16	15.24	1.08	5.7	9.3	1.4	4.7	0.9	0.2	0.8	0.1	1.0	0.2	0.8	0.1	1.0	0.1	7.2	34	Sand		
RRMDD364	15.24	16.33	1.09	10.6	27.9	2.7	9.2	1.8	0.3	1.4	0.2	1.5	0.3	1.0	0.2	1.2	0.2	10.0	69	Sand		
RRMDD364	16.33	17.41	1.08	37.5	94.6	10.1	34.9	6.4	1.2	4.6	0.7	3.8	0.8	2.2	0.3	2.0	0.3	23.2	223	Sand		
RRMDD364	17.41	18.50	1.09	19.8	32.6	5.1	17.4	3.2	0.6	2.6	0.4	2.3	0.5	1.4	0.2	1.5	0.3	14.3	102	Sand		
RRMDD364	18.50	19.74	1.24	23.0	38.1	5.7	19.2	3.5	0.7	2.7	0.4	2.3	0.5	1.4	0.2	1.4	0.2	14.3	114	Sand		
RRMDD364	19.74	20.98	1.24	28.0	43.4	7.1	24.5	4.5	0.9	3.4	0.5	3.0	0.6	1.6	0.3	1.7	0.3	17.1	137	Sand		
RRMDD364	20.98	22.22	1.24	10.2	13.5	2.6	9.0	1.7	0.3	1.3	0.2	1.2	0.2	0.8	0.1	0.8	0.1	7.1	49	Upper Saprolite		
RRMDD364	22.22	23.46	1.24	11.0	15.0	2.6	9.0	1.6	0.3	1.1	0.2	1.1	0.2	0.7	0.1	0.8	0.1	7.0	51	Upper Saprolite		
RRMDD364	23.46	24.68	1.22	48.3	85.6	11.2	37.7	6.8	1.2	4.6	0.7	3.7	0.7	1.9	0.3	1.9	0.3	19.2	224	Lower Saprolite		
RRMDD364	24.68	25.90	1.22	47.5	92.3	11.7	40.7	7.8	1.5	6.4	1.0	5.9	1.2	3.2	0.5	2.9	0.4	37.3	260	Lower Saprolite		
RRMDD365	0.00	2.52	2.52	63.7	108.8	12.4	43.5	7.5	1.3	6.3	1.0	6.7	1.4	4.7	0.7	5.6	0.9	45.1	309	Soil		
RRMDD365	2.52	3.47	0.95	212.9	245.1	39.9	124.8	20.2	3.1	13.9	2.0	11.2	2.1	6.0	0.8	5.3	0.8	59.3	747	Clay		
RRMDD365	3.47	4.43	0.96	161.3	266.6	42.3	141.1	23.9	3.8	16.9	2.4	13.9	2.7	7.4	1.0	6.2	0.9	83.8	774	Clay		
RRMDD365	4.43	5.42	0.99	129.0	216.8	28.8	95.6	16.2	2.7	12.3	1.8	10.2	2.1	5.8	0.8	5.2	0.8	61.7	590	Clay		
RRMDD365	5.42	6.22	0.80	148.4	256.7	34.9	119.0	20.2	3.4	15.0	2.2	12.4	2.4	6.5	0.9	5.5	0.8	66.7	695	Upper Saprolite		
RRMDD365	6.22	7.03	0.81	235.7	431.2	52.6	179.0	29.8	5.1	21.9	3.1	16.9	3.1	7.9	1.1	6.2	0.9	86.1	1081	Upper Saprolite		
RRMDD365	7.03	7.83	0.80	107.8	199.6	23.1	80.8	14.3	2.5	11.5	1.6	9.4	1.8	5.1	0.7	4.3	0.7	57.4	521	Upper Saprolite		
RRMDD365	7.83	8.63	0.80	93.2	172.6	19.8	67.8	11.8	2.0	9.8	1.4	8.3	1.7	5.0	0.7	4.2	0.7	56.9	456	Upper Saprolite		
RRMDD365	8.63	9.51	0.88	134.3	264.1	27.7	93.2	15.4	2.7	12.7	1.9	10.6	2.1	5.8	0.8	4.8	0.7	69.2	646	Upper Saprolite		
RRMDD365	9.51	10.35	0.84	113.2	235.2	24.5	87.4	16.1	3.0	13.7	2.0	11.8	2.3	6.4	0.9	5.2	0.8	78.0	600	Upper Saprolite		
RRMDD365	10.35	11.14	0.79	80.9	205.1	17.8	58.2	10.4	1.9	8.3	1.2	7.3	1.5	4.3	0.6	3.8	0.6	54.5	456	Lower Saprolite		
RRMDD365	11.14	11.93	0.79	77.1	191.0	16.4	51.9	8.8	1.5	6.4	0.9	5.2	1.0	3.0	0.4	2.8	0.5	37.0	404	Lower Saprolite		
RRMDD365	11.93	12.83	0.90	56.1	107.5	12.0	38.1	6.5	1.1	4.4	0.7	4.0	0.8	2.6	0.4	2.7	0.4	25.9	263	Lower Saprolite		
RRMDD365	12.83	13.83	1.00	126.7	278.8	34.1	126.0	24.1	4.6	19.5	2.9	17.2	3.3	9.1	1.2	7.2	1.0	102.5	758	Lower Saprolite	11	619
RRMDD365	13.83	14.40	0.57	66.8	160.9	14.7	47.0	7.9	1.4	5.7	0.8	4.9	1.0	3.0	0.4	2.8	0.5	29.2	347	Saprock		
RRMDD366	0.00	1.41	1.41	55.7	188.6	11.7	40.9	7.4	1.3	6.4	1.1	6.4	1.2	3.7	0.5	4.1	0.6	34.5	364	Hardcap		
RRMDD366	1.41	2.83	1.42	31.7	109.6	6.2	21.6	3.8	0.6	3.3	0.6	3.5	0.7	2.3	0.3	2.6	0.4	21.0	208	Hardcap		
RRMDD366	2.83	4.23	1.40	45.0	264.1	9.6	34.3	5.8	1.0	4.8	0.8	4.8	1.0	3.0	0.5	3.3	0.5	29.1	408	Hardcap		
RRMDD366	4.23	5.46	1.23	64.2	1097.0	15.0	49.0	8.9	1.5	6.9	1.2	6.8	1.4	4.1	0.7	4.2	0.7	37.5	1299	Transition		
RRMDD366	5.46	6.29	0.83	144.8	153.6	26.8	86.7	14.8	2.5	11.5	1.7	9.8	2.0	5.7	0.8	5.2	0.8	59.2	526	Clay		
RRMDD366	6.29	7.12	0.83	126.7	173.8	24.6	80.0	13.3	2.3	10.5	1.5	8.8	1.8	5.0	0.7	4.5	0.7	52.4	507	Clay		
RRMDD366	7.12	7.95	0.83	123.7	146.8	25.4	84.2	14.4	2.5	11.1	1.6	9.3	1.9	5.6	0.8	5.1	0.8	58.7	492	Clay		
RRMDD366	7.95	8.76	0.81	147.8	88.9	29.2	98.0	16.7	3.1	13.3	2.0	11.2	2.2	6.2	0.8	5.4	0.8	70.4	496	Clay		
RRMDD366	8.76	9.67	0.91	148.4	76.0	28.8	96.9	16.9	3.1	14.2	2.0	11.6	2.3	6.4	0.9	5.6	0.8	74.4	488	Clay		
RRMDD366	9.67	10.57	0.90	158.9	73.0	31.1	105.6	18.2	3.4	15.2	2.2	12.9	2.5	7.2	1.0	6.2	0.9	84.1	522	Clay		
RRMDD366	10.57	11.48	0.91	164.8	154.2	33.6	113.5	19.9	3.8	16.5	2.4	14.3	2.9	8.7	1.3	8.2	1.2	96.6	642	Clay		
RRMDD366	11.48	12.38	0.90	187.1	103.9	37.2	126.6	21.9	4.0	17.6	2.6	14.9	2.9	8.1	1.2	7.3	1.1	95.4	632	Clay		
RRMDD366	12.38	13.41	1.03	171.2	140.0	40.1	137.1	23.9	4.4	18.3	2.6	14.9	2.9	8.4	1.2	7.5	1.1	91.6	665	Clay		
RRMDD366	13.41	14.44	1.03	302.6	169.5	72.4	248.4	43.6	8.0	31.8	4.5	24.2	4.4	11.8	1.5	9.2	1.3	134.0	1067	Clay		
RRMDD366	14.44	15.48	1.04	235.7	177.5	55.3	188.4	32.5	6.0	23.2	3.2	17.2	3.1	8.1	1.1	6.6	0.9	87.8	847	Clay		
RRMDD366	15.48	16.49	1.01	191.8	193.5	45.5	154.5	26.8	4.9	18.5	2.6	14.1	2.6	6.9	0.9	5.8	0.8	73.1	742	Upper Saprolite		
RRMDD366	16.49	17.50	1.01	113.1	104.4	25.3	86.0	14.8	2.8	10.8	1.5	8.2	1.6	4.3	0.6	3.8	0.6	44.3	422	Upper Saprolite	12	629

Hole ID	From m	To m	Int. m	La_2O_3 ppm	CeO_2 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	>200ppm TREO-CeO_2 Interval Length (m)	>200ppm TREO-CeO_2 Interval TREO ppm
RRMDD366	17.50	18.51	1.01	58.1	79.7	13.8	48.4	9.0	1.7	6.7	1.0	5.6	1.0	3.0	0.4	2.8	0.4	31.6	263	Upper Saprolite		
RRMDD366	18.51	19.52	1.01	30.7	41.0	8.2	29.7	5.8	1.2	4.5	0.6	3.6	0.7	1.8	0.3	1.7	0.3	19.0	149	Upper Saprolite		
RRMDD366	19.52	20.35	0.83	34.4	56.5	8.2	27.6	4.9	0.9	3.5	0.5	2.8	0.6	1.7	0.3	1.9	0.3	16.8	161	Upper Saprolite		
RRMDD366	20.35	21.38	1.03	53.1	87.5	12.6	42.1	7.3	1.4	4.8	0.7	3.7	0.7	2.1	0.3	2.3	0.3	21.2	240	Lower Saprolite		
RRMDD366	21.38	22.40	1.02	75.3	137.0	17.5	58.6	10.4	2.0	7.3	1.0	5.4	1.0	2.8	0.4	2.7	0.4	27.3	349	Lower Saprolite		
RRMDD367	0.00	1.75	1.75	78.7	213.7	18.2	66.3	11.3	1.9	9.7	1.5	9.6	1.8	5.6	0.8	5.6	0.8	53.8	479	Hardcap		
RRMDD367	1.75	3.50	1.75	60.3	524.5	13.0	46.1	7.9	1.4	6.3	1.1	6.4	1.2	3.8	0.6	4.0	0.6	33.5	711	Hardcap		
RRMDD367	3.50	4.63	1.13	84.4	1052.7	19.1	64.0	11.5	1.8	8.8	1.5	8.5	1.7	5.0	0.7	4.8	0.7	44.4	1310	Transition		
RRMDD367	4.63	5.76	1.13	74.7	299.7	14.7	48.1	8.4	1.3	6.9	1.1	6.6	1.4	4.0	0.6	3.8	0.6	39.5	511	Clay		
RRMDD367	5.76	6.80	1.04	118.5	256.7	22.4	74.4	12.5	2.0	10.3	1.6	9.9	2.0	6.1	0.9	5.8	0.9	61.0	585	Clay		
RRMDD367	6.80	7.80	1.00	95.3	172.0	19.2	63.7	10.6	1.7	8.8	1.4	8.6	1.8	5.4	0.7	5.0	0.8	53.5	448	Clay		
RRMDD367	7.80	8.87	1.07	78.2	96.2	16.1	53.7	9.0	1.4	7.4	1.1	7.1	1.5	4.4	0.6	4.1	0.6	44.4	326	Clay		
RRMDD367	8.87	9.87	1.00	48.6	104.8	10.1	33.7	5.6	0.9	4.6	0.7	4.5	1.0	3.0	0.4	2.9	0.5	30.1	251	Clay		
RRMDD367	9.87	10.61	0.74	118.5	108.2	22.0	73.0	12.2	2.0	9.8	1.4	8.9	1.8	5.2	0.7	4.6	0.7	56.0	425	Clay		
RRMDD367	10.61	11.48	0.87	126.7	73.5	24.1	80.0	13.3	2.3	10.6	1.6	9.4	1.9	5.4	0.8	4.8	0.7	58.7	414	Clay		
RRMDD367	11.48	12.48	1.00	60.4	143.1	13.4	45.0	7.4	1.2	5.1	0.8	4.3	0.9	2.6	0.4	2.3	0.3	26.2	313	Clay		
RRMDD367	12.48	13.48	1.00	35.4	28.0	7.9	27.4	4.9	0.9	4.2	0.6	3.9	0.8	2.4	0.3	2.2	0.3	24.6	144	Clay		
RRMDD367	13.48	14.48	1.00	105.7	99.1	22.8	79.8	14.2	2.5	11.7	1.7	10.4	2.1	6.0	0.8	5.0	0.8	68.6	431	Clay		
RRMDD367	14.48	15.48	1.00	120.8	76.2	25.1	85.3	14.7	2.7	12.4	1.8	10.5	2.1	5.6	0.8	4.6	0.8	66.8	430	Clay		
RRMDD367	15.48	16.48	1.00	126.1	74.2	25.5	86.5	14.9	2.7	11.9	1.7	9.8	1.9	5.1	0.7	4.2	0.6	61.3	427	Clay	12	393
RRMDD367	16.48	17.48	1.00	64.6	93.0	14.7	49.6	8.3	1.5	6.4	1.0	5.3	1.1	2.9	0.4	2.6	0.4	32.0	284	Clay		
RRMDD367	17.48	18.48	1.00	45.6	96.4	10.3	34.5	5.7	1.0	4.0	0.6	3.1	0.6	1.8	0.3	1.6	0.3	18.5	224	Clay		
RRMDD367	18.48	19.46	0.98	25.3	40.0	6.4	21.6	3.8	0.7	2.7	0.4	2.5	0.5	1.6	0.2	1.7	0.3	16.3	124	Clay		
RRMDD367	19.46	20.39	0.93	59.8	135.1	14.0	46.7	7.6	1.3	5.0	0.7	3.8	0.7	2.0	0.3	1.9	0.3	21.0	300	Upper Saprolite		
RRMDD367	20.39	21.32	0.93	64.7	146.2	16.6	59.6	11.7	2.2	10.3	1.6	10.2	2.0	5.7	0.8	4.8	0.7	57.3	394	Upper Saprolite		
RRMDD367	21.32	22.16	0.84	108.7	207.0	23.4	82.9	14.3	2.7	12.7	1.8	11.1	2.3	6.3	0.8	4.8	0.7	75.7	555	Upper Saprolite		
RRMDD367	22.16	23.00	0.84	119.6	224.8	24.9	86.8	14.7	2.7	12.7	1.7	10.5	2.1	5.6	0.7	4.3	0.7	70.2	582	Lower Saprolite	3	507
RRMDD368	0.00	1.60	1.60	55.0	92.6	12.3	44.3	7.9	1.4	7.0	1.1	7.2	1.4	4.2	0.6	4.5	0.7	41.7	282	Hardcap		
RRMDD368	1.60	3.20	1.60	36.5	460.7	8.8	32.3	5.8	1.0	4.8	0.9	5.2	1.1	3.3	0.5	3.6	0.5	27.6	592	Hardcap		
RRMDD368	3.20	4.80	1.60	54.5	932.4	12.7	45.8	7.8	1.4	6.3	1.2	6.3	1.2	3.7	0.6	4.1	0.6	32.1	1111	Hardcap		
RRMDD368	4.80	5.83	1.03	140.7	275.2	27.2	90.6	16.1	2.8	11.6	1.7	9.3	1.8	4.7	0.7	4.8	0.7	44.7	633	Transition		
RRMDD368	5.83	6.86	1.03	245.1	166.4	48.2	158.6	26.9	4.6	18.9	2.6	13.5	2.4	6.6	0.9	5.9	0.9	68.3	770	Clay		
RRMDD368	6.86	7.71	0.85	346.0	238.9	70.8	242.6	42.7	8.0	38.5	5.7	34.1	7.0	19.6	2.7	15.3	2.3	256.5	1331	Clay		
RRMDD368	7.71	8.60	0.89	229.3	163.4	53.8	185.5	32.9	5.7	26.7	3.9	23.5	4.7	13.3	1.8	11.2	1.6	159.4	917	Clay		
RRMDD368	8.60	9.48	0.88	209.3	148.6	52.2	181.4	32.2	5.8	25.8	3.9	23.0	4.6	13.0	1.8	10.7	1.6	157.5	871	Clay		
RRMDD368	9.48	10.45	0.97	266.2	210.1	70.0	243.8	43.6	7.5	32.2	4.8	27.8	5.4	14.8	2.1	12.2	1.8	178.4	1121	Clay		
RRMDD368	10.45	11.42	0.97	275.6	217.4	60.3	208.2	37.5	6.8	30.1	4.3	24.8	4.7	12.8	1.7	10.0	1.4	154.3	1050	Clay		
RRMDD368	11.42	12.40	0.98	202.3	143.7	51.6	183.7	34.1	6.1	25.5	3.8	21.8	4.1	10.9	1.5	9.1	1.3	128.3	828	Clay		
RRMDD368	12.40	13.22	0.82	188.8	398.0	57.5	205.9	39.2	6.9	26.7	4.1	22.2	4.0	10.7	1.5	8.8	1.2	106.5	1082	Clay		
RRMDD368	13.22	14.04	0.82	64.0	76.4	15.5	53.3	9.6	1.7	7.1	1.1	6.0	1.1	3.1	0.4	3.0	0.4	34.2	277	Clay		
RRMDD368	14.04	14.86	0.82	71.5	85.7	17.5	60.7	10.7	2.0	8.6	1.3	7.7	1.5	4.5	0.7	4.3	0.6	49.7	327	Clay		
RRMDD368	14.86	15.69	0.83	114.7	149.9	27.3	95.3	16.7	3.1	13.5	2.0	11.2	2.3	6.4	0.9	5.4	0.8	72.3	522	Clay		
RRMDD368	15.69	16.18	0.49	16.2	18.7	4.0	13.4	2.4	0.4	2.1	0.3	2.1	0.5	1.5	0.2	1.7	0.3	15.7	79	Clay		

Hole ID	From m	To m	Int. m	La_2O_3 ppm	CeO_2 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	>200ppm TREO-CeO_2 Interval Length (m)	>200ppm TREO-CeO_2 Interval TREO ppm
RRMDD368	16.18	17.11	0.93	56.4	84.8	12.7	44.2	7.7	1.4	7.1	1.0	6.5	1.4	4.4	0.6	4.1	0.6	47.9	281	Clay		
RRMDD368	17.11	18.04	0.93	64.0	79.5	13.6	47.6	8.4	1.6	8.4	1.3	7.8	1.7	5.3	0.7	4.7	0.7	58.8	304	Clay		
RRMDD368	18.04	18.98	0.94	62.2	85.1	13.8	48.8	8.5	1.6	8.5	1.3	8.1	1.8	5.2	0.7	4.7	0.7	61.6	312	Clay		
RRMDD368	18.87	19.87	1.00	50.9	63.4	11.3	40.9	7.4	1.4	7.3	1.1	6.9	1.5	4.6	0.6	4.0	0.6	53.3	255	Upper Saprolite		
RRMDD368	19.87	20.80	0.93	68.3	94.6	15.7	56.7	10.4	1.9	10.0	1.5	9.8	2.1	6.3	0.9	5.4	0.8	74.4	359	Upper Saprolite		
RRMDD368	20.80	21.70	0.90	59.6	100.0	14.6	53.0	10.2	1.9	9.0	1.3	8.1	1.7	4.8	0.7	4.2	0.6	54.7	324	Upper Saprolite	16	626
RRMDD368	21.70	22.83	1.13	14.1	22.2	3.6	13.4	2.8	0.5	2.4	0.4	2.5	0.5	1.7	0.3	1.6	0.3	16.9	83	Upper Saprolite		
RRMDD368	22.83	23.95	1.12	46.7	73.0	12.4	47.7	9.7	1.9	8.4	1.2	6.7	1.3	3.3	0.4	2.6	0.4	37.3	253	Upper Saprolite		
RRMDD368	23.95	25.25	1.30	42.3	92.3	9.7	33.5	6.0	1.0	4.7	0.7	4.1	0.8	2.5	0.4	2.4	0.4	28.2	229	Upper Saprolite		
RRMDD368	25.25	26.55	1.30	38.9	59.3	9.0	30.2	5.3	1.0	4.6	0.7	4.1	0.8	2.5	0.4	2.3	0.4	28.6	188	Upper Saprolite		
RRMDD368	26.55	27.85	1.30	34.4	54.5	7.6	25.8	4.6	0.8	3.6	0.5	3.2	0.7	2.1	0.3	2.0	0.3	22.1	163	Upper Saprolite		
RRMDD368	27.85	29.16	1.31	24.6	38.9	5.6	19.2	3.5	0.6	2.7	0.4	2.5	0.5	1.7	0.3	1.7	0.3	17.1	120	Upper Saprolite		
RRMDD368	29.16	30.62	1.46	9.6	14.4	2.3	8.2	1.5	0.3	1.3	0.2	1.2	0.3	0.9	0.2	1.1	0.2	9.1	51	Upper Saprolite		
RRMDD368	30.62	32.07	1.45	23.0	55.4	7.0	27.1	5.6	1.1	4.7	0.7	4.1	0.8	2.4	0.4	2.5	0.4	24.1	159	Upper Saprolite		
RRMDD368	32.07	33.53	1.46	37.5	66.6	13.1	54.2	12.1	2.3	10.0	1.4	7.7	1.3	3.3	0.4	2.3	0.3	35.4	248	Lower Saprolite		
RRMDD368	33.53	34.96	1.43	9.3	13.1	2.4	8.2	1.4	0.3	1.0	0.2	0.9	0.2	0.6	0.1	0.7	0.1	5.8	44	Lower Saprolite		
RRMDD368	34.96	36.38	1.42	39.2	75.5	9.4	31.8	5.6	1.0	3.8	0.5	3.1	0.6	1.9	0.3	1.9	0.3	17.8	193	Saprock		
RRMDD368	36.38	37.90	1.52	54.1	129.6	13.0	45.0	8.3	1.4	6.2	0.9	5.2	1.0	2.9	0.4	2.7	0.4	32.1	303	Saprock		
RRMDD369	0.00	1.55	1.55	74.2	156.0	15.9	57.2	9.7	1.8	9.0	1.3	8.3	1.6	4.6	0.7	5.1	0.8	48.6	395	Hardcap		
RRMDD369	1.55	3.09	1.54	50.8	716.2	10.1	35.5	5.5	1.0	4.7	0.8	4.8	0.9	3.0	0.5	3.4	0.5	27.2	865	Hardcap		
RRMDD369	3.09	4.64	1.55	60.8	1126.4	14.1	50.3	8.0	1.4	6.3	1.1	6.1	1.2	3.6	0.5	4.0	0.5	31.1	1316	Transition		
RRMDD369	4.64	5.53	0.89	97.3	692.8	19.6	67.0	11.6	1.9	9.7	1.6	9.7	2.0	5.9	0.9	5.5	0.9	60.1	986	Mottled		
RRMDD369	5.53	6.42	0.89	208.8	91.8	32.3	100.5	16.3	2.7	13.4	2.0	12.1	2.5	6.6	1.0	6.3	1.0	68.1	565	Mottled		
RRMDD369	6.42	7.32	0.90	208.8	138.2	52.4	176.1	30.6	5.0	22.5	3.3	19.1	3.6	9.6	1.3	8.4	1.2	101.3	782	Mottled		
RRMDD369	7.32	8.21	0.89	265.1	190.4	54.4	179.6	30.1	4.9	22.5	3.3	18.8	3.6	9.7	1.3	8.1	1.2	104.1	897	Clay		
RRMDD369	8.21	9.10	0.89	139.0	64.7	27.9	91.9	15.7	2.6	12.9	1.9	11.4	2.3	6.5	0.9	5.9	0.9	68.2	453	Clay		
RRMDD369	9.10	10.00	0.90	170.6	112.3	30.3	100.5	16.8	3.0	14.4	2.1	12.6	2.5	6.8	0.9	6.0	0.9	75.9	556	Clay		
RRMDD369	10.00	10.90	0.90	151.9	124.7	33.3	115.9	20.0	3.4	16.9	2.5	15.2	3.1	8.4	1.2	7.2	1.1	96.3	601	Clay		
RRMDD369	10.90	11.68	0.78	289.7	368.5	65.2	220.4	36.2	6.2	27.4	3.7	20.1	3.8	9.7	1.3	8.0	1.2	108.1	1170	Clay		
RRMDD369	11.68	12.47	0.79	156.0	175.0	36.9	128.3	22.1	3.9	18.3	2.6	15.3	3.0	8.4	1.1	7.0	1.1	94.6	674	Clay		
RRMDD369	12.47	13.25	0.78	177.7	324.3	52.1	182.5	33.5	5.8	26.7	4.0	24.3	4.8	12.7	1.7	11.0	1.6	144.1	1007	Clay		
RRMDD369	13.25	14.05	0.80	160.1	151.1	41.3	144.6	25.7	4.4	20.6	3.0	17.1	3.4	9.1	1.2	7.5	1.1	105.1	695	Upper Saprolite		
RRMDD369	14.05	14.85	0.80	144.8	164.6	35.6	124.2	22.0	3.9	18.0	2.6	15.3	3.0	8.2	1.1	6.9	1.1	93.5	645	Upper Saprolite		
RRMDD369	14.85	15.75	0.90	114.9	154.2	30.1	105.7	19.2	3.3	14.8	2.2	12.1	2.4	6.4	0.9	5.6	0.9	71.2	544	Upper Saprolite		
RRMDD369	15.75	16.65	0.90	119.6	167.1	30.9	109.1	19.8	3.5	15.5	2.3	13.1	2.5	6.8	0.9	5.9	0.9	75.6	573	Upper Saprolite		
RRMDD369	16.65	17.55	0.90	131.9	170.1	33.7	117.8	21.3	3.6	15.4	2.2	12.8	2.4	6.4	0.9	5.7	0.9	70.9	596	Upper Saprolite		
RRMDD369	17.55	18.55	1.00	151.9	169.5	36.9	135.3	25.6	4.9	23.9	3.6	21.2	4.3	12.1	1.6	9.7	1.5	153.0	755	Upper Saprolite		
RRMDD369	18.55	19.55	1.00	239.3	193.5	55.1	219.9	46.6	10.0	64.0	10.1	66.6	14.5	39.8	5.0	28.2	4.3	519.4	1516	Upper Saprolite		
RRMDD369	19.55	20.55	1.00	129.6	184.9	26.8	97.2	17.0	3.2	15.9	2.2	13.1	2.5	6.9	0.9	5.9	0.9	77.0	584	Upper Saprolite		
RRMDD369	20.55	21.55	1.00	143.7	172.0	32.1	119.0	21.7	4.1	20.5	3.0	17.7	3.6	9.7	1.3	7.6	1.2	113.7	671	Upper Saprolite		
RRMDD369	21.55	22.55	1.00	125.5	216.8	28.5	103.7	19.9	3.8	19.1	3.0	18.9	3.9	11.0	1.5	8.8	1.4	135.2	701	Upper Saprolite		
RRMDD369	22.55	23.30	0.75	88.2	194.7	19.9	71.7	12.8	2.5	10.7	1.6	9.1	1.9	5.0	0.7	4.3	0.7	59.3	483	Lower Saprolite	19	737
RRMDD370	0.00	1.77	1.77	118.5	272.7	26.3	94.0	15.0	2.6	12.8	1.9	10.8	2.0	6.1	0.9	5.8	0.8	63.6	634	Soil		

Hole ID	From m	To m	Int. m	La_2O_3 ppm	CeO_2 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	>200ppm TREO-CeO_2 Interval Length (m)	>200ppm TREO-CeO_2 Interval TREO ppm
RRMDD370	1.77	3.53	1.76	116.1	299.7	25.0	87.1	13.7	2.3	10.8	1.6	9.7	1.8	5.5	0.8	5.5	0.8	55.0	636	Watercourse		
RRMDD370	3.53	5.30	1.77	105.0	644.9	20.5	69.9	10.9	1.9	8.2	1.3	7.4	1.4	4.0	0.7	4.3	0.6	38.6	920	Watercourse		
RRMDD370	5.30	6.15	0.85	141.9	299.7	32.9	112.6	18.7	3.2	13.6	2.1	11.8	2.3	6.4	0.9	6.3	1.0	66.8	720	Clay		
RRMDD370	6.15	7.00	0.85	179.4	261.6	39.7	127.1	21.5	3.5	15.5	2.3	12.6	2.3	6.7	0.9	5.7	0.8	67.3	747	Clay		
RRMDD370	7.00	7.85	0.85	113.3	248.1	29.4	104.3	20.1	3.6	16.3	2.3	12.9	2.5	7.0	0.9	6.0	0.9	72.1	640	Clay		
RRMDD370	7.85	8.70	0.85	131.4	277.6	37.7	143.5	26.4	4.7	23.9	3.7	21.6	4.4	12.7	1.7	10.4	1.5	168.9	870	Clay		
RRMDD370	8.70	9.43	0.73	115.1	226.0	39.9	167.4	31.3	5.9	33.0	4.9	28.6	5.9	16.3	2.1	12.5	1.9	209.5	900	Upper Saprolite		
RRMDD370	9.43	10.15	0.72	97.9	219.3	22.7	77.9	12.5	2.2	11.3	1.6	9.8	2.1	6.1	0.9	5.1	0.8	98.0	568	Upper Saprolite		
RRMDD370	10.15	11.18	1.03	89.0	221.1	21.1	74.4	13.3	2.5	10.3	1.5	8.3	1.6	4.6	0.6	3.8	0.6	50.7	503	Lower Saprolite		
RRMDD370	11.18	12.21	1.03	77.3	188.6	18.2	64.4	11.9	2.2	9.2	1.4	7.8	1.5	4.4	0.6	3.9	0.6	47.5	440	Lower Saprolite		
RRMDD370	12.21	13.24	1.03	79.4	196.5	18.5	64.9	11.7	2.1	8.8	1.4	7.5	1.5	4.2	0.6	3.7	0.5	45.7	447	Lower Saprolite	8	633
RRMDD370	13.24	14.27	1.03	80.3	197.2	18.5	64.4	11.5	2.1	9.1	1.4	7.8	1.5	4.3	0.6	3.7	0.5	49.9	453	Saprock		
RRMDD370	14.27	15.30	1.03	80.1	199.0	18.6	65.2	11.8	2.1	8.7	1.3	6.7	1.2	3.5	0.5	3.1	0.5	35.8	438	Saprock		
RRMDD370	15.30	16.33	1.03	76.7	189.2	17.8	62.1	11.2	2.0	8.7	1.3	7.3	1.5	4.2	0.6	3.7	0.6	47.0	434	Saprock		
RRMDD370	16.33	17.36	1.03	77.5	189.2	18.2	62.8	11.2	2.0	8.4	1.2	6.9	1.3	3.6	0.5	3.2	0.5	37.8	424	Saprock		
RRMDD370	17.36	18.39	1.03	81.3	196.5	19.1	65.4	12.1	2.2	9.5	1.4	8.3	1.6	4.6	0.6	4.0	0.6	51.9	459	Saprock		
RRMDD370	18.39	19.42	1.03	82.3	200.2	19.3	66.0	11.3	2.0	7.9	1.2	6.1	1.2	3.2	0.5	3.0	0.5	33.1	438	Saprock		
RRMDD370	19.42	20.40	0.98	80.2	195.9	18.6	64.0	11.2	1.9	8.0	1.2	6.4	1.2	3.5	0.5	3.1	0.5	35.3	432	Fresh Rock		
RRMDD371	0.00	1.78	1.78	57.7	124.1	13.2	47.8	8.7	1.5	7.0	1.1	7.3	1.4	4.3	0.7	4.9	0.7	41.0	322	Soil		
RRMDD371	1.78	3.55	1.77	60.4	479.1	14.2	51.2	8.6	1.5	6.6	1.1	6.9	1.3	4.2	0.7	4.4	0.6	36.8	677	Hardcap		
RRMDD371	3.55	5.33	1.78	77.4	1326.7	19.3	69.5	11.7	2.0	9.3	1.6	9.2	1.7	5.2	0.8	5.3	0.8	46.5	1587	Hardcap		
RRMDD371	5.33	6.32	0.99	79.3	966.8	19.1	65.0	12.0	2.0	9.5	1.7	9.7	2.0	6.1	0.9	5.9	0.9	56.6	1237	Transition		
RRMDD371	6.32	7.30	0.98	74.5	133.3	17.2	58.2	10.9	1.7	8.8	1.4	9.0	1.9	5.8	0.9	5.8	0.9	57.1	388	Clay		
RRMDD371	7.30	8.30	1.00	57.3	91.6	12.7	43.7	8.0	1.3	6.6	1.1	7.0	1.5	4.8	0.7	4.9	0.8	47.1	289	Clay		
RRMDD371	8.30	9.30	1.00	36.2	52.0	8.0	27.1	5.1	0.8	4.2	0.7	4.5	1.0	3.2	0.5	3.3	0.5	30.6	178	Clay		
RRMDD371	9.30	10.30	1.00	27.8	41.6	6.2	20.9	3.8	0.7	3.4	0.6	4.0	0.9	3.1	0.5	3.2	0.5	29.1	146	Clay		
RRMDD371	10.30	11.30	1.00	39.4	52.3	8.8	29.6	5.2	0.9	4.3	0.7	4.6	1.0	3.2	0.5	3.3	0.5	31.0	185	Clay		
RRMDD371	11.30	12.30	1.00	108.6	186.1	24.9	83.4	14.9	2.5	11.2	1.7	9.5	1.9	5.7	0.8	5.0	0.8	62.0	519	Clay		
RRMDD371	12.30	13.30	1.00	117.3	197.8	26.5	88.9	15.3	2.6	11.2	1.7	9.1	1.8	5.2	0.7	4.5	0.7	56.4	540	Clay		
RRMDD371	13.30	14.20	0.90	121.4	232.2	28.5	94.1	15.8	2.6	10.4	1.5	8.2	1.6	4.6	0.7	4.3	0.6	49.1	576	Clay		
RRMDD371	14.20	15.30	1.10	116.9	155.4	28.3	92.1	14.9	2.4	9.4	1.3	6.7	1.3	3.5	0.5	3.1	0.5	37.0	473	Upper Saprolite		
RRMDD371	15.30	16.40	1.10	123.7	203.3	28.9	94.2	16.0	2.7	10.6	1.5	8.5	1.6	4.5	0.6	4.2	0.6	46.4	547	Upper Saprolite		
RRMDD371	16.40	17.43	1.03	106.5	170.7	26.6	85.7	14.7	2.6	9.7	1.3	7.1	1.4	3.8	0.5	3.7	0.5	37.7	473	Lower Saprolite		
RRMDD371	17.43	18.46	1.03	110.2	141.9	25.4	81.8	14.0	2.5	9.4	1.3	7.2	1.4	3.9	0.5	3.7	0.6	39.6	443	Lower Saprolite		
RRMDD371	18.46	19.50	1.04	191.8	191.0	39.1	131.2	23.8	4.5	18.4	2.7	15.0	2.8	7.5	1.0	6.1	0.9	81.8	718	Lower Saprolite	8	535
RRMDD372	0.00	1.65	1.65	93.7	307.1	20.3	73.0	12.8	2.1	10.2	1.6	10.0	1.9	5.9	0.8	5.7	0.8	58.0	604	Hardcap		
RRMDD372	1.65	3.30	1.65	61.8	797.2	14.4	50.3	8.7	1.5	6.9	1.1	6.7	1.3	4.1	0.6	4.2	0.6	37.1	997	Transition		
RRMDD372	3.30	4.24	0.94	159.5	178.1	26.6	85.6	14.3	2.7	12.3	1.9	10.6	2.2	6.1	0.9	5.8	0.9	63.1	570	Clay		
RRMDD372	4.24	5.18	0.94	86.7	302.2	18.8	61.9	10.7	1.9	8.8	1.4	8.4	1.7	5.3	0.8	5.3	0.8	52.6	567	Clay		
RRMDD372	5.18	6.12	0.94	85.7	186.1	18.3	60.9	10.4	1.9	8.4	1.4	8.3	1.8	5.3	0.8	5.4	0.8	53.5	449	Clay		
RRMDD372	6.12	7.06	0.94	133.7	156.0	27.9	92.4	15.3	2.7	11.8	1.8	10.4	2.1	5.9	0.9	5.6	0.8	63.2	531	Clay		
RRMDD372	7.06	8.00	0.94	148.9	202.1	29.8	97.7	16.5	3.0	13.0	1.9	11.2	2.2	6.4	0.9	6.0	0.9	67.3	608	Clay		
RRMDD372	8.00	8.94	0.94	260.4	480.3	55.6	182.0	30.1	5.3	23.1	3.4	18.6	3.6	10.0	1.4	8.6	1.3	113.8	1197	Clay		

																					>200ppm TREO-CeO_2 Interval	
Hole ID	From m	To m	Int. m	La_2O_3 ppm	CeO_2 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
RRMDD372	8.94	9.88	0.94	355.4	341.5	77.8	257.8	42.6	7.3	31.1	4.5	25.6	4.7	13.3	1.8	11.2	1.6	157.5	1334	Clay		
RRMDD372	9.88	10.82	0.94	283.8	236.5	60.3	200.6	32.9	5.5	24.4	3.5	20.2	3.8	10.9	1.5	9.3	1.3	128.9	1024	Clay		
RRMDD372	10.82	11.76	0.94	192.3	149.3	41.2	137.1	22.6	4.0	16.8	2.5	14.0	2.7	7.8	1.1	6.6	1.0	85.6	684	Clay		
RRMDD372	11.76	12.70	0.94	163.0	241.4	35.3	116.6	19.5	3.4	14.0	2.0	11.5	2.2	6.3	0.9	5.6	0.8	67.6	690	Clay		
RRMDD372	12.70	13.64	0.94	146.6	156.0	33.3	110.9	18.8	3.3	13.1	1.9	10.5	2.0	5.7	0.8	5.4	0.8	60.1	569	Clay		
RRMDD372	13.64	14.58	0.94	120.8	143.1	26.3	87.8	15.1	2.7	11.0	1.6	9.1	1.8	5.2	0.7	4.9	0.7	53.2	484	Clay		
RRMDD372	14.58	15.52	0.94	123.1	127.1	27.2	91.2	15.8	2.8	11.2	1.6	9.4	1.8	5.2	0.7	4.8	0.7	54.6	477	Clay		
RRMDD372	15.52	16.44	0.92	155.4	350.1	36.4	123.1	21.2	3.7	13.8	1.9	10.8	2.0	5.5	0.8	5.2	0.7	57.5	788	Clay		
RRMDD372	16.44	17.41	0.97	119.6	174.4	26.7	90.5	15.5	2.8	11.1	1.6	9.3	1.8	5.2	0.7	4.5	0.6	55.5	520	Clay		
RRMDD372	17.41	18.38	0.97	157.2	136.4	35.8	119.6	20.6	3.6	14.2	2.1	11.3	2.1	5.9	0.8	5.1	0.8	65.5	581	Clay		
RRMDD372	18.38	19.35	0.97	76.2	151.7	17.7	59.0	9.8	1.7	6.9	1.0	5.6	1.1	3.3	0.4	3.0	0.5	34.2	372	Clay		
RRMDD372	19.35	20.32	0.97	102.5	168.3	25.6	88.5	15.6	2.8	10.8	1.5	8.6	1.6	4.5	0.6	4.2	0.6	47.1	483	Clay		
RRMDD372	20.32	21.29	0.97	110.9	165.2	24.3	82.1	14.1	2.5	9.9	1.4	8.1	1.5	4.4	0.6	4.1	0.6	44.8	475	Clay		
RRMDD372	21.29	22.26	0.97	78.5	95.8	17.3	58.7	10.3	1.9	7.8	1.2	6.6	1.3	3.9	0.5	3.8	0.6	39.4	327	Clay		
RRMDD372	22.26	23.23	0.97	87.1	87.6	18.8	64.5	11.4	2.1	8.6	1.2	7.3	1.4	4.2	0.6	4.1	0.6	44.4	344	Clay		
RRMDD372	23.23	24.17	0.94	119.6	184.3	24.4	84.7	14.8	2.7	12.2	1.9	11.0	2.2	6.3	0.9	5.8	0.8	69.6	541	Clay	21	617
RRMDD372	24.17	25.28	1.11	58.2	40.0	11.5	40.4	6.9	1.4	6.1	0.9	5.6	1.1	3.3	0.5	2.9	0.4	38.7	218	Clay		
RRMDD372	25.28	26.40	1.12	20.4	32.9	4.4	14.8	2.7	0.5	2.0	0.3	1.9	0.4	1.2	0.2	1.3	0.2	13.0	96	Clay		
RRMDD372	26.40	27.90	1.50	58.3	85.0	12.9	43.5	7.4	1.4	5.4	0.8	4.6	0.9	2.5	0.4	2.4	0.3	26.3	252	Upper Saprolite		
RRMDD372	27.90	29.40	1.50	16.3	22.6	3.6	12.4	2.3	0.5	1.6	0.2	1.6	0.3	1.0	0.2	1.1	0.2	10.8	75	Upper Saprolite		
RRMDD373	0.00	1.86	1.86	57.6	240.8	13.0	46.8	8.0	1.4	6.8	1.1	6.7	1.3	3.9	0.6	4.2	0.6	34.8	427	Hardcap		
RRMDD373	1.86	3.72	1.86	65.3	863.6	15.5	54.7	9.8	1.7	7.5	1.3	7.8	1.4	4.4	0.7	4.8	0.7	36.1	1075	Transition		
RRMDD373	3.72	4.58	0.86	119.0	100.1	21.4	71.5	12.0	2.0	9.4	1.4	8.4	1.7	5.0	0.8	5.0	0.8	51.7	410	Clay		
RRMDD373	4.58	5.45	0.87	86.2	539.3	17.4	58.9	10.1	1.7	7.9	1.2	7.1	1.5	4.4	0.7	4.5	0.7	43.6	785	Clay		
RRMDD373	5.45	6.31	0.86	91.8	107.1	19.5	66.4	11.1	1.8	8.5	1.3	7.6	1.6	4.6	0.7	4.8	0.7	48.4	376	Clay		
RRMDD373	6.31	7.18	0.87	95.0	172.0	20.7	71.0	12.3	2.0	9.0	1.4	8.0	1.6	4.8	0.7	4.9	0.8	48.8	453	Clay		
RRMDD373	7.18	8.04	0.86	435.1	288.7	61.3	189.0	29.7	4.7	20.6	2.7	14.6	2.6	6.9	0.9	6.0	0.9	69.7	1133	Clay		
RRMDD373	8.04	8.94	0.90	267.4	546.6	39.0	124.8	19.5	3.3	14.6	2.0	10.5	1.9	5.4	0.7	4.8	0.7	55.6	1097	Clay		
RRMDD373	8.94	9.95	1.01	361.2	425.0	69.4	229.2	37.6	5.9	25.4	3.4	17.4	3.1	8.0	1.1	7.2	1.0	84.3	1279	Clay		
RRMDD373	9.95	10.95	1.00	227.5	299.7	53.2	177.9	29.2	4.6	18.5	2.5	13.0	2.3	6.4	0.9	5.8	0.9	64.4	907	Clay		
RRMDD373	10.95	11.96	1.01	144.3	260.4	32.0	109.3	18.1	2.9	12.4	1.8	10.0	1.9	5.4	0.8	5.4	0.8	57.5	663	Clay		
RRMDD373	11.96	12.97	1.01	192.3	249.4	44.5	151.6	25.3	4.1	17.5	2.4	13.2	2.5	7.1	1.0	6.4	1.0	73.3	791	Clay		
RRMDD373	12.97	13.98	1.01	182.4	215.6	43.6	148.7	24.6	4.1	17.3	2.4	13.2	2.5	7.1	1.0	6.4	0.9	75.4	745	Clay		
RRMDD373	13.98	14.98	1.00	185.3	269.0	44.6	154.5	25.6	4.3	18.3	2.5	13.6	2.6	7.2	1.0	6.1	0.9	78.1	814	Clay		
RRMDD373	14.98	16.01	1.03	274.4	303.4	66.9	230.9	37.7	6.1	26.0	3.6	19.2	3.6	9.9	1.3	8.3	1.2	113.5	1106	Upper Saprolite		
RRMDD373	16.01	17.04	1.03	261.5	315.7	62.2	215.2	36.8	5.9	26.0	3.6	19.5	3.7	10.1	1.3	8.4	1.2	119.0	1090	Upper Saprolite		
RRMDD373	17.04	18.07	1.03	340.1	571.2	78.0	282.3	52.0	9.5	46.9	7.1	43.3	9.3	26.3	3.4	20.2	3.0	346.7	1839	Upper Saprolite		
RRMDD373	18.07	19.10	1.03	238.1	342.7	57.3	210.0	37.2	6.5	30.1	4.2	23.4	4.6	12.4	1.6	10.1	1.4	153.7	1133	Upper Saprolite		
RRMDD373	19.10	20.13	1.03	204.7	243.2	45.2	163.3	28.1	5.0	22.9	3.1	17.7	3.5	9.5	1.3	7.8	1.1	115.7	872	Upper Saprolite		
RRMDD373	20.13	21.04	0.91	310.8	341.5	83.5	309.1	60.4	10.7	48.4	6.9	38.1	7.1	19.0	2.5	14.9	2.1	210.2	1465	Lower Saprolite		
RRMDD373	21.04	21.96	0.92	315.5	280.1	80.5	307.9	61.1	12.2	69.0	10.6	68.1	14.9	42.8	5.6	33.5	4.8	567.6	1874	Lower Saprolite		
RRMDD373	21.96	22.87	0.91	228.7	210.1	54.5	205.9	37.7	7.1	35.8	5.3	31.3	6.4	18.1	2.3	14.2	2.0	226.0	1086	Lower Saprolite		
RRMDD373	22.87	23.78	0.91	335.4	277.6	70.9	271.8	51.0	9.9	55.2	8.0	48.2	10.2	28.5	3.7	20.7	3.1	407.6	1602	Lower Saprolite		

																					>200ppm TREO-CeO_2 Interval	
Hole ID	From m	To m	Int. m	La_2O_3 ppm	CeO_2 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
RRMDD373	23.78	24.70	0.92	253.3	254.3	53.5	204.7	39.0	7.6	40.8	5.9	36.2	7.7	21.7	2.8	16.2	2.4	298.4	1244	Lower Saprolite	21	1040
RRMDD374	0.00	2.31	2.31	249.8	533.1	37.0	114.5	15.8	2.5	11.1	1.6	8.8	1.5	4.6	0.7	4.5	0.6	41.3	1027	Hardcap		
RRMDD374	2.31	3.24	0.93	115.5	412.7	23.5	78.0	13.2	2.1	9.6	1.5	9.0	1.8	5.4	0.8	5.8	0.9	54.4	734	Clay		
RRMDD374	3.24	4.17	0.93	72.2	236.5	16.7	55.8	9.9	1.6	6.9	1.1	6.9	1.4	4.3	0.7	4.6	0.7	42.4	462	Clay		
RRMDD374	4.17	5.10	0.93	90.8	154.2	21.9	72.8	12.5	2.0	9.0	1.3	7.9	1.5	4.7	0.7	4.7	0.7	47.6	432	Clay		
RRMDD374	5.10	6.03	0.93	127.8	159.7	31.4	104.2	17.6	2.9	12.2	1.7	9.8	1.9	5.4	0.7	5.1	0.8	58.4	540	Clay		
RRMDD374	6.03	6.95	0.92	171.8	199.6	43.1	144.6	24.6	4.1	17.1	2.5	13.8	2.6	7.2	1.0	6.3	0.9	81.1	720	Clay		
RRMDD374	6.95	7.84	0.89	167.7	280.1	41.9	141.7	23.8	4.1	17.5	2.5	13.8	2.6	7.0	1.0	6.1	0.9	80.1	791	Upper Saprolite		
RRMDD374	7.84	8.73	0.89	310.8	165.2	61.5	203.5	33.3	5.5	22.8	3.1	16.1	2.6	6.8	0.9	5.3	0.7	70.9	909	Upper Saprolite		
RRMDD374	8.73	9.62	0.89	119.6	153.6	27.7	99.3	18.0	3.3	13.7	2.0	10.8	1.9	5.1	0.7	4.4	0.6	54.7	515	Upper Saprolite		
RRMDD374	9.62	10.51	0.89	101.6	142.5	24.2	87.7	15.4	2.8	12.4	1.8	10.5	2.0	5.9	0.8	5.0	0.7	66.7	480	Upper Saprolite		
RRMDD374	10.51	11.38	0.87	147.2	191.6	31.9	122.5	19.8	3.7	19.0	2.5	14.1	3.0	8.5	1.1	6.5	0.9	118.1	690	Upper Saprolite		
RRMDD374	11.38	12.14	0.76	100.9	206.4	20.4	72.8	12.9	2.5	11.8	1.6	9.5	2.0	5.7	0.8	4.6	0.7	77.8	530	Lower Saprolite		
RRMDD374	12.14	12.90	0.76	78.5	172.6	16.9	57.5	10.1	1.8	7.3	1.1	6.1	1.2	3.4	0.5	3.1	0.5	39.4	400	Lower Saprolite	11	603
RRMDD375	0.00	1.72	1.72	67.8	105.2	14.3	47.8	8.2	1.5	7.3	1.2	7.4	1.5	4.5	0.7	4.4	0.7	42.0	314	Soil		
RRMDD375	1.72	3.44	1.72	60.5	598.2	14.5	50.2	8.9	1.6	7.4	1.2	6.9	1.4	4.3	0.7	4.3	0.7	38.6	799	Hardcap		
RRMDD375	3.44	5.16	1.72	92.9	1068.7	24.5	84.1	15.2	2.5	11.6	1.9	10.6	2.0	6.3	0.9	5.8	0.9	52.2	1380	Hardcap		
RRMDD375	5.16	6.06	0.90	146.6	289.9	33.1	115.2	20.1	3.3	15.4	2.3	13.3	2.6	7.5	1.1	6.9	1.0	78.5	737	Mottled		
RRMDD375	6.06	6.96	0.90	280.3	234.0	66.7	230.4	39.7	6.7	30.3	4.3	25.0	4.9	13.3	1.8	11.2	1.6	153.7	1104	Mottled		
RRMDD375	6.96	7.86	0.90	293.2	278.8	69.5	235.6	39.9	6.7	30.1	4.2	22.6	4.2	11.3	1.5	9.4	1.3	126.2	1134	Clay		
RRMDD375	7.86	8.76	0.90	263.9	357.5	59.0	211.1	34.3	6.0	26.6	3.8	21.1	3.9	10.6	1.5	8.7	1.3	125.0	1134	Clay		
RRMDD375	8.76	9.66	0.90	241.6	501.2	54.0	189.5	31.5	5.4	23.4	3.4	18.2	3.3	9.1	1.3	7.4	1.1	102.4	1193	Clay		
RRMDD375	9.66	10.57	0.91	201.7	253.1	45.1	157.5	25.6	4.3	18.2	2.6	14.0	2.5	6.7	1.0	5.7	0.8	77.6	816	Upper Saprolite		
RRMDD375	10.57	11.49	0.92	129.0	181.8	28.3	98.3	15.8	2.6	11.3	1.5	8.5	1.6	4.4	0.6	3.8	0.6	50.7	539	Upper Saprolite		
RRMDD375	11.49	12.40	0.91	124.9	171.4	28.2	95.2	15.0	2.4	10.1	1.4	7.7	1.4	4.0	0.6	3.8	0.6	44.6	511	Lower Saprolite	7	894
RRMDD376	0.00	1.66	1.66	30.5	506.1	6.4	21.9	3.9	0.7	3.4	0.6	3.9	0.8	2.6	0.4	2.9	0.4	23.5	608	Hardcap		
RRMDD376	1.66	3.32	1.66	37.1	1332.8	7.7	25.4	4.4	0.8	3.7	0.8	3.8	0.8	2.6	0.4	2.9	0.4	21.7	1445	Hardcap		
RRMDD376	3.32	4.32	1.00	67.6	514.7	12.1	39.8	6.5	1.1	4.9	0.8	5.2	1.1	3.3	0.5	3.5	0.5	34.0	696	Transition		
RRMDD376	4.32	5.26	0.94	90.7	98.1	18.8	65.6	10.4	1.8	8.5	1.3	8.3	1.8	5.3	0.8	5.5	0.8	59.2	377	Mottled		
RRMDD376	5.26	6.20	0.94	90.1	115.7	19.1	67.2	10.9	2.0	8.9	1.4	8.3	1.7	5.2	0.8	5.1	0.8	55.7	393	Mottled		
RRMDD376	6.20	7.14	0.94	123.7	166.4	26.0	91.1	14.9	2.7	11.8	1.7	10.2	2.0	6.1	0.9	6.0	0.9	67.4	532	Clay		
RRMDD376	7.14	8.08	0.94	159.5	160.9	34.4	121.3	20.2	3.5	15.3	2.2	12.9	2.5	7.4	1.1	7.0	1.0	82.9	632	Clay		
RRMDD376	8.08	9.02	0.94	191.2	224.8	40.7	143.5	24.1	4.2	18.0	2.6	14.8	2.9	8.2	1.2	7.5	1.1	93.7	778	Clay		
RRMDD376	9.02	9.96	0.94	171.8	273.9	37.0	128.9	21.4	3.8	16.3	2.4	14.1	2.7	7.9	1.2	7.4	1.1	90.3	780	Clay		
RRMDD376	9.96	10.90	0.94	224.0	189.2	48.1	169.7	27.7	4.7	20.6	3.0	17.2	3.4	9.7	1.4	8.6	1.3	112.0	841	Clay		
RRMDD376	10.90	11.85	0.95	201.1	466.8	43.7	151.0	24.7	4.4	18.8	2.7	15.5	3.0	8.6	1.2	7.6	1.1	99.6	1050	Clay		
RRMDD376	11.85	12.80	0.95	222.2	346.4	48.0	168.0	27.4	4.8	20.4	2.9	16.5	3.2	9.4	1.3	8.5	1.2	109.3	990	Clay		
RRMDD376	12.80	13.74	0.94	198.2	539.3	44.8	155.7	25.6	4.4	18.0	2.6	14.3	2.8	7.9	1.2	7.3	1.1	91.2	1114	Clay		
RRMDD376	13.74	14.68	0.94	190.6	192.2	46.3	160.4	26.7	4.6	17.7	2.6	13.9	2.6	7.2	1.1	6.5	1.0	80.8	754	Clay		
RRMDD376	14.68	15.62	0.94	210.5	203.9	50.4	175.5	29.8	5.2	20.5	3.0	16.4	3.0	8.6	1.3	7.8	1.1	91.3	828	Clay		
RRMDD376	15.62	16.56	0.94	378.8	293.6	101.4	359.3	63.8	11.7	44.4	6.3	33.4	5.8	15.1	2.1	12.8	1.7	167.6	1498	Clay		
RRMDD376	16.56	17.52	0.96	236.9	254.3	56.7	196.5	33.4	5.9	22.5	3.2	16.9	3.0	8.0	1.2	7.4	1.0	84.3	931	Clay		
RRMDD376	17.52	18.71	1.19	205.2	233.4	46.0	166.8	29.7	5.6	22.2	3.4	18.7	3.4	9.8	1.4	9.2	1.3	95.4	852	Upper Saprolite	14	824

Hole ID	From m	To m	Int. m	La_2O_3 ppm	CeO_2 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	>200ppm TREO-CeO_2 Interval Length (m)	>200ppm TREO-CeO_2 Interval TREO ppm
RRMDD376	18.71	19.90	1.19	256.8	215.0	49.4	186.0	33.6	6.8	33.2	4.8	27.9	5.8	16.1	2.2	13.7	2.0	214.0	1067	Saprock		
RRMDD377	0.00	1.60	1.60	67.0	578.6	14.4	49.0	8.6	1.4	7.2	1.1	6.9	1.4	4.4	0.6	4.3	0.7	38.5	784	Transition		
RRMDD377	1.60	2.62	1.02	112.5	208.8	23.9	84.0	14.4	2.5	11.4	1.8	10.3	2.1	6.1	0.9	5.9	0.9	69.5	555	Clay		
RRMDD377	2.62	3.48	0.86	253.3	568.7	46.9	155.7	24.1	4.2	17.7	2.5	13.9	2.6	7.3	1.0	6.2	0.9	86.9	1192	Clay		
RRMDD377	3.48	4.34	0.86	197.6	375.9	45.3	154.5	24.7	4.1	16.6	2.4	12.9	2.4	6.6	0.9	5.5	0.8	73.1	923	Clay		
RRMDD377	4.34	5.20	0.86	181.2	237.7	44.6	157.5	25.7	4.4	17.8	2.5	13.4	2.4	6.5	0.9	5.5	0.8	71.4	772	Clay		
RRMDD377	5.20	6.06	0.86	206.4	191.6	53.2	187.8	31.7	5.3	21.8	3.0	16.6	3.0	8.0	1.1	6.8	0.9	83.9	821	Clay		
RRMDD377	6.06	6.92	0.86	243.9	266.6	59.3	211.1	35.5	6.0	24.6	3.5	18.9	3.5	9.4	1.3	7.6	1.1	109.6	1002	Upper Saprolite		
RRMDD377	6.92	7.77	0.85	465.6	347.6	91.3	351.1	60.6	11.6	60.4	8.6	50.3	10.4	28.6	3.8	22.0	3.2	388.6	1904	Upper Saprolite		
RRMDD377	7.77	8.40	0.63	153.1	221.1	26.0	92.8	16.4	3.4	17.6	2.4	14.2	3.4	9.7	1.3	7.6	1.2	160.0	730	Lower Saprolite	7	985
RRMDD378	0.00	2.23	2.23	74.0	291.1	14.5	48.1	8.4	1.5	7.1	1.1	6.9	1.4	4.4	0.7	4.6	0.7	38.9	503	Transition		
RRMDD378	2.23	3.05	0.82	189.4	549.1	25.1	70.3	10.9	1.9	8.3	1.3	7.5	1.5	4.7	0.8	5.1	0.8	46.0	923	Clay		
RRMDD378	3.05	3.88	0.83	115.9	194.7	22.3	74.1	12.5	2.2	10.0	1.6	9.2	1.9	6.0	0.9	6.0	0.9	62.2	520	Clay		
RRMDD378	3.88	4.72	0.84	143.7	282.5	25.3	80.8	13.6	2.5	11.0	1.7	9.4	2.0	6.1	1.0	6.1	0.9	64.0	650	Clay		
RRMDD378	4.72	5.58	0.86	138.4	175.0	25.5	82.5	13.7	2.5	10.9	1.7	9.7	2.0	6.3	1.0	6.3	0.9	62.5	539	Clay		
RRMDD378	5.58	6.43	0.85	278.0	261.6	79.3	271.8	47.4	8.5	33.3	4.7	25.1	4.8	13.6	1.9	12.0	1.8	151.1	1195	Clay		
RRMDD378	6.43	7.29	0.86	208.2	177.5	51.6	170.9	29.2	5.0	19.8	2.9	15.7	3.0	8.9	1.3	8.2	1.2	93.2	797	Clay		
RRMDD378	7.29	8.14	0.85	189.4	246.9	47.2	162.1	27.6	4.9	19.7	2.8	16.0	3.2	9.2	1.3	8.3	1.2	97.1	837	Clay		
RRMDD378	8.14	9.00	0.86	170.6	224.2	41.8	140.0	24.1	4.5	18.2	2.6	14.8	2.9	8.6	1.3	7.8	1.1	88.8	751	Clay		
RRMDD378	9.00	10.00	1.00	336.6	242.6	97.7	365.1	70.0	14.0	62.8	9.2	50.2	9.8	28.0	3.8	22.4	3.2	302.2	1618	Upper Saprolite	8	885
RRMDD378	10.00	10.80	0.80	104.4	146.8	23.9	86.3	15.9	3.2	15.8	2.2	12.3	2.7	7.8	1.1	6.4	1.0	108.7	538	Saprock		
RRMDD379	0.00	1.25	1.25	53.8	184.3	11.3	38.8	6.6	1.2	5.9	1.0	6.0	1.3	4.1	0.7	4.5	0.7	38.9	359	Hardcap		
RRMDD379	1.25	2.50	1.25	47.0	154.2	11.2	38.1	7.1	1.3	6.2	1.0	6.3	1.3	4.3	0.7	4.5	0.7	35.3	319	Transition		
RRMDD379	2.50	3.70	1.20	22.0	81.6	4.4	14.1	2.6	0.5	2.0	0.3	1.8	0.4	1.2	0.2	1.3	0.2	11.7	144	Clay		
RRMDD379	3.70	4.90	1.20	25.6	36.4	5.3	17.8	3.1	0.6	2.5	0.4	2.1	0.4	1.4	0.2	1.5	0.2	15.0	112	Clay		
RRMDD379	4.90	6.25	1.35	57.5	75.2	13.0	42.9	7.0	1.2	5.8	0.9	5.2	1.1	3.1	0.5	3.2	0.5	36.6	254	Clay		
RRMDD379	6.25	7.25	1.00	122.0	171.4	23.6	85.0	15.1	2.9	14.2	2.0	11.5	2.3	7.1	1.0	6.3	1.0	80.6	546	Upper Saprolite		
RRMDD379	7.25	8.25	1.00	87.3	218.0	19.5	71.0	13.0	2.6	11.5	1.7	9.7	2.1	6.4	0.9	5.6	0.9	79.0	529	Upper Saprolite		
RRMDD379	8.25	9.25	1.00	60.5	122.0	13.7	45.8	7.8	1.5	5.9	0.8	4.6	1.0	3.0	0.5	3.0	0.5	32.9	303	Upper Saprolite		
RRMDD379	9.25	10.25	1.00	65.1	146.8	15.6	55.4	10.2	2.1	8.2	1.1	6.4	1.3	4.0	0.6	3.4	0.5	43.3	364	Upper Saprolite		
RRMDD379	10.25	11.25	1.00	61.9	135.7	15.3	54.4	10.1	2.1	8.5	1.2	6.6	1.3	3.8	0.6	3.4	0.5	42.8	348	Upper Saprolite		
RRMDD379	11.25	12.25	1.00	72.5	180.0	16.0	54.0	9.1	1.8	6.7	0.9	5.1	1.0	3.0	0.4	3.0	0.5	31.7	386	Upper Saprolite		
RRMDD379	12.25	13.26	1.01	66.0	154.8	14.9	51.0	9.1	1.8	6.8	1.0	5.2	1.0	3.1	0.5	2.9	0.4	33.1	352	Upper Saprolite		
RRMDD379	13.26	14.10	0.84	69.3	166.4	19.3	72.8	14.6	3.0	12.0	1.7	9.7	1.9	5.6	0.7	4.5	0.6	61.3	444	Lower Saprolite	8	408
RRMDD379	14.10	14.95	0.85	64.4	143.1	14.3	47.6	8.3	1.7	6.3	0.9	5.0	1.0	3.0	0.4	2.9	0.4	31.0	330	Lower Saprolite		
RRMDD379	14.95	15.98	1.03	56.6	119.8	12.4	41.2	7.3	1.5	5.8	0.8	4.7	0.9	2.8	0.4	2.8	0.4	26.5	284	Lower Saprolite		
RRMDD379	15.98	17.00	1.02	67.9	161.5	15.4	51.8	9.5	1.8	7.0	1.0	5.6	1.1	3.3	0.5	3.3	0.5	33.3	363	Saprock		
RRMDD380	0.00	1.75	1.75	60.9	199.0	13.0	44.4	7.6	1.4	6.9	1.1	6.8	1.4	4.2	0.7	4.6	0.7	41.4	394	Soil		
RRMDD380	1.75	3.05	1.30	51.1	298.5	10.8	37.2	6.4	1.1	5.5	0.9	5.5	1.1	3.7	0.6	4.0	0.6	32.9	460	Soil		
RRMDD380	3.05	4.37	1.32	50.1	143.7	10.3	34.6	6.7	1.3	5.5	1.0	5.9	1.2	4.0	0.7	4.4	0.7	35.0	305	Soil		
RRMDD380	4.37	5.24	0.87	56.5	96.2	12.9	42.9	8.0	1.5	6.7	1.1	6.4	1.3	4.2	0.7	4.6	0.7	38.9	282	Soil		
RRMDD380	5.24	6.12	0.88	99.7	217.4	24.8	81.5	14.0	2.5	9.9	1.5	8.5	1.7	4.9	0.7	4.9	0.7	49.1	522	Clay		
RRMDD380	6.12	7.00	0.88	156.6	280.1	36.6	120.1	19.9	3.5	13.8	1.9	10.3	1.9	5.6	0.8	5.1	0.8	58.5	716	Clay		

																					>200ppm TREO-CeO_2 Interval	
Hole ID	From m	To m	Int. m	La_2O_3 ppm	CeO_2 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
RRMDD380	7.00	7.86	0.86	282.6	405.4	62.2	222.8	39.4	7.5	33.0	4.7	25.9	5.1	14.2	1.9	11.2	1.6	170.2	1288	Upper Saprolite		
RRMDD380	7.86	8.40	0.54	164.2	164.6	28.5	104.6	19.2	4.3	25.0	3.6	22.8	5.3	16.4	2.2	12.9	2.0	241.3	817	Lower Saprolite	3	835
RRMDD381	0.00	1.42	1.42	133.7	374.7	27.3	87.4	12.8	2.1	9.6	1.5	8.9	1.7	5.2	0.8	5.0	0.8	43.8	715	Soil		
RRMDD381	1.42	2.84	1.42	175.9	649.8	36.4	116.1	17.5	2.7	11.1	1.7	9.0	1.6	4.5	0.6	4.1	0.6	35.7	1067	Hardcap		
RRMDD381	2.84	4.25	1.41	145.4	1213.7	30.9	98.1	15.8	2.5	10.3	1.7	8.5	1.6	4.3	0.7	4.3	0.6	36.8	1575	Transition		
RRMDD381	4.25	5.17	0.92	143.1	500.0	31.3	103.1	15.5	2.4	10.4	1.5	8.0	1.5	4.2	0.6	4.2	0.6	39.4	866	Mottled		
RRMDD381	5.17	6.20	1.03	179.4	299.7	44.8	147.5	21.5	3.1	12.3	1.6	7.9	1.4	3.5	0.5	3.1	0.4	33.7	760	Mottled		
RRMDD381	6.20	7.02	0.82	172.4	272.7	42.2	144.6	20.7	3.1	12.0	1.5	7.6	1.3	3.3	0.5	3.0	0.4	32.9	718	Mottled		
RRMDD381	7.02	7.95	0.93	172.4	315.7	52.7	198.3	30.8	4.6	17.8	2.2	10.5	1.8	4.7	0.6	4.1	0.6	48.9	866	Mottled		
RRMDD381	7.95	8.87	0.92	174.7	486.4	52.1	199.5	31.3	4.8	19.6	2.4	11.8	2.1	5.4	0.8	4.7	0.7	57.1	1053	Clay		
RRMDD381	8.87	9.84	0.97	102.0	227.9	31.8	131.2	24.5	4.3	20.2	2.8	15.1	3.0	8.4	1.2	7.3	1.1	92.3	673	Clay		
RRMDD381	9.84	10.81	0.97	112.8	223.6	30.0	115.0	23.3	4.1	19.1	2.8	15.4	3.0	8.3	1.2	7.4	1.0	94.7	662	Clay		
RRMDD381	10.81	11.79	0.98	88.9	190.4	28.8	130.6	32.4	5.9	28.1	4.2	23.0	4.6	12.9	1.8	11.0	1.6	152.4	717	Clay		
RRMDD381	11.79	12.76	0.97	115.1	235.9	38.3	175.0	48.9	10.1	55.8	9.8	61.4	14.0	42.8	6.3	38.5	5.6	521.9	1379	Clay		
RRMDD381	12.76	13.73	0.97	97.0	195.3	27.7	120.1	30.1	5.9	30.9	5.0	28.9	6.2	17.8	2.5	15.4	2.2	223.5	809	Clay		
RRMDD381	13.73	14.59	0.86	105.6	219.3	38.5	182.0	40.4	8.1	46.0	7.0	40.9	9.2	26.9	3.7	21.9	3.2	369.5	1122	Clay		
RRMDD381	14.59	15.45	0.86	119.6	264.1	39.3	172.0	35.1	6.2	27.4	3.6	17.8	3.4	9.0	1.2	7.3	1.0	103.0	810	Clay		
RRMDD381	15.45	16.31	0.86	110.4	246.9	33.7	138.8	28.6	5.2	23.9	3.4	17.7	3.4	9.1	1.3	7.4	1.1	102.9	734	Clay		
RRMDD381	16.31	17.18	0.87	106.8	235.2	35.5	154.0	32.6	5.9	27.3	4.0	21.3	4.2	11.8	1.7	9.8	1.4	141.0	793	Clay		
RRMDD381	17.18	18.26	1.08	135.5	315.7	76.4	439.7	110.4	21.1	108.1	16.3	95.1	20.7	60.0	8.3	50.1	7.3	744.2	2209	Upper Saprolite		
RRMDD381	18.26	19.35	1.09	81.6	183.0	32.4	187.2	68.3	16.8	107.9	19.5	126.2	28.5	84.8	12.3	76.2	10.9	1024.8	2061	Upper Saprolite		
RRMDD381	19.35	20.43	1.08	76.7	173.2	21.4	102.2	35.7	8.4	49.7	8.5	50.4	10.5	30.0	4.2	25.6	3.7	344.1	944	Upper Saprolite		
RRMDD381	20.43	21.40	0.97	76.3	167.7	25.6	140.0	40.5	8.3	44.0	6.6	36.4	7.5	20.8	2.9	17.4	2.5	241.3	838	Lower Saprolite	17	1021
RRMDD382	0.00	2.20	2.20	85.5	851.3	13.4	40.1	6.4	1.1	5.0	0.8	4.9	0.9	2.8	0.5	3.1	0.5	25.0	1041	Hardcap		
RRMDD382	2.20	2.98	0.78	65.1	680.5	14.3	48.6	8.1	1.3	6.6	1.1	6.3	1.3	4.2	0.6	4.2	0.7	40.6	884	Hardcap		
RRMDD382	2.98	3.76	0.78	75.4	534.4	14.3	46.0	7.6	1.3	6.2	1.0	6.1	1.3	3.9	0.6	4.4	0.7	39.0	742	Hardcap		
RRMDD382	3.76	4.63	0.87	77.9	199.0	16.6	56.9	9.8	1.7	8.0	1.3	7.8	1.6	4.7	0.8	5.3	0.8	49.3	441	Transition		
RRMDD382	4.63	5.51	0.88	91.9	204.5	19.4	66.7	11.7	2.1	9.8	1.6	9.1	1.8	5.4	0.8	5.6	0.9	59.7	491	Mottled		
RRMDD382	5.51	6.38	0.87	65.9	280.1	14.3	49.3	8.4	1.5	7.0	1.1	6.1	1.3	3.9	0.6	4.3	0.7	40.5	485	Mottled		
RRMDD382	6.38	7.19	0.81	138.4	187.9	28.9	98.1	16.2	2.9	13.3	2.0	11.3	2.3	6.8	1.0	6.4	1.0	79.7	596	Clay		
RRMDD382	7.19	8.00	0.81	188.8	254.3	40.1	134.7	21.8	3.9	16.8	2.4	13.3	2.6	7.5	1.1	7.1	1.1	92.2	788	Clay		
RRMDD382	8.00	9.01	1.01	187.6	199.6	44.1	146.4	24.1	4.2	16.5	2.4	12.6	2.3	6.7	0.9	6.2	0.9	75.3	730	Clay		
RRMDD382	9.01	10.02	1.01	210.5	188.6	53.9	177.9	29.9	5.1	19.1	2.7	13.5	2.5	7.1	1.0	6.3	0.9	80.0	799	Clay		
RRMDD382	10.02	11.04	1.02	178.3	218.7	42.5	142.3	23.7	4.1	15.8	2.2	11.1	2.1	5.7	0.8	5.4	0.8	64.5	718	Clay		
RRMDD382	11.04	12.00	0.96	108.0	111.8	26.2	90.6	15.4	2.8	10.7	1.5	8.1	1.5	4.4	0.6	4.2	0.7	47.1	434	Upper Saprolite		
RRMDD382	12.00	12.97	0.97	88.0	95.0	20.3	70.2	11.8	2.2	8.8	1.3	6.8	1.3	3.8	0.6	3.9	0.6	41.4	356	Upper Saprolite		
RRMDD382	12.97	13.94	0.97	127.2	146.8	29.6	102.5	17.7	3.3	12.7	1.7	8.8	1.6	4.6	0.7	4.4	0.7	46.4	509	Upper Saprolite		
RRMDD382	13.94	14.91	0.97	94.9	94.5	21.7	76.5	12.8	2.4	9.9	1.4	7.1	1.3	3.8	0.6	3.8	0.6	38.7	370	Upper Saprolite		
RRMDD382	14.91	15.87	0.96	94.8	127.8	21.7	77.3	13.8	2.7	11.1	1.6	8.3	1.6	4.5	0.7	4.4	0.7	45.5	416	Upper Saprolite		
RRMDD382	15.87	16.42	0.55	71.9	134.5	16.6	60.9	11.1	2.3	9.1	1.3	7.2	1.4	3.9	0.6	4.0	0.6	41.7	367	Upper Saprolite		
RRMDD382	16.42	17.46	1.04	69.7	77.0	14.9	53.2	9.2	1.9	7.8	1.2	6.3	1.3	3.8	0.5	3.7	0.5	41.0	292	Upper Saprolite		
RRMDD382	17.46	18.50	1.04	79.0	115.1	16.0	55.9	10.1	2.1	9.1	1.3	7.3	1.5	4.5	0.6	4.5	0.7	48.6	356	Upper Saprolite		
RRMDD382	18.50	19.54	1.04	74.7	99.9	15.4	55.6	10.4	2.2	9.9	1.5	8.6	1.8	5.2	0.8	5.1	0.8	57.1	349	Upper Saprolite		

Hole ID	From m	To m	Int. m	La_2O_3 ppm	CeO_2 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	>200ppm TREO-CeO_2 Interval Length (m)	>200ppm TREO-CeO_2 Interval TREO ppm
RRMDD382	19.54	20.58	1.04	115.8	334.1	24.5	87.4	16.6	3.6	15.4	2.3	12.3	2.5	7.0	1.0	6.3	1.0	76.4	706	Upper Saprolite		
RRMDD382	20.58	21.62	1.04	59.5	112.3	14.3	52.1	10.1	2.2	8.7	1.3	6.9	1.3	3.7	0.5	3.5	0.5	40.0	317	Lower Saprolite	17	504
RRMDD382	21.62	22.65	1.03	56.9	105.2	13.1	47.5	8.9	1.9	7.5	1.1	5.9	1.2	3.6	0.5	3.6	0.6	38.9	296	Lower Saprolite		
RRMDD382	22.65	23.40	0.75	58.2	133.3	12.9	44.2	8.0	1.5	6.0	0.9	4.6	0.9	2.7	0.4	2.9	0.4	30.1	307	Lower Saprolite		
RRMDD383	0.00	1.63	1.63	198.2	445.9	38.9	121.9	17.4	2.8	11.9	1.7	9.4	1.7	4.6	0.7	4.5	0.6	39.4	900	Hardcap		
RRMDD383	1.63	3.27	1.64	307.3	584.7	61.4	201.2	29.9	4.6	19.3	2.7	14.2	2.4	6.1	0.8	5.2	0.7	51.6	1292	Hardcap		
RRMDD383	3.27	4.90	1.63	335.4	590.9	69.2	230.4	34.4	5.4	23.7	3.2	16.5	2.7	7.3	0.9	5.7	0.8	62.1	1389	Hardcap		
RRMDD383	4.90	5.65	0.75	358.9	696.5	107.7	443.2	90.3	14.8	59.7	6.3	24.0	3.4	6.7	0.8	4.4	0.6	72.1	1889	Mottled		
RRMDD383	5.65	6.40	0.75	115.2	237.1	28.0	99.3	20.8	3.7	16.5	2.1	10.0	1.6	4.1	0.6	3.5	0.5	41.4	584	Mottled		
RRMDD383	6.40	7.35	0.95	147.8	312.0	48.2	198.9	50.1	10.6	57.6	7.3	34.3	5.8	13.4	1.6	9.4	1.2	172.1	1070	Clay		
RRMDD383	7.35	8.30	0.95	118.5	256.7	36.2	140.6	31.3	6.4	33.4	4.6	22.7	4.1	10.3	1.3	7.6	1.1	118.7	793	Clay		
RRMDD383	8.30	9.25	0.95	87.3	185.5	22.3	82.2	15.9	3.1	16.1	2.5	14.0	2.9	8.0	1.1	6.9	1.0	92.4	541	Clay		
RRMDD383	9.25	10.20	0.95	56.5	106.7	13.0	50.3	12.1	2.8	17.1	3.2	21.2	5.0	15.3	2.2	14.2	2.0	189.2	511	Clay		
RRMDD383	10.20	11.00	0.80	68.1	125.3	15.7	62.1	15.8	3.7	24.9	5.0	33.9	7.8	23.8	3.5	22.5	3.2	259.1	674	Clay		
RRMDD383	11.00	12.00	1.00	74.5	164.6	20.2	80.0	24.6	7.1	60.2	13.6	100.4	25.2	80.0	11.9	74.9	10.9	980.4	1728	Clay		
RRMDD383	12.00	13.00	1.00	78.8	172.0	20.3	76.3	16.9	4.1	28.6	5.5	37.1	9.0	27.6	4.0	24.7	3.6	345.4	854	Clay		
RRMDD383	13.00	13.95	0.95	68.4	133.9	16.7	63.0	14.9	3.5	21.3	4.1	27.5	6.2	18.2	2.7	16.9	2.4	237.5	637	Upper Saprolite		
RRMDD383	13.95	14.90	0.95	42.7	67.9	8.7	37.1	11.5	3.0	19.2	3.7	24.7	5.6	16.5	2.4	14.5	2.1	197.5	457	Upper Saprolite		
RRMDD383	14.90	15.85	0.95	80.5	151.1	19.0	72.8	17.0	3.9	22.5	3.9	24.9	5.3	14.9	2.1	13.2	1.8	165.7	599	Upper Saprolite		
RRMDD383	15.85	16.80	0.95	88.1	195.9	28.5	116.3	23.9	5.0	25.9	3.9	22.4	4.4	11.8	1.6	9.8	1.4	132.1	671	Upper Saprolite		
RRMDD383	16.80	17.83	1.03	75.5	157.8	19.0	72.1	15.6	3.4	20.6	3.7	23.2	5.0	14.1	2.0	12.4	1.7	150.5	577	Upper Saprolite		
RRMDD383	17.83	18.86	1.03	61.1	115.0	13.6	47.7	10.4	2.4	14.7	2.6	16.4	3.5	10.5	1.4	8.6	1.3	110.2	419	Upper Saprolite		
RRMDD383	18.86	19.89	1.03	77.9	172.6	23.7	97.4	22.7	4.6	24.6	3.7	20.3	3.8	10.8	1.4	8.6	1.2	114.7	588	Upper Saprolite		
RRMDD383	19.89	20.92	1.03	76.8	162.1	18.4	65.8	13.7	2.8	17.3	2.9	17.7	3.8	11.1	1.5	9.2	1.4	122.4	527	Lower Saprolite		
RRMDD383	20.92	21.95	1.03	79.2	165.8	19.0	66.4	14.2	3.1	19.1	3.4	20.8	4.5	13.3	1.8	11.2	1.7	139.7	563	Lower Saprolite		
RRMDD383	21.95	23.00	1.05	68.5	144.3	16.6	60.9	13.1	2.8	17.3	3.0	18.0	3.8	11.7	1.5	9.9	1.5	123.9	497	Lower Saprolite		
RRMDD383	23.00	23.70	0.70	85.0	183.0	19.7	62.8	11.1	2.1	11.3	1.8	10.5	2.1	6.2	0.8	5.2	0.8	67.6	470	Lower Saprolite	19	723
RRMDD384	0.00	1.55	1.55	131.9	581.0	23.5	72.7	11.6	2.1	9.0	1.4	8.4	1.6	4.9	0.7	4.8	0.7	42.2	897	Hardcap		
RRMDD384	1.55	3.10	1.55	153.6	474.2	26.1	72.3	10.3	1.7	7.4	1.2	6.9	1.3	3.9	0.6	3.9	0.6	32.1	796	Transition		
RRMDD384	3.10	4.10	1.00	93.8	204.5	17.6	54.6	9.2	1.6	7.6	1.2	6.9	1.4	4.3	0.6	4.1	0.6	43.0	451	Clay	1	451
RRMDD384	4.10	5.10	1.00	76.3	141.9	14.0	43.4	7.2	1.4	5.9	1.0	5.3	1.1	3.2	0.5	3.1	0.5	33.4	338	Clay		
RRMDD384	5.10	6.10	1.00	65.8	103.2	11.9	37.1	6.5	1.2	5.2	0.9	4.8	0.9	2.9	0.4	2.8	0.4	29.8	274	Clay		
RRMDD384	6.10	7.10	1.00	56.1	92.0	11.0	37.9	6.8	1.2	5.5	0.9	5.6	1.2	3.4	0.5	3.7	0.6	35.6	262	Clay		
RRMDD384	7.10	8.10	1.00	44.6	91.0	8.1	26.7	4.8	0.9	4.0	0.7	4.2	0.9	2.6	0.4	2.9	0.4	27.0	219	Clay		
RRMDD384	8.10	9.10	1.00	25.7	100.6	6.1	20.9	4.0	0.8	3.7	0.7	4.0	0.8	2.4	0.3	2.6	0.3	24.5	197	Clay		
RRMDD384	9.10	10.10	1.00	32.3	80.3	7.2	25.8	4.8	1.1	4.2	0.7	4.1	0.8	2.3	0.3	2.2	0.3	23.7	190	Clay		
RRMDD384	10.10	11.10	1.00	40.2	169.5	8.5	29.6	5.5	1.2	4.5	0.7	4.0	0.7	2.1	0.3	2.1	0.3	23.1	292	Clay		
RRMDD384	11.10	12.10	1.00	43.6	104.0	10.9	39.1	7.0	1.5	5.3	0.8	4.1	0.8	2.1	0.3	2.2	0.3	25.4	247	Clay		
RRMDD384	12.10	13.10	1.00	45.9	83.7	12.1	43.2	7.6	1.7	5.7	0.8	4.2	0.9	2.3	0.3	2.2	0.3	26.8	238	Clay		
RRMDD384	13.10	14.00	0.90	54.8	156.6	14.4	50.7	9.0	2.0	6.7	0.9	5.1	1.0	2.6	0.4	2.5	0.4	31.5	339	Clay		
RRMDD384	14.00	14.90	0.90	57.6	139.4	14.3	50.7	8.8	2.1	6.6	0.9	4.8	0.9	2.6	0.4	2.3	0.4	30.1	322	Clay		
RRMDD384	14.90	15.84	0.94	29.2	56.8	6.7	23.4	4.6	1.1	3.5	0.6	3.4	0.7	2.2	0.3	2.4	0.4	22.4	158	Clay		
RRMDD384	15.84	16.86	1.02	27.2	39.8	6.4	23.1	4.0	1.1	3.4	0.5	3.2	0.7	1.9	0.3	2.1	0.3	21.3	135	Upper Saprolite		

Hole ID	From m	To m	Int. m	La_2O_3 ppm	CeO_2 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	>200ppm TREO-CeO_2 Interval Length (m)	>200ppm TREO-CeO_2 Interval TREO ppm
RRMDD384	16.86	17.88	1.02	27.0	38.2	6.1	20.9	3.8	0.9	3.1	0.4	2.5	0.5	1.6	0.2	1.5	0.3	16.3	123	Upper Saprolite		
RRMDD384	17.88	18.90	1.02	29.6	60.7	7.0	23.8	4.4	1.1	3.5	0.5	2.9	0.6	1.8	0.3	1.8	0.3	18.9	157	Upper Saprolite		
RRMDD384	18.90	19.93	1.03	36.1	144.3	8.3	29.7	5.1	1.3	4.0	0.6	3.5	0.7	1.9	0.3	2.1	0.3	21.6	260	Upper Saprolite		
RRMDD384	19.93	20.95	1.02	32.8	133.3	7.2	26.1	4.6	1.1	3.7	0.6	3.4	0.7	2.1	0.3	2.3	0.3	22.6	241	Upper Saprolite		
RRMDD384	20.95	21.98	1.03	45.5	101.7	10.1	36.9	6.1	1.3	4.7	0.7	3.9	0.8	2.3	0.3	2.3	0.4	26.2	243	Upper Saprolite		
RRMDD384	21.98	23.00	1.02	64.4	107.1	15.6	58.6	11.2	2.7	8.6	1.2	7.1	1.4	3.8	0.5	3.5	0.5	41.8	328	Upper Saprolite	1	328
RRMDD384	23.00	24.50	1.50	39.4	75.9	8.8	31.5	5.1	1.4	4.1	0.6	3.6	0.7	2.2	0.3	2.2	0.4	26.3	202	Lower Saprolite		
RRMDD385	0.00	1.85	1.85	95.8	431.2	18.4	59.1	9.2	1.6	7.7	1.2	6.9	1.4	4.3	0.7	4.4	0.6	37.6	680	Hardcap		
RRMDD385	1.85	3.68	1.83	80.1	889.4	14.7	48.1	7.9	1.3	5.7	1.0	5.8	1.2	3.5	0.6	3.9	0.6	28.1	1092	Hardcap		
RRMDD385	3.68	4.56	0.88	66.5	433.6	11.1	35.1	5.9	1.0	4.7	0.8	5.3	1.1	3.7	0.6	4.5	0.6	33.5	608	Mottled		
RRMDD385	4.56	5.45	0.89	83.2	173.2	13.5	41.9	6.7	1.1	5.1	0.8	5.4	1.1	3.7	0.6	4.6	0.7	36.7	378	Clay		
RRMDD385	5.45	6.33	0.88	82.9	112.4	16.0	51.1	7.3	1.2	5.6	0.9	5.7	1.2	3.6	0.6	4.3	0.7	38.7	332	Clay		
RRMDD385	6.33	7.23	0.90	96.8	708.8	16.4	51.6	8.1	1.4	6.0	1.0	6.5	1.3	4.0	0.7	4.7	0.7	39.0	947	Clay		
RRMDD385	7.23	8.10	0.87	299.1	200.2	35.2	93.4	12.7	2.1	8.1	1.2	7.6	1.5	4.6	0.7	5.3	0.8	43.8	716	Clay		
RRMDD385	8.10	9.01	0.91	190.6	240.2	28.3	82.6	11.0	1.8	6.6	0.9	5.7	1.1	3.4	0.6	4.2	0.7	33.7	611	Clay		
RRMDD385	9.01	9.93	0.92	92.7	161.5	17.7	56.6	8.3	1.4	5.6	0.9	5.5	1.1	3.6	0.6	4.3	0.7	34.3	395	Clay		
RRMDD385	9.93	10.84	0.91	86.3	195.3	18.0	58.9	8.9	1.5	5.8	0.9	5.4	1.1	3.4	0.5	4.2	0.7	34.2	425	Clay		
RRMDD385	10.84	11.63	0.79	101.7	161.5	19.5	62.5	9.6	1.6	6.4	1.0	5.5	1.1	3.5	0.6	4.1	0.6	33.4	413	Clay		
RRMDD385	11.63	12.53	0.90	137.2	186.1	22.8	69.8	10.1	1.7	6.5	0.9	5.6	1.1	3.3	0.5	3.9	0.6	31.9	482	Clay		
RRMDD385	12.53	13.37	0.84	265.1	378.3	38.4	105.8	14.4	2.5	10.3	1.5	8.9	1.7	4.8	0.8	5.2	0.7	51.3	890	Clay		
RRMDD385	13.37	14.21	0.84	139.0	204.5	24.0	73.2	11.5	2.0	7.9	1.2	7.0	1.4	4.0	0.6	4.4	0.7	39.4	521	Clay		
RRMDD385	14.21	14.96	0.75	99.8	204.5	30.8	114.5	21.0	3.9	16.3	2.4	13.8	2.7	7.6	1.1	7.5	1.1	83.6	611	Clay		
RRMDD385	14.96	15.70	0.74	129.0	243.8	38.5	147.5	26.3	5.0	22.1	3.3	19.6	3.9	11.0	1.6	9.9	1.5	142.2	805	Clay		
RRMDD385	15.70	16.70	1.00	205.8	388.2	75.0	300.9	59.4	11.3	47.7	6.9	39.7	7.3	19.6	2.7	16.8	2.2	210.2	1394	Clay		
RRMDD385	16.70	17.70	1.00	258.0	362.4	99.7	439.7	102.5	21.7	98.9	15.4	93.7	17.5	47.5	6.4	40.2	5.4	480.0	2089	Clay		
RRMDD385	17.70	18.70	1.00	204.7	336.6	48.3	192.5	41.3	8.9	42.4	6.6	40.3	7.9	21.9	3.0	19.2	2.7	241.3	1217	Clay		
RRMDD385	18.70	19.70	1.00	164.8	287.4	46.0	194.2	40.2	8.5	43.1	6.5	40.3	8.2	22.8	3.1	19.2	2.7	266.7	1154	Clay		
RRMDD385	19.70	20.68	0.98	160.7	346.4	51.7	222.8	47.5	10.5	52.0	7.9	49.1	10.2	28.0	3.8	23.7	3.4	320.0	1338	Clay		
RRMDD385	20.68	21.54	0.86	215.2	522.1	76.1	335.9	66.4	14.5	73.3	10.4	63.2	12.9	36.4	4.9	31.1	4.5	439.4	1906	Clay		
RRMDD385	21.54	22.40	0.86	174.7	438.5	57.1	244.9	50.3	10.7	53.9	8.0	48.0	10.1	28.5	3.9	24.4	3.6	355.6	1512	Clay		
RRMDD385	22.40	23.29	0.89	101.1	242.0	26.6	102.6	18.7	3.8	18.7	2.7	16.5	3.5	10.0	1.4	9.2	1.4	135.2	693	Clay		
RRMDD385	23.29	24.17	0.88	164.2	369.7	35.5	121.9	19.8	3.8	15.7	2.1	12.5	2.5	7.0	1.0	7.0	1.1	86.2	850	Clay		
RRMDD385	24.17	25.06	0.89	123.7	264.1	22.5	74.3	12.0	2.4	10.6	1.5	9.3	2.0	5.7	0.9	5.7	0.9	74.0	610	Upper Saprolite		
RRMDD385	25.06	25.95	0.89	70.8	172.6	21.0	85.8	17.6	3.8	18.1	2.8	16.0	3.5	10.2	1.4	9.3	1.4	124.2	558	Upper Saprolite		
RRMDD385	25.95	26.83	0.88	69.3	154.2	14.3	50.9	9.2	1.9	8.4	1.3	7.2	1.6	4.8	0.7	5.1	0.8	54.2	384	Upper Saprolite		
RRMDD385	26.83	27.83	1.00	56.4	145.0	16.1	59.3	11.8	2.4	10.0	1.5	8.8	1.8	5.5	0.9	6.2	1.0	61.6	388	Upper Saprolite		
RRMDD385	27.83	28.83	1.00	75.2	196.5	19.8	71.7	12.8	2.5	11.0	1.6	9.1	2.0	5.9	0.9	6.8	1.1	72.0	489	Upper Saprolite		
RRMDD385	28.83	29.83	1.00	72.8	183.6	18.8	66.6	11.9	2.3	9.8	1.4	7.9	1.7	5.2	0.8	5.7	1.0	62.6	452	Upper Saprolite	25	815
RRMDD385	29.83	30.78	0.95	103.8	260.4	24.4	86.8	15.4	2.9	12.1	1.8	10.1	2.1	6.1	0.9	6.3	1.0	72.3	606	Saprock		
RRMDD385	30.78	32.10	1.32	108.5	267.8	24.9	87.1	15.6	3.1	12.6	1.9	10.5	2.0	5.9	0.9	5.8	0.9	64.8	612	Saprock		
RRMDD386	0.00	1.73	1.73	95.6	321.8	20.2	65.0	10.7	1.8	8.3	1.4	8.1	1.5	4.8	0.7	4.8	0.7	45.2	591	Soil		
RRMDD386	1.73	3.46	1.73	79.9	543.0	14.8	46.1	6.8	1.1	4.8	0.8	4.7	0.9	2.9	0.4	3.1	0.5	25.8	735	Hardcap		
RRMDD386	3.46	4.28	0.82	44.7	94.7	8.8	28.5	5.0	0.9	4.1	0.7	4.1	0.9	2.8	0.5	3.3	0.5	26.2	226	Clay		

Hole ID	From m	To m	Int. m	La_2O_3 ppm	CeO_2 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	>200ppm TREO-CeO_2 Interval Length (m)	>200ppm TREO-CeO_2 Interval TREO ppm
RRMDD386	4.28	5.21	0.93	111.3	192.9	26.3	87.1	14.8	2.5	9.7	1.3	7.0	1.3	3.6	0.6	3.6	0.5	34.7	497	Clay		
RRMDD386	5.21	6.14	0.93	132.5	229.7	32.5	114.8	19.0	3.2	11.9	1.7	8.7	1.5	4.2	0.6	3.8	0.5	40.3	605	Clay		
RRMDD386	6.14	7.07	0.93	170.1	335.4	40.7	141.7	22.4	3.7	13.9	2.0	9.9	1.7	4.5	0.6	4.2	0.6	45.5	797	Clay		
RRMDD386	7.07	8.00	0.93	167.7	342.7	40.1	139.4	22.3	3.8	14.1	2.0	10.4	1.8	5.0	0.7	4.6	0.6	48.4	804	Clay		
RRMDD386	8.00	8.94	0.94	170.1	791.1	41.1	143.5	23.7	3.9	15.6	2.3	11.6	2.1	5.7	0.8	5.5	0.8	60.8	1278	Clay		
RRMDD386	8.94	9.80	0.86	167.1	468.0	40.7	143.5	23.8	4.1	16.1	2.4	12.3	2.3	6.4	0.9	5.7	0.9	70.1	964	Clay		
RRMDD386	9.80	10.67	0.87	209.3	379.6	51.2	177.9	29.5	4.9	18.4	2.7	13.7	2.5	6.6	0.9	5.8	0.8	69.8	974	Clay		
RRMDD386	10.67	11.52	0.85	190.6	358.7	44.7	160.4	27.3	4.8	18.9	2.8	14.6	2.6	7.2	1.0	6.0	0.9	70.5	911	Clay		
RRMDD386	11.52	12.38	0.86	259.2	561.4	52.7	185.5	30.7	5.3	20.5	2.9	14.5	2.4	6.2	0.8	5.3	0.7	63.1	1211	Clay		
RRMDD386	12.38	13.26	0.88	194.1	460.7	45.1	161.0	26.7	4.5	18.0	2.6	13.0	2.3	6.0	0.8	5.4	0.8	61.3	1002	Clay		
RRMDD386	13.26	14.13	0.87	209.9	443.5	46.6	169.1	28.2	4.9	22.0	3.4	18.4	3.6	10.0	1.4	8.4	1.2	121.7	1092	Clay		
RRMDD386	14.13	15.00	0.87	200.0	428.7	43.9	162.7	27.9	5.2	23.1	3.7	21.1	4.1	11.7	1.6	9.9	1.4	134.6	1079	Clay		
RRMDD386	15.00	15.87	0.87	152.5	346.4	31.5	115.2	19.1	3.5	15.1	2.3	12.6	2.5	6.8	1.0	6.2	0.9	76.2	792	Clay		
RRMDD386	15.87	16.74	0.87	158.9	294.8	31.8	118.4	19.7	3.6	15.8	2.5	12.9	2.4	6.5	0.9	5.8	0.8	71.6	746	Clay		
RRMDD386	16.74	17.62	0.88	190.0	459.4	37.9	141.1	23.1	4.2	18.4	2.6	13.4	2.4	6.5	0.9	5.4	0.8	69.7	976	Upper Saprolite		
RRMDD386	17.62	18.50	0.88	161.8	308.3	35.0	136.5	25.4	5.1	23.3	3.6	19.7	3.7	10.2	1.4	8.5	1.2	111.2	855	Upper Saprolite		
RRMDD386	18.50	19.30	0.80	89.1	202.1	18.7	70.6	13.6	2.6	12.3	1.9	10.5	2.2	6.2	0.9	5.8	0.9	68.4	506	Lower Saprolite	15	888
RRMDD387	0.00	1.78	1.78	78.6	658.4	14.8	48.4	8.0	1.3	6.7	1.1	6.1	1.2	3.8	0.6	4.0	0.6	35.9	870	Hardcap		
RRMDD387	1.78	3.55	1.77	51.4	220.5	11.9	41.8	7.1	1.2	6.1	1.0	5.9	1.2	3.9	0.6	3.9	0.6	36.3	393	Transition		
RRMDD387	3.55	4.43	0.88	69.1	186.1	15.7	53.7	9.7	1.6	8.0	1.3	7.7	1.5	4.8	0.8	5.2	0.8	49.1	415	Clay		
RRMDD387	4.43	5.31	0.88	86.7	158.5	19.0	64.2	11.0	1.9	9.3	1.4	8.6	1.7	5.2	0.8	5.2	0.8	59.4	434	Clay		
RRMDD387	5.31	6.19	0.88	77.5	189.8	16.9	56.6	9.7	1.7	8.2	1.2	7.5	1.5	4.5	0.7	4.7	0.7	54.4	436	Clay		
RRMDD387	6.19	7.07	0.88	82.9	129.6	17.8	62.2	10.2	1.8	8.5	1.3	7.4	1.6	4.5	0.7	4.4	0.7	55.0	388	Clay		
RRMDD387	7.07	7.95	0.88	110.9	173.8	24.8	83.6	13.9	2.5	11.2	1.6	9.6	2.0	5.6	0.9	5.2	0.8	68.4	515	Clay		
RRMDD387	7.95	8.86	0.91	134.9	178.1	30.7	103.1	17.2	3.1	13.3	1.9	10.7	2.2	6.1	0.9	5.7	0.9	75.9	585	Clay		
RRMDD387	8.86	9.77	0.91	177.7	173.2	40.6	133.6	21.8	3.7	15.7	2.2	12.5	2.4	6.7	1.0	6.2	0.9	81.1	679	Clay		
RRMDD387	9.77	10.68	0.91	191.2	182.4	44.3	148.1	24.5	4.3	17.3	2.4	13.3	2.4	7.0	1.0	6.3	0.9	83.4	729	Clay		
RRMDD387	10.68	11.59	0.91	181.2	178.7	44.2	149.9	25.6	4.5	18.6	2.6	13.8	2.6	7.1	1.0	6.7	1.0	81.5	719	Clay		
RRMDD387	11.59	12.50	0.91	282.6	454.5	71.8	237.9	39.1	6.5	25.2	3.4	18.1	3.1	8.6	1.3	7.4	1.1	95.1	1256	Upper Saprolite		
RRMDD387	12.50	13.40	0.90	228.7	312.0	56.4	186.0	30.8	5.4	20.9	2.9	15.6	2.7	7.8	1.1	6.8	1.0	83.9	962	Upper Saprolite		
RRMDD387	13.40	14.65	1.25	197.6	280.1	49.7	169.1	30.3	5.4	21.4	3.0	15.3	2.6	7.1	1.0	6.4	0.9	72.5	862	Lower Saprolite	11	674
RRMDD387	14.65	15.90	1.25	181.8	219.3	40.7	141.7	24.0	4.2	18.0	2.4	12.7	2.2	5.8	0.9	5.3	0.7	58.0	718	Saprock		
RRMDD388	0.00	1.88	1.88	52.0	406.6	10.4	34.9	5.9	1.0	4.8	0.8	5.0	1.0	3.2	0.5	3.4	0.5	30.4	560	Hardcap		
RRMDD388	1.88	2.87	0.99	49.0	66.2	8.8	31.0	5.3	0.9	4.7	0.8	5.0	1.1	3.5	0.6	4.0	0.7	36.3	218	Mottled		
RRMDD388	2.87	3.86	0.99	64.9	86.0	11.6	40.9	7.1	1.3	6.1	1.0	5.7	1.2	3.9	0.6	4.1	0.7	40.9	276	Mottled		
RRMDD388	3.86	4.85	0.99	80.7	174.4	17.5	62.3	10.8	1.9	8.6	1.3	7.5	1.5	4.8	0.7	4.7	0.8	51.7	429	Clay		
RRMDD388	4.85	5.84	0.99	134.9	235.2	30.7	109.4	19.5	3.3	15.1	2.3	12.4	2.5	7.2	1.0	6.6	1.0	82.5	664	Clay		
RRMDD388	5.84	6.83	0.99	141.3	159.1	32.5	114.9	20.1	3.5	15.4	2.2	12.4	2.5	7.2	1.1	6.5	1.0	81.7	601	Clay		
RRMDD388	6.83	7.79	0.96	130.2	144.3	29.4	104.6	18.4	3.2	13.9	2.0	11.2	2.3	6.9	0.9	5.9	0.9	77.8	552	Clay		
RRMDD388	7.79	8.31	0.52	182.4	211.3	42.9	150.5	26.0	4.6	19.0	2.9	15.8	3.2	9.2	1.3	7.9	1.2	112.6	791	Clay		
RRMDD388	8.31	9.28	0.97	122.0	251.8	28.0	99.6	17.7	3.1	13.7	2.0	11.1	2.3	6.6	0.9	6.2	1.0	74.9	641	Clay		
RRMDD388	9.28	10.25	0.97	129.0	233.4	29.2	103.5	18.3	3.1	14.0	2.1	11.6	2.4	7.0	1.0	6.2	0.9	80.6	642	Clay		
RRMDD388	10.25	10.95	0.70	169.5	289.9	40.4	140.0	23.0	4.4	18.6	2.7	15.3	3.0	8.6	1.3	8.1	1.3	108.7	834	Upper Saprolite		

																					>200ppm TREO-CeO_2 Interval	
Hole ID	From m	To m	Int. m	La_2O_3 ppm	CeO_2 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
RRMDD388	10.95	11.90	0.95	184.1	445.9	41.9	144.1	23.4	4.4	18.5	2.8	15.0	2.9	8.3	1.2	7.5	1.1	101.7	1003	Upper Saprolite		
RRMDD388	11.90	12.85	0.95	201.1	339.0	44.9	152.8	24.5	4.5	18.4	2.7	14.6	2.8	7.6	1.1	7.0	1.0	92.2	914	Upper Saprolite		
RRMDD388	12.85	13.80	0.95	145.4	460.7	34.3	116.6	18.8	3.5	14.7	2.2	11.9	2.4	6.8	1.0	6.4	1.0	84.1	910	Upper Saprolite		
RRMDD388	13.80	14.75	0.95	183.5	1034.3	41.1	138.8	22.8	4.2	17.6	2.6	14.5	2.8	7.9	1.2	7.8	1.2	97.3	1578	Upper Saprolite		
RRMDD388	14.75	15.70	0.95	307.3	378.3	69.2	247.3	42.3	8.0	34.9	5.2	28.2	5.2	14.4	2.1	12.8	1.8	168.3	1325	Upper Saprolite	12	835
RRMDD388	15.70	16.94	1.24	429.2	346.4	82.5	318.4	55.9	11.7	59.0	9.0	51.5	10.3	29.2	4.1	25.4	3.7	351.8	1788	Saprock		
RRMDD388	16.94	18.20	1.26	87.1	160.9	17.5	64.3	11.0	2.4	10.1	1.5	8.5	1.8	5.3	0.8	4.6	0.7	81.9	458	Saprock		
RRMDD389	0.00	1.68	1.68	112.8	601.9	20.1	60.0	8.9	1.5	6.4	1.0	5.7	1.2	3.8	0.6	4.0	0.6	32.0	861	Hardcap		
RRMDD389	1.68	3.35	1.67	117.2	794.8	21.1	64.0	9.7	1.5	6.8	1.2	6.2	1.2	4.0	0.6	4.2	0.6	32.4	1065	Hardcap		
RRMDD389	3.35	5.03	1.68	133.1	734.6	24.9	76.3	11.9	1.8	7.9	1.3	7.3	1.4	4.5	0.7	4.5	0.7	37.0	1048	Hardcap		
RRMDD389	5.03	6.70	1.67	134.9	411.5	21.4	61.8	9.0	1.5	6.1	1.0	6.0	1.2	3.6	0.5	3.8	0.6	31.6	694	Hardcap		
RRMDD389	6.70	7.51	0.81	103.1	187.3	14.0	39.3	5.8	1.0	3.9	0.7	3.9	0.8	2.6	0.4	2.8	0.5	23.5	390	Transition		
RRMDD389	7.51	8.34	0.83	63.9	251.8	13.3	47.0	8.2	1.4	6.3	1.0	6.0	1.3	3.8	0.6	3.9	0.6	37.5	447	Clay		
RRMDD389	8.34	9.17	0.83	108.2	547.9	25.6	91.0	15.9	2.6	11.9	1.8	9.8	2.0	5.8	0.8	5.4	0.8	63.2	893	Clay		
RRMDD389	9.17	10.00	0.83	102.5	193.5	24.2	85.3	14.7	2.4	10.9	1.7	9.4	1.9	5.5	0.8	5.2	0.8	59.7	518	Clay		
RRMDD389	10.00	10.83	0.83	160.7	234.0	40.1	144.6	26.0	4.3	17.7	2.7	13.8	2.7	7.8	1.1	6.5	1.0	83.3	746	Clay		
RRMDD389	10.83	11.68	0.85	155.4	269.0	37.7	132.4	23.5	3.9	15.9	2.3	12.6	2.5	7.0	0.9	6.2	0.9	74.7	745	Clay		
RRMDD389	11.68	12.62	0.94	154.2	344.0	38.5	137.6	24.1	4.0	16.8	2.5	12.9	2.5	7.0	1.0	5.9	0.9	74.4	826	Clay		
RRMDD389	12.62	13.56	0.94	201.7	576.1	48.3	174.4	30.4	5.0	20.3	3.0	14.9	2.8	7.5	1.0	6.4	0.9	79.1	1172	Clay		
RRMDD389	13.56	14.50	0.94	190.0	273.9	47.4	169.7	30.6	5.2	20.6	2.8	14.3	2.5	6.8	0.9	5.9	0.8	67.4	839	Clay		
RRMDD389	14.50	15.45	0.95	197.6	280.1	49.1	177.3	31.7	5.3	21.4	3.1	15.1	2.7	7.2	1.0	6.2	0.9	67.3	866	Clay		
RRMDD389	15.45	16.40	0.95	191.2	464.3	43.1	156.9	27.7	4.9	20.7	3.3	17.7	3.6	10.4	1.5	9.3	1.4	104.6	1061	Clay		
RRMDD389	16.40	17.34	0.94	140.7	452.1	31.8	117.2	20.4	3.6	14.9	2.2	11.4	2.2	6.1	0.8	5.2	0.8	65.5	875	Clay		
RRMDD389	17.34	18.28	0.94	106.8	216.2	22.2	79.9	13.9	2.5	11.3	1.6	8.5	1.7	5.0	0.7	4.2	0.6	51.0	526	Clay		
RRMDD389	18.28	19.22	0.94	122.6	305.9	25.9	93.9	16.6	3.1	13.1	1.9	10.1	1.9	5.7	0.8	5.1	0.7	60.2	668	Clay		
RRMDD389	19.22	20.18	0.96	124.9	249.4	25.0	93.8	16.8	3.1	14.6	2.1	10.8	2.2	6.0	0.8	5.2	0.8	69.1	625	Clay		
RRMDD389	20.18	21.22	1.04	80.9	201.5	16.9	62.3	11.2	2.1	9.2	1.3	7.3	1.5	4.4	0.6	3.8	0.6	50.5	454	Upper Saprolite	13	772
RRMDD389	21.22	22.26	1.04	79.3	216.2	18.2	65.0	11.8	2.2	8.7	1.3	6.8	1.4	3.7	0.5	3.5	0.5	40.0	459	Saprock		
RRMDD389	22.26	23.30	1.04	71.4	166.4	15.9	56.6	10.6	1.9	7.5	1.1	6.3	1.3	3.5	0.5	3.3	0.5	38.5	385	Saprock		

JORC Code, 2012 Edition – Table 1 report

Section 1 Sampling Techniques and Data

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

Criteria	JORC Code explanation	Commentary
Sampling techniques	• *Nature and quality of sampling (eg cut channels, random chips, or specific specialised industry standard measurement tools appropriate to the minerals under investigation, such as down hole gamma sondes, or handheld XRF instruments, etc). These examples should not be taken as limiting the broad meaning of sampling.* • *Include reference to measures taken to ensure sample representivity and the appropriate calibration of any measurement tools or systems used.* • *Aspects of the determination of mineralisation that are Material to the Public Report.* • *In cases where 'industry standard' work has been done this would be relatively simple (eg 'reverse circulation drilling was used to obtain 1 m samples from which 3 kg was pulverised to produce a 30 g charge for fire assay'). In other cases more explanation may be required, such as where there is coarse gold that has inherent sampling problems. Unusual commodities or mineralisation types (eg submarine nodules) may warrant disclosure of detailed information.*	**Diamond Core Drilling** Drill core was collected from a core barrel and placed in appropriately marked core trays. Down hole core run depths were measured and marked with core blocks. Core was measured for core loss and core photography and geological logging completed. Sample lengths were determined by geological boundaries with a maximum sample length of 1 metre applied in clay zones and up to 2 metres in laterite zones where core recovery was occasionally low. Where the core contained continuous lengths of soft clay a carving knife was used to cut the core. When the core was too hard to knife cut it was cut using an electric core saw. Using either method core was initial cut in half then one half was further cut in half to give quarter core. Quarter core was submitted to ALS for chemical analysis using industry standard sample preparation and analytical techniques. Half core was collected for metallurgical testwork.
Drilling techniques	• *Drill type (eg core, reverse circulation, open-hole hammer, rotary air blast, auger, Bangka, sonic, etc) and details (eg core diameter, triple or standard tube, depth of diamond tails, face-sampling bit or other type, whether core is oriented and if so, by what method, etc).*	**Diamond Core Drilling** Core size was HQ triple tube. The core was not oriented (vertical)
Drill sample recovery	• *Method of recording and assessing core and chip sample recoveries and results assessed.* • *Measures taken to maximise sample recovery and ensure representative nature of the samples.*	**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%.

Criteria	JORC Code explanation	Commentary
	• *Whether a relationship exists between sample recovery and grade and whether sample bias may have occurred due to preferential loss/gain of fine/coarse material.*	No relationship exists between core recovery and grade.
Logging	• *Whether core and chip samples have been geologically and geotechnically logged to a level of detail to support appropriate Mineral Resource estimation, mining studies and metallurgical studies.* • *Whether logging is qualitative or quantitative in nature. Core (or costean, channel, etc) photography.* • *The total length and percentage of the relevant intersections logged.*	All (100%) drill core has been geologically logged and core photographs taken. Logging is qualitative with description of colour, weathering status, alteration, 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.
Sub-sampling techniques and sample preparation	• *If core, whether cut or sawn and whether quarter, half or all core taken.* • *If non-core, whether riffled, tube sampled, rotary split, etc and whether sampled wet or dry.* • *For all sample types, the nature, quality and appropriateness of the sample preparation technique.* • *Quality control procedures adopted for all sub-sampling stages to maximise representivity of samples.* • *Measures taken to ensure that the sampling is representative of the in situ material collected, including for instance results for field duplicate/second-half sampling.* • *Whether sample sizes are appropriate to the grain size of the material being sampled.*	**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.
Quality of assay data	• *The nature, quality and appropriateness of the assaying and laboratory procedures used and whether the technique is*	**Assay and Laboratory Procedures – All Samples**

<table>
<tr><th>Criteria</th><th>JORC Code explanation</th><th>Commentary</th></tr>
<tr><td>and laboratory tests</td><td>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>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><tr><td>CRU-21</td><td>Crush entire sample</td></tr><tr><td>CRU-31</td><td>Fine crushing – 70% <2mm</td></tr><tr><td>SPL-22Y</td><td>Split sample – Boyd Rotary Splitter</td></tr><tr><td>PUL-31h</td><td>Pulverise 750g to 85% passing 75 micron</td></tr><tr><td>CRU-QC</td><td>Crushing QC Test</td></tr><tr><td>PUL-QC</td><td>Pulverising QC test</td></tr></table>
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:

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

Criteria	JORC Code explanation	Commentary
		Analysis for scandium (Sc) was by Lithium Borate Fusion ICP-AES (ALS code Sc-ICP06). The sample preparation and assay techniques used are industry standard and provide a total analysis. All laboratories used are ISO 17025 accredited **QAQC** <u>Diamond Drill Core Samples</u> • Analytical Standards CRM AMIS0275 and AMIS0276 and a specific Makuutu CRM MUIACREI01 were included in sample batches at a ratio of 1:25 to drill samples submitted. This is an acceptable ratio. The assay results for the standards were consistent with the certified levels of accuracy and precision and no bias is evident. • Blanks CRM blanks AMIS0681 and OREAS22e were included in sample batches at a ratio of 1:25 to drill samples submitted for analysis. This is an acceptable ratio. Both CRM blanks contain some REE, with elements critical elements Ce, Nd, Dy and Y present in small quantities. The analysis results were consistent with the certified values for the blanks. No laboratory contamination or bias is evident from these results. • Duplicates Field duplicate sampling was conducted at a ratio of 1:25 samples. Duplicates were created by lengthways halving the ¼ core primary sample into 2 identical portions. Duplicate samples were allocated separate sample numbers and submitted with the same analytical batch as the primary sample. Variability between duplicate results is considered acceptable and no sampling bias is evident. Laboratory inserted standards, blanks and duplicates were analysed as per industry standard practice. There is no evidence of bias from these results.

<table>
<tr><th>Criteria</th><th>JORC Code explanation</th><th>Commentary</th></tr>
<tr><td>Verification of sampling and assaying</td><td>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.</td><td>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.

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)

<table>
<tr><th>Element ppm</th><th>Conversion Factor</th><th>Oxide Form</th></tr>
<tr><td>Ce</td><td>1.2284</td><td>CeO_2</td></tr>
<tr><td>Dy</td><td>1.1477</td><td>Dy_2O_3</td></tr>
<tr><td>Er</td><td>1.1435</td><td>Er_2O_3</td></tr>
<tr><td>Eu</td><td>1.1579</td><td>Eu_2O_3</td></tr>
</table>
</td></tr>
</table>

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	1.2082	Pr_6O_{11}
Sm	1.1596	Sm_2O_3
Tb	1.1762	Tb_4O_7
Tm	1.1421	Tm_2O_3
Y	1.2699	Y_2O_3
Yb	1.1387	Yb_2O_3
Sc	1.5338	Sc_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:

Note that Y_2O_3 is included in the TREO, HREO and CREO calculation.

TREO (Total Rare Earth Oxide) = La_2O_3 + CeO_2 + Pr_6O_{11} + Nd_2O_3 + Sm_2O_3 + Eu_2O_3 + Gd_2O_3 + Tb_4O_7 + Dy_2O_3 + Ho_2O_3 + Er_2O_3 + Tm_2O_3 + Yb_2O_3 + Y_2O_3 + Lu_2O_3.

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

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

(From U.S. Department of Energy, Critical Materials Strategy, December 2011)

LREO (Light Rare Earth Oxide) = La_2O_3 + CeO2 + Pr_6O_{11} + Nd_2O_3

NdPr = Nd_2O_3 + Pr_6O_{11}

HREO% of TREO= HREO/TREO x 100

In elemental form the classifications are:

Criteria	JORC Code explanation	Commentary
		Note that Y is included in the TREE, HREE and CREE calculation. TREE: La+Ce+Pr+Nd+Sm+Eu+Gd+Tb+Dy+Ho+Er+Tm+Yb+Lu+Y HREE: Sm+Eu+Gd+Tb+Dy+Ho+Er+Tm+Yb+Y+Lu CREE: Nd+Eu+Tb+Dy+Y LREE: La+Ce+Pr+Nd
Location of data points	• *Accuracy and quality of surveys used to locate drill holes (collar and down-hole surveys), trenches, mine workings and other locations used 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 by professional surveyors using DGPS. The general accuracy for x,y and z is ± 0.5m. 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 geological structure	• *Whether the orientation of sampling achieves unbiased sampling of possible structures and the extent to which this is known, considering the deposit type.* • *If the relationship between the drilling orientation and the orientation of key mineralised structures is considered to have introduced a sampling bias, this should be assessed and reported if material.*	The Makuutu mineralisation is interpreted to be in a flat lying weathered profile including cover soil, lateritic caprock, clays transitioning to saprolite and saprock. Below the saprock are fresh shales, siltstones and mudstones. Pit mapping and diamond drilling indicate the mineralised regolith to be generally horizontal All drill holes are vertical which is appropriate for horizontal bedding and regolith profile.

Criteria	JORC Code explanation	Commentary
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 (3) granted Retention Licences (RL1693, RL00007 and RL00234), three (3) Exploration Licences (EL00147, EL00148 and EL00257) All granted licences are in good standing with no known impediments. The Makuutu Rare Earths Project is 100% owned by Rwenzori Rare Metals Limited ("RRM"), a Ugandan registered company. IonicRE currently has earned a 51% shareholding in RRM and may increase its shareholding to 60% by meeting further commitments as follows: 1. IonicRE to fund to completion of a Bankable Feasibility Study (BFS) to earn an additional 9% interest for a cumulative 60% interest in RRM. 2. Milestone payments, payable in cash or IonicRE shares at the election of the Vendor, as follows: a. US$375,000 on production of 10 kg of mixed rare-earth product from pilot or demonstration plant activities; and b. US$375,000 on conversion of existing licences to mining licences.

Criteria	JORC Code explanation	Commentary
		At any time should IonicRE 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 IonicRE and reclaim all interest earnt by IonicRE.
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 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.

Criteria	JORC Code explanation	Commentary
		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 detract from the understanding of the report, the Competent Person should clearly explain why this is the case.*
		The material information for drill holes relating to this announcement are contained in Table 3.

Criteria	JORC Code explanation	Commentary
Data aggregation methods	• *In reporting Exploration Results, weighting averaging techniques, maximum and/or minimum grade truncations (eg cutting of high grades) and cut-off grades are usually Material and should be stated.* • *Where aggregate intercepts incorporate short lengths of high-grade results and longer lengths of low grade results, the procedure used for such aggregation should be stated and some typical examples of such aggregations should be shown in detail.* • *The assumptions used for any reporting of metal equivalent values should be clearly stated.*	A lower cut-off of 200 ppm TREO-CeO_2 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	• *Other exploration data, if meaningful and material, should be reported including (but not limited to): geological observations; geophysical survey results; geochemical survey results; bulk*	Metallurgical leach testing was previously conducted on samples derived from exploration pits, RAB drilling, and one 8.5 tonne bulk pit sample.

Criteria	JORC Code explanation	Commentary
exploration data	*samples – size and method of treatment; metallurgical test results; bulk density, groundwater, geotechnical and rock characteristics; potential deleterious or contaminating substances.*	In 2012, 5 pit samples were sent to the Toronto Aqueous Research Laboratory at the University of Toronto for leachability tests In 2017, 2 pit samples were sent to SGS Laboratory Toronto for leachability tests. 2017/18, 29 samples were collected from 7 RAB drill holes. 20 of these were consigned to SGS Canada and 4 to Aqueous Process Research (APR) in Ontario Canada. The remaining 5 samples were consigned to Bio Lantanidos in Chile. 2018/19, 8.5 tonne bulk sample was consigned to Mintek, South Africa, to evaluate using Resin-in-leach (RIL) technology for the recovery of REE. 2019: 118 samples from 31 holes from the 2019 diamond drilling program had preliminary variation testwork conducted TREE-Ce extraction ranged from 3% to 75%. 2020: Testing of composite samples with lower extractions from the 2019 variation testing using increasing rates of acid addition and leach time. Significant increases in extractions were achieved. 2020: Testing of composited samples from two exploration holes east of the Makuutu Central Zone provided an average extraction of TREE-Ce recovery of 41% @ pH1 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.