23 November 2023

MAKUUTU PHASE 5 INFILL TRANCHE 1 DRILLING ASSAYS PROVIDE THICKER AND HIGHER-GRADE RESULTS, SHOWS EXTENTION POTENTIAL TO THE EAST

- **Clay hosted rare earth intersections achieved in 53 of 56 infill core drill holes received, including;**
  - **9.9 metres at 1,163 ppm TREO from 4.2 metres in RRMDD767**
  - **6.7 metres at 1,008 ppm TREO from 9.5 metres in RRMDD713**
  - **2.7 metres at 977 ppm TREO from 4.4 metres in RRMDD734**
  - **9.9 metres at 952 ppm TREO from 3.9 metres in RRMDD712**
  - **7.3 metres at 828 ppm TREO from 4.8 metres in RRMDD724**
  - **6.8 metres at 792 ppm TREO from 5.3 metres in RRMDD758**
  - **21.8 metres at 783 ppm TREO from 4.7 metres in RRMDD762**
- **Resource extension drilling shows mineralisation extends at least 1.8 kilometres west of current mineral resource limit on Retention Licence (RL) 00007;**
- **Infill drilling results thicker and higher-grade intersections than previous wide spaced drilling;**
- **Samples for the remaining 72 holes are being analysed or in transit from Uganda to assay laboratory; and**
- **Makuutu's basket contains 71% magnet and heavy rare earths content, and is one of the most advanced heavy rare earth projects globally available as a source for new supply chains emerging across Europe, the US, and Asia.**

Ionic Rare Earths Limited ("IonicRE" or "the Company") (ASX: IXR) is pleased to advise initial drill results from the Phase 5 resource infill and extension drilling at its 60 per cent owned Makuutu Heavy Rare Earths Project ("Makuutu" or "the Project") in Uganda.

The Company is progressing the development at the Makuutu Heavy Rare Earths Project through local Ugandan operating entity Rwenzori Rare Metals Limited ("RRM").

Assay results for 56 holes of the 128-hole Phase 5 resource infill and extension drilling program completed on Retention Licence (RL) 00007 have been received. The program is intended to increase resource estimation confidence from inferred to indicated status on resource areas A and B, and to test extensions of those areas to expand the mineral resource area. Figure 1 is a plan of the Makuutu 2022 Mineral Resource Estimate (MRE) and exploration target areas with MRE areas A and B located on the western end of the deposit located within RL00007.

Intersections compiled above the MRE lower cut-off of 200ppm Total Rare Earth Oxide less Cerium Oxide (TREO-CeO_2) are listed in Table 1 and shown diagrammatically in plan view in Figure 2.

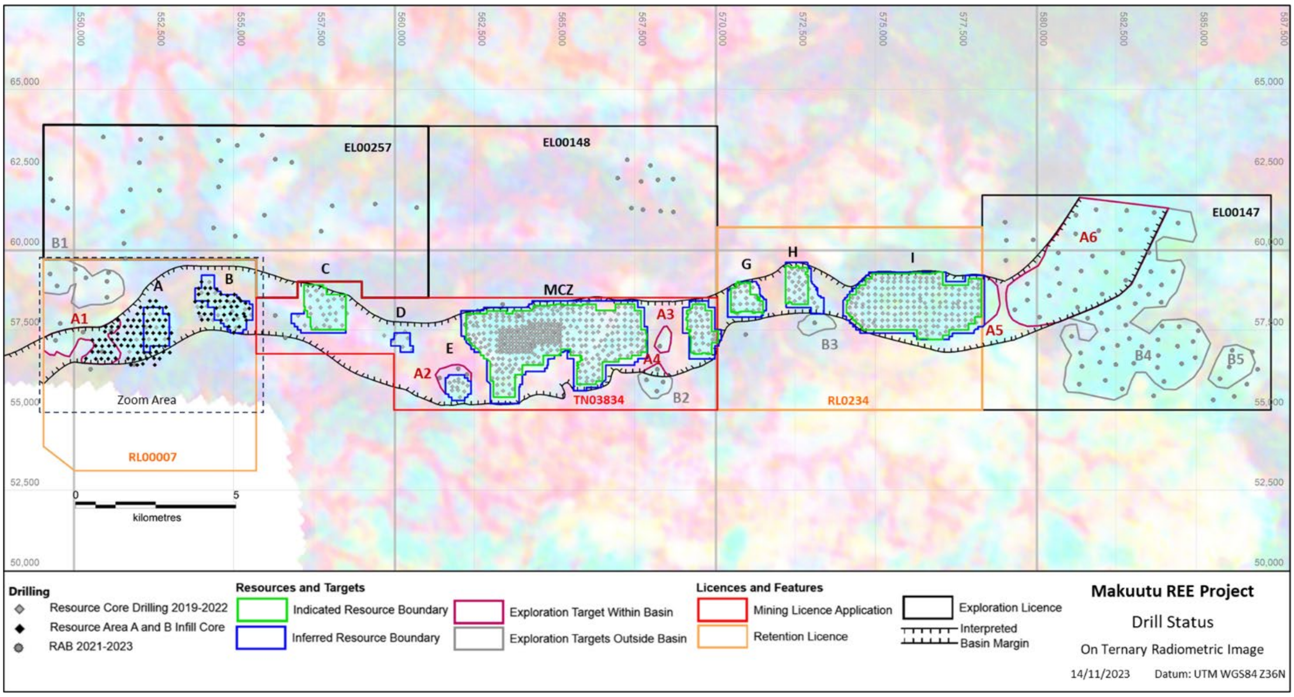

Figure 1: Makuutu project drill status plan showing location of infill and extension drilling results on licence RL00007, MRE Areas A and B.

Drilling was on a 200 metre spaced pattern with forty nine (49) of the drill holes being extensions to the MRE and seven (7) are MRE Area A infill holes. Figure 2 shows the core hole locations (diamond shape) with intersection thickness (point size) and TREO grade (point colour) with the reported 200 metre spaced holes with bold hole numbers and the previous 400m spaced holes in italic hole numbers. Previously reported regional exploration RAB drill holes are also shown (round points).

The 49 extension holes were drilled up to 1.8 kilometres west of the western boundary of MRE Area A, within the Makuutu mineralised trend. This extension drilling shows mineralisation continues beyond the MRE boundary with narrow intersections in low lying areas on the margins of the mineralised plateaus and increasing in thickness on the plateaus.

The resulted infill holes have generally shown thicker and higher-grade intervals than the original 400 metre spaced drill holes used to estimate the inferred resource. Best intersections include;

- RRMDD762, with 21.8 metres at 783ppm TREO from 4.7 metres depth; and
- RRMDD761, with 16.7 metres at 714ppm TREO from 4.7 metres depth.

Table 1 Phase 5 resource infill and extension results above MRE cut-off grade of 200ppm TREO-CeO_2.

Drill Hole ID	Depth From (metres)	Length (metres)	TREO (ppm)	TREO-CeO_2 (ppm)	HREO (ppm)	CREO (ppm)	Hole Purpose
RRMDD712	3.9	**9.9**	**952**	845	430	505	Extension
RRMDD713	2.8	**6.7**	**1008**	811	428	483	Extension
RRMDD714	4.5	**2.5**	**317**	224	95	119	Extension
and	10.7	**16.8**	**435**	336	143	183	
RRMDD715	2.8	**13.4**	**629**	512	216	286	Extension
RRMDD716	NSI						Extension
RRMDD717	3.6	**15.2**	**700**	394	102	174	Extension
RRMDD718	11.3	**8.8**	**399**	302	123	159	Extension
RRMDD719	27.4	**1.0**	**288**	202	71	102	Extension
RRMDD720	3.2	**10.9**	**422**	248	96	125	Extension
and	16.2	**4.7**	**346**	257	90	130	Extension
RRMDD721	4.0	**9.7**	**606**	432	165	220	Extension
and	16.8	**1.5**	**285**	218	74	106	
and	19.1	**3.0**	**292**	212	109	123	
RRMDD722	6.6	**9.1**	**521**	403	166	214	Extension
RRMDD723	5.3	**6.3**	**782**	564	219	293	Extension
RRMDD724	4.8	**7.3**	**828**	602	230	301	Extension
RRMDD725	2.5	**9.9**	**372**	257	103	130	Extension
RRMDD726	4.8	**7.9**	**623**	379	151	198	Extension
RRMDD727	2.0	**10.3**	**328**	232	98	122	Extension
RRMDD728	2.3	**3.4**	**363**	259	104	133	Extension
RRMDD729	2.0	**9.8**	**658**	531	193	269	Extension
RRMDD730	1.1	**10.8**	**342**	227	88	115	Extension
and	14.6	**1.0**	**282**	229	109	128	
RRMDD731	2.5	**9.2**	**489**	327	148	177	Extension
RRMDD732	3.5	**10.3**	**775**	542	161	258	Extension
RRMDD733	4.0	**10.4**	**668**	491	241	279	Extension
RRMDD734	4.4	**2.7**	**977**	805	417	475	Extension
RRMDD735	2.1	**16.3**	**634**	491	246	288	Extension
and	29.8	**2.0**	**353**	279	93	137	
RRMDD736	2.7	**5.5**	**321**	222	86	110	Extension
and	13.5	**8.3**	**423**	326	137	174	
and	25.4	**1.5**	**305**	226	93	118	
RRMDD737	3.3	**6.4**	**752**	579	270	320	Extension
RRMDD738	5.3	**9.2**	**449**	312	138	168	Extension
RRMDD739	3.3	**11.0**	**676**	473	189	243	Extension
RRMDD740	3.8	**12.4**	**495**	333	140	174	Extension
RRMDD741	5.8	**6.1**	**673**	485	211	264	Extension
RRMDD742	NSI						Extension
RRMDD743	2.6	**9.7**	**562**	394	199	228	Extension
RRMDD744	5.8	**10.7**	**580**	408	195	224	Extension
RRMDD745	22.2	**3.5**	**348**	246	114	141	Extension
RRMDD746	2.1	**1.8**	**341**	210	87	104	Extension

Ionic Rare Earths Limited, Level 1, 34 Colin Street, West Perth WA 6005 Australia T+61 3 9776 3434 E admin@ionicre.com

and	19.4	**2.7**	**415**	344	137	178	
RRMDD747	19.8	**6.7**	**415**	302	136	173	Extension
RRMDD748	4.5	**4.9**	**700**	517	257	294	Extension
RRMDD749	3.4	**15.0**	**615**	424	228	247	Infill Area A
RRMDD750	2.5	**2.6**	**380**	213	87	107	Extension
and	7.9	**7.5**	**439**	342	155	189	Extension
RRMDD751	3.5	**5.3**	**499**	304	128	160	Extension
RRMDD752	6.8	**1.6**	**536**	297	75	126	Extension
RRMDD753	5.1	**1.4**	**568**	467	128	204	Extension
and	10.8	**1.7**	**340**	219	75	108	Extension
RRMDD754	3.5	**1.7**	**467**	260	100	131	Extension
and	8.8	**9.9**	**476**	368	142	194	
RRMDD755	3.1	**2.9**	**487**	291	117	150	
and	12.9	**2.8**	**308**	220	86	116	Infill Area A
and	18.6	**2.6**	**365**	298	111	157	
RRMDD756	12.4	**13.3**	**434**	336	119	172	Extension
RRMDD757	NSI						Extension
RRMDD758	5.3	**6.8**	**792**	675	256	346	Extension
RRMDD759	3.8	**16.3**	**442**	271	104	137	Infill Area A
RRMDD760	4.4	**4.0**	**384**	242	88	117	Infill Area A
and	16.2	**3.8**	**421**	338	143	186	
RRMDD761	4.6	**16.7**	**714**	491	190	255	Infill Area A
RRMDD762	4.7	**21.8**	**783**	513	208	270	Infill Area A
RRMDD763	4.7	**10.9**	**667**	472	215	262	Infill Area A
RRMDD764	3.6	**10.6**	**580**	395	174	212	Infill Area A
RRMDD765	3.9	**13.7**	**585**	378	142	191	Infill Area A
RRMDD766	4.1	**13.9**	**667**	464	217	268	Infill Area A
RRMDD767	4.2	**9.9**	**1163**	962	672	641	Infill Area A

NSI=No significant intercept above cut-off grade

Several of both extension and infill drill holes show high grade heavy rare earth (HREO) and critical rare earth (CREO) intersections including extension holes;

- RRMDD712, with 9.9 metres at 952ppm TREO including 430ppm HREO and 530ppm CREO;
- RRMDD713, with 6.7 metres at 1,008ppm TREO with 428ppm TREO and 483ppm CREO; and
- RRMDD767, with 9.9 metres at 1,163ppm TREO with 672ppm HREO and 641ppm CREO.

The elevated proportions of HREO and CREO coincide with weathered limonitic veining and alteration in the clay and underlying saprock. Furter investigations of these results is required to determine the extents of these high-grade zones.

The results from the remaining 72 drill holes are currently at the laboratory in Perth being analysed or in transit from Makuutu to Perth for analysis.

Ionic Rare Earths Limited, Level 1, 34 Colin Street, West Perth WA 6005 Australia T+61 3 9776 3434 E admin@ionicre.com

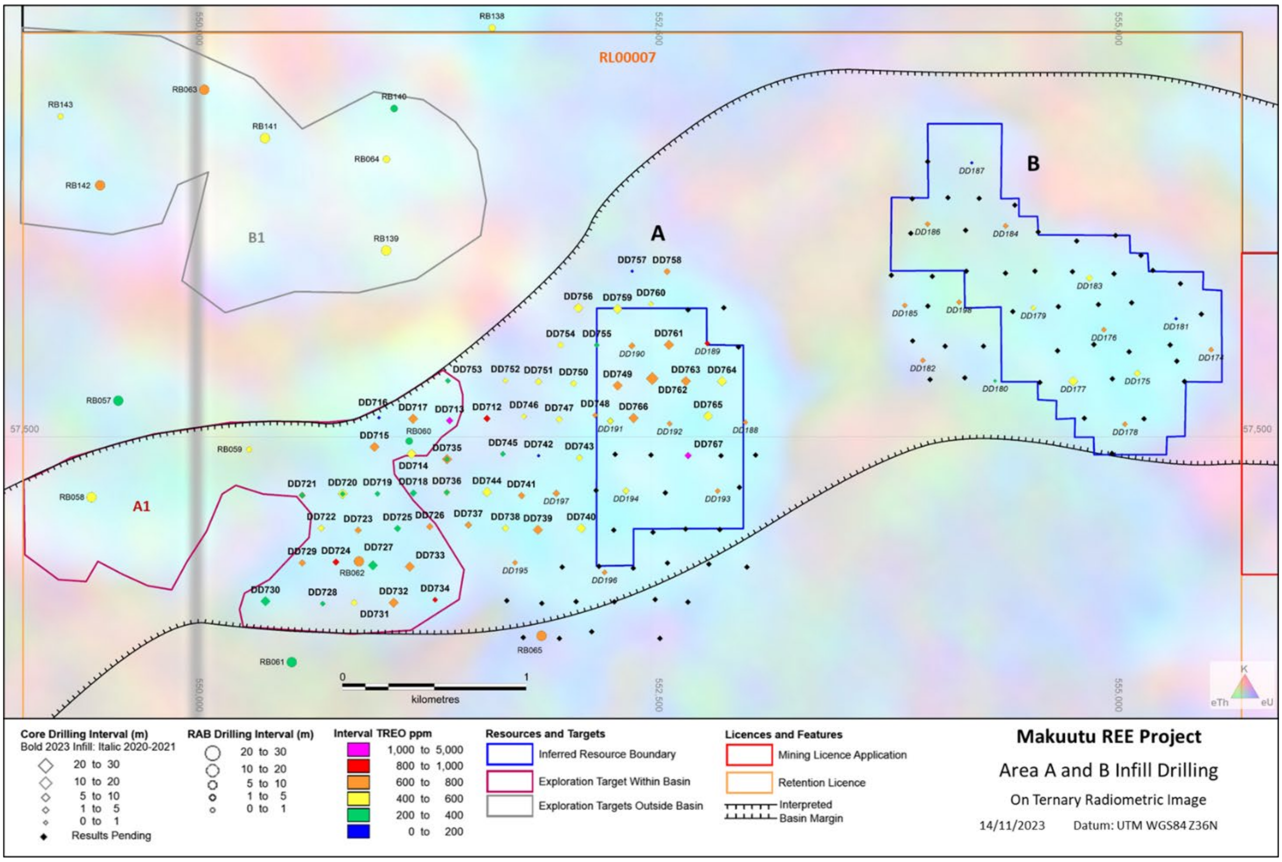

Figure 2: Drilling results Phase 5 resource infill and extension on RL00007.

Following completion of drilling and receipt of results, an updated resource estimation will be completed.

Authorised for release by the Board.

For enquiries, contact:

For Company	For Media	For Investor Relations
Tim Harrison	Nigel Kassulke	Peter Taylor
Ionic Rare Earths Limited	Teneo	NWR Communications
investors@ionicre.com	Nigel.Kassulke@Teneo.com	peter@nwrcommunications.com.au
+61 (3) 9776 3434	+61 (0) 407 904 874	+61 (0) 412 036 231

Table 2: Makuutu Rare Earth Project Resource Tabulation of REO Reporting Groups at 200ppm TREO-CeO_2 Cut-off Grade (ASX: 3 May 2022).

Resource Classification	Tonnes (millions)	TREO (ppm)	TREO-CeO_2 (ppm)	LREO (ppm)	HREO (ppm)	CREO (ppm)	Sc_2O_3 (ppm)
Indicated	404	670	450	500	170	230	30
Inferred	127	540	360	400	140	180	30
Total	532	640	430	480	160	220	30

Notes; Tonnes are dry tonnes rounded to the nearest 1.0Mt.
All ppm rounded from original estimate to the nearest 10 ppm which may lead to differences in averages. TREO = Total Rare Earth Oxide

Table 3: Mineral Resources by Area (ASX: 3 May 2022), RL00007 Resource Areas shaded blue.

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)
A				13	580	390	13	580	390
B				26	410	290	26	410	290
C	31	580	400	3	490	350	35	570	400
D				6	560	400	6	560	400
E				18	430	280	18	430	280
Central Zone	151	780	540	12	670	460	163	770	530
Central Zone East	59	750	490	12	650	430	72	730	480
F	18	630	420	7	590	400	25	620	410
G	9	750	500	5	710	450	14	730	480
H	6	800	550	7	680	480	13	740	510
I	129	540	350	19	530	350	148	540	350
Total Resource	**404**	**670**	**450**	**127**	**540**	**360**	**532**	**640**	**430**

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

Ionic Rare Earths Limited, Level 1, 34 Colin Street, West Perth WA 6005 Australia T+61 3 9776 3434 E admin@ionicre.com

About Ionic Rare Earths Ltd

Ionic Rare Earths Limited (ASX: IXR or IonicRE) is set to become a miner, refiner and recycler of sustainable and traceable magnet and heavy rare earths needed to develop net-zero carbon technologies.

The Makuutu Rare Earths Project in Uganda, 60% owned by IonicRE, is well-supported by existing tier-one infrastructure and is on track to become a long-life, low Capex, scalable and sustainable supplier of high-value magnet and heavy rare earths oxides (REO). In March 2023, IonicRE announced a positive stage 1 Definitive Feasibility Study (DFS) for the first of six (6) tenements to progress to a Mining Licence Application (MLA) which is pending in Uganda. The Makuutu Stage 1 DFS defined a 35-year life initial project producing a 71% rich magnet and heavy rare earth carbonate (MREC) product basket and the potential for significant potential and scale up through additional tenements.

Ionic Technologies International Limited ("Ionic Technologies"), a 100% owned UK subsidiary acquired in 2022, has developed processes for the separation and recovery of rare earth elements (REE) from mining ore concentrates and recycled permanent magnets. Ionic Technologies is focusing on the commercialisation of the technology to achieve near complete extraction from end of life / spent magnets and waste (swarf) to high value, separated and traceable magnet rare earth products with grades exceeding 99.9% rare earth oxide (REO). In June 2023, Ionic Technologies announced initial production of high purity magnet REOs from its newly commissioned Demonstration Plant. This technology and operating Demonstration Plant provides first mover advantage in the industrial elemental extraction of REEs from recycling, enabling near term magnet REO production capability to support demand for early-stage alternative supply chains. In September 2023, Ionic Technologies announced with the support of the UK government, collaboration partnerships to build a domestic UK supply chain, from recycled REOs to metals, alloys and magnets and supplying UK based electric vehicles (EV) manufacturing, with potential to replicate across other key markets.

As part of an integrated strategy to create downstream supply chain value, IonicRE is also evaluating the development of its own magnet and heavy rare earth refinery, or hub, to separate the unique and high value magnet and heavy rare earths dominant Makuutu basket into the full spectrum of REOs plus scandium.

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

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

Ionic Rare Earths Limited, Level 1, 34 Colin Street, West Perth WA 6005 Australia T+61 3 9776 3434 E admin@ionicre.com

Competent Persons Statement

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

The information in this report that relates to Mineral Resources for the Makuutu Rare Earths deposit was first released to the ASX on 20 March 2022 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 Ore Reserves for the Makuutu Rare Earths deposit was first released to the ASX on 20 March 2023 and is available to view on www.asx.com.au. Ionic Rare Earths Limited confirms that it is not aware of any new information or data that materially affects information included in the relevant market announcement, and that all material assumptions and technical parameters underpinning the estimates in the announcement continue to apply and have not materially changed.

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

Forward Looking Statements

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

Appendix 1: Drill 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
RRMDD712	551606	57600	1169	DD	15.80	000	-90
RRMDD713	551403	57588	1136	DD	11.70	000	-90
RRMDD714	551196	57407	1173	DD	27.80	000	-90
RRMDD715	550994	57445	1176	DD	18.80	000	-90
RRMDD716	551018	57604	1154	DD	23.30	000	-90
RRMDD717	551204	57598	1171	DD	18.80	000	-90

Ionic Rare Earths Limited, Level 1, 34 Colin Street, West Perth WA 6005 Australia T+61 3 9776 3434 E admin@ionicre.com

RRMDD718	551206	57194	1145	DD	33.40	000	-90
RRMDD719	551011	57190	1165	DD	30.80	000	-90
RRMDD720	550821	57189	1166	DD	29.90	000	-90
RRMDD721	550601	57182	1158	DD	23.30	000	-90
RRMDD722	550705	57003	1159	DD	17.30	000	-90
RRMDD723	550905	56991	1163	DD	14.00	000	-90
RRMDD724	550785	56818	1162	DD	14.30	000	-90
RRMDD725	551120	57001	1164	DD	19.00	000	-90
RRMDD726	551295	57011	1160	DD	15.10	000	-90
RRMDD727	550986	56800	1158	DD	16.00	000	-90
RRMDD728	550713	56592	1153	DD	8.80	000	-90
RRMDD729	550601	56814	1152	DD	18.60	000	-90
RRMDD730	550402	56605	1152	DD	18.00	000	-90
RRMDD731	550884	56597	1152	DD	17.10	000	-90
RRMDD732	551099	56597	1155	DD	14.10	000	-90
RRMDD733	551187	56793	1160	DD	18.00	000	-90
RRMDD734	551324	56613	1145	DD	8.60	000	-90
RRMDD735	551389	57378	1170	DD	36.70	000	-90
RRMDD736	551388	57198	1166	DD	30.00	000	-90
RRMDD737	551505	57020	1159	DD	10.90	000	-90
RRMDD738	551707	57003	1164	DD	15.00	000	-90
RRMDD739	551883	56994	1168	DD	16.00	000	-90
RRMDD740	552119	57002	1170	DD	17.50	000	-90
RRMDD741	551794	57180	1169	DD	22.40	000	-90
RRMDD742	551887	57397	1158	DD	34.50	000	-90
RRMDD743	552109	57386	1178	DD	17.00	000	-90
RRMDD744	551606	57199	1166	DD	18.00	000	-90
RRMDD745	551693	57406	1177	DD	30.40	000	-90
RRMDD746	551807	57611	1185	DD	27.00	000	-90
RRMDD747	551999	57595	1179	DD	42.40	000	-90
RRMDD748	552195	57618	1177	DD	11.90	000	-90
RRMDD749	552317	57779	1186	DD	19.90	000	-90
RRMDD750	552077	57790	1183	DD	33.40	000	-90
RRMDD751	551887	57800	1159	DD	12.00	000	-90
RRMDD752	551706	57806	1167	DD	14.70	000	-90
RRMDD753	551394	57805	1168	DD	16.50	000	-90
RRMDD754	552007	57999	1168	DD	18.70	000	-90
RRMDD755	552204	57999	1176	DD	24.00	000	-90
RRMDD756	552103	58202	1177	DD	37.00	000	-90
RRMDD757	552396	58401	1173	DD	24.70	000	-90
RRMDD758	552585	58400	1165	DD	16.90	000	-90
RRMDD759	552316	58196	1177	DD	26.20	000	-90
RRMDD760	552498	58222	1162	DD	28.10	000	-90
RRMDD761	552596	58001	1174	DD	21.90	000	-90
RRMDD762	552505	57817	1165	DD	26.50	000	-90
RRMDD763	552688	57803	1174	DD	18.00	000	-90
RRMDD764	552884	57802	1169	DD	15.00	000	-90
RRMDD765	552808	57613	1164	DD	17.60	000	-90
RRMDD766	552403	57602	1177	DD	18.00	000	-90
RRMDD767	552700	57398	1176	DD	15.00	000	-90

Ionic Rare Earths Limited, Level 1, 34 Colin Street, West Perth WA 6005 Australia T+61 3 9776 3434 E admin@ionicre.com

Appendix 2: RAB Drilling Analytical Results RRMDD712 to RRMDD767 including highlighted Intersections >200 ppm TREO-CeO2.

(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
RRMDD712	0.00	1.40	1.40	85.8	846.4	16.9	59.3	9.5	1.9	8.1	1.2	7.8	1.6	4.7	0.7	4.6	0.7	41.7	1091	Hardcap		
RRMDD712	1.40	2.80	1.40	66.3	1223.5	13.5	48.8	7.7	1.4	6.2	1.0	6.5	1.2	3.9	0.6	3.9	0.6	35.4	1421	Hardcap		
RRMDD712	2.80	3.85	1.05	76.2	229.1	18.1	66.8	11.6	2.0	10.1	1.5	9.7	1.8	5.5	0.8	5.7	0.9	64.0	504	Hardcap		
RRMDD712	3.85	4.90	1.05	58.8	104.4	14.3	53.5	9.6	1.7	9.9	1.8	9.7	2.3	6.9	0.9	6.5	0.9	71.2	352	Clay		
RRMDD712	4.90	5.95	1.05	56.9	63.8	14.8	60.5	11.4	2.2	10.4	1.6	10.2	2.1	6.7	0.9	5.5	1.0	71.1	319	Clay		
RRMDD712	5.95	7.00	1.05	51.7	135.1	12.7	51.3	8.9	1.7	9.2	1.6	8.9	1.9	5.0	0.8	5.8	0.8	59.9	355	Clay		
RRMDD712	7.00	8.06	1.06	71.2	62.9	18.3	76.2	11.9	2.7	13.3	2.1	12.3	2.9	8.0	1.1	8.2	1.1	104.4	397	Clay		
RRMDD712	8.06	9.01	0.95	329.6	141.9	103.4	410.6	83.8	16.0	102.1	16.9	105.4	24.5	67.9	9.0	58.1	8.0	1022.3	2499	Clay		
RRMDD712	9.01	9.96	0.95	407.0	165.8	122.6	501.6	90.1	17.6	86.2	12.0	68.3	14.1	40.0	5.2	31.4	4.6	504.2	2071	Upper Saprolite		
RRMDD712	9.96	10.91	0.95	389.4	114.7	110.1	452.6	79.5	15.4	81.1	11.2	65.6	13.5	37.3	4.8	28.7	4.2	514.3	1922	Lower Saprolite		
RRMDD712	10.91	11.86	0.95	248.6	103.4	65.0	255.4	49.6	9.0	45.0	6.4	34.3	7.0	18.1	2.5	15.0	2.1	249.5	1111	Lower Saprolite		
RRMDD712	11.86	12.81	0.95	78.2	87.1	22.7	84.9	15.8	3.0	12.5	1.9	10.7	2.2	5.9	0.8	5.5	0.7	71.4	403	Lower Saprolite		
RRMDD712	12.81	13.75	0.94	60.8	94.0	17.1	67.7	11.7	2.2	9.3	1.3	8.1	1.7	4.5	0.7	4.9	0.7	53.6	338	Lower Saprolite	**9.90**	**952**
RRMDD712	13.75	14.78	1.03	77.3	98.0	21.9	84.7	14.5	2.7	12.9	1.9	11.1	2.2	6.0	0.9	5.8	0.8	71.6	412	Saprock		
RRMDD712	14.78	15.80	1.02	82.0	94.5	22.4	82.7	15.2	2.7	12.6	1.8	10.3	2.1	6.3	0.8	5.5	0.7	71.9	412	Saprock		
RRMDD713	0.00	0.95	0.95	58.9	341.5	11.2	39.0	6.7	1.3	5.9	1.0	5.9	1.2	3.9	0.6	4.0	0.6	32.9	514	Hardcap		
RRMDD713	0.95	1.90	0.95	74.4	506.1	15.0	52.5	9.0	1.7	6.6	1.1	6.8	1.3	4.3	0.7	4.1	0.6	40.4	724	Hardcap		
RRMDD713	1.90	2.80	0.90	105.1	251.8	22.6	82.6	14.4	2.4	11.4	1.6	10.2	2.0	6.1	0.8	5.7	0.8	64.8	582	Transition		
RRMDD713	2.80	3.62	0.82	158.3	143.1	31.8	118.4	17.5	3.1	14.1	2.0	12.3	2.2	6.4	0.8	5.7	0.9	72.8	590	Mottled		
RRMDD713	3.62	4.49	0.87	76.5	189.2	17.7	67.2	11.0	2.1	10.0	1.5	8.6	1.7	5.1	0.7	4.9	0.6	58.9	456	Clay		
RRMDD713	4.49	5.36	0.87	63.3	80.8	17.0	65.1	11.0	2.0	10.4	1.7	9.0	2.0	5.4	0.8	5.7	0.8	66.2	341	Clay		
RRMDD713	5.36	6.23	0.87	161.8	210.7	45.9	170.3	30.8	5.5	27.4	4.1	23.3	4.6	12.3	1.6	11.6	1.5	158.1	870	Clay		
RRMDD713	6.23	7.10	0.87	160.7	320.6	46.6	174.4	32.4	6.0	30.4	4.6	27.3	5.8	15.2	2.0	14.1	1.9	182.2	1024	Clay		
RRMDD713	7.10	7.97	0.87	130.8	230.3	36.5	138.8	25.2	4.9	26.4	4.4	25.8	5.8	15.9	2.1	13.7	1.9	215.9	878	Clay		
RRMDD713	7.97	8.57	0.60	286.2	163.4	73.1	277.6	48.8	8.6	47.1	7.2	41.1	8.8	24.7	3.3	20.6	3.1	326.4	1340	Upper Saprolite		
RRMDD713	8.57	9.50	0.93	333.1	225.4	94.0	365.1	73.2	15.8	98.5	17.0	110.6	26.1	73.5	10.0	66.5	9.4	1023.5	2542	Lower Saprolite	**6.70**	**1008**
RRMDD713	9.50	10.23	0.73	496.1	113.1	142.6	568.0	103.7	18.9	103.0	14.7	81.4	16.5	43.5	5.8	35.0	4.8	600.7	2348	Saprock		
RRMDD713	10.23	10.96	0.73	484.4	121.1	128.7	509.7	95.4	18.0	106.7	15.2	84.9	18.6	50.7	6.4	38.5	5.4	732.7	2416	Saprock		
RRMDD713	10.96	11.69	0.73	289.7	112.0	85.2	333.6	62.9	12.1	72.8	11.2	69.7	15.5	44.5	6.0	38.1	5.3	612.1	1771	Saprock		
RRMDD714	0.00	1.60	1.60	96.9	309.6	19.1	64.3	9.9	1.7	7.2	1.2	6.9	1.3	3.9	0.6	3.9	0.6	40.4	567	Hardcap		
RRMDD714	1.60	3.21	1.61	148.9	495.0	28.4	91.3	14.5	2.0	7.6	1.2	7.4	1.2	4.1	0.6	4.1	0.6	35.4	842	Hardcap		
RRMDD714	3.21	3.86	0.65	90.1	304.6	20.7	76.2	12.8	2.1	9.0	1.4	9.0	1.8	5.3	0.8	5.7	0.8	56.5	597	Transition		
RRMDD714	3.86	4.50	0.64	75.9	195.3	18.5	67.9	10.4	2.0	9.4	1.4	8.5	1.9	5.1	0.8	5.4	0.9	58.5	462	Transition		
RRMDD714	4.50	5.30	0.80	71.4	138.8	17.3	62.2	10.5	1.7	9.0	1.4	8.6	1.8	4.9	0.8	5.4	0.8	59.6	394	Mottled		
RRMDD714	5.30	6.13	0.83	58.2	71.5	14.3	51.8	9.1	1.7	8.1	1.3	7.9	1.7	4.4	0.7	4.7	0.7	52.3	289	Clay	**2.46**	**317**
RRMDD714	6.13	6.96	0.83	53.0	68.2	13.5	48.1	8.4	1.3	7.7	1.2	7.2	1.5	4.4	0.7	4.5	0.7	49.9	270	Clay		
RRMDD714	6.96	7.80	0.84	49.1	51.8	12.2	44.4	7.4	1.3	7.3	1.1	6.9	1.4	3.9	0.6	4.2	0.6	46.6	239	Clay		
RRMDD714	7.80	8.66	0.86	36.9	55.0	9.3	33.8	6.1	1.1	5.3	0.9	5.3	1.2	3.3	0.5	3.5	0.5	37.7	200	Clay		
RRMDD714	8.66	9.67	1.01	41.6	106.5	11.1	41.2	7.5	1.3	6.9	1.0	6.6	1.4	4.2	0.6	4.2	0.6	45.7	281	Upper Saprolite		
RRMDD714	9.67	10.68	1.01	46.8	62.4	12.2	45.5	8.5	1.5	7.7	1.2	7.1	1.5	4.1	0.6	4.4	0.6	50.9	255	Upper Saprolite		
RRMDD714	10.68	11.69	1.01	69.3	103.6	19.5	72.7	12.9	2.4	11.7	1.8	9.7	2.1	5.8	0.8	5.6	0.8	71.4	390	Upper Saprolite		
RRMDD714	11.69	12.70	1.01	73.5	148.6	21.2	78.4	14.7	2.7	12.7	1.8	10.0	2.1	5.7	0.8	5.4	0.8	70.9	449	Upper Saprolite		
RRMDD714	12.70	13.71	1.01	91.1	93.4	26.5	101.2	17.3	3.3	15.6	2.3	12.5	2.6	7.1	1.0	6.0	0.8	83.8	465	Upper Saprolite		
RRMDD714	13.71	14.72	1.01	87.8	150.5	26.1	96.8	17.3	3.1	15.0	2.1	12.2	2.5	7.0	1.0	6.2	0.9	83.1	512	Upper Saprolite		
RRMDD714	14.72	15.73	1.01	90.0	117.1	25.3	96.6	16.5	3.4	15.2	2.2	12.2	2.4	7.0	1.0	6.3	0.9	87.0	483	Upper Saprolite		
RRMDD714	15.73	16.74	1.01	103.1	101.0	29.6	113.0	19.2	4.1	17.1	2.3	13.3	2.6	7.5	1.0	6.2	0.9	84.8	506	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
RRMDD714	16.74	17.75	1.01	86.7	98.8	26.0	99.6	17.9	3.5	15.5	2.1	11.6	2.4	6.8	0.8	5.6	0.8	75.7	454	Upper Saprolite		
RRMDD714	17.75	18.80	1.05	80.6	75.1	24.3	92.8	16.3	3.1	12.9	1.8	9.9	2.0	5.7	0.7	5.1	0.7	64.1	395	Upper Saprolite		
RRMDD714	18.80	19.76	0.96	87.5	70.3	25.0	96.0	16.8	3.5	15.5	2.2	12.4	2.3	6.6	0.9	5.6	0.8	71.9	417	Lower Saprolite		
RRMDD714	19.76	20.76	1.00	97.0	137.0	24.0	94.0	18.5	3.5	16.5	2.6	16.5	3.3	9.8	1.3	8.7	1.3	104.1	538	Lower Saprolite		
RRMDD714	20.76	21.67	0.91	110.9	133.3	25.6	93.8	18.4	3.8	16.5	2.3	15.0	2.9	9.7	1.2	7.9	1.2	101.2	544	Lower Saprolite		
RRMDD714	21.67	22.59	0.92	66.6	74.8	17.5	67.7	12.0	2.5	10.8	1.6	9.5	1.8	6.0	0.8	4.6	0.7	63.2	340	Lower Saprolite		
RRMDD714	22.59	23.50	0.91	71.9	104.8	20.2	75.1	14.3	3.0	13.1	2.0	11.5	2.2	6.5	0.9	5.1	0.9	70.4	402	Lower Saprolite		
RRMDD714	23.50	23.87	0.37	107.2	110.8	30.9	117.2	21.8	4.7	21.3	3.0	19.4	3.7	11.3	1.5	9.6	1.6	116.6	581	Lower Saprolite		
RRMDD714	23.87	24.77	0.90	94.3	81.4	27.2	104.6	19.2	4.1	17.6	2.3	13.1	2.5	7.0	0.9	5.5	0.7	72.3	453	Lower Saprolite		
RRMDD714	24.77	25.67	0.90	67.2	57.5	21.8	82.8	15.2	2.9	10.6	1.6	9.2	1.7	4.7	0.6	4.1	0.6	49.4	330	Lower Saprolite		
RRMDD714	25.67	26.57	0.90	55.0	59.0	15.9	64.5	11.4	2.4	9.5	1.4	9.3	1.7	5.5	0.7	4.3	0.8	54.1	296	Lower Saprolite		
RRMDD714	26.57	27.46	0.89	48.2	66.0	12.0	46.4	9.1	2.0	10.5	1.8	11.7	2.9	8.8	1.2	7.3	1.1	108.3	337	Lower Saprolite	**16.78**	**435**
RRMDD714	27.46	27.80	0.34	73.1	80.6	18.1	72.8	12.8	2.7	12.9	1.7	9.3	2.0	6.0	0.9	5.0	0.7	66.8	365	Saprock		
RRMDD715	0.00	1.10	1.10	74.5	245.7	15.5	49.0	9.1	1.5	7.2	1.2	8.0	1.4	4.3	0.7	4.7	0.7	39.9	463	Hardcap		
RRMDD715	1.10	2.20	1.10	101.7	496.3	18.2	58.4	9.5	1.6	7.7	1.2	7.6	1.5	4.9	0.7	5.3	0.8	39.0	755	Hardcap		
RRMDD715	2.20	2.84	0.64	95.2	582.3	21.8	78.5	13.7	2.2	10.1	1.6	9.1	1.9	5.9	0.8	5.4	0.8	59.6	889	Transition		
RRMDD715	2.84	3.57	0.73	120.8	242.6	27.9	103.7	16.6	2.8	13.5	2.0	11.9	2.4	7.2	0.9	6.5	1.0	74.2	634	Clay		
RRMDD715	3.57	4.30	0.73	123.1	156.0	27.7	104.7	17.5	2.7	13.8	1.9	11.8	2.3	6.9	1.0	6.0	1.0	70.4	547	Clay		
RRMDD715	4.30	5.31	1.01	76.0	83.3	18.5	67.9	11.4	2.0	9.5	1.5	9.0	1.9	4.9	0.7	4.8	0.7	59.1	351	Clay		
RRMDD715	5.31	6.32	1.01	61.1	62.5	14.6	53.3	9.2	1.6	8.3	1.2	7.3	1.5	4.7	0.7	4.7	0.6	49.7	281	Clay		
RRMDD715	6.32	7.33	1.01	43.2	47.0	11.8	42.9	7.2	1.2	6.7	1.0	6.0	1.3	4.0	0.6	3.7	0.6	42.3	220	Clay		
RRMDD715	7.33	8.34	1.01	140.1	97.4	29.8	106.1	16.8	2.9	14.8	2.1	11.6	2.5	7.5	0.9	6.3	0.9	82.4	522	Clay		
RRMDD715	8.34	9.35	1.01	141.3	114.9	40.2	156.3	27.7	5.3	33.4	5.4	37.2	9.0	26.6	3.4	20.7	3.3	408.9	1034	Clay		
RRMDD715	9.35	10.35	1.00	66.4	92.9	22.0	86.9	14.1	2.4	12.2	1.7	11.3	2.2	6.7	1.0	5.8	0.9	79.0	405	Clay		
RRMDD715	10.35	11.20	0.85	82.3	103.3	25.7	103.1	18.1	3.0	14.8	2.3	13.7	2.8	8.3	1.1	7.4	1.0	95.2	482	Clay		
RRMDD715	11.20	12.02	0.82	215.8	127.1	41.8	156.3	26.1	5.1	29.0	4.3	26.2	5.6	16.4	2.0	12.6	1.7	254.0	924	Clay		
RRMDD715	12.02	12.80	0.78	214.0	151.7	55.9	207.6	33.7	5.6	27.2	3.6	20.7	4.0	11.1	1.4	8.6	1.1	125.2	872	Upper Saprolite		
RRMDD715	12.80	13.66	0.86	186.5	151.7	81.9	326.6	60.2	9.5	43.1	6.1	31.9	5.5	14.1	1.9	11.2	1.5	154.3	1086	Lower Saprolite		
RRMDD715	13.66	14.52	0.86	144.3	137.0	61.5	250.8	45.5	8.3	34.0	4.7	25.9	4.4	12.3	1.6	9.6	1.3	133.3	875	Lower Saprolite		
RRMDD715	14.52	15.38	0.86	191.8	171.4	68.6	260.1	49.7	9.2	40.3	5.5	31.8	5.5	13.6	1.8	11.6	1.5	142.9	1005	Lower Saprolite		
RRMDD715	15.38	16.25	0.87	64.9	82.7	25.6	100.7	18.6	3.1	13.5	1.8	10.9	2.0	5.7	0.7	5.0	0.7	57.8	394	Lower Saprolite	**13.41**	**629**
RRMDD715	16.25	17.10	0.85	276.8	147.4	97.3	414.1	87.7	18.1	111.3	16.0	105.2	21.5	61.9	7.6	45.7	7.0	789.9	2207	Saprock		
RRMDD715	17.10	17.95	0.85	109.3	89.2	21.3	86.2	15.6	3.4	19.5	2.7	17.0	3.7	10.4	1.3	7.3	1.2	149.2	537	Saprock		
RRMDD715	17.95	18.80	0.85	48.8	73.6	9.9	35.5	7.4	1.4	8.4	1.1	8.2	1.8	5.7	0.8	4.3	0.7	98.5	306	Saprock		
RRMDD716	0.00	1.75	1.75	60.6	181.2	13.0	47.1	7.7	1.3	6.5	1.1	6.8	1.4	4.8	0.6	4.4	0.7	46.1	383	Soil		
RRMDD716	1.75	3.50	1.75	74.2	175.0	15.8	56.7	9.1	1.3	7.4	1.1	8.1	1.5	5.1	0.7	5.1	0.7	54.9	417	Soil		
RRMDD716	3.50	5.30	1.80	60.4	210.7	12.1	41.5	6.8	1.0	5.4	0.9	7.1	1.5	4.8	0.7	4.7	0.6	48.4	407	Soil		
RRMDD716	5.30	7.05	1.75	46.4	89.2	8.8	31.5	6.1	0.6	5.2	1.1	7.0	1.5	4.3	0.7	4.2	0.6	48.3	255	Upper Saprolite		
RRMDD716	7.05	8.83	1.78	58.2	133.9	12.8	40.8	8.0	0.7	5.8	1.1	6.7	1.3	4.1	0.6	3.8	0.6	43.8	322	Upper Saprolite		
RRMDD716	8.83	10.80	1.97	35.2	55.0	8.0	28.7	5.3	0.9	3.8	0.7	3.9	0.8	2.6	0.4	2.5	0.4	25.8	174	Upper Saprolite		
RRMDD716	10.80	12.80	2.00	34.5	54.5	8.6	30.8	5.7	0.9	4.0	0.5	3.5	0.6	2.3	0.3	2.1	0.3	22.6	171	Upper Saprolite		
RRMDD716	12.80	14.80	2.00	35.9	83.0	8.3	28.5	4.5	0.9	4.2	0.6	3.7	0.8	2.2	0.3	2.2	0.3	26.0	202	Lower Saprolite		
RRMDD716	14.80	16.80	2.00	32.8	97.2	7.4	26.7	4.9	0.8	3.5	0.6	3.3	0.7	2.0	0.3	2.1	0.3	21.6	204	Lower Saprolite		
RRMDD716	16.80	18.80	2.00	37.8	62.9	7.8	26.7	5.3	1.0	3.6	0.6	3.0	0.6	1.8	0.2	1.3	0.3	17.8	171	Lower Saprolite		
RRMDD716	18.80	20.80	2.00	36.6	65.1	8.0	27.1	4.2	1.2	3.7	0.6	3.1	0.6	1.4	0.3	1.7	0.2	19.0	173	Lower Saprolite		
RRMDD716	20.80	22.00	1.20	34.6	63.0	7.6	26.4	5.4	1.1	3.4	0.5	2.9	0.5	1.6	0.2	1.6	0.2	18.9	168	Lower Saprolite		
RRMDD716	22.00	23.30	1.30	29.1	68.5	6.5	22.0	3.9	0.9	3.1	0.4	2.5	0.5	1.7	0.2	1.7	0.2	16.8	158	Lower Saprolite		
RRMDD717	0.00	1.50	1.50	158.9	289.9	25.4	75.3	11.2	1.6	8.1	1.3	8.2	1.5	4.7	0.7	4.7	0.7	44.7	637	Hardcap		
RRMDD717	1.50	2.95	1.45	164.8	1461.8	30.3	97.9	16.2	2.6	11.4	1.8	11.6	2.1	6.3	0.9	6.1	0.8	61.2	1876	Hardcap		
RRMDD717	2.95	3.56	0.61	128.4	449.6	29.6	102.6	17.7	2.6	13.5	2.2	11.6	2.4	7.0	0.9	6.8	1.0	78.1	854	Transition		

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
RRMDD717	3.56	5.46	1.90	109.8	245.1	25.0	87.6	14.0	1.8	10.8	1.7	9.1	1.9	5.5	0.8	5.2	0.8	62.2	581	Upper Saprolite		
RRMDD717	5.46	7.35	1.89	123.1	273.9	27.4	93.1	15.4	1.5	10.6	1.6	8.5	1.6	4.8	0.7	4.3	0.7	56.8	624	Upper Saprolite		
RRMDD717	7.35	9.25	1.90	151.3	388.2	36.5	120.1	16.6	1.7	11.3	1.8	8.0	1.5	4.2	0.5	3.4	0.5	47.7	793	Upper Saprolite		
RRMDD717	9.25	11.15	1.90	130.2	260.4	30.7	102.6	16.7	1.3	10.3	1.5	7.3	1.3	4.0	0.5	3.2	0.5	44.6	615	Upper Saprolite		
RRMDD717	11.15	13.05	1.90	320.2	541.7	68.0	226.3	33.4	2.6	20.9	2.6	12.6	2.0	5.6	0.7	4.3	0.7	72.5	1314	Upper Saprolite		
RRMDD717	13.05	14.95	1.90	165.4	367.3	39.4	128.3	20.7	1.7	12.4	1.7	8.3	1.4	4.2	0.6	3.6	0.5	49.9	805	Upper Saprolite		
RRMDD717	14.95	16.85	1.90	89.7	141.3	22.1	73.1	11.7	1.2	8.2	1.2	6.2	1.2	3.3	0.5	2.9	0.4	41.7	405	Upper Saprolite		
RRMDD717	16.85	18.80	1.95	85.4	230.9	20.1	66.8	10.9	1.0	6.4	1.0	5.4	1.0	2.9	0.4	2.7	0.3	33.3	469	Upper Saprolite	**15.24**	**700**
RRMDD718	0.00	1.38	1.38	90.1	201.5	22.7	82.7	15.4	2.6	13.0	2.1	11.9	2.4	6.9	1.0	6.7	1.0	72.9	533	Soil		
RRMDD718	1.38	2.75	1.37	115.3	219.3	26.0	94.4	17.1	3.0	13.4	2.0	11.5	2.3	6.6	0.9	6.4	1.0	72.6	592	Soil		
RRMDD718	2.75	3.35	0.60	738.9	724.8	129.3	435.1	64.5	9.8	37.7	4.2	20.0	2.9	7.4	0.9	6.1	0.8	72.6	2255	Hardcap		
RRMDD718	3.35	4.22	0.87	122.6	259.2	27.1	93.7	15.8	2.4	11.4	1.7	10.8	2.1	6.4	0.9	6.1	0.9	66.7	628	Transition		
RRMDD718	4.22	5.09	0.87	98.9	175.7	23.6	82.0	14.2	2.2	11.5	1.8	10.7	2.3	6.3	0.9	6.1	1.1	71.9	509	Transition		
RRMDD718	5.09	5.96	0.87	74.2	121.6	17.0	58.4	9.9	1.6	8.1	1.2	8.0	1.6	4.6	0.7	4.6	0.7	49.1	361	Transition		
RRMDD718	5.96	6.80	0.84	54.9	115.1	12.7	44.8	8.0	1.2	6.1	1.0	6.6	1.4	4.0	0.6	4.5	0.7	40.4	302	Transition		
RRMDD718	6.80	7.70	0.90	52.9	93.2	12.3	43.6	7.9	1.2	5.6	1.0	6.3	1.3	4.0	0.6	3.9	0.6	40.9	275	Transition		
RRMDD718	7.70	8.57	0.87	48.6	115.0	11.2	39.5	7.3	1.1	5.5	0.9	5.6	1.1	3.7	0.6	3.7	0.6	36.3	281	Transition		
RRMDD718	8.57	9.41	0.84	47.9	94.8	10.9	40.5	7.4	1.2	6.2	1.0	6.1	1.2	3.8	0.5	3.7	0.7	38.7	265	Mottled		
RRMDD718	9.41	10.33	0.92	41.8	53.2	9.7	36.3	7.0	1.3	5.6	1.0	5.6	1.2	3.4	0.5	3.7	0.6	39.5	210	Mottled		
RRMDD718	10.33	11.25	0.92	49.6	50.4	11.2	42.2	7.5	1.5	7.2	1.0	7.2	1.4	4.7	0.6	3.8	0.7	48.4	237	Mottled		
RRMDD718	11.25	12.17	0.92	57.3	112.6	13.3	48.4	8.5	1.8	7.6	1.3	7.4	1.5	4.5	0.6	4.0	0.6	51.4	321	Mottled		
RRMDD718	12.17	13.15	0.98	71.4	91.1	17.4	64.7	12.2	2.6	10.4	1.5	8.7	1.8	5.4	0.7	4.7	0.7	60.7	354	Clay		
RRMDD718	13.15	14.13	0.98	92.1	122.0	24.3	87.8	16.2	3.3	13.8	1.8	12.2	2.2	6.3	0.9	5.4	0.9	70.0	459	Clay		
RRMDD718	14.13	15.11	0.98	73.7	57.7	19.0	73.5	13.0	2.4	11.4	1.7	8.9	1.8	5.1	0.7	4.1	0.7	56.3	330	Clay		
RRMDD718	15.11	16.10	0.99	71.2	135.1	18.9	71.7	13.5	3.0	11.6	1.7	9.0	2.0	5.7	0.8	5.3	0.7	60.6	411	Clay		
RRMDD718	16.10	16.78	0.68	68.6	104.2	18.0	68.2	13.7	2.9	11.3	1.6	9.1	2.0	5.3	0.8	5.0	0.7	60.1	371	Clay		
RRMDD718	16.78	17.46	0.68	77.3	146.8	21.5	81.1	15.6	3.5	12.9	1.8	10.0	2.1	5.4	0.9	5.2	0.7	64.6	449	Clay		
RRMDD718	17.46	18.17	0.71	88.4	62.3	23.9	91.1	17.8	3.5	14.5	2.0	10.7	2.2	5.9	0.9	5.6	0.7	67.2	397	Clay		
RRMDD718	18.17	18.89	0.72	91.5	71.7	25.7	94.6	18.7	3.9	14.8	2.0	10.8	2.2	6.1	0.9	5.2	0.8	69.0	418	Clay		
RRMDD718	18.89	19.48	0.59	131.9	96.4	35.2	132.4	25.4	5.3	22.1	3.1	17.0	3.5	9.7	1.4	8.5	1.2	115.3	608	Clay		
RRMDD718	19.48	20.07	0.59	71.9	46.6	18.7	71.9	13.9	3.1	12.7	1.8	10.4	2.1	5.8	0.9	5.2	0.7	65.0	331	Clay	**8.82**	**399**
RRMDD718	20.07	20.99	0.92	42.2	42.6	10.8	41.6	8.7	2.1	7.0	1.0	6.6	1.2	3.8	0.5	3.4	0.6	35.8	208	Clay		
RRMDD718	20.99	21.64	0.65	28.6	57.7	8.1	31.0	6.9	1.4	5.8	0.9	5.3	1.1	3.1	0.5	3.2	0.5	33.4	188	Clay		
RRMDD718	21.64	22.28	0.64	25.3	38.3	7.1	26.6	5.6	1.3	5.2	0.8	4.5	1.0	2.8	0.5	3.0	0.4	28.2	151	Clay		
RRMDD718	22.28	23.22	0.94	32.5	42.1	8.7	32.7	7.3	1.5	6.0	0.9	5.7	1.2	3.5	0.5	3.6	0.5	35.3	182	Clay		
RRMDD718	23.22	23.94	0.72	27.2	70.8	7.3	29.4	5.8	1.4	5.3	0.8	4.9	1.1	3.0	0.4	3.0	0.5	31.0	192	Clay		
RRMDD718	23.94	24.80	0.86	32.8	43.9	8.7	33.8	7.1	1.5	6.2	0.9	4.8	1.0	2.9	0.5	3.0	0.4	30.9	178	Clay		
RRMDD718	24.80	25.66	0.86	30.5	90.2	7.9	29.9	6.3	1.6	5.6	0.8	5.1	0.9	2.9	0.4	2.7	0.4	30.0	215	Clay		
RRMDD718	25.66	26.66	1.00	33.3	57.4	8.6	32.0	6.5	1.4	5.5	0.8	4.6	1.0	2.8	0.4	2.7	0.4	29.1	186	Clay		
RRMDD718	26.66	27.66	1.00	22.3	35.1	5.4	22.0	4.1	1.0	4.0	0.6	3.4	0.7	2.2	0.3	2.5	0.3	22.4	126	Clay		
RRMDD718	27.66	28.66	1.00	21.3	44.2	5.4	21.5	4.1	0.9	3.7	0.6	3.5	0.8	2.3	0.4	2.3	0.3	23.0	134	Clay		
RRMDD718	28.66	29.64	0.98	20.2	43.4	5.1	19.1	4.1	0.9	3.6	0.6	3.4	0.7	2.1	0.4	2.3	0.3	22.4	129	Clay		
RRMDD718	29.64	30.46	0.82	26.9	65.0	7.3	27.4	5.6	1.3	5.1	0.7	4.2	0.9	2.8	0.4	2.7	0.4	29.1	180	Clay		
RRMDD718	30.46	31.28	0.82	26.4	47.7	6.7	24.4	5.0	1.0	4.0	0.5	3.2	0.7	2.0	0.3	2.2	0.3	20.6	145	Clay		
RRMDD718	31.28	32.22	0.94	28.0	45.0	6.5	24.8	4.7	1.1	4.4	0.6	3.7	0.8	2.5	0.4	2.3	0.4	27.9	153	Upper Saprolite		
RRMDD718	32.22	32.69	0.47	55.7	63.9	16.4	62.1	12.3	2.7	9.2	1.2	6.2	1.2	3.6	0.5	3.2	0.5	34.9	274	Lower Saprolite		
RRMDD718	32.69	33.40	0.71	42.3	47.9	10.8	41.2	8.2	1.8	6.7	1.0	5.0	1.0	2.7	0.4	2.6	0.4	29.7	202	Lower Saprolite		
RRMDD719	0.00	2.10	2.10	94.3	277.6	21.1	74.3	13.9	2.2	10.9	1.9	10.5	2.1	5.9	0.9	6.0	0.9	63.9	586	Hardcap		
RRMDD719	2.10	4.20	2.10	266.2	465.6	48.4	149.3	21.6	3.3	13.7	1.8	10.7	1.7	5.2	0.7	4.4	0.8	51.9	1045	Hardcap		
RRMDD719	4.20	5.21	1.01	210.5	292.4	40.1	136.5	23.5	3.9	19.1	2.7	14.8	3.0	8.5	1.3	7.7	1.1	85.3	850	Transition		

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
RRMDD719	5.21	6.22	1.01	89.5	169.5	20.1	69.3	12.1	2.1	10.5	1.6	9.4	2.1	5.7	1.0	5.9	0.8	59.9	460	Transition		
RRMDD719	6.22	7.20	0.98	50.1	102.6	11.2	40.4	6.9	1.2	6.0	1.0	5.8	1.3	3.8	0.6	4.0	0.6	36.1	271	Clay		
RRMDD719	7.20	8.18	0.98	39.9	146.2	9.2	31.7	5.5	1.2	5.2	0.9	5.4	1.2	3.6	0.6	3.9	0.6	34.2	289	Clay		
RRMDD719	8.18	9.16	0.98	25.6	49.6	5.9	22.2	4.4	0.8	3.7	0.6	3.9	0.8	2.6	0.4	2.8	0.4	27.8	152	Clay		
RRMDD719	9.16	10.14	0.98	30.4	48.2	7.9	30.3	5.0	1.0	5.0	0.8	5.3	1.1	3.5	0.5	3.3	0.5	37.0	180	Clay		
RRMDD719	10.14	11.12	0.98	26.5	41.2	6.8	25.9	5.1	1.0	5.2	0.7	4.7	1.1	3.1	0.5	3.3	0.5	32.3	158	Clay		
RRMDD719	11.12	12.10	0.98	29.8	57.9	7.7	28.2	6.0	1.1	5.5	0.9	5.2	1.1	3.5	0.5	3.4	0.5	33.5	185	Clay		
RRMDD719	12.10	13.08	0.98	27.6	99.0	7.5	29.2	5.6	1.1	4.8	0.8	5.2	1.0	3.1	0.5	3.1	0.5	33.8	223	Clay		
RRMDD719	13.08	14.06	0.98	26.2	62.4	7.5	27.5	5.2	1.2	4.6	0.7	4.9	1.1	2.8	0.5	3.0	0.5	31.9	180	Clay		
RRMDD719	14.06	15.02	0.96	22.3	37.7	6.1	23.8	4.6	1.1	4.3	0.6	4.3	0.8	3.0	0.5	2.8	0.4	27.6	140	Clay		
RRMDD719	15.02	15.76	0.74	19.5	56.5	5.8	21.7	4.3	1.0	3.8	0.7	3.9	0.8	2.4	0.4	2.7	0.4	26.9	151	Clay		
RRMDD719	15.76	16.50	0.74	19.0	35.3	5.2	19.9	4.2	0.8	3.6	0.7	4.1	0.8	2.8	0.4	2.5	0.4	25.5	125	Clay		
RRMDD719	16.50	17.24	0.74	18.1	34.3	5.1	18.9	4.0	0.8	3.2	0.6	4.0	0.8	2.3	0.4	2.5	0.4	25.8	121	Clay		
RRMDD719	17.24	18.03	0.79	62.0	51.1	14.1	54.5	10.0	2.2	9.0	1.5	8.7	1.8	5.5	0.8	5.4	0.8	66.8	294	Clay		
RRMDD719	18.03	18.93	0.90	35.2	89.8	9.0	33.8	6.7	1.5	5.4	0.8	5.0	1.1	3.2	0.4	2.7	0.4	33.1	228	Clay		
RRMDD719	18.93	19.82	0.89	59.1	132.7	17.3	61.7	11.0	2.4	8.0	1.1	6.7	1.3	3.5	0.5	3.2	0.5	36.6	346	Clay		
RRMDD719	19.82	20.66	0.84	27.4	46.4	7.2	28.7	5.8	1.1	4.2	0.7	3.8	0.7	2.3	0.4	2.7	0.4	25.5	157	Clay		
RRMDD719	20.66	21.50	0.84	16.3	47.9	4.5	16.1	3.3	0.7	3.0	0.5	3.0	0.6	1.8	0.3	2.1	0.3	21.2	122	Clay		
RRMDD719	21.50	22.34	0.84	12.4	38.6	3.2	12.5	2.7	0.5	2.6	0.4	2.7	0.6	1.8	0.3	2.0	0.3	17.9	99	Clay		
RRMDD719	22.34	23.16	0.82	8.8	19.7	2.2	8.9	1.6	0.5	1.9	0.4	2.4	0.5	1.6	0.3	1.9	0.3	17.1	68	Clay		
RRMDD719	23.16	23.86	0.70	7.2	19.9	1.8	7.0	1.6	0.4	1.7	0.4	2.1	0.5	1.5	0.2	1.6	0.3	15.6	62	Upper Saprolite		
RRMDD719	23.86	24.80	0.94	24.4	46.2	5.8	22.6	4.8	1.0	4.0	0.6	3.9	0.8	2.5	0.4	2.6	0.4	27.9	148	Upper Saprolite		
RRMDD719	24.80	25.70	0.90	19.6	65.7	4.8	18.4	3.8	0.7	2.9	0.5	3.0	0.6	2.1	0.3	1.8	0.3	20.2	145	Upper Saprolite		
RRMDD719	25.70	26.36	0.66	31.5	53.8	7.6	27.8	5.0	1.1	4.4	0.7	3.9	0.8	2.5	0.4	2.3	0.4	27.7	170	Upper Saprolite		
RRMDD719	26.36	27.37	1.01	48.7	83.2	14.4	52.7	8.5	2.0	6.9	0.9	5.0	1.0	3.0	0.4	2.5	0.4	30.6	260	Lower Saprolite		
RRMDD719	27.37	28.38	1.01	57.1	86.4	15.6	58.3	10.7	2.2	8.4	1.1	6.3	1.1	3.0	0.5	2.9	0.4	34.4	288	Lower Saprolite	**1.01**	**288**
RRMDD719	28.38	29.20	0.82	47.0	55.8	11.9	47.6	9.1	1.9	6.6	0.8	5.3	1.1	2.8	0.4	2.6	0.4	29.6	223	Lower Saprolite		
RRMDD719	29.20	29.85	0.65	54.5	81.6	14.1	54.8	9.9	2.2	8.5	1.2	7.1	1.2	3.6	0.5	3.7	0.5	40.6	284	Lower Saprolite		
RRMDD719	29.85	30.80	0.95	66.6	59.5	14.6	58.2	10.6	2.6	10.2	1.4	8.3	1.6	4.7	0.6	4.0	0.6	57.0	301	Saprock		
RRMDD720	0.00	1.70	1.70	76.2	162.8	18.1	61.9	11.8	2.1	8.9	1.4	8.6	1.7	5.1	0.8	4.9	0.7	50.9	416	Hardcap		
RRMDD720	1.70	2.40	0.70	51.1	120.3	11.4	40.2	6.9	1.2	5.2	0.8	5.3	1.1	3.6	0.5	3.4	0.5	32.1	284	Hardcap		
RRMDD720	2.40	3.16	0.76	90.8	186.1	19.6	69.3	12.2	1.9	8.6	1.3	7.9	1.6	5.2	0.8	5.1	0.8	54.0	465	Transition		
RRMDD720	3.16	4.18	1.02	84.4	159.7	18.3	65.2	10.2	1.9	8.7	1.3	8.0	1.6	5.2	0.7	5.2	0.8	52.6	424	Clay		
RRMDD720	4.18	5.20	1.02	77.6	135.1	16.7	60.5	9.4	1.6	7.7	1.2	7.4	1.6	4.7	0.7	4.7	0.8	51.6	381	Clay		
RRMDD720	5.20	6.18	0.98	71.4	132.7	15.1	54.5	8.7	1.8	7.7	1.2	7.3	1.4	4.8	0.7	4.8	0.6	48.8	361	Clay		
RRMDD720	6.18	7.16	0.98	63.9	100.2	14.6	51.3	9.2	1.5	7.3	1.2	7.5	1.5	4.6	0.7	4.6	0.6	48.5	317	Clay		
RRMDD720	7.16	8.14	0.98	65.4	77.9	14.5	53.7	8.4	1.6	7.8	1.3	7.4	1.5	4.9	0.7	4.9	0.7	50.7	301	Clay		
RRMDD720	8.14	9.12	0.98	83.6	718.6	16.6	58.3	10.8	1.8	8.7	1.4	8.5	1.6	4.9	0.8	4.7	0.7	51.0	972	Clay		
RRMDD720	9.12	10.10	0.98	65.0	235.9	15.5	55.6	9.9	1.8	8.5	1.2	7.8	1.5	4.7	0.7	4.4	0.7	55.4	468	Clay		
RRMDD720	10.10	11.08	0.98	59.5	67.6	15.3	55.8	9.3	1.9	8.4	1.3	7.1	1.4	3.9	0.7	4.3	0.6	48.9	286	Clay		
RRMDD720	11.08	12.06	0.98	81.7	70.0	19.2	70.7	12.2	2.4	10.2	1.5	8.5	1.9	4.8	0.7	4.5	0.7	57.9	347	Clay		
RRMDD720	12.06	13.04	0.98	84.1	137.6	21.1	76.4	13.5	2.4	11.7	1.8	9.3	2.0	5.5	0.7	5.2	0.7	61.8	434	Clay		
RRMDD720	13.04	14.04	1.00	73.8	81.7	19.2	69.8	12.5	2.3	10.4	1.4	8.9	1.8	5.5	0.7	4.3	0.6	56.4	349	Clay	**10.88**	**422**
RRMDD720	14.04	14.70	0.66	51.4	65.2	12.8	45.7	8.9	1.6	6.7	1.0	5.8	1.3	3.8	0.5	3.6	0.5	40.3	249	Clay		
RRMDD720	14.70	15.47	0.77	53.7	60.3	13.1	50.3	9.3	1.6	7.4	1.0	6.3	1.2	3.8	0.5	3.3	0.5	39.9	252	Clay		
RRMDD720	15.47	16.24	0.77	59.7	51.5	13.8	52.3	9.8	2.1	8.5	1.2	6.6	1.2	3.7	0.5	3.4	0.5	36.1	251	Clay		
RRMDD720	16.24	17.02	0.78	100.0	101.8	29.4	102.8	19.0	3.6	12.9	1.9	10.0	1.8	5.7	0.7	4.5	0.7	54.2	449	Clay		
RRMDD720	17.02	17.88	0.86	100.2	74.1	29.7	105.9	19.0	3.5	13.1	1.8	9.9	1.8	5.0	0.7	4.6	0.7	55.1	425	Upper Saprolite		
RRMDD720	17.88	18.74	0.86	63.0	125.3	16.7	60.9	11.2	2.3	8.7	1.2	7.1	1.4	4.0	0.6	3.9	0.5	42.4	349	Upper Saprolite		
RRMDD720	18.74	19.60	0.86	63.2	67.9	17.8	65.3	11.8	2.2	8.4	1.2	6.3	1.2	3.6	0.5	3.2	0.5	34.0	287	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)	TREO ppm
RRMDD720	19.60	20.44	0.84	41.9	57.5	10.9	39.4	7.5	1.3	5.3	0.8	4.7	1.0	2.8	0.4	2.8	0.5	31.4	208	Upper Saprolite		
RRMDD720	20.44	20.89	0.45	71.0	123.5	17.9	67.2	11.3	2.5	9.2	1.4	7.9	1.6	4.3	0.6	4.0	0.6	57.8	381	Upper Saprolite	**4.65**	**346**
RRMDD720	20.89	21.90	1.01	30.8	80.8	7.4	26.0	4.9	1.0	4.4	0.6	3.6	0.8	2.6	0.4	2.6	0.3	26.5	193	Upper Saprolite		
RRMDD720	21.90	22.90	1.00	37.8	91.6	9.4	35.8	6.1	1.4	5.0	0.7	4.6	1.0	2.7	0.4	2.5	0.4	29.6	229	Upper Saprolite		
RRMDD720	22.90	23.93	1.03	34.6	98.1	8.8	31.3	6.0	1.4	4.5	0.7	3.9	0.8	2.3	0.3	2.4	0.4	27.2	223	Lower Saprolite		
RRMDD720	23.93	24.96	1.03	44.7	59.6	11.3	40.2	7.3	1.6	5.3	0.8	3.9	0.8	2.3	0.3	2.3	0.4	25.4	206	Lower Saprolite		
RRMDD720	24.96	26.00	1.04	35.2	65.5	8.6	30.9	5.3	1.1	3.8	0.5	3.1	0.6	1.7	0.3	1.5	0.2	18.3	177	Lower Saprolite		
RRMDD720	26.00	27.03	1.03	28.1	53.8	7.2	27.8	5.4	1.2	3.3	0.5	2.7	0.5	1.6	0.3	1.8	0.3	16.5	151	Lower Saprolite		
RRMDD720	27.03	28.06	1.03	24.3	57.5	5.9	22.9	4.1	1.1	3.8	0.6	3.0	0.6	1.8	0.3	1.8	0.2	17.4	145	Lower Saprolite		
RRMDD720	28.06	28.70	0.64	26.5	46.2	6.2	23.1	4.5	1.1	4.2	0.6	3.2	0.8	2.3	0.3	2.3	0.3	26.8	148	Saprock		
RRMDD720	28.70	29.90	1.20	25.2	46.3	6.1	23.1	4.3	0.9	3.5	0.5	3.4	0.7	2.2	0.3	2.0	0.3	25.1	144	Saprock		
RRMDD721	0.00	1.20	1.20	69.0	160.3	15.5	54.9	10.3	1.6	8.1	1.2	8.0	1.5	4.6	0.7	4.6	0.7	47.5	388	Hardcap		
RRMDD721	1.20	2.40	1.20	41.4	157.8	9.9	34.4	7.0	1.3	5.3	0.9	5.4	1.1	3.1	0.5	3.6	0.6	28.6	301	Hardcap		
RRMDD721	2.40	3.22	0.82	59.9	194.7	13.5	45.1	8.2	1.2	7.1	1.1	6.3	1.3	4.5	0.6	4.2	0.7	43.9	392	Transition		
RRMDD721	3.22	4.04	0.82	76.0	518.4	17.8	64.0	11.7	2.0	9.1	1.4	8.4	1.7	5.4	0.8	5.2	0.8	53.0	776	Transition		
RRMDD721	4.04	4.99	0.95	76.0	458.2	18.8	64.9	11.8	2.0	9.7	1.6	9.0	1.9	5.6	0.9	5.5	0.8	58.3	725	Clay		
RRMDD721	4.99	5.94	0.95	76.5	253.1	18.7	66.0	10.6	1.9	9.6	1.5	8.8	1.9	6.0	0.8	5.4	0.9	62.2	524	Clay		
RRMDD721	5.94	6.88	0.94	87.6	232.8	21.1	76.2	12.9	2.1	11.0	1.8	10.3	2.1	6.8	0.9	6.1	0.8	66.8	539	Clay		
RRMDD721	6.88	7.88	1.00	85.1	178.1	21.1	76.9	13.1	2.4	10.8	1.7	10.2	2.2	6.5	0.8	5.8	1.0	70.4	486	Clay		
RRMDD721	7.88	8.46	0.58	132.5	135.1	33.6	118.4	19.9	4.1	19.8	3.3	20.3	4.5	13.9	1.8	11.8	1.9	175.9	697	Clay		
RRMDD721	8.46	9.35	0.89	266.2	174.4	72.4	260.1	42.7	7.6	34.8	5.0	27.7	5.4	15.6	2.1	12.1	1.7	187.3	1115	Clay		
RRMDD721	9.35	10.24	0.89	131.4	97.8	35.2	123.1	20.9	3.6	15.4	2.2	12.1	2.3	6.9	0.8	5.8	0.8	76.6	535	Clay		
RRMDD721	10.24	11.13	0.89	370.6	123.5	52.8	186.0	29.7	6.1	32.4	4.4	25.6	5.4	16.0	1.9	12.3	1.7	240.0	1108	Clay		
RRMDD721	11.13	12.00	0.87	87.5	97.4	24.9	87.2	14.1	2.6	11.0	1.5	8.8	1.7	5.1	0.6	4.7	0.7	56.6	404	Clay		
RRMDD721	12.00	12.65	0.65	64.5	60.4	16.6	59.3	9.2	1.6	7.2	1.1	6.7	1.3	4.3	0.6	3.9	0.6	50.9	288	Upper Saprolite		
RRMDD721	12.65	13.29	0.64	70.6	54.0	19.5	69.9	12.2	2.0	8.0	1.2	7.0	1.3	3.7	0.5	3.4	0.5	40.6	294	Upper Saprolite		
RRMDD721	13.29	13.75	0.46	61.2	48.0	17.5	64.0	11.2	1.9	6.9	0.9	4.9	0.9	2.6	0.4	2.4	0.3	26.8	250	Upper Saprolite	**9.71**	**606**
RRMDD721	13.75	14.49	0.74	57.5	106.7	14.2	51.8	8.9	1.5	5.8	0.8	4.9	0.9	2.9	0.4	2.7	0.4	30.9	291	Upper Saprolite		
RRMDD721	14.49	15.23	0.74	46.8	112.5	11.5	40.9	6.9	1.3	5.2	0.8	4.2	0.9	2.3	0.4	2.7	0.4	26.4	263	Upper Saprolite		
RRMDD721	15.23	16.10	0.87	51.6	61.8	13.5	49.1	8.7	1.6	6.4	0.9	5.4	1.0	2.7	0.4	2.5	0.4	28.1	234	Upper Saprolite		
RRMDD721	16.10	16.75	0.65	55.8	59.5	14.0	51.3	9.4	2.0	7.3	1.1	6.1	1.1	3.2	0.5	2.8	0.5	31.6	246	Upper Saprolite		
RRMDD721	16.75	17.40	0.65	69.5	64.9	16.9	62.9	11.8	2.0	9.0	1.2	7.3	1.3	3.7	0.5	3.1	0.4	35.7	290	Upper Saprolite		
RRMDD721	17.40	18.24	0.84	67.1	68.8	14.9	58.0	10.0	2.1	8.0	1.1	6.5	1.2	3.5	0.5	3.1	0.5	36.3	281	Lower Saprolite	**1.49**	**285**
RRMDD721	18.24	19.07	0.83	37.5	103.2	7.6	28.5	4.7	0.9	4.0	0.6	4.3	0.8	2.4	0.4	2.2	0.4	26.5	224	Lower Saprolite		
RRMDD721	19.07	20.09	1.02	48.0	94.2	13.0	55.5	12.9	3.1	12.7	1.9	11.5	2.1	5.5	0.8	4.5	0.7	59.6	326	Lower Saprolite		
RRMDD721	20.09	21.10	1.01	30.8	51.3	6.2	23.4	4.7	0.8	4.0	0.6	3.9	0.8	2.6	0.4	2.5	0.5	28.3	161	Lower Saprolite	**2.98**	**292**
RRMDD721	21.10	22.05	0.95	57.3	95.1	14.2	60.8	12.5	3.1	14.2	2.0	12.8	2.5	7.8	0.9	5.8	0.8	105.1	395	Lower Saprolite		
RRMDD721	22.05	22.70	0.65	30.4	79.1	7.1	25.2	4.7	1.1	3.6	0.6	3.2	0.7	2.1	0.3	2.0	0.3	24.4	185	Lower Saprolite		
RRMDD721	22.70	23.30	0.60	78.0	142.5	15.5	52.7	8.3	1.5	5.2	0.7	3.7	0.7	2.0	0.3	1.9	0.3	19.7	333	Lower Saprolite		
RRMDD722	0.00	1.90	1.90	84.8	288.7	20.5	73.9	13.4	2.2	10.6	1.7	10.6	2.1	6.2	0.9	5.9	1.0	63.6	586	Soil		
RRMDD722	1.90	3.80	1.90	133.7	248.1	24.3	78.8	12.9	2.1	8.8	1.3	8.1	1.6	4.7	0.7	4.8	0.7	46.5	577	Hardcap		
RRMDD722	3.80	5.60	1.80	143.1	705.1	29.0	100.2	16.7	2.5	11.9	1.6	11.7	2.2	6.5	1.0	5.9	0.9	61.1	1099	Hardcap		
RRMDD722	5.60	6.61	1.01	180.0	307.1	37.5	130.6	23.9	3.7	19.1	2.8	17.8	3.6	10.0	1.4	9.4	1.4	120.5	869	Transition		
RRMDD722	6.61	7.62	1.01	212.9	203.9	43.6	142.3	22.2	3.4	17.6	2.5	15.2	3.0	9.4	1.3	7.6	1.2	101.6	788	Clay		
RRMDD722	7.62	8.63	1.01	238.1	186.7	51.6	180.2	26.8	4.4	22.1	3.2	18.0	3.6	10.1	1.4	8.7	1.3	120.4	876	Clay		
RRMDD722	8.63	9.64	1.01	105.3	122.1	25.5	95.8	19.2	3.2	18.0	2.9	17.5	3.7	11.3	1.5	9.1	1.4	141.0	577	Clay		
RRMDD722	9.64	10.65	1.01	93.0	79.1	22.4	84.2	15.6	2.8	13.4	2.1	12.3	2.6	7.7	1.0	6.7	1.0	93.1	437	Clay		
RRMDD722	10.65	11.36	0.71	86.9	149.3	26.0	100.5	20.8	3.5	16.3	2.5	14.9	3.0	9.2	1.2	7.7	1.1	105.8	549	Clay		
RRMDD722	11.36	12.04	0.68	93.6	83.4	28.0	106.8	20.5	3.4	15.0	2.0	11.5	2.2	6.6	0.9	5.7	0.8	76.4	457	Upper Saprolite		
RRMDD722	12.04	12.72	0.68	60.0	90.9	21.3	87.8	17.4	3.4	15.0	2.0	12.5	2.3	7.3	1.0	5.9	0.9	77.5	405	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
RRMDD722	12.72	13.70	0.98	61.7	84.3	23.3	100.9	19.8	4.3	17.9	2.5	14.5	2.5	7.2	0.9	6.3	0.9	78.7	426	Lower Saprolite		
RRMDD722	13.70	14.69	0.99	43.9	94.2	15.2	67.0	15.2	2.8	14.2	2.0	11.2	2.0	5.6	0.7	4.6	0.6	62.4	341	Lower Saprolite		
RRMDD722	14.69	15.68	0.99	43.5	74.4	14.0	59.5	12.2	2.7	11.9	1.7	9.3	1.6	4.8	0.6	3.8	0.5	52.4	293	Lower Saprolite	**9.07**	**521**
RRMDD722	15.68	16.66	0.98	37.6	66.7	9.9	41.1	8.7	1.9	8.4	1.2	7.9	1.4	4.1	0.5	3.4	0.5	48.9	242	Lower Saprolite		
RRMDD722	16.66	17.30	0.64	35.4	58.7	8.6	35.2	7.0	1.6	8.4	1.2	7.2	1.6	4.5	0.6	3.8	0.5	59.3	234	Saprock		
RRMDD723	0.00	1.52	1.52	78.2	189.2	18.2	63.0	12.1	1.9	9.8	1.6	9.3	1.9	5.7	0.8	5.5	0.8	54.5	452	Soil		
RRMDD723	1.52	3.04	1.52	66.3	450.8	14.0	47.8	8.9	1.4	5.8	1.1	6.3	1.3	4.1	0.6	4.0	0.5	36.1	649	Hardcap		
RRMDD723	3.04	4.57	1.53	133.1	831.6	25.4	85.4	14.3	2.6	11.2	1.7	10.1	1.9	5.7	0.9	5.8	0.8	46.5	1177	Hardcap		
RRMDD723	4.57	5.27	0.70	85.4	1179.3	18.0	59.0	11.3	2.1	9.0	1.5	8.1	1.6	4.6	0.7	4.7	0.7	41.5	1427	Transition		
RRMDD723	5.27	6.05	0.78	133.1	105.6	24.5	78.8	10.9	2.1	9.0	1.4	7.9	1.4	3.8	0.5	3.6	0.5	40.0	423	Clay		
RRMDD723	6.05	6.83	0.78	159.5	107.4	33.3	105.2	16.4	2.6	11.7	1.5	8.2	1.5	3.9	0.5	3.1	0.5	38.9	494	Clay		
RRMDD723	6.83	7.60	0.77	108.5	210.7	24.4	80.5	13.5	2.4	10.4	1.4	8.0	1.5	4.3	0.6	4.0	0.6	42.4	513	Clay		
RRMDD723	7.60	8.27	0.67	344.8	555.2	87.6	311.4	52.0	8.8	40.2	5.0	25.4	4.0	9.8	1.1	6.6	0.9	98.5	1551	Upper Saprolite		
RRMDD723	8.27	8.94	0.67	143.7	191.6	34.3	121.3	21.4	3.7	17.6	2.4	12.9	2.3	6.1	0.9	5.2	0.8	63.7	628	Upper Saprolite		
RRMDD723	8.94	9.83	0.89	99.7	178.1	32.7	124.8	26.1	4.4	19.5	2.7	15.1	2.8	8.0	1.1	6.6	0.9	81.3	604	Lower Saprolite		
RRMDD723	9.83	10.72	0.89	136.6	208.8	54.7	233.3	57.9	11.0	56.8	8.6	50.0	9.9	28.2	3.6	22.1	3.1	339.1	1224	Lower Saprolite		
RRMDD723	10.72	11.60	0.88	114.1	238.9	42.8	176.7	39.7	7.7	34.3	4.7	25.1	4.8	13.2	1.7	10.5	1.5	142.9	859	Lower Saprolite	**6.33**	**782**
RRMDD723	11.60	12.40	0.80	148.9	202.1	53.6	231.5	57.6	11.7	65.4	9.5	59.2	12.0	33.8	4.8	28.6	4.2	411.4	1335	Saprock		
RRMDD723	12.40	13.20	0.80	141.9	168.9	42.2	188.4	46.3	11.4	77.3	11.7	77.0	17.4	51.6	7.2	43.2	6.9	704.8	1596	Saprock		
RRMDD723	13.20	14.00	0.80	75.8	127.1	18.1	67.7	13.0	2.6	12.7	1.7	9.9	2.0	5.5	0.7	4.4	0.6	76.1	418	Saprock		
RRMDD724	0.00	2.08	2.08	69.5	210.1	15.2	53.7	10.2	1.8	8.1	1.3	8.1	1.7	4.9	0.7	4.8	0.8	46.4	437	Hardcap		
RRMDD724	2.08	4.15	2.07	80.9	711.2	18.2	65.3	12.8	2.1	9.7	1.6	10.3	2.1	6.6	0.9	5.8	0.8	51.0	980	Hardcap		
RRMDD724	4.15	4.84	0.69	128.4	1308.2	26.2	82.3	15.0	2.6	12.4	1.9	10.4	2.1	5.8	0.8	5.6	0.8	58.2	1661	Transition		
RRMDD724	4.84	5.70	0.86	173.6	204.5	34.9	115.8	18.5	3.4	15.6	2.1	11.7	2.5	6.6	1.0	6.3	0.9	74.7	672	Clay		
RRMDD724	5.70	6.55	0.85	245.1	226.6	53.4	180.8	26.4	4.7	22.0	2.8	15.3	3.0	7.8	1.0	6.5	1.0	93.1	889	Clay		
RRMDD724	6.55	7.21	0.66	114.7	764.1	26.2	90.6	14.8	2.6	12.3	1.8	10.3	2.1	6.2	0.8	5.5	0.8	66.7	1120	Clay		
RRMDD724	7.21	7.87	0.66	209.9	126.5	42.6	137.1	20.9	4.1	19.0	2.3	13.0	2.4	6.5	0.9	5.5	0.8	74.7	666	Clay		
RRMDD724	7.87	8.70	0.83	357.7	202.7	59.0	176.7	26.4	5.0	22.5	3.0	17.2	3.4	9.7	1.4	8.7	1.3	120.6	1015	Upper Saprolite		
RRMDD724	8.70	9.14	0.44	126.1	110.7	24.9	82.1	14.6	2.8	13.4	1.8	10.8	2.3	6.3	0.9	5.7	0.9	78.0	481	Upper Saprolite		
RRMDD724	9.14	9.94	0.80	144.3	173.8	33.2	112.8	21.0	4.1	17.8	2.6	14.1	2.8	8.2	1.1	6.7	1.0	92.7	636	Upper Saprolite		
RRMDD724	9.94	10.74	0.80	188.2	179.3	56.3	207.6	45.0	9.5	45.3	7.0	45.3	10.3	30.9	4.4	26.3	4.2	453.4	1313	Upper Saprolite		
RRMDD724	10.74	11.53	0.79	112.5	131.4	36.4	139.4	28.1	5.4	23.6	3.2	16.8	3.1	8.0	1.1	6.5	0.9	96.8	613	Upper Saprolite		
RRMDD724	11.53	12.15	0.62	119.6	149.3	42.4	172.6	35.7	7.4	33.2	4.3	22.4	3.9	9.5	1.2	7.3	1.0	105.8	716	Lower Saprolite	**7.31**	**828**
RRMDD724	12.15	13.22	1.07	83.4	92.0	21.9	93.3	24.1	6.8	53.4	9.5	70.6	18.4	60.4	8.5	52.0	8.5	911.8	1515	Saprock		
RRMDD724	13.22	14.30	1.08	81.4	90.2	19.5	76.4	15.2	3.6	20.1	2.8	18.0	4.1	12.0	1.7	10.3	1.6	153.0	510	Saprock		
RRMDD725	0.00	1.15	1.15	119.0	236.5	20.4	69.6	12.2	2.0	9.2	1.3	8.4	1.6	4.9	0.7	4.9	0.7	45.1	536	Hardcap		
RRMDD725	1.15	2.30	1.15	117.9	210.7	19.5	65.9	11.7	1.9	9.1	1.3	7.7	1.5	4.7	0.7	4.1	0.7	42.8	500	Hardcap		
RRMDD725	2.30	2.53	0.23	99.8	261.6	18.1	62.6	11.1	1.8	8.7	1.2	7.6	1.6	5.1	0.7	4.5	0.6	42.5	528	Transition		
RRMDD725	2.53	3.43	0.90	81.3	132.7	16.6	58.8	11.2	1.8	8.8	1.3	8.1	1.8	5.3	0.8	5.0	0.7	52.7	387	Clay		
RRMDD725	3.43	4.33	0.90	76.1	116.6	16.7	59.0	10.1	1.9	10.0	1.4	8.6	1.8	5.3	0.8	5.3	0.7	59.9	374	Clay		
RRMDD725	4.33	5.23	0.90	82.0	132.1	18.1	60.0	10.6	2.1	10.3	1.5	9.0	1.9	6.0	0.9	5.8	0.9	62.4	403	Clay		
RRMDD725	5.23	6.13	0.90	69.0	127.1	15.8	52.7	9.6	1.8	9.4	1.4	8.5	1.7	5.7	0.8	5.2	0.8	57.8	367	Clay		
RRMDD725	6.13	7.01	0.88	73.9	144.3	16.1	57.6	10.0	2.0	9.5	1.4	9.1	1.9	5.9	0.8	5.5	0.9	62.2	401	Clay		
RRMDD725	7.01	7.76	0.75	144.8	205.1	24.4	79.2	13.7	2.7	13.4	1.8	11.2	2.4	6.6	0.9	6.3	0.9	75.8	589	Clay		
RRMDD725	7.76	8.52	0.76	81.0	111.5	17.2	57.9	10.6	2.1	10.1	1.5	9.1	1.9	5.7	0.8	5.5	0.8	64.5	380	Clay		
RRMDD725	8.52	9.22	0.70	44.0	71.6	10.0	38.6	7.3	1.4	6.1	1.0	6.3	1.3	4.3	0.6	3.8	0.5	45.1	242	Upper Saprolite		
RRMDD725	9.22	9.92	0.70	40.9	74.1	9.2	36.2	6.4	1.4	5.7	0.9	6.0	1.2	3.4	0.6	3.3	0.6	41.5	231	Upper Saprolite		
RRMDD725	9.92	10.65	0.73	81.7	137.0	21.9	83.6	14.6	3.0	10.7	1.5	9.0	1.6	4.4	0.6	4.1	0.6	51.0	426	Lower Saprolite		
RRMDD725	10.65	11.52	0.87	71.9	60.3	18.6	70.9	13.4	2.7	9.9	1.5	8.9	1.7	4.9	0.7	4.3	0.7	56.4	327	Lower 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
RRMDD725	11.52	12.42	0.90	69.9	64.9	17.0	65.8	12.0	2.3	9.8	1.5	8.7	1.7	4.6	0.7	4.2	0.6	55.5	319	Lower Saprolite	**9.89**	**372**
RRMDD725	12.42	13.36	0.94	54.9	50.0	13.0	50.7	9.1	2.1	8.3	1.2	6.8	1.3	3.5	0.5	3.3	0.5	41.0	246	Lower Saprolite		
RRMDD725	13.36	14.30	0.94	42.2	59.1	10.1	41.4	7.8	1.7	7.3	1.1	6.4	1.3	3.5	0.5	3.0	0.5	38.0	224	Lower Saprolite		
RRMDD725	14.30	15.23	0.93	35.3	66.7	8.3	33.1	6.2	1.5	6.5	1.0	5.4	1.1	3.1	0.4	2.4	0.4	34.0	205	Lower Saprolite		
RRMDD725	15.23	16.17	0.94	33.7	52.7	7.2	28.6	5.5	1.2	5.1	0.7	4.5	0.8	2.4	0.3	2.1	0.4	30.1	175	Saprock		
RRMDD725	16.17	17.11	0.94	39.4	72.8	8.8	36.5	6.6	1.7	6.6	1.0	6.0	1.2	3.4	0.5	3.0	0.4	45.8	234	Saprock		
RRMDD725	17.11	18.05	0.94	31.4	63.8	7.2	28.7	5.1	1.3	4.8	0.6	4.1	0.9	2.3	0.4	2.3	0.3	31.9	185	Saprock		
RRMDD725	18.05	19.00	0.95	30.1	62.8	7.4	29.5	5.7	1.3	4.5	0.7	4.1	0.8	2.2	0.3	2.2	0.3	29.8	182	Saprock		
RRMDD726	0.00	1.53	1.53	87.6	181.2	18.6	65.8	12.9	2.2	10.8	1.6	9.9	2.0	6.6	0.9	5.5	0.8	56.3	463	Soil		
RRMDD726	1.53	3.06	1.53	98.7	644.9	17.1	54.8	10.0	1.6	7.2	1.2	7.4	1.4	4.6	0.6	4.2	0.6	33.5	888	Hardcap		
RRMDD726	3.06	4.60	1.54	103.0	1136.3	18.4	64.2	12.3	1.9	9.0	1.3	8.2	1.7	5.3	0.8	4.9	0.7	40.4	1408	Hardcap		
RRMDD726	4.60	4.81	0.21	702.5	1529.4	125.0	423.4	58.8	8.9	37.5	4.8	23.1	3.4	8.1	1.1	6.8	0.9	84.1	3018	Transition		
RRMDD726	4.81	5.61	0.80	57.6	90.5	14.2	55.5	10.1	1.8	8.9	1.5	9.2	1.9	5.5	0.9	5.4	0.8	63.1	327	Clay		
RRMDD726	5.61	6.40	0.79	71.3	133.9	16.7	64.7	12.0	2.1	10.6	1.8	11.5	2.5	7.1	1.1	6.6	1.1	82.2	425	Clay		
RRMDD726	6.40	7.20	0.80	108.6	184.9	23.2	82.8	14.3	2.5	12.6	2.1	13.4	2.7	7.9	1.2	7.2	1.1	91.2	556	Clay		
RRMDD726	7.20	8.00	0.80	119.6	156.0	25.7	95.3	17.1	3.1	14.8	2.3	14.2	2.7	7.5	1.1	6.5	1.0	85.3	552	Clay		
RRMDD726	8.00	8.96	0.96	249.8	249.4	50.7	186.6	33.7	6.0	26.3	4.0	21.7	3.7	9.3	1.3	7.3	1.1	101.2	952	Upper Saprolite		
RRMDD726	8.96	9.92	0.96	101.1	253.1	30.3	122.5	22.0	3.9	17.6	2.7	16.5	3.2	8.8	1.3	7.9	1.2	106.8	699	Upper Saprolite		
RRMDD726	9.92	10.84	0.92	87.6	800.9	25.6	99.6	19.0	3.3	13.9	2.1	12.4	2.4	6.5	1.0	6.1	0.9	72.0	1153	Upper Saprolite		
RRMDD726	10.84	11.83	0.99	73.8	135.7	19.8	77.1	13.7	2.3	9.8	1.5	9.0	1.7	4.7	0.7	4.4	0.7	54.9	410	Upper Saprolite		
RRMDD726	11.83	12.71	0.88	64.9	140.7	17.9	70.8	13.6	2.5	11.9	1.9	11.7	2.4	7.1	1.1	6.8	1.1	82.4	437	Lower Saprolite	**7.90**	**623**
RRMDD726	12.71	13.50	0.79	96.6	130.2	32.1	132.4	27.8	5.4	25.0	4.1	25.6	4.9	13.4	1.9	11.0	1.6	153.0	665	Saprock		
RRMDD726	13.50	14.30	0.80	106.5	183.0	33.8	145.2	29.7	5.6	28.1	4.4	26.6	5.2	14.4	2.1	12.1	1.7	168.9	767	Saprock		
RRMDD726	14.30	15.10	0.80	95.7	141.9	30.1	123.6	26.1	6.0	35.2	6.0	37.2	8.7	24.9	2.8	19.6	2.7	274.3	835	Saprock		
RRMDD727	0.00	1.65	1.65	96.6	245.1	18.6	65.8	11.4	2.0	9.9	1.5	9.1	1.8	5.2	0.8	5.4	0.8	51.0	525	Hardcap		
RRMDD727	1.65	2.00	0.35	68.8	141.3	14.2	49.3	8.7	1.5	7.6	1.2	7.4	1.6	4.8	0.7	4.6	0.6	43.9	356	Transition		
RRMDD727	2.00	3.07	1.07	68.4	147.4	14.4	52.5	9.5	1.4	7.3	1.2	7.4	1.5	4.6	0.6	4.5	0.7	48.6	370	Clay		
RRMDD727	3.07	4.14	1.07	62.3	100.0	12.9	46.5	7.8	1.3	6.9	1.0	6.9	1.4	4.3	0.7	4.2	0.6	45.3	302	Clay		
RRMDD727	4.14	4.98	0.84	67.2	99.6	14.2	53.2	9.7	1.7	7.7	1.2	8.3	1.7	5.1	0.8	4.9	0.7	55.0	331	Clay		
RRMDD727	4.98	6.00	1.02	86.4	93.4	16.7	58.2	10.3	1.8	9.0	1.3	8.5	1.7	5.1	0.8	4.5	0.7	55.6	354	Clay		
RRMDD727	6.00	6.90	0.90	30.4	54.0	6.6	23.7	4.5	0.9	4.0	0.7	4.4	1.0	2.8	0.4	2.9	0.4	30.6	167	Clay		
RRMDD727	6.90	7.84	0.94	46.0	89.9	11.2	39.9	7.5	1.5	6.0	0.9	5.7	1.2	4.0	0.5	3.5	0.5	40.5	259	Clay		
RRMDD727	7.84	8.78	0.94	63.7	81.6	14.8	54.8	8.9	1.9	8.6	1.3	8.1	1.6	5.1	0.7	4.8	0.7	56.0	313	Clay		
RRMDD727	8.78	9.73	0.95	119.6	118.9	33.2	121.3	22.1	4.2	18.0	2.6	14.6	3.0	9.2	1.2	7.7	1.1	105.8	583	Clay		
RRMDD727	9.73	10.62	0.89	48.6	81.1	12.2	46.0	9.0	1.5	8.4	1.2	7.4	1.6	4.6	0.6	4.4	0.6	58.2	285	Upper Saprolite		
RRMDD727	10.62	11.50	0.88	46.8	95.4	14.6	56.8	10.6	2.3	9.2	1.3	7.7	1.7	4.8	0.7	4.2	0.6	52.6	309	Upper Saprolite		
RRMDD727	11.50	12.31	0.81	52.9	79.5	15.1	60.9	11.1	2.5	10.9	1.7	8.9	1.8	5.4	0.7	4.2	0.6	61.1	317	Lower Saprolite	**10.31**	**328**
RRMDD727	12.31	13.12	0.81	38.8	60.7	9.7	37.4	7.1	1.4	7.4	1.0	6.2	1.3	3.7	0.5	3.2	0.5	44.1	223	Lower Saprolite		
RRMDD727	13.12	14.08	0.96	40.1	78.7	11.1	41.2	7.5	1.6	6.7	1.0	6.0	1.2	3.3	0.5	3.1	0.5	42.2	245	Saprock		
RRMDD727	14.08	15.04	0.96	34.6	63.3	8.5	30.4	5.8	1.3	5.0	0.7	3.8	0.8	2.2	0.3	2.0	0.3	25.8	185	Saprock		
RRMDD727	15.04	16.00	0.96	27.7	56.4	7.1	26.7	5.0	1.1	4.2	0.6	3.4	0.8	2.3	0.3	2.0	0.3	23.7	162	Saprock		
RRMDD728	0.00	1.69	1.69	126.7	198.4	21.5	68.8	12.1	1.9	8.7	1.3	7.2	1.5	4.5	0.7	4.4	0.7	41.8	500	Hardcap		
RRMDD728	1.69	2.25	0.56	103.0	187.3	19.2	68.2	11.6	2.0	9.1	1.4	8.7	1.6	5.4	0.7	4.8	0.8	47.2	471	Transition		
RRMDD728	2.25	3.07	0.82	65.9	116.1	13.8	49.9	9.1	1.6	7.7	1.3	7.5	1.6	4.6	0.7	4.6	0.7	45.1	330	Clay		
RRMDD728	3.07	3.89	0.82	59.1	118.3	13.4	48.5	8.5	1.6	6.8	1.2	7.3	1.5	4.5	0.7	4.4	0.6	45.5	322	Clay		
RRMDD728	3.89	4.70	0.81	60.0	106.9	14.5	51.8	9.4	1.7	7.5	1.2	7.6	1.5	4.4	0.7	4.2	0.6	46.2	318	Clay		
RRMDD728	4.70	5.63	0.93	102.6	79.7	26.8	102.8	18.6	4.1	15.9	2.3	13.7	2.6	7.0	1.0	6.2	0.9	83.2	467	Upper Saprolite	**3.38**	**363**
RRMDD728	5.63	6.57	0.94	39.5	65.7	9.2	35.0	6.9	1.6	6.6	1.0	5.5	1.2	3.3	0.5	3.0	0.4	39.4	219	Lower Saprolite		
RRMDD728	6.57	7.50	0.93	32.6	70.9	8.0	30.0	5.8	1.3	4.8	0.7	4.1	0.8	2.3	0.4	2.0	0.3	24.9	189	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
RRMDD728	7.50	8.80	1.30	31.2	72.6	7.7	30.9	5.8	1.3	4.8	0.7	4.3	0.9	2.1	0.4	2.2	0.3	24.1	190	Saprock		
RRMDD729	0.00	1.00	1.00	83.3	157.8	17.7	63.3	12.0	1.9	9.1	1.5	8.7	1.8	5.2	0.7	4.9	0.7	48.6	417	Hardcap		
RRMDD729	1.00	2.00	1.00	310.8	282.5	48.8	154.0	26.0	4.3	19.4	2.8	14.5	2.7	7.4	1.0	6.3	1.0	72.0	954	Transition		
RRMDD729	2.00	2.85	0.85	105.6	181.2	23.4	84.0	13.7	2.5	11.7	1.8	11.4	2.2	6.9	1.0	6.1	1.0	66.5	519	Clay		
RRMDD729	2.85	3.70	0.85	70.8	151.7	15.3	55.8	9.3	1.6	7.6	1.2	7.0	1.5	4.5	0.7	4.8	0.7	47.1	380	Clay		
RRMDD729	3.70	4.55	0.85	57.2	95.4	12.3	43.9	7.4	1.4	6.2	1.1	6.7	1.4	3.6	0.6	3.9	0.6	41.4	283	Clay		
RRMDD729	4.55	5.40	0.85	59.9	79.1	12.6	46.7	8.0	1.5	6.9	1.1	7.0	1.5	4.3	0.7	4.5	0.6	43.9	278	Clay		
RRMDD729	5.40	6.40	1.00	59.6	68.8	13.1	46.0	8.5	1.5	6.8	1.1	7.4	1.4	4.4	0.6	4.1	0.7	47.0	271	Clay		
RRMDD729	6.40	7.27	0.87	121.4	85.7	22.8	81.5	14.0	2.8	12.3	1.8	11.7	2.3	6.4	1.0	6.0	0.8	78.4	449	Clay		
RRMDD729	7.27	8.14	0.87	319.0	161.5	77.8	281.1	48.0	9.5	36.7	4.8	28.0	5.2	13.2	1.9	11.0	1.6	162.5	1162	Clay		
RRMDD729	8.14	9.00	0.86	416.3	193.5	113.7	430.4	78.4	14.8	62.1	8.7	44.4	8.6	22.1	3.0	17.6	2.5	299.7	1716	Clay		
RRMDD729	9.00	9.93	0.93	226.4	221.1	60.7	224.5	39.4	7.9	32.2	4.4	25.6	5.0	12.7	1.9	10.1	1.4	169.5	1043	Upper Saprolite		
RRMDD729	9.93	10.85	0.92	181.2	93.7	49.1	186.6	32.1	6.6	25.8	3.7	19.7	3.6	9.0	1.4	7.6	1.0	99.7	721	Upper Saprolite		
RRMDD729	10.85	11.78	0.93	104.4	83.8	24.4	96.0	17.1	4.2	16.1	2.3	13.5	2.4	6.3	0.9	5.3	0.7	71.9	449	Upper Saprolite	**9.78**	**658**
RRMDD729	11.78	12.70	0.92	48.7	66.6	10.3	39.2	7.1	1.8	6.5	0.9	5.0	1.1	2.9	0.5	2.8	0.4	33.0	227	Upper Saprolite		
RRMDD729	12.70	13.72	1.02	39.4	61.9	9.2	32.8	5.7	1.4	5.3	0.7	4.0	0.9	2.3	0.4	2.3	0.3	26.3	193	Lower Saprolite		
RRMDD729	13.72	14.37	0.65	31.2	54.5	7.1	27.2	4.8	1.0	3.7	0.5	2.7	0.5	1.9	0.3	1.7	0.2	17.3	155	Lower Saprolite		
RRMDD729	14.37	15.02	0.65	28.5	63.5	7.2	26.9	4.5	1.0	4.0	0.6	3.0	0.7	1.9	0.3	2.0	0.3	17.1	162	Lower Saprolite		
RRMDD729	15.02	16.06	1.04	33.0	62.3	8.5	30.6	5.7	1.5	4.1	0.7	3.8	0.8	1.9	0.3	2.0	0.3	19.7	175	Lower Saprolite		
RRMDD729	16.06	17.10	1.04	35.1	66.3	8.6	33.2	5.9	1.4	5.0	0.7	3.8	0.7	2.1	0.3	2.1	0.3	19.3	185	Lower Saprolite		
RRMDD729	17.10	18.60	1.50	44.3	102.0	11.3	43.5	8.7	2.0	7.1	1.0	5.4	1.0	2.6	0.4	2.3	0.3	27.4	259	Saprock		
RRMDD730	0.00	0.57	0.57	217.6	285.0	34.1	103.1	14.4	2.4	10.9	1.6	9.3	1.7	4.7	0.7	4.3	0.6	45.1	736	Hardcap		
RRMDD730	0.57	1.10	0.53	108.5	402.9	21.9	73.2	13.0	2.0	9.8	1.6	9.5	2.0	6.3	0.9	5.7	0.8	59.4	718	Transition		
RRMDD730	1.10	2.05	0.95	108.7	199.6	21.8	80.0	13.8	2.4	11.2	1.9	11.1	2.5	6.9	0.9	6.3	0.9	69.8	538	Clay		
RRMDD730	2.05	3.00	0.95	81.3	180.6	18.2	64.7	11.3	2.0	9.6	1.5	9.3	2.1	6.2	0.9	5.7	0.8	61.7	456	Clay		
RRMDD730	3.00	3.95	0.95	70.7	122.8	15.8	57.6	9.2	1.7	8.6	1.3	8.4	1.8	5.1	0.9	5.1	0.8	56.5	367	Clay		
RRMDD730	3.95	4.90	0.95	60.0	100.9	13.7	49.9	8.3	1.6	7.4	1.2	7.9	1.7	4.8	0.8	4.8	0.7	50.4	314	Clay		
RRMDD730	4.90	5.80	0.90	52.9	111.5	12.3	44.3	8.2	1.6	7.2	1.1	6.8	1.5	4.6	0.7	4.2	0.7	44.8	302	Clay		
RRMDD730	5.80	6.70	0.90	56.1	105.6	13.2	47.0	8.5	1.7	7.0	1.1	7.2	1.5	4.4	0.7	4.6	0.7	44.3	304	Clay		
RRMDD730	6.70	7.60	0.90	58.6	106.5	14.0	50.6	9.3	1.7	7.1	1.1	7.3	1.5	4.4	0.7	4.3	0.6	45.5	313	Clay		
RRMDD730	7.60	8.50	0.90	55.5	119.9	13.0	47.4	9.1	1.8	7.1	1.1	6.7	1.4	3.9	0.6	3.6	0.5	38.4	310	Clay		
RRMDD730	8.50	9.40	0.90	60.4	68.9	14.0	52.0	9.8	1.8	8.0	1.2	7.0	1.4	4.3	0.6	4.0	0.6	43.2	277	Clay		
RRMDD730	9.40	10.15	0.75	64.7	70.4	17.9	65.9	11.8	2.3	8.2	1.2	6.8	1.2	3.5	0.5	3.4	0.4	35.6	294	Clay		
RRMDD730	10.15	10.90	0.75	56.9	113.3	16.8	59.0	11.2	2.2	7.7	1.1	5.7	1.1	3.0	0.5	2.9	0.4	31.6	313	Clay		
RRMDD730	10.90	11.90	1.00	62.0	75.4	17.9	65.8	11.9	2.4	8.4	1.2	6.5	1.2	3.1	0.4	3.0	0.4	33.9	294	Clay	**10.80**	**342**
RRMDD730	11.90	12.90	1.00	50.3	89.4	13.0	51.0	9.5	2.0	7.3	1.1	6.0	1.2	3.5	0.5	3.2	0.4	36.7	275	Clay		
RRMDD730	12.90	13.77	0.87	49.4	74.8	13.2	49.8	9.9	1.9	7.1	1.0	5.8	1.1	2.8	0.4	2.7	0.4	31.0	251	Upper Saprolite		
RRMDD730	13.77	14.64	0.87	36.4	76.5	8.9	35.2	6.9	1.4	5.5	0.9	5.0	1.0	2.8	0.4	2.5	0.4	28.7	212	Upper Saprolite		
RRMDD730	14.64	15.65	1.01	57.7	52.8	12.7	49.9	9.6	2.3	9.6	1.4	8.7	1.8	4.7	0.7	4.2	0.6	65.3	282	Lower Saprolite	**1.01**	**282**
RRMDD730	15.65	16.83	1.18	50.5	60.8	11.2	44.0	7.5	2.0	7.2	1.1	5.6	1.1	2.8	0.4	2.3	0.3	34.4	231	Saprock		
RRMDD730	16.83	18.00	1.17	30.7	49.6	7.1	27.4	5.0	1.1	4.3	0.6	3.5	0.6	2.1	0.3	1.6	0.3	23.2	158	Saprock		
RRMDD731	0.00	2.10	2.10	107.2	330.4	21.9	76.2	13.5	2.3	10.7	1.8	9.7	1.9	6.3	0.8	5.4	0.8	58.2	647	Hardcap		
RRMDD731	2.10	2.45	0.35	217.0	702.6	37.8	124.8	18.1	3.2	14.6	2.0	11.5	2.4	6.8	1.0	5.7	0.8	63.4	1212	Transition		
RRMDD731	2.45	3.23	0.78	94.9	240.2	21.1	74.8	13.6	2.3	10.3	1.8	10.1	2.0	6.4	0.9	5.9	0.9	63.1	548	Clay		
RRMDD731	3.23	4.01	0.78	94.1	149.3	19.2	70.7	12.6	2.2	10.3	1.5	9.1	1.9	5.9	0.8	5.2	0.8	57.0	440	Clay		
RRMDD731	4.01	4.80	0.79	88.9	124.7	18.2	63.9	10.8	1.9	9.0	1.3	8.2	1.7	5.1	0.7	4.6	0.7	56.8	397	Clay		
RRMDD731	4.80	5.63	0.83	94.9	132.7	20.4	71.7	11.9	2.2	12.3	1.9	11.0	2.3	6.2	0.9	5.5	1.0	75.2	450	Clay		
RRMDD731	5.63	6.45	0.82	76.0	538.0	18.5	69.2	13.2	2.3	11.9	1.9	12.1	2.5	7.6	1.1	7.1	0.9	79.2	841	Clay		
RRMDD731	6.45	7.28	0.83	76.2	129.0	17.4	63.3	12.0	2.1	10.2	1.6	10.2	2.2	6.3	0.9	6.0	0.8	72.5	411	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
RRMDD731	7.28	8.10	0.82	108.2	126.5	22.8	83.2	14.5	2.8	12.6	2.1	12.8	2.6	7.5	1.1	6.3	0.9	81.5	485	Clay		
RRMDD731	8.10	8.75	0.65	48.0	93.2	11.0	42.9	8.4	1.5	7.5	1.2	7.8	1.5	4.7	0.7	4.5	0.6	51.6	285	Clay		
RRMDD731	8.75	9.40	0.65	57.9	118.9	15.5	57.0	10.9	2.1	8.6	1.4	8.7	1.8	5.4	0.8	5.2	0.6	63.5	358	Clay		
RRMDD731	9.40	10.10	0.70	154.2	113.7	46.9	186.0	37.6	7.5	35.4	5.5	33.3	6.5	18.5	2.5	14.7	1.9	227.9	892	Upper Saprolite		
RRMDD731	10.10	10.86	0.76	79.9	70.1	18.7	75.3	14.2	3.1	15.4	2.3	14.9	3.0	8.9	1.2	7.2	1.0	112.8	428	Lower Saprolite		
RRMDD731	10.86	11.61	0.75	40.3	65.0	9.1	38.3	7.3	1.8	9.0	1.4	8.8	2.1	6.1	0.9	4.8	0.7	101.8	297	Lower Saprolite	9.16	489
RRMDD731	11.61	12.35	0.74	36.1	59.6	8.8	34.1	6.4	1.4	5.6	0.8	4.3	0.9	2.5	0.4	2.4	0.4	30.4	194	Lower Saprolite		
RRMDD731	12.35	13.16	0.81	33.8	59.5	9.2	37.2	7.6	1.6	5.8	0.8	5.1	1.0	2.7	0.4	2.4	0.3	27.6	195	Lower Saprolite		
RRMDD731	13.16	13.97	0.81	27.9	56.1	6.8	25.5	4.6	0.9	3.5	0.5	2.8	0.6	1.7	0.3	1.7	0.3	17.3	150	Lower Saprolite		
RRMDD731	13.97	14.78	0.81	28.7	56.9	7.0	25.8	4.3	1.1	3.5	0.5	3.1	0.6	1.6	0.2	1.5	0.3	17.1	152	Lower Saprolite		
RRMDD731	14.78	15.60	0.82	29.8	58.2	7.1	26.1	5.3	1.1	3.9	0.5	3.2	0.6	1.7	0.3	1.8	0.3	19.8	160	Lower Saprolite		
RRMDD731	15.60	16.60	1.00	30.6	69.3	8.1	31.0	6.1	1.5	4.9	0.7	4.2	0.8	2.5	0.3	2.4	0.3	24.9	188	Saprock		
RRMDD731	16.60	17.10	0.50	29.0	53.3	6.8	25.2	4.8	1.0	3.4	0.5	2.6	0.5	1.5	0.2	1.5	0.2	15.4	146	Saprock		
RRMDD732	0.00	1.25	1.25	81.4	190.4	15.9	58.7	11.0	1.9	8.3	1.4	8.3	1.7	5.6	0.7	5.0	0.7	47.1	438	Hardcap		
RRMDD732	1.25	2.50	1.25	105.9	325.5	21.6	77.4	13.8	2.3	10.2	1.5	9.7	1.9	5.8	0.8	5.1	0.7	46.0	628	Hardcap		
RRMDD732	2.50	3.49	0.99	88.1	205.1	19.6	67.0	11.5	2.1	8.6	1.4	8.1	1.6	4.3	0.7	4.8	0.6	45.6	469	Transition		
RRMDD732	3.49	4.52	1.03	90.4	145.0	18.4	61.7	10.2	1.8	7.8	1.2	7.7	1.5	4.6	0.7	4.4	0.6	44.4	400	Clay		
RRMDD732	4.52	5.34	0.82	109.5	113.9	24.5	85.8	15.0	2.4	11.8	1.7	9.7	1.9	5.2	0.7	5.2	0.7	60.4	449	Clay		
RRMDD732	5.34	6.16	0.82	293.2	277.6	62.3	220.4	35.4	6.0	24.6	3.4	17.4	3.0	7.7	0.9	5.6	0.8	77.3	1036	Clay		
RRMDD732	6.16	6.98	0.82	204.1	245.7	44.5	147.0	21.3	3.7	15.7	2.2	12.2	2.2	6.7	0.9	5.6	0.7	71.2	784	Clay		
RRMDD732	6.98	7.80	0.82	119.6	180.0	29.0	101.2	17.0	3.0	12.6	2.0	11.0	2.2	6.4	0.9	5.7	0.9	68.2	560	Clay		
RRMDD732	7.80	8.63	0.83	788.1	939.7	210.8	809.5	134.5	23.3	87.4	11.6	51.9	7.5	16.5	1.7	9.4	1.2	159.4	3252	Clay		
RRMDD732	8.63	9.39	0.76	81.6	140.7	19.8	73.2	12.4	2.2	9.9	1.5	9.2	1.8	5.8	0.8	5.2	0.8	59.4	425	Upper Saprolite		
RRMDD732	9.39	10.15	0.76	82.0	141.3	20.5	74.4	12.8	2.2	9.8	1.5	9.0	1.9	6.0	0.8	4.9	0.7	58.2	426	Upper Saprolite		
RRMDD732	10.15	10.90	0.75	93.7	152.9	24.0	90.3	15.1	2.6	11.9	1.7	10.0	1.9	5.6	0.8	5.0	0.7	58.4	475	Upper Saprolite		
RRMDD732	10.90	11.85	0.95	93.5	176.3	28.0	111.4	20.4	4.0	17.6	2.6	14.5	2.9	8.2	1.2	7.2	1.0	86.1	575	Lower Saprolite		
RRMDD732	11.85	12.80	0.95	88.3	169.5	25.0	101.2	19.3	3.7	16.9	2.6	15.0	3.0	8.5	1.2	7.0	1.0	96.4	559	Lower Saprolite		
RRMDD732	12.80	13.74	0.94	96.5	144.3	21.4	83.7	14.6	2.7	12.6	1.8	10.3	1.9	5.1	0.7	4.0	0.6	61.7	462	Lower Saprolite	10.25	775
RRMDD732	13.74	14.10	0.36	58.8	116.9	13.5	49.0	7.8	1.4	5.8	0.8	4.7	1.0	3.0	0.4	2.5	0.4	31.6	298	Saprock		
RRMDD733	0.00	1.98	1.98	72.7	264.1	13.6	49.1	9.6	1.4	7.4	1.1	7.1	1.4	4.5	0.6	4.1	0.6	37.6	475	Hardcap		
RRMDD733	1.98	3.95	1.97	69.9	476.6	13.5	46.5	9.2	1.5	6.7	1.1	6.8	1.4	4.6	0.7	4.3	0.6	33.7	677	Hardcap		
RRMDD733	3.95	4.98	1.03	82.6	99.4	18.2	69.2	12.7	2.2	10.6	1.6	8.7	1.8	5.0	0.7	4.6	0.7	49.0	367	Mottled		
RRMDD733	4.98	6.00	1.02	163.0	178.7	36.5	134.1	24.1	4.2	18.8	2.6	13.5	2.4	6.2	0.8	4.9	0.8	60.4	651	Mottled		
RRMDD733	6.00	6.96	0.96	76.7	130.8	15.8	54.4	9.1	1.7	8.6	1.6	10.4	2.2	7.3	1.0	6.7	0.9	75.4	403	Clay		
RRMDD733	6.96	7.92	0.96	77.1	161.5	16.1	59.1	9.5	1.8	9.2	1.6	10.4	2.3	7.3	1.0	6.3	1.0	78.2	442	Clay		
RRMDD733	7.92	8.87	0.95	109.3	157.8	21.8	75.8	13.1	2.6	12.6	2.1	13.0	2.9	9.3	1.3	7.7	1.2	98.9	529	Clay		
RRMDD733	8.87	9.66	0.79	77.2	143.7	18.0	67.2	13.3	2.6	13.6	2.4	16.1	3.5	11.0	1.6	9.4	1.4	117.3	498	Clay		
RRMDD733	9.66	10.50	0.84	399.9	506.1	96.2	358.1	51.4	9.3	43.0	6.1	32.1	5.9	15.1	2.0	11.0	1.6	176.5	1714	Clay		
RRMDD733	10.50	11.24	0.74	91.1	157.2	20.8	77.7	15.1	2.6	14.3	2.5	15.3	3.5	10.4	1.5	9.7	1.3	116.7	540	Upper Saprolite		
RRMDD733	11.24	12.00	0.76	73.2	173.8	23.1	92.4	17.9	3.6	16.0	2.8	16.6	3.4	10.1	1.4	7.9	1.1	110.2	553	Upper Saprolite		
RRMDD733	12.00	12.73	0.73	105.1	186.7	28.0	112.0	19.3	3.8	17.8	2.7	16.4	3.4	9.3	1.3	7.8	1.1	104.9	619	Upper Saprolite		
RRMDD733	12.73	13.50	0.77	63.6	143.1	20.8	92.4	22.1	5.0	28.9	5.1	33.6	7.7	24.2	3.2	19.0	3.0	280.6	753	Lower Saprolite		
RRMDD733	13.50	14.30	0.80	54.9	106.6	19.5	98.3	26.3	6.4	45.6	8.0	55.8	13.5	44.0	5.7	33.3	5.3	567.6	1091	Lower Saprolite	10.35	668
RRMDD733	14.30	16.15	1.85	48.6	94.2	11.4	43.5	8.0	1.5	7.3	1.1	6.2	1.3	4.1	0.5	3.4	0.5	58.7	290	Saprock		
RRMDD733	16.15	18.00	1.85	56.4	119.5	14.0	56.3	10.8	2.4	10.1	1.7	10.1	2.1	5.8	0.8	5.2	0.9	64.8	361	Saprock		
RRMDD734	0.00	1.81	1.81	54.2	130.2	10.3	35.1	6.6	1.1	5.0	0.9	4.9	1.0	3.3	0.5	3.4	0.4	25.9	283	Hardcap		
RRMDD734	1.81	3.61	1.80	42.6	350.1	9.6	34.5	6.4	1.2	5.0	0.9	5.8	1.1	3.7	0.6	3.7	0.5	29.0	495	Hardcap		
RRMDD734	3.61	4.40	0.79	44.0	1017.1	10.3	36.5	7.0	1.3	6.1	1.0	5.8	1.3	3.7	0.6	3.8	0.6	33.0	1172	Transition		
RRMDD734	4.40	4.90	0.50	65.4	90.5	16.6	61.6	10.5	1.9	8.2	1.1	7.4	1.5	4.6	0.6	4.2	0.6	46.6	321	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
RRMDD734	4.90	6.00	1.10	187.6	200.2	50.7	190.7	31.4	5.3	24.0	3.5	18.9	3.8	11.3	1.5	8.5	1.2	117.6	856	Lower Saprolite		
RRMDD734	6.00	7.10	1.10	211.1	179.3	48.0	198.9	38.3	8.2	47.4	8.1	54.3	12.5	39.3	5.4	32.1	5.1	506.7	1395	Lower Saprolite	**2.70**	**977**
RRMDD734	7.10	8.60	1.50	54.7	106.0	12.6	45.0	7.8	1.3	5.4	0.7	3.9	0.8	2.1	0.3	1.8	0.3	26.3	269	Saprock		
RRMDD735	0.00	1.44	1.44	71.3	152.3	14.3	50.5	9.2	1.6	7.0	1.1	6.7	1.3	4.3	0.6	3.9	0.6	35.7	360	Hardcap		
RRMDD735	1.44	2.08	0.64	91.0	265.3	17.5	58.9	10.9	1.7	8.0	1.2	7.6	1.5	4.6	0.7	4.3	0.7	43.7	518	Transition		
RRMDD735	2.08	2.84	0.76	71.1	195.9	15.4	56.2	10.4	1.7	8.7	1.3	8.2	1.8	5.7	0.8	5.2	0.7	54.2	437	Clay		
RRMDD735	2.84	3.60	0.76	71.1	143.1	15.8	57.7	11.2	1.8	9.0	1.4	8.6	1.8	5.8	0.8	5.2	0.8	55.7	390	Clay		
RRMDD735	3.60	4.37	0.77	75.8	127.1	17.2	70.5	11.3	2.0	11.2	1.8	10.3	2.1	6.3	0.9	5.7	0.9	70.5	413	Clay		
RRMDD735	4.37	5.14	0.77	83.9	133.9	19.7	75.2	13.2	2.2	11.8	1.9	11.5	2.5	7.5	1.1	6.7	1.0	80.9	453	Clay		
RRMDD735	5.14	6.12	0.98	72.2	110.8	17.0	64.6	11.2	2.0	10.4	1.6	10.2	2.2	6.3	0.9	6.0	0.9	71.1	387	Clay		
RRMDD735	6.12	7.10	0.98	350.7	243.2	64.2	237.9	42.6	9.0	50.3	8.0	51.9	11.6	34.2	4.8	28.8	4.5	464.8	1606	Clay		
RRMDD735	7.10	7.97	0.87	65.9	64.7	17.6	71.5	13.9	2.7	13.0	2.1	12.9	2.8	7.6	1.1	7.2	1.0	89.5	373	Clay		
RRMDD735	7.97	8.84	0.87	46.9	44.3	14.4	62.2	12.0	2.2	11.8	1.8	12.3	2.6	7.8	1.1	6.9	1.0	88.9	316	Clay		
RRMDD735	8.84	9.71	0.87	64.2	57.2	19.0	79.4	16.4	3.1	16.3	2.4	15.6	3.2	9.7	1.4	8.4	1.2	117.0	414	Clay		
RRMDD735	9.71	10.58	0.87	86.4	60.4	25.4	104.7	20.2	4.1	20.3	3.0	19.2	3.9	11.1	1.6	9.4	1.5	137.8	509	Clay		
RRMDD735	10.58	11.45	0.87	140.7	74.8	35.5	149.3	29.5	5.2	29.9	4.1	25.7	5.2	15.7	2.1	12.5	1.9	187.3	719	Clay		
RRMDD735	11.45	12.32	0.87	99.9	63.9	33.5	144.6	28.3	5.8	28.9	4.2	25.0	5.1	15.3	2.0	13.0	1.9	188.6	660	Clay		
RRMDD735	12.32	13.17	0.85	130.2	318.2	45.9	196.5	40.1	7.5	37.3	5.7	35.9	7.1	20.6	2.9	16.1	2.5	255.2	1122	Clay		
RRMDD735	13.17	14.05	0.88	170.6	266.6	65.4	271.8	53.3	9.7	48.1	6.9	40.7	8.2	23.9	3.0	19.1	2.7	285.7	1276	Upper Saprolite		
RRMDD735	14.05	15.00	0.95	120.8	204.5	47.7	192.5	36.9	6.7	30.4	4.5	24.4	4.7	13.3	1.9	11.0	1.6	153.0	854	Upper Saprolite		
RRMDD735	15.00	15.68	0.68	71.8	149.9	22.1	89.1	17.3	3.3	15.2	2.3	13.2	2.8	8.4	1.1	7.1	1.0	91.9	497	Upper Saprolite		
RRMDD735	15.68	16.35	0.67	92.7	291.1	24.4	97.5	19.8	3.8	17.5	2.6	15.5	3.3	9.5	1.2	7.6	1.2	112.0	700	Upper Saprolite		
RRMDD735	16.35	17.38	1.03	53.8	106.3	18.2	78.6	15.5	3.4	16.9	2.4	15.5	3.4	9.2	1.4	7.8	1.2	117.5	451	Lower Saprolite		
RRMDD735	17.38	18.41	1.03	35.3	102.3	11.8	51.2	10.5	2.2	10.9	1.7	11.0	2.3	6.9	1.1	6.1	0.8	77.2	331	Lower Saprolite	**16.33**	**634**
RRMDD735	18.41	19.44	1.03	19.9	35.1	6.7	29.4	6.4	1.4	7.1	1.1	7.0	1.5	4.7	0.7	4.3	0.7	51.8	178	Lower Saprolite		
RRMDD735	19.44	20.45	1.01	13.4	36.0	4.7	21.1	5.1	1.2	4.8	0.8	5.1	1.1	3.3	0.5	3.3	0.5	34.7	136	Lower Saprolite		
RRMDD735	20.45	21.19	0.74	10.7	20.9	3.7	16.6	3.1	0.7	4.0	0.6	4.0	0.9	2.7	0.4	2.8	0.5	28.6	100	Lower Saprolite		
RRMDD735	21.19	21.93	0.74	10.4	76.3	3.5	16.3	3.2	0.8	3.2	0.5	3.6	0.7	2.2	0.3	2.3	0.4	22.4	146	Lower Saprolite		
RRMDD735	21.93	22.67	0.74	20.3	49.3	5.6	19.9	3.5	0.8	3.0	0.4	2.9	0.5	1.9	0.2	2.1	0.3	18.0	129	Lower Saprolite		
RRMDD735	22.67	23.70	1.03	12.2	362.4	3.6	14.5	2.4	0.6	2.3	0.4	2.8	0.7	1.9	0.3	2.3	0.3	19.3	426	Lower Saprolite		
RRMDD735	23.70	24.70	1.00	16.7	51.2	4.7	18.0	3.5	0.8	2.7	0.4	2.8	0.6	1.8	0.3	2.1	0.3	17.7	123	Lower Saprolite		
RRMDD735	24.70	25.75	1.05	15.0	84.8	4.1	15.6	2.8	0.7	2.4	0.4	2.7	0.5	1.8	0.3	2.0	0.3	17.3	151	Lower Saprolite		
RRMDD735	25.75	26.76	1.01	36.8	73.2	10.9	41.8	7.9	1.6	4.8	0.6	3.7	0.7	1.8	0.3	1.8	0.3	21.3	207	Lower Saprolite		
RRMDD735	26.76	27.77	1.01	29.9	46.6	7.9	30.0	6.3	1.1	3.9	0.5	2.7	0.4	1.6	0.2	2.1	0.3	15.5	149	Lower Saprolite		
RRMDD735	27.77	28.78	1.01	19.2	32.9	4.6	16.3	2.8	0.6	1.9	0.2	1.8	0.4	1.1	0.2	1.3	0.2	11.0	95	Lower Saprolite		
RRMDD735	28.78	29.79	1.01	33.3	68.7	8.5	30.8	4.9	1.1	3.7	0.5	2.6	0.5	1.5	0.2	1.7	0.3	14.9	173	Lower Saprolite		
RRMDD735	29.79	30.80	1.01	63.1	61.1	17.5	64.7	12.2	2.6	8.0	1.1	5.6	1.0	2.7	0.3	2.3	0.3	23.5	266	Lower Saprolite		
RRMDD735	30.80	31.80	1.00	103.1	87.3	24.6	98.9	19.2	4.7	16.2	2.2	12.2	2.1	5.9	0.8	4.7	0.7	58.8	441	Lower Saprolite	**2.01**	**353**
RRMDD735	31.80	32.80	1.00	44.8	76.5	10.5	39.3	6.6	1.6	6.0	0.9	6.0	1.3	4.4	0.6	3.7	0.6	48.8	252	Lower Saprolite		
RRMDD735	32.80	33.80	1.00	27.3	42.0	5.5	21.5	4.0	1.0	3.4	0.5	2.9	0.6	1.8	0.3	1.9	0.3	17.5	130	Lower Saprolite		
RRMDD735	33.80	34.80	1.00	39.3	45.2	7.0	29.0	5.5	1.5	5.9	0.9	5.2	1.3	3.6	0.5	3.2	0.5	52.6	201	Lower Saprolite		
RRMDD735	34.80	35.80	1.00	30.0	57.7	6.8	25.2	4.8	1.2	4.4	0.7	4.1	0.8	2.5	0.4	2.3	0.4	33.5	175	Lower Saprolite		
RRMDD735	35.80	36.70	0.90	30.3	68.8	7.2	28.3	5.1	1.3	4.6	0.7	3.9	0.8	2.4	0.3	2.1	0.3	24.1	180	Saprock		
RRMDD736	0.00	1.84	1.84	182.4	219.9	31.8	103.1	16.2	2.8	12.6	1.8	9.1	1.7	4.7	0.7	4.7	0.6	43.8	636	Hardcap		
RRMDD736	1.84	2.70	0.86	98.9	170.7	18.5	59.8	9.6	1.6	7.3	1.1	6.4	1.3	3.8	0.6	4.0	0.5	37.7	422	Transition		
RRMDD736	2.70	3.63	0.93	89.5	148.6	17.8	65.9	10.7	1.9	9.0	1.4	8.1	1.7	4.8	0.7	5.0	0.7	53.7	420	Clay		
RRMDD736	3.63	4.56	0.93	84.6	111.9	16.7	61.7	10.9	1.8	9.0	1.4	8.2	1.7	4.8	0.8	4.9	0.8	53.6	373	Clay		
RRMDD736	4.56	5.49	0.93	68.8	85.7	13.7	51.3	8.9	1.5	7.8	1.2	7.1	1.5	4.5	0.7	4.1	0.6	46.7	304	Clay		
RRMDD736	5.49	6.40	0.91	51.7	59.1	10.6	40.8	7.1	1.4	6.1	1.1	6.0	1.3	3.7	0.6	3.7	0.6	39.9	234	Clay		
RRMDD736	6.40	7.30	0.90	40.7	54.9	8.7	33.6	6.0	1.2	5.6	0.9	5.4	1.1	3.5	0.5	3.6	0.5	36.3	203	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
RRMDD736	7.30	8.18	0.88	88.0	133.3	15.8	58.6	9.9	2.0	9.8	1.5	8.5	1.8	4.9	0.7	4.6	0.7	53.8	394	Clay	**5.48**	**321**
RRMDD736	8.18	9.06	0.88	46.4	355.0	9.4	37.3	6.5	1.3	6.4	1.1	6.0	1.2	3.8	0.5	3.5	0.5	39.2	518	Clay		
RRMDD736	9.06	9.95	0.89	30.1	60.9	6.8	26.8	5.0	1.0	4.7	0.8	4.8	1.0	3.2	0.4	2.8	0.4	31.5	180	Clay		
RRMDD736	9.95	10.84	0.89	27.9	52.3	6.6	25.1	5.0	1.0	4.4	0.7	4.5	0.9	2.9	0.4	2.9	0.5	30.2	166	Clay		
RRMDD736	10.84	11.73	0.89	30.3	29.7	7.1	26.9	5.1	1.1	5.0	0.8	5.0	1.0	2.9	0.4	3.0	0.5	32.5	151	Clay		
RRMDD736	11.73	12.62	0.89	36.7	36.0	8.4	33.5	6.4	1.4	6.3	0.9	5.5	1.2	3.6	0.5	3.3	0.5	37.6	182	Clay		
RRMDD736	12.62	13.50	0.88	27.0	33.8	6.5	25.2	4.7	1.1	4.7	0.8	4.5	0.9	2.6	0.4	2.8	0.4	29.6	145	Clay		
RRMDD736	13.50	14.51	1.01	133.7	80.7	25.1	97.2	17.9	4.2	19.2	3.1	18.0	4.1	11.9	1.7	10.0	1.5	165.1	593	Clay		
RRMDD736	14.51	15.52	1.01	144.3	154.2	33.0	130.1	23.8	5.0	21.8	3.3	17.5	3.5	10.4	1.4	8.6	1.3	128.3	686	Clay		
RRMDD736	15.52	16.39	0.87	97.6	213.7	28.0	106.1	18.6	4.2	16.8	2.6	13.8	2.7	7.7	1.1	6.6	0.9	87.4	608	Clay		
RRMDD736	16.39	17.26	0.87	64.3	57.4	15.5	59.8	10.8	2.6	9.4	1.4	7.8	1.5	4.4	0.6	3.8	0.5	49.7	289	Clay		
RRMDD736	17.26	18.13	0.87	50.4	40.7	11.9	46.2	8.8	1.9	7.6	1.2	6.4	1.3	3.9	0.6	3.4	0.5	40.8	226	Clay		
RRMDD736	18.13	19.00	0.87	57.6	64.0	12.7	53.5	10.2	2.3	9.4	1.5	7.9	1.6	4.5	0.6	4.1	0.7	54.6	285	Clay		
RRMDD736	19.00	19.85	0.85	73.3	77.4	17.2	68.9	12.3	3.0	11.1	1.7	8.8	1.8	4.8	0.7	3.9	0.6	54.7	340	Clay		
RRMDD736	19.85	20.80	0.95	84.7	80.7	21.8	85.5	15.4	3.6	13.1	1.8	9.4	1.7	4.6	0.6	4.0	0.6	52.1	380	Upper Saprolite	**8.25**	**423**
RRMDD736	20.80	21.75	0.95	68.5	104.5	17.2	67.9	13.2	2.9	10.3	1.4	7.5	1.4	3.9	0.5	3.3	0.5	39.9	343	Upper Saprolite		
RRMDD736	21.75	22.70	0.95	43.2	58.1	10.2	39.2	7.0	1.7	6.2	0.9	4.9	1.1	3.0	0.5	2.8	0.4	30.5	210	Upper Saprolite		
RRMDD736	22.70	23.65	0.95	12.9	37.5	3.1	11.9	2.6	0.6	2.6	0.4	2.8	0.6	1.8	0.3	2.0	0.3	19.3	99	Upper Saprolite		
RRMDD736	23.65	24.60	0.95	13.5	171.4	3.2	13.3	3.0	0.7	2.9	0.6	3.2	0.7	1.9	0.3	2.0	0.3	19.3	236	Upper Saprolite		
RRMDD736	24.60	25.36	0.76	44.3	57.2	9.0	35.5	6.9	1.7	6.5	1.0	5.2	1.1	2.8	0.4	2.9	0.4	36.3	211	Lower Saprolite		
RRMDD736	25.36	26.12	0.76	66.3	94.3	15.5	60.2	11.3	2.9	10.9	1.6	9.1	1.9	5.2	0.7	4.2	0.7	60.4	345	Lower Saprolite		
RRMDD736	26.12	26.88	0.76	59.0	63.6	13.0	52.4	9.6	2.3	8.9	1.2	6.9	1.2	3.6	0.5	2.7	0.4	39.6	265	Lower Saprolite	**1.52**	**305**
RRMDD736	26.88	27.65	0.77	35.3	63.1	7.9	32.3	6.0	1.6	6.2	0.8	4.9	1.0	2.8	0.4	2.5	0.4	30.2	195	Lower Saprolite		
RRMDD736	27.65	28.83	1.18	38.4	49.8	8.9	35.1	6.5	1.5	6.5	0.8	4.8	1.0	2.7	0.4	2.5	0.4	29.1	188	Saprock		
RRMDD736	28.83	30.00	1.17	35.7	60.1	8.2	32.4	5.2	1.3	5.7	0.7	4.3	0.9	2.4	0.3	1.9	0.3	24.6	184	Saprock		
RRMDD737	0.00	1.38	1.38	84.8	313.2	18.4	61.8	10.8	1.7	8.5	1.3	8.0	1.6	4.6	0.7	4.6	0.7	46.2	567	Hardcap		
RRMDD737	1.38	2.75	1.37	70.5	474.2	15.6	50.4	8.1	1.5	6.7	1.0	6.4	1.3	3.7	0.6	4.2	0.5	35.3	680	Hardcap		
RRMDD737	2.75	3.25	0.50	84.4	207.6	19.1	64.6	10.9	1.9	8.9	1.6	8.9	1.8	5.3	0.8	5.4	0.8	51.6	474	Transition		
RRMDD737	3.25	4.18	0.93	68.0	88.0	14.6	52.7	8.4	1.6	7.6	1.1	7.4	1.5	4.2	0.7	4.4	0.7	40.6	301	Clay		
RRMDD737	4.18	5.11	0.93	320.2	272.7	67.2	229.8	35.3	6.7	27.1	3.5	17.6	3.0	7.1	0.9	5.6	0.8	68.1	1065	Clay		
RRMDD737	5.11	6.05	0.94	189.4	261.6	43.3	149.3	25.3	4.9	22.2	3.0	17.5	3.0	7.9	1.1	7.1	1.0	79.2	816	Clay		
RRMDD737	6.05	7.07	1.02	114.2	233.4	34.1	127.7	23.4	4.6	23.3	3.6	24.7	5.5	17.2	2.4	16.1	2.4	175.2	808	Clay		
RRMDD737	7.07	8.06	0.99	99.3	140.0	35.4	141.7	27.8	6.0	26.7	4.5	29.4	6.4	20.3	2.9	18.7	2.7	206.4	768	Clay		
RRMDD737	8.06	9.10	1.04	87.8	105.3	29.0	125.4	25.0	5.8	28.5	4.2	26.4	5.5	15.7	2.2	14.6	2.0	160.6	638	Upper Saprolite		
RRMDD737	9.10	9.68	0.58	85.3	78.0	22.9	106.6	23.5	5.9	42.1	6.5	47.9	11.5	35.1	4.9	30.1	4.6	445.7	951	Lower Saprolite	**6.43**	**752**
RRMDD737	9.68	10.90	1.22	30.0	45.3	6.8	27.4	5.2	1.1	5.7	0.8	5.1	1.1	3.2	0.5	2.8	0.4	42.3	178	Saprock		
RRMDD738	0.00	1.62	1.62	74.0	141.3	13.0	41.9	6.7	1.3	5.3	0.9	5.5	1.1	3.4	0.5	3.7	0.5	30.0	329	Hardcap		
RRMDD738	1.62	3.24	1.62	83.2	348.9	14.3	45.3	7.4	1.2	5.5	0.9	5.9	1.1	3.4	0.5	3.7	0.4	26.9	549	Hardcap		
RRMDD738	3.24	4.85	1.61	267.4	718.6	51.0	159.8	25.4	4.4	17.9	2.5	13.9	2.2	6.1	0.9	6.0	0.8	48.4	1325	Hardcap		
RRMDD738	4.85	5.25	0.40	374.1	425.0	99.2	373.2	60.4	10.2	40.3	4.6	22.8	3.4	7.3	0.9	5.4	0.7	65.7	1493	Transition		
RRMDD738	5.25	6.03	0.78	88.1	128.4	20.7	71.5	10.7	1.9	8.3	1.2	7.0	1.2	4.0	0.6	4.0	0.6	36.4	385	Clay		
RRMDD738	6.03	6.80	0.77	101.2	162.1	22.5	75.9	12.3	2.2	9.5	1.4	8.5	1.7	5.2	0.8	5.2	0.8	47.1	457	Clay		
RRMDD738	6.80	7.66	0.86	84.1	144.3	21.7	79.3	13.9	2.7	11.5	1.6	9.8	2.0	6.1	0.9	6.4	0.9	56.5	442	Clay		
RRMDD738	7.66	8.42	0.76	99.7	167.1	25.5	95.6	16.5	3.1	13.8	1.9	11.1	2.2	6.5	1.0	6.0	0.9	62.5	513	Upper Saprolite		
RRMDD738	8.42	9.18	0.76	88.2	148.6	21.5	77.4	14.6	2.7	12.2	1.8	11.0	2.3	6.8	1.1	6.1	0.9	64.1	459	Upper Saprolite		
RRMDD738	9.18	9.94	0.76	75.4	146.8	20.8	82.8	16.1	3.2	14.5	2.1	12.4	2.6	7.2	1.0	6.9	1.0	71.6	464	Upper Saprolite		
RRMDD738	9.94	10.83	0.89	81.4	158.5	25.4	109.2	22.8	5.3	25.4	3.7	22.6	4.7	13.6	1.9	11.6	1.7	144.1	632	Lower Saprolite		
RRMDD738	10.83	11.72	0.89	67.7	132.7	20.1	84.1	17.0	3.7	18.6	2.7	16.9	3.6	11.1	1.5	10.0	1.4	113.1	504	Lower Saprolite		
RRMDD738	11.72	12.61	0.89	46.3	99.0	12.0	47.8	9.2	2.1	10.2	1.5	9.8	2.1	6.7	1.0	6.5	1.0	70.0	325	Lower Saprolite		
RRMDD738	12.61	13.50	0.89	48.6	88.2	11.3	39.3	7.1	1.5	6.5	0.9	5.7	1.2	3.6	0.6	3.6	0.5	43.7	262	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
RRMDD738	13.50	14.40	0.90	69.5	142.5	21.0	91.2	21.6	5.6	23.5	3.4	18.8	3.1	7.9	1.0	6.4	1.0	83.3	500	Lower Saprolite	**9.15**	**449**
RRMDD738	14.40	15.00	0.60	44.2	88.6	10.5	38.1	6.7	1.5	5.9	0.8	5.4	1.1	3.3	0.4	3.3	0.5	36.3	247	Saprock		
RRMDD739	0.00	1.34	1.34	86.4	156.6	16.3	53.9	9.3	1.5	7.0	1.2	6.7	1.3	4.0	0.6	3.8	0.6	38.4	388	Hardcap		
RRMDD739	1.34	2.68	1.34	89.6	355.0	16.7	56.3	9.8	1.6	6.8	1.2	6.5	1.4	3.9	0.6	4.3	0.5	34.2	588	Hardcap		
RRMDD739	2.68	3.25	0.57	108.1	743.2	21.8	75.2	11.8	2.1	9.9	1.5	9.0	1.8	4.9	0.8	5.1	0.8	43.7	1040	Transition		
RRMDD739	3.25	3.98	0.73	369.4	436.1	60.5	185.5	24.8	4.1	18.6	2.4	14.2	2.5	7.2	1.0	7.0	1.0	65.9	1200	Clay		
RRMDD739	3.98	4.70	0.72	248.6	251.8	44.8	138.2	19.0	3.4	15.2	2.0	11.6	2.2	5.8	0.9	5.4	0.8	60.1	810	Clay		
RRMDD739	4.70	5.44	0.74	139.6	149.3	29.5	97.2	14.0	2.5	11.5	1.6	10.1	1.9	5.5	0.8	5.5	0.8	49.5	519	Clay		
RRMDD739	5.44	6.29	0.85	67.9	108.6	17.0	61.6	10.2	1.9	9.0	1.4	8.6	1.6	4.9	0.7	4.8	0.8	44.7	344	Clay		
RRMDD739	6.29	7.14	0.85	139.6	172.6	32.6	117.2	20.5	3.0	12.7	1.8	10.0	1.9	5.0	0.8	4.6	0.7	44.3	567	Clay		
RRMDD739	7.14	8.00	0.86	194.7	296.0	54.0	217.0	42.6	7.7	30.3	3.8	17.8	2.8	6.4	0.8	4.5	0.6	63.1	942	Clay		
RRMDD739	8.00	8.80	0.80	59.0	104.5	14.0	49.7	8.6	1.6	7.3	1.2	6.9	1.5	4.2	0.7	3.9	0.7	39.9	304	Clay		
RRMDD739	8.80	9.60	0.80	64.7	121.2	14.8	51.9	10.0	1.7	7.4	1.2	7.5	1.6	4.6	0.8	4.4	0.7	43.6	336	Clay		
RRMDD739	9.60	10.58	0.98	62.5	125.9	15.9	59.8	11.3	2.1	11.2	1.9	11.9	2.7	7.5	1.1	6.3	1.0	84.6	406	Clay		
RRMDD739	10.58	11.56	0.98	236.9	414.0	74.2	293.9	59.4	10.1	41.7	6.0	29.8	5.5	11.8	1.6	8.7	1.3	122.4	1317	Clay		
RRMDD739	11.56	12.54	0.98	88.1	182.4	23.3	94.4	22.4	5.0	32.6	5.2	32.8	7.7	20.9	2.9	17.3	2.7	318.7	856	Clay		
RRMDD739	12.54	13.20	0.66	63.7	132.1	14.2	51.4	9.0	2.0	8.2	1.2	7.2	1.5	4.2	0.6	3.6	0.5	44.1	343	Upper Saprolite		
RRMDD739	13.20	14.20	1.00	71.3	141.9	18.7	79.9	21.1	4.6	30.3	5.1	31.6	7.5	19.6	2.8	15.0	2.5	259.1	711	Lower Saprolite	**10.95**	**676**
RRMDD739	14.20	16.00	1.80	64.6	132.7	15.9	63.3	12.5	2.3	11.4	1.8	10.0	2.3	5.9	0.9	5.2	0.9	59.8	389	Saprock		
RRMDD740	0.00	1.48	1.48	107.4	324.3	17.2	52.7	8.1	1.4	5.8	1.0	5.7	1.1	3.2	0.5	3.4	0.4	31.5	564	Hardcap		
RRMDD740	1.48	2.95	1.47	103.2	384.5	18.2	54.9	8.8	1.5	6.1	1.0	5.3	1.1	3.0	0.5	3.5	0.5	26.7	619	Hardcap		
RRMDD740	2.95	3.80	0.85	158.3	379.6	33.1	106.3	15.0	2.3	10.3	1.6	9.1	1.9	4.9	0.8	4.8	0.7	43.4	772	Transition		
RRMDD740	3.80	4.67	0.87	160.7	269.0	38.5	145.8	25.7	3.7	15.8	2.2	11.6	2.1	5.4	0.9	5.4	0.8	48.4	736	Clay		
RRMDD740	4.67	5.54	0.87	139.6	216.8	29.1	107.0	19.4	2.9	11.9	1.8	8.9	1.7	4.5	0.7	4.3	0.7	42.3	591	Clay		
RRMDD740	5.54	6.40	0.86	85.1	115.5	16.8	61.5	10.7	1.7	8.7	1.4	7.6	1.5	3.9	0.6	4.0	0.6	37.3	357	Clay		
RRMDD740	6.40	7.33	0.93	74.4	99.9	14.0	45.0	7.9	1.4	6.3	1.0	6.1	1.4	3.9	0.6	4.5	0.7	35.7	303	Clay		
RRMDD740	7.33	8.26	0.93	56.3	97.5	12.8	44.6	8.1	1.6	6.9	1.1	6.2	1.4	4.3	0.9	4.4	0.9	35.6	282	Clay		
RRMDD740	8.26	9.23	0.97	119.0	209.4	26.9	92.8	16.6	2.9	11.6	1.8	9.5	2.0	4.7	0.7	4.8	0.7	46.5	550	Clay		
RRMDD740	9.23	10.20	0.97	79.6	149.9	21.7	78.6	14.4	2.4	11.6	1.7	9.5	2.0	5.3	0.9	5.4	0.8	55.4	439	Clay		
RRMDD740	10.20	11.16	0.96	86.1	167.7	23.0	83.3	14.7	2.7	12.4	1.9	10.7	2.3	6.2	1.0	6.0	0.9	64.3	483	Clay		
RRMDD740	11.16	12.10	0.94	77.6	168.3	22.2	85.4	16.1	2.7	13.1	1.9	10.4	2.3	6.2	0.9	5.4	0.8	69.6	483	Clay		
RRMDD740	12.10	12.90	0.80	75.2	168.3	20.1	74.2	13.3	2.4	11.9	1.8	10.2	2.1	6.1	0.9	5.4	0.9	61.1	454	Upper Saprolite		
RRMDD740	12.90	13.70	0.80	83.9	168.9	20.1	70.8	12.9	2.2	10.6	1.4	8.1	1.9	5.0	0.7	4.7	0.7	51.9	444	Upper Saprolite		
RRMDD740	13.70	14.50	0.80	85.5	157.2	18.4	63.8	11.8	2.3	10.1	1.6	9.0	1.8	5.0	0.8	4.9	0.8	54.1	427	Upper Saprolite		
RRMDD740	14.50	15.35	0.85	88.5	165.8	25.3	114.7	31.4	6.6	40.0	7.4	48.1	10.8	30.9	4.4	27.1	4.0	360.7	966	Lower Saprolite		
RRMDD740	15.35	16.20	0.85	53.0	110.6	14.9	65.2	14.3	3.0	17.7	2.6	16.1	3.7	10.4	1.5	8.0	1.2	116.3	439	Lower Saprolite	**12.40**	**495**
RRMDD740	16.20	17.50	1.30	56.1	109.2	11.9	41.2	6.7	1.3	5.4	0.9	5.2	1.1	3.3	0.5	2.8	0.4	34.4	280	Saprock		
RRMDD741	0.00	1.63	1.63	98.3	210.7	19.5	64.2	10.6	1.8	8.2	1.3	7.8	1.6	4.7	0.7	4.7	0.7	46.7	481	Hardcap		
RRMDD741	1.63	3.26	1.63	146.0	342.7	25.3	73.6	11.0	2.0	7.9	1.3	7.2	1.5	4.2	0.6	4.0	0.6	37.3	665	Hardcap		
RRMDD741	3.26	4.90	1.64	130.8	631.4	24.2	79.9	13.2	2.5	10.2	1.6	9.4	1.9	5.2	0.8	5.4	0.8	45.5	963	Hardcap		
RRMDD741	4.90	5.78	0.88	131.9	581.0	24.8	84.0	14.8	2.5	11.9	1.8	11.3	2.3	6.0	1.0	5.8	0.9	56.1	936	Transition		
RRMDD741	5.78	6.65	0.87	293.2	324.3	68.3	237.9	38.0	6.1	26.7	3.8	19.3	3.8	9.0	1.3	7.5	1.1	89.3	1130	Clay		
RRMDD741	6.65	7.52	0.87	71.3	113.5	21.1	88.4	16.5	2.9	14.9	2.4	14.2	3.3	8.9	1.3	8.1	1.2	94.0	462	Clay		
RRMDD741	7.52	8.39	0.87	127.2	160.9	38.3	162.1	29.9	5.6	26.6	4.2	22.9	4.9	12.6	1.9	10.6	1.6	141.0	750	Clay		
RRMDD741	8.39	9.26	0.87	135.5	192.2	32.1	123.1	23.9	4.6	21.7	3.5	20.3	4.4	11.8	1.8	10.4	1.7	125.0	712	Clay		
RRMDD741	9.26	10.13	0.87	97.9	189.8	26.0	103.3	21.2	3.6	18.8	2.9	17.4	3.9	11.2	1.5	9.7	1.4	128.9	638	Clay		
RRMDD741	10.13	11.00	0.87	40.2	143.1	13.7	59.5	13.1	2.5	14.6	2.3	15.6	3.6	10.4	1.5	9.6	1.5	117.6	449	Clay		
RRMDD741	11.00	11.85	0.85	75.9	193.5	19.8	80.7	17.2	3.6	17.0	2.8	16.7	3.5	10.5	1.5	9.1	1.4	117.5	571	Clay	**6.07**	**673**
RRMDD741	11.85	12.58	0.73	22.4	73.0	6.5	28.8	5.2	1.2	6.1	0.9	6.0	1.3	4.2	0.6	3.8	0.6	47.5	208	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
RRMDD741	12.58	13.30	0.72	21.8	59.3	6.0	22.3	4.2	1.0	4.5	0.8	4.9	1.1	3.6	0.5	3.3	0.5	37.8	172	Clay		
RRMDD741	13.30	14.21	0.91	18.9	105.4	4.8	18.1	3.8	0.8	3.8	0.6	4.0	0.8	2.6	0.4	2.4	0.5	25.8	192	Upper Saprolite		
RRMDD741	14.21	15.12	0.91	17.4	58.6	4.5	18.2	3.3	0.9	3.2	0.6	3.4	0.8	2.5	0.4	2.6	0.3	24.6	141	Upper Saprolite		
RRMDD741	15.12	16.03	0.91	21.7	74.2	5.9	21.0	3.7	0.9	3.6	0.5	3.3	0.7	2.4	0.3	2.4	0.4	22.2	163	Upper Saprolite		
RRMDD741	16.03	16.94	0.91	42.6	79.5	11.1	42.1	7.9	1.7	6.0	0.8	5.0	0.9	2.7	0.4	2.8	0.4	27.2	231	Upper Saprolite		
RRMDD741	16.94	17.85	0.91	45.0	69.7	12.5	48.9	8.8	2.1	7.1	1.0	6.2	1.1	3.1	0.5	2.9	0.4	32.9	242	Upper Saprolite		
RRMDD741	17.85	18.83	0.98	46.4	80.0	11.5	46.3	8.4	1.9	6.9	0.9	5.2	1.1	3.2	0.4	2.7	0.4	32.3	248	Lower Saprolite		
RRMDD741	18.83	19.81	0.98	32.3	70.0	8.1	31.8	5.8	1.4	5.5	0.8	5.0	0.9	2.8	0.4	2.5	0.3	28.4	196	Lower Saprolite		
RRMDD741	19.81	20.80	0.99	40.9	88.3	10.3	40.1	7.9	1.8	6.9	1.0	6.3	1.2	3.6	0.5	3.0	0.4	37.6	250	Lower Saprolite		
RRMDD741	20.80	22.40	1.60	30.8	58.3	7.2	28.3	5.1	1.0	4.5	0.6	3.4	0.7	2.1	0.3	2.1	0.3	22.9	168	Saprock		
RRMDD742	0.00	1.53	1.53	139.0	339.0	27.1	83.9	13.2	2.1	9.8	1.6	8.4	1.8	5.2	0.7	4.8	0.7	49.8	687	Hardcap		
RRMDD742	1.53	3.05	1.52	110.5	547.9	21.1	64.5	11.1	1.7	7.4	1.3	6.4	1.2	3.5	0.6	4.1	0.6	31.7	813	Hardcap		
RRMDD742	3.05	3.60	0.55	102.6	229.1	19.3	71.0	11.5	2.2	10.1	1.5	8.3	1.7	5.2	0.8	4.6	0.8	51.3	520	Transition		
RRMDD742	3.60	4.53	0.93	82.3	180.0	16.9	58.1	9.4	1.7	8.5	1.3	7.7	1.7	4.9	0.7	4.8	0.7	50.5	429	Clay		
RRMDD742	4.53	5.46	0.93	60.6	154.2	12.1	41.9	7.3	1.1	6.4	1.0	6.2	1.4	3.8	0.6	3.7	0.6	39.4	340	Clay		
RRMDD742	5.46	6.39	0.93	35.2	94.0	7.5	25.9	5.1	0.9	4.3	0.7	4.2	0.8	3.0	0.4	3.0	0.5	27.4	213	Clay		
RRMDD742	6.39	7.32	0.93	24.6	151.1	5.6	22.0	4.1	0.7	3.4	0.6	3.8	0.8	2.6	0.4	2.8	0.4	24.8	248	Clay		
RRMDD742	7.32	8.25	0.93	23.2	70.0	5.4	19.9	3.5	0.7	3.6	0.6	4.1	0.8	2.8	0.4	2.9	0.5	26.0	164	Clay		
RRMDD742	8.25	9.18	0.93	25.1	54.5	5.5	20.9	3.7	0.9	3.7	0.7	4.0	0.9	2.7	0.4	2.7	0.5	25.9	152	Clay		
RRMDD742	9.18	10.11	0.93	22.5	44.3	5.1	19.8	3.9	0.8	3.4	0.6	4.2	0.8	2.7	0.4	2.5	0.4	27.4	139	Clay		
RRMDD742	10.11	11.04	0.93	18.9	94.2	4.5	17.5	3.2	0.7	3.4	0.6	3.7	0.8	2.4	0.4	2.5	0.4	25.0	178	Clay		
RRMDD742	11.04	11.97	0.93	24.5	115.8	6.0	22.6	4.0	0.8	4.3	0.7	4.5	1.0	3.1	0.4	3.2	0.4	30.7	222	Clay		
RRMDD742	11.97	12.91	0.94	21.6	55.0	5.7	21.2	4.4	0.9	4.5	0.7	4.6	1.0	2.9	0.4	3.1	0.5	30.1	157	Clay		
RRMDD742	12.91	13.80	0.89	16.3	74.6	4.7	19.1	4.2	0.8	3.5	0.6	3.9	0.8	2.9	0.4	2.5	0.4	27.7	162	Clay		
RRMDD742	13.80	14.69	0.89	18.8	33.3	5.4	19.9	4.2	0.9	3.7	0.6	4.1	1.0	2.6	0.4	2.8	0.4	26.7	125	Clay		
RRMDD742	14.69	15.57	0.88	16.8	26.7	4.4	17.6	4.0	0.8	3.6	0.7	3.9	0.9	2.7	0.3	2.6	0.4	24.3	110	Clay		
RRMDD742	15.57	16.54	0.97	22.8	58.6	6.0	21.0	4.2	1.0	3.9	0.6	3.9	0.7	2.7	0.4	2.6	0.4	23.9	153	Clay		
RRMDD742	16.54	17.51	0.97	21.6	100.9	6.1	23.0	4.6	1.0	4.1	0.6	3.8	0.8	2.3	0.4	2.5	0.4	23.5	195	Clay		
RRMDD742	17.51	18.48	0.97	22.3	148.6	6.5	24.4	4.8	1.0	4.1	0.6	3.8	0.8	2.1	0.3	2.4	0.3	21.1	243	Clay		
RRMDD742	18.48	19.45	0.97	29.6	92.9	8.3	29.5	5.3	1.2	4.1	0.6	3.7	0.7	2.3	0.4	2.2	0.4	20.7	202	Clay		
RRMDD742	19.45	20.42	0.97	19.4	81.7	4.9	19.6	4.1	0.9	3.4	0.6	3.2	0.6	1.9	0.3	2.1	0.4	17.7	161	Clay		
RRMDD742	20.42	21.39	0.97	15.0	51.7	5.0	18.1	4.4	1.0	2.9	0.5	3.0	0.5	1.9	0.3	1.7	0.3	15.0	121	Clay		
RRMDD742	21.39	22.36	0.97	11.5	24.7	3.4	11.9	2.7	0.7	2.4	0.4	2.6	0.5	1.5	0.2	1.7	0.3	14.3	79	Clay		
RRMDD742	22.36	23.36	1.00	12.3	48.5	3.5	12.7	3.1	0.7	2.5	0.4	2.7	0.5	1.5	0.2	1.8	0.3	15.1	106	Clay		
RRMDD742	23.36	24.16	0.80	13.4	160.3	3.4	13.9	2.9	0.7	2.4	0.4	2.8	0.5	1.9	0.3	1.7	0.3	15.2	220	Clay		
RRMDD742	24.16	25.00	0.84	14.7	21.3	4.0	14.6	3.4	0.7	2.4	0.4	2.8	0.5	1.7	0.3	1.7	0.3	15.5	84	Clay		
RRMDD742	25.00	25.80	0.80	47.4	169.5	14.3	53.4	10.1	2.2	7.1	1.1	6.0	1.1	3.3	0.5	3.3	0.6	32.9	353	Clay		
RRMDD742	25.80	26.53	0.73	56.8	253.1	16.6	63.1	12.7	2.5	8.5	1.3	6.4	1.3	3.7	0.5	3.4	0.5	37.7	468	Clay		
RRMDD742	26.53	27.11	0.58	38.7	49.1	11.1	39.7	6.8	1.5	4.9	0.7	3.6	0.7	2.3	0.3	2.3	0.4	19.8	182	Clay		
RRMDD742	27.11	27.69	0.58	41.0	57.2	11.6	40.4	7.2	1.5	5.3	0.7	4.0	0.7	2.2	0.3	2.3	0.3	22.1	197	Clay		
RRMDD742	27.69	28.69	1.00	40.8	72.0	11.8	44.3	8.0	1.7	5.6	0.8	4.6	0.8	2.6	0.4	2.5	0.4	22.9	219	Upper Saprolite		
RRMDD742	28.69	29.68	0.99	53.9	60.2	15.7	57.6	10.2	1.9	6.4	0.9	5.0	0.8	2.4	0.4	2.3	0.4	23.1	241	Upper Saprolite		
RRMDD742	29.68	30.68	1.00	45.7	63.6	12.7	46.1	8.7	1.8	5.5	0.8	4.7	0.9	2.4	0.3	2.4	0.4	22.1	218	Upper Saprolite		
RRMDD742	30.68	31.67	0.99	42.1	60.3	11.6	42.6	7.6	1.6	5.8	0.8	4.4	0.7	2.4	0.4	2.2	0.4	23.6	207	Upper Saprolite		
RRMDD742	31.67	32.14	0.47	39.3	50.2	10.4	40.0	7.2	1.6	5.5	0.7	4.3	0.7	2.4	0.3	2.2	0.3	22.0	187	Lower Saprolite		
RRMDD742	32.14	33.32	1.18	62.3	55.9	15.3	60.2	10.2	2.5	10.1	1.4	8.0	1.5	4.2	0.6	3.6	0.5	45.7	282	Saprock		
RRMDD742	33.32	34.50	1.18	64.3	66.7	13.3	55.5	9.7	2.4	12.4	1.7	10.2	2.0	5.5	0.9	4.5	0.7	72.5	322	Saprock		
RRMDD743	0.00	1.32	1.32	166.0	431.2	29.0	87.5	13.6	2.3	8.8	1.3	7.1	1.4	3.5	0.6	3.5	0.5	35.8	792	Hardcap		
RRMDD743	1.32	2.63	1.31	163.0	605.6	28.8	87.8	13.1	2.0	8.4	1.3	6.9	1.4	3.7	0.6	3.7	0.5	33.9	961	Hardcap		
RRMDD743	2.63	3.26	0.63	150.7	227.9	29.4	97.0	13.8	2.2	11.1	1.5	9.4	1.8	5.4	0.9	5.4	0.8	57.7	615	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
RRMDD743	3.26	3.89	0.63	43.4	52.7	9.4	33.2	5.5	0.9	5.3	0.9	6.5	1.4	4.4	0.7	4.5	0.8	46.6	216	Mottled		
RRMDD743	3.89	4.20	0.31	30.5	70.6	6.5	23.3	4.0	0.7	3.4	0.5	3.9	0.8	2.5	0.4	2.7	0.4	22.5	173	Clay		
RRMDD743	4.20	4.87	0.67	59.3	123.5	14.4	50.9	9.6	1.9	9.3	1.4	9.7	2.1	6.3	1.0	6.5	1.0	77.5	374	Clay		
RRMDD743	4.87	5.54	0.67	88.1	154.2	21.5	78.6	12.6	2.3	11.4	1.7	10.9	2.3	7.2	1.0	6.8	1.1	79.2	479	Clay		
RRMDD743	5.54	6.63	1.09	103.9	195.3	27.3	102.2	16.4	2.9	14.1	2.2	12.3	2.5	7.1	1.1	6.3	1.1	82.4	577	Clay		
RRMDD743	6.63	7.46	0.83	75.6	191.6	22.1	84.7	14.6	2.6	12.4	1.7	11.4	2.3	6.6	0.9	6.1	0.9	75.1	509	Upper Saprolite		
RRMDD743	7.46	8.28	0.82	91.5	200.2	25.0	94.6	16.1	2.9	13.0	1.9	11.4	2.2	6.5	0.9	6.4	0.9	74.2	548	Upper Saprolite		
RRMDD743	8.28	8.99	0.71	63.4	148.6	16.7	64.9	11.9	2.1	10.6	1.7	11.7	2.4	7.1	1.1	6.7	1.0	73.7	424	Upper Saprolite		
RRMDD743	8.99	9.70	0.71	64.3	113.7	19.4	82.5	19.5	3.8	19.1	3.4	20.5	4.5	12.9	1.8	12.2	1.6	139.1	518	Upper Saprolite		
RRMDD743	9.70	10.57	0.87	130.2	238.9	38.2	159.2	34.2	7.6	43.0	7.2	48.4	10.8	33.7	4.6	27.6	4.1	377.2	1165	Lower Saprolite		
RRMDD743	10.57	11.44	0.87	85.7	160.9	21.1	81.4	12.6	2.6	16.8	2.6	18.2	4.3	13.8	1.9	10.6	1.8	229.9	664	Lower Saprolite		
RRMDD743	11.44	12.30	0.86	96.6	189.2	22.7	91.9	20.4	3.9	18.2	2.9	16.4	3.2	8.4	1.1	6.5	0.9	123.6	606	Lower Saprolite	**9.67**	**562**
RRMDD743	12.30	12.80	0.50	45.9	92.4	10.4	35.5	6.4	1.1	4.4	0.7	3.4	0.6	2.0	0.3	2.3	0.3	25.1	231	Lower Saprolite		
RRMDD743	12.80	13.30	0.50	8.0	19.9	1.8	6.8	1.2	0.3	1.0	0.2	1.2	0.3	1.0	0.1	1.1	0.1	8.9	52	Lower Saprolite		
RRMDD743	13.30	14.08	0.78	21.1	45.7	5.4	21.2	4.1	0.7	3.4	0.6	3.9	0.8	2.4	0.3	2.5	0.4	22.4	135	Lower Saprolite		
RRMDD743	14.08	15.54	1.46	103.0	220.5	25.7	93.4	17.2	3.6	14.8	2.2	12.3	2.3	6.5	0.9	5.0	0.8	70.4	579	Saprock		
RRMDD743	15.54	17.00	1.46	53.6	116.3	13.3	52.3	9.7	1.9	8.0	1.3	6.9	1.4	4.3	0.5	3.8	0.5	47.9	322	Saprock		
RRMDD744	0.00	1.58	1.58	93.1	122.2	17.6	58.8	10.2	1.8	7.7	1.2	7.1	1.6	4.0	0.7	4.1	0.6	41.4	372	Hardcap		
RRMDD744	1.58	3.16	1.58	73.1	533.1	12.6	42.0	7.2	1.2	5.1	0.9	4.7	1.0	2.9	0.4	2.9	0.4	24.9	712	Hardcap		
RRMDD744	3.16	4.75	1.59	127.8	568.7	24.0	76.0	11.7	2.0	7.9	1.3	7.6	1.5	4.4	0.7	4.0	0.6	38.7	877	Hardcap		
RRMDD744	4.75	5.84	1.09	161.8	255.5	36.9	125.4	21.0	3.5	14.2	2.3	11.6	2.1	5.6	0.8	5.2	0.7	54.6	701	Transition		
RRMDD744	5.84	6.47	0.63	90.2	159.1	20.3	73.2	12.3	2.4	11.2	1.8	9.9	2.1	6.3	0.9	6.0	0.9	61.3	458	Mottled		
RRMDD744	6.47	7.10	0.63	73.8	120.0	16.4	54.9	10.3	1.9	8.8	1.4	8.4	1.7	5.4	0.8	5.6	0.8	56.3	367	Mottled		
RRMDD744	7.10	7.86	0.76	75.6	249.4	15.5	51.4	8.5	1.5	7.4	1.3	7.1	1.5	4.3	0.7	5.1	0.6	46.2	476	Mottled		
RRMDD744	7.86	8.61	0.75	67.7	90.9	13.3	43.6	7.1	1.3	5.8	1.0	5.5	1.2	3.7	0.6	4.3	0.5	37.0	283	Mottled		
RRMDD744	8.61	9.45	0.84	66.0	93.8	13.0	43.3	7.0	1.2	5.7	1.0	5.6	1.1	3.5	0.6	4.1	0.5	33.4	280	Clay		
RRMDD744	9.45	9.97	0.52	147.8	229.7	28.9	87.7	13.5	2.2	8.5	1.3	7.0	1.4	4.0	0.6	4.0	0.5	38.7	576	Clay		
RRMDD744	9.97	10.62	0.65	124.3	187.3	27.8	89.3	14.5	2.9	10.9	1.7	9.0	1.8	5.2	0.8	5.1	0.7	46.9	528	Upper Saprolite		
RRMDD744	10.62	11.28	0.66	149.5	206.4	39.9	145.2	26.3	4.8	21.8	3.1	16.2	2.9	8.1	1.1	7.0	0.9	89.4	723	Upper Saprolite		
RRMDD744	11.28	11.93	0.65	118.5	164.0	27.9	109.4	21.1	4.1	20.1	2.6	15.3	2.9	7.4	1.1	6.2	1.0	84.3	586	Upper Saprolite		
RRMDD744	11.93	12.54	0.61	314.3	528.2	98.2	386.1	74.9	15.2	69.0	10.7	54.2	9.3	21.7	2.6	13.3	1.5	235.6	1835	Lower Saprolite		
RRMDD744	12.54	13.14	0.60	147.8	227.3	38.8	163.9	35.1	7.0	37.7	7.0	54.4	14.3	51.0	8.7	57.2	8.9	570.2	1429	Lower Saprolite		
RRMDD744	13.14	13.98	0.84	39.2	74.8	7.2	23.4	4.2	1.0	4.7	0.8	6.1	1.7	6.0	0.9	6.4	0.8	57.3	234	Lower Saprolite		
RRMDD744	13.98	14.82	0.84	51.7	115.5	12.5	44.3	8.9	2.0	9.0	1.7	11.9	2.7	9.1	1.3	9.2	1.4	89.8	371	Lower Saprolite		
RRMDD744	14.82	15.66	0.84	56.2	129.6	14.9	61.2	14.0	3.5	18.8	3.4	24.8	6.4	23.3	3.3	22.4	3.3	257.8	643	Lower Saprolite		
RRMDD744	15.66	16.50	0.84	62.7	133.9	14.7	56.6	11.1	2.1	9.8	1.6	9.7	2.1	6.9	1.0	6.6	1.0	70.6	391	Lower Saprolite	**10.66**	**580**
RRMDD744	16.50	18.00	1.50	58.5	130.8	14.1	50.6	8.7	1.8	7.8	1.2	8.0	1.7	5.7	0.8	5.5	0.9	69.3	366	Saprock		
RRMDD745	0.00	1.33	1.33	141.9	288.7	22.5	68.4	11.3	1.9	7.7	1.2	6.8	1.3	3.8	0.6	3.8	0.7	39.6	600	Hardcap		
RRMDD745	1.33	2.66	1.33	202.9	593.3	33.2	99.3	13.5	2.6	8.6	1.3	7.1	1.3	3.7	0.6	4.1	0.7	35.7	1008	Hardcap		
RRMDD745	2.66	3.98	1.32	219.9	441.0	32.3	89.1	13.3	2.2	8.6	1.3	7.2	1.6	4.4	0.6	4.1	0.7	41.1	867	Hardcap		
RRMDD745	3.98	4.23	0.25	139.0	313.2	24.6	72.1	9.5	1.7	7.1	1.1	6.8	1.3	3.9	0.6	4.2	0.6	42.0	628	Transition		
RRMDD745	4.23	5.22	0.99	56.2	106.7	11.4	39.2	6.2	1.2	5.5	0.9	5.8	1.2	3.6	0.5	3.8	0.6	40.3	283	Clay		
RRMDD745	5.22	6.21	0.99	45.3	105.4	9.8	35.0	5.7	1.1	5.4	0.8	5.5	1.1	3.6	0.5	3.6	0.5	40.1	263	Clay		
RRMDD745	6.21	7.20	0.99	40.5	111.5	9.3	33.2	5.6	1.1	5.0	0.8	5.2	1.1	3.3	0.5	3.5	0.6	40.0	261	Clay		
RRMDD745	7.20	8.19	0.99	30.7	288.7	7.3	26.9	5.1	1.0	4.4	0.8	4.7	1.1	3.6	0.5	3.2	0.5	36.7	415	Clay		
RRMDD745	8.19	9.07	0.88	26.2	141.9	6.4	24.4	4.4	0.8	4.2	0.7	4.5	1.0	3.0	0.4	3.1	0.5	34.5	256	Clay		
RRMDD745	9.07	9.95	0.88	21.8	46.3	5.5	20.3	3.7	0.8	3.4	0.6	4.1	0.9	2.8	0.4	2.8	0.5	30.6	145	Clay		
RRMDD745	9.95	10.83	0.88	19.8	120.9	5.2	20.3	3.7	0.8	3.6	0.6	4.0	0.8	2.7	0.4	2.7	0.5	30.5	216	Clay		
RRMDD745	10.83	11.90	1.07	21.0	51.6	4.8	18.0	3.2	0.8	3.2	0.6	3.8	0.8	2.8	0.4	2.8	0.4	26.8	141	Clay		
RRMDD745	11.90	12.78	0.88	15.7	39.1	4.3	16.3	3.0	0.6	2.8	0.5	3.0	0.7	2.0	0.3	2.3	0.4	23.5	114	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
RRMDD745	12.78	13.62	0.84	15.5	41.9	4.3	16.4	3.0	0.7	2.9	0.5	3.2	0.6	2.1	0.3	2.1	0.3	24.4	118	Clay		
RRMDD745	13.62	14.46	0.84	16.4	64.0	4.8	18.4	3.3	0.8	3.2	0.6	3.7	0.7	2.3	0.4	2.3	0.4	26.4	148	Clay		
RRMDD745	14.46	15.30	0.84	18.6	24.6	5.3	19.8	3.8	0.8	3.7	0.6	3.8	0.8	2.4	0.4	2.5	0.4	27.2	115	Clay		
RRMDD745	15.30	16.14	0.84	17.9	82.7	5.4	20.4	4.0	0.9	3.6	0.6	3.8	0.8	2.4	0.3	2.3	0.4	27.2	173	Clay		
RRMDD745	16.14	16.98	0.84	18.8	21.5	5.3	19.6	3.9	0.9	3.7	0.6	3.7	0.7	2.4	0.4	2.4	0.4	27.8	112	Clay		
RRMDD745	16.98	17.84	0.86	11.7	13.3	3.0	11.5	2.1	0.5	2.4	0.4	2.3	0.5	1.7	0.3	1.6	0.3	19.3	71	Clay		
RRMDD745	17.84	18.71	0.87	10.7	21.4	3.1	11.7	2.4	0.5	2.3	0.4	2.7	0.6	1.9	0.3	2.1	0.4	20.6	81	Clay		
RRMDD745	18.71	19.58	0.87	150.7	53.2	20.6	66.3	10.3	2.5	9.9	1.4	7.7	1.3	3.9	0.5	3.2	0.6	42.4	375	Clay		
RRMDD745	19.58	20.20	0.62	34.9	40.3	8.7	30.2	5.5	1.3	4.4	0.6	3.6	0.7	2.3	0.3	2.3	0.4	21.7	157	Clay		
RRMDD745	20.20	20.82	0.62	46.8	48.8	7.7	25.8	4.5	1.0	3.6	0.6	3.3	0.6	2.0	0.3	2.0	0.3	21.2	168	Clay		
RRMDD745	20.82	21.52	0.70	25.7	37.2	5.4	20.1	3.8	0.8	3.1	0.5	3.0	0.6	1.8	0.3	1.9	0.3	20.6	125	Upper Saprolite		
RRMDD745	21.52	22.22	0.70	49.4	69.9	12.7	47.0	8.0	1.8	5.5	0.9	4.6	0.8	2.4	0.3	2.3	0.4	29.2	235	Upper Saprolite		
RRMDD745	22.22	22.93	0.71	86.0	205.1	23.4	84.6	15.2	3.2	10.8	1.6	8.4	1.5	4.2	0.6	4.0	0.5	47.2	496	Upper Saprolite		
RRMDD745	22.93	23.86	0.93	74.6	82.7	21.3	77.9	13.2	2.9	9.5	1.4	7.2	1.3	3.7	0.5	3.2	0.5	41.7	341	Lower Saprolite		
RRMDD745	23.86	24.79	0.93	39.1	77.1	11.0	40.0	6.8	1.6	5.5	0.8	4.8	0.9	2.6	0.4	2.6	0.4	32.0	226	Lower Saprolite		
RRMDD745	24.79	25.72	0.93	35.1	68.3	10.1	40.2	8.6	2.2	10.8	1.8	12.9	3.0	9.7	1.4	8.1	1.4	151.1	365	Lower Saprolite	**3.50**	**348**
RRMDD745	25.72	26.65	0.93	41.5	50.5	13.9	53.4	10.2	2.1	7.3	1.1	6.2	1.1	3.2	0.4	2.8	0.4	38.5	233	Lower Saprolite		
RRMDD745	26.65	27.60	0.95	43.9	72.6	12.6	42.5	8.7	1.7	7.2	1.0	5.2	1.0	2.8	0.4	2.7	0.4	31.0	234	Lower Saprolite		
RRMDD745	27.60	29.00	1.40	38.4	53.1	8.9	35.6	6.3	1.6	5.7	0.8	4.7	0.9	2.8	0.4	2.6	0.4	28.2	190	Saprock		
RRMDD745	29.00	30.40	1.40	39.9	55.9	8.3	28.6	5.8	1.3	5.7	1.0	5.0	1.1	2.8	0.4	2.8	0.3	32.4	191	Saprock		
RRMDD746	0.00	1.07	1.07	59.1	157.2	14.3	51.1	9.4	1.9	8.3	1.3	7.7	1.6	4.8	0.7	4.3	0.9	48.3	371	Hardcap		
RRMDD746	1.07	2.13	1.06	49.1	191.6	9.1	28.7	4.6	0.9	4.1	0.7	4.6	0.9	2.4	0.4	3.0	0.5	24.9	326	Transition		
RRMDD746	2.13	3.04	0.91	67.6	159.1	14.6	47.4	9.4	1.5	7.6	1.2	7.2	1.5	4.2	0.7	4.6	0.7	47.7	375	Clay		
RRMDD746	3.04	3.95	0.91	59.6	102.8	12.6	44.2	9.2	1.6	7.9	1.2	7.3	1.5	4.4	0.7	4.6	0.7	49.1	307	Clay	**1.82**	**341**
RRMDD746	3.95	4.86	0.91	48.3	74.2	10.2	34.9	7.2	1.3	6.1	1.1	6.5	1.3	4.1	0.6	4.1	0.7	44.6	245	Clay		
RRMDD746	4.86	5.77	0.91	40.6	71.9	9.5	37.1	6.4	1.4	6.4	1.1	6.2	1.2	4.3	0.6	4.1	0.7	46.1	238	Clay		
RRMDD746	5.77	6.68	0.91	40.9	74.4	9.8	31.0	7.0	1.2	6.4	1.0	5.7	1.3	3.7	0.5	3.8	0.6	43.7	231	Clay		
RRMDD746	6.68	7.59	0.91	38.7	76.4	9.3	32.5	7.2	1.2	5.5	0.9	5.6	1.2	3.7	0.5	3.2	0.5	41.4	228	Clay		
RRMDD746	7.59	8.59	1.00	30.0	49.5	7.5	25.5	5.3	1.0	4.9	0.8	4.8	1.1	3.3	0.4	3.1	0.6	35.8	174	Clay		
RRMDD746	8.59	9.59	1.00	29.1	42.4	7.3	26.2	4.8	1.1	4.9	0.8	4.7	1.0	3.3	0.4	3.2	0.5	35.2	165	Clay		
RRMDD746	9.59	10.59	1.00	31.9	48.2	8.4	27.8	5.5	1.1	5.1	0.8	5.2	1.1	3.4	0.5	3.4	0.5	37.3	180	Clay		
RRMDD746	10.59	11.59	1.00	32.4	71.1	8.4	31.5	5.6	1.2	5.7	0.9	5.2	1.2	3.6	0.5	3.4	0.5	40.4	212	Clay		
RRMDD746	11.59	12.59	1.00	36.8	41.2	9.3	34.4	7.2	1.4	6.6	0.9	5.8	1.3	4.2	0.5	3.7	0.5	46.1	200	Clay		
RRMDD746	12.59	13.59	1.00	37.3	147.4	9.5	32.8	7.3	1.4	6.2	1.0	5.6	1.3	3.8	0.5	3.5	0.5	44.2	302	Clay		
RRMDD746	13.59	14.59	1.00	47.5	122.3	12.3	41.4	9.0	1.9	8.4	1.3	7.2	1.5	4.2	0.6	3.9	0.6	49.0	311	Clay		
RRMDD746	14.59	15.59	1.00	43.4	65.8	11.1	38.0	8.3	1.7	7.2	1.1	6.9	1.4	3.9	0.5	3.4	0.5	46.0	239	Clay		
RRMDD746	15.59	16.59	1.00	43.4	95.0	11.1	37.7	7.6	1.5	7.2	1.0	6.3	1.3	4.2	0.6	3.8	0.6	46.0	267	Clay		
RRMDD746	16.59	17.60	1.01	41.2	100.1	10.1	35.5	6.6	1.4	6.2	1.0	5.8	1.2	3.3	0.5	3.3	0.5	40.6	257	Clay		
RRMDD746	17.60	18.52	0.92	43.4	65.8	10.3	36.0	7.2	1.6	6.3	1.0	5.8	1.2	3.7	0.5	3.3	0.4	41.1	228	Upper Saprolite		
RRMDD746	18.52	19.44	0.92	48.3	71.7	11.6	40.5	8.0	1.7	7.5	1.1	6.7	1.4	3.9	0.5	3.5	0.5	45.8	253	Upper Saprolite		
RRMDD746	19.44	20.36	0.92	92.4	86.4	26.1	87.1	18.7	3.5	13.7	2.1	10.4	1.9	5.9	0.7	4.9	0.7	67.8	422	Upper Saprolite		
RRMDD746	20.36	21.29	0.93	107.4	69.4	30.4	105.4	21.7	4.8	17.2	2.5	13.6	2.7	7.4	1.0	6.1	0.9	86.7	477	Upper Saprolite		
RRMDD746	21.29	22.13	0.84	76.9	55.3	20.4	71.6	14.7	3.0	11.5	1.7	9.3	2.0	5.2	0.7	4.5	0.8	61.0	339	Lower Saprolite	**2.69**	**415**
RRMDD746	22.13	22.97	0.84	97.5	73.5	27.3	92.1	19.3	3.9	14.9	2.1	10.5	2.1	6.1	0.8	4.8	0.7	77.3	433	Saprock		
RRMDD746	22.97	23.81	0.84	59.3	122.8	15.6	51.8	10.2	2.1	7.9	1.3	6.0	1.2	3.2	0.5	3.2	0.5	41.1	327	Saprock		
RRMDD746	23.81	24.65	0.84	36.0	265.3	9.0	30.1	6.8	1.3	5.6	0.8	4.5	0.9	2.7	0.3	2.7	0.4	29.5	396	Saprock		
RRMDD746	24.65	25.50	0.85	31.9	45.7	7.8	25.5	5.8	1.2	4.7	0.7	4.3	0.9	2.8	0.4	2.6	0.4	31.4	166	Saprock		
RRMDD746	25.50	27.00	1.50	35.2	47.4	9.1	30.1	6.2	1.3	4.9	0.7	3.5	0.8	2.1	0.3	2.1	0.3	24.0	168	Saprock		
RRMDD747	0.00	1.27	1.27	162.4	280.1	32.5	109.6	16.8	2.9	10.8	1.5	8.5	1.7	4.4	0.7	4.8	0.8	47.2	685	Hardcap		
RRMDD747	1.27	2.65	1.38	46.6	133.9	9.5	32.8	5.8	1.1	4.7	0.8	5.2	1.1	3.3	0.5	3.3	0.6	33.1	282	Transition		

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)	TREO ppm
RRMDD747	2.65	3.30	0.65	55.4	101.6	11.0	35.2	6.3	1.0	5.1	0.9	5.0	1.1	3.2	0.5	3.4	0.6	34.5	265	Clay		
RRMDD747	3.30	3.94	0.64	66.6	191.6	12.6	39.0	7.3	1.4	6.3	1.0	6.0	1.3	4.0	0.6	4.2	0.6	42.7	385	Clay		
RRMDD747	3.94	4.51	0.57	48.2	170.7	10.6	38.8	6.8	1.1	5.9	0.9	5.8	1.3	4.1	0.6	3.8	0.6	39.2	339	Clay		
RRMDD747	4.51	5.07	0.56	44.8	82.9	9.5	34.5	6.1	1.1	5.7	0.8	5.7	1.2	3.5	0.6	4.1	0.6	36.8	238	Clay		
RRMDD747	5.07	5.97	0.90	20.3	44.8	4.4	15.9	3.5	0.6	2.8	0.5	3.3	0.7	2.3	0.4	2.7	0.4	22.4	125	Clay		
RRMDD747	5.97	6.87	0.90	19.7	48.3	4.7	15.9	3.5	0.6	2.8	0.5	3.3	0.8	2.3	0.4	2.8	0.4	23.0	129	Clay		
RRMDD747	6.87	7.78	0.91	21.1	54.2	4.9	17.6	3.9	0.6	3.1	0.5	3.5	0.8	2.5	0.4	2.6	0.5	23.7	140	Clay		
RRMDD747	7.78	8.72	0.94	22.8	42.5	5.1	20.4	3.4	0.7	3.7	0.6	4.1	0.8	2.9	0.4	3.0	0.5	27.3	138	Clay		
RRMDD747	8.72	9.66	0.94	20.8	65.1	5.0	18.3	4.0	0.7	3.2	0.6	3.8	0.8	2.5	0.4	2.9	0.4	26.0	154	Clay		
RRMDD747	9.66	10.25	0.59	19.5	67.7	4.6	17.0	3.7	0.6	3.0	0.5	3.3	0.8	2.6	0.3	2.9	0.4	23.4	150	Clay		
RRMDD747	10.25	10.89	0.64	20.6	53.3	5.1	19.1	3.7	0.8	3.6	0.6	4.0	0.9	2.5	0.4	3.1	0.4	26.4	145	Clay		
RRMDD747	10.89	11.52	0.63	18.1	495.0	4.6	17.5	3.3	0.8	3.3	0.6	4.0	0.8	2.7	0.4	2.7	0.4	24.3	578	Clay		
RRMDD747	11.52	12.43	0.91	14.3	116.9	3.9	14.2	2.9	0.7	2.6	0.5	3.0	0.7	2.2	0.4	2.5	0.4	21.0	186	Clay		
RRMDD747	12.43	13.34	0.91	14.2	29.5	3.8	13.3	2.8	0.5	2.4	0.4	2.9	0.6	2.1	0.3	2.4	0.3	19.8	95	Clay		
RRMDD747	13.34	14.25	0.91	19.2	41.8	4.5	16.3	3.4	0.6	2.9	0.4	3.1	0.6	2.1	0.3	2.4	0.4	21.1	119	Clay		
RRMDD747	14.25	15.16	0.91	18.6	121.4	4.8	17.3	3.8	0.8	3.3	0.6	3.4	0.8	2.3	0.3	2.9	0.4	25.0	206	Clay		
RRMDD747	15.16	16.07	0.91	12.4	17.7	3.4	12.8	2.3	0.7	2.7	0.4	2.9	0.6	1.9	0.4	2.3	0.4	20.3	81	Clay		
RRMDD747	16.07	16.96	0.89	11.1	12.0	3.1	12.1	2.7	0.6	2.8	0.4	3.3	0.7	2.2	0.3	2.5	0.4	21.3	76	Clay		
RRMDD747	16.96	17.92	0.96	14.7	117.4	4.1	15.6	3.5	0.7	2.8	0.5	3.1	0.7	2.2	0.3	2.4	0.5	21.0	189	Clay		
RRMDD747	17.92	18.88	0.96	15.5	52.1	4.4	16.4	3.7	0.8	3.1	0.5	3.3	0.7	2.5	0.3	2.4	0.4	20.6	127	Clay		
RRMDD747	18.88	19.84	0.96	43.7	54.2	13.9	52.4	10.4	1.9	6.4	0.9	4.8	1.0	2.7	0.4	3.1	0.4	27.3	224	Clay		
RRMDD747	19.84	20.80	0.96	96.4	199.0	30.2	111.4	22.6	5.3	21.7	3.5	23.1	5.2	17.2	2.1	13.5	1.8	264.1	817	Clay		
RRMDD747	20.80	21.76	0.96	69.0	67.8	21.6	79.2	15.7	3.3	11.2	1.6	10.3	2.2	6.7	0.9	5.9	0.9	90.5	387	Clay		
RRMDD747	21.76	22.72	0.96	69.3	107.7	23.6	84.3	15.9	3.1	10.1	1.3	7.7	1.4	3.6	0.6	3.5	0.5	37.0	369	Clay		
RRMDD747	22.72	23.68	0.96	68.1	149.9	22.5	81.3	15.0	3.2	10.0	1.4	6.5	1.2	3.6	0.5	3.4	0.5	36.1	403	Clay		
RRMDD747	23.68	24.64	0.96	54.4	56.5	18.2	66.3	11.7	2.4	7.6	0.9	5.5	1.0	2.7	0.4	3.0	0.4	25.5	256	Clay		
RRMDD747	24.64	25.60	0.96	48.7	54.8	15.8	60.5	11.1	2.2	6.6	1.0	5.6	0.9	2.7	0.4	2.6	0.4	25.9	239	Clay		
RRMDD747	25.60	26.56	0.96	55.9	157.8	17.6	65.6	13.0	2.5	9.9	1.6	10.0	2.2	6.3	0.9	6.1	0.9	84.2	435	Clay	**6.72**	**415**
RRMDD747	26.56	27.52	0.96	27.7	63.9	8.4	32.2	6.2	1.4	4.1	0.6	3.6	0.8	2.1	0.3	2.4	0.4	19.2	173	Clay		
RRMDD747	27.52	28.48	0.96	24.7	45.2	6.5	25.7	5.3	1.1	3.5	0.5	3.3	0.7	2.0	0.3	2.6	0.4	18.0	140	Clay		
RRMDD747	28.48	29.44	0.96	14.2	42.6	4.2	16.4	3.9	0.9	2.9	0.4	2.9	0.7	1.9	0.3	1.9	0.3	16.6	110	Clay		
RRMDD747	29.44	30.40	0.96	12.4	80.5	3.3	12.8	3.0	0.7	2.0	0.4	2.4	0.5	1.7	0.3	1.9	0.4	14.6	137	Clay		
RRMDD747	30.40	31.36	0.96	17.6	89.9	5.0	17.6	3.8	0.9	3.0	0.4	2.7	0.6	1.9	0.3	2.1	0.3	17.8	164	Clay		
RRMDD747	31.36	32.32	0.96	16.0	63.8	4.3	14.7	3.5	0.8	3.1	0.5	2.8	0.7	2.0	0.4	2.1	0.4	18.5	133	Clay		
RRMDD747	32.32	33.28	0.96	15.4	58.7	4.2	15.9	3.3	0.8	2.7	0.5	3.0	0.6	2.0	0.3	2.3	0.3	16.8	127	Clay		
RRMDD747	33.28	34.24	0.96	18.8	39.7	5.0	18.0	3.8	0.8	2.9	0.4	3.0	0.6	2.0	0.3	2.2	0.3	19.6	117	Clay		
RRMDD747	34.24	35.20	0.96	22.0	77.9	5.9	20.8	4.2	0.9	3.4	0.5	3.1	0.7	1.9	0.3	2.1	0.4	19.3	163	Clay		
RRMDD747	35.20	36.07	0.87	34.1	50.2	9.2	33.6	6.4	1.4	4.8	0.6	3.8	0.7	2.0	0.3	2.2	0.3	21.3	171	Clay		
RRMDD747	36.07	36.91	0.84	45.4	68.3	13.0	46.1	8.5	1.7	6.3	0.8	4.9	1.0	2.5	0.4	2.7	0.4	25.1	227	Upper Saprolite		
RRMDD747	36.91	37.75	0.84	47.0	64.6	13.4	48.4	9.8	2.1	6.9	0.9	4.8	1.0	2.5	0.4	2.4	0.4	24.8	229	Upper Saprolite		
RRMDD747	37.75	38.58	0.83	35.3	79.1	10.1	35.5	6.9	1.6	4.9	0.7	3.9	0.8	2.1	0.3	2.2	0.4	20.6	204	Upper Saprolite		
RRMDD747	38.58	39.13	0.55	36.6	72.1	10.3	35.6	6.3	1.6	5.2	0.6	4.0	0.8	2.4	0.3	2.5	0.4	22.1	201	Lower Saprolite		
RRMDD747	39.13	40.77	1.64	40.1	66.2	11.5	41.5	7.9	1.6	5.8	0.8	4.3	0.8	2.3	0.3	2.2	0.3	22.1	208	Saprock		
RRMDD747	40.77	42.40	1.63	25.8	88.2	6.4	23.4	4.4	1.0	3.5	0.5	3.1	0.6	1.7	0.3	1.9	0.3	17.9	179	Saprock		
RRMDD748	0.00	1.29	1.29	159.5	316.9	35.5	120.1	17.3	3.0	13.0	2.0	9.9	1.8	4.7	0.6	3.7	0.6	42.4	731	Hardcap		
RRMDD748	1.29	2.57	1.28	72.4	480.3	15.6	55.4	10.6	1.5	7.2	1.0	6.3	1.3	3.7	0.5	4.0	0.6	32.6	693	Hardcap		
RRMDD748	2.57	3.00	0.43	77.3	143.1	15.3	46.9	8.1	1.5	6.9	1.1	7.0	1.5	4.7	0.7	4.7	0.7	46.1	366	Transition		
RRMDD748	3.00	3.77	0.77	56.3	157.2	10.5	36.0	5.9	1.1	5.8	0.9	5.8	1.4	4.2	0.6	4.3	0.7	48.3	339	Mottled		
RRMDD748	3.77	4.54	0.77	23.7	67.6	5.6	19.2	3.4	0.7	4.0	0.6	5.2	1.1	3.5	0.6	3.6	0.6	42.4	182	Mottled		
RRMDD748	4.54	5.42	0.88	56.1	181.8	11.3	41.1	7.1	1.4	8.0	1.4	8.9	2.2	6.9	0.9	6.3	0.9	78.2	412	Mottled		

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
RRMDD748	5.42	6.30	0.88	81.5	198.4	17.9	62.2	11.6	2.1	12.3	1.9	13.1	3.1	9.5	1.4	8.2	1.3	122.8	547	Mottled		
RRMDD748	6.30	7.10	0.80	131.4	153.6	29.8	104.0	18.0	3.3	18.2	3.0	17.5	4.1	12.6	1.6	11.0	1.5	161.3	671	Upper Saprolite		
RRMDD748	7.10	7.90	0.80	218.7	211.3	46.2	161.0	24.9	4.9	23.6	3.8	21.7	5.0	14.7	1.8	12.1	1.7	183.5	935	Upper Saprolite		
RRMDD748	7.90	8.58	0.68	136.6	153.6	32.9	119.6	20.4	4.2	23.5	3.9	23.8	5.6	17.0	2.3	14.6	2.1	233.7	794	Upper Saprolite		
RRMDD748	8.58	9.46	0.88	148.9	192.9	38.2	146.4	26.0	4.9	26.2	4.3	25.0	5.7	16.9	2.2	13.5	1.9	227.3	880	Lower Saprolite	**4.92**	**700**
RRMDD748	9.46	11.00	1.54	186.5	245.1	55.8	225.1	44.1	9.3	50.5	8.6	51.8	11.6	35.2	4.5	28.5	3.8	455.9	1416	Saprock		
RRMDD748	11.00	11.90	0.90	85.3	175.7	28.8	121.9	25.9	5.4	29.0	4.7	29.2	6.8	20.3	2.7	18.7	2.6	243.2	800	Saprock		
RRMDD749	0.00	1.70	1.70	203.5	477.8	40.6	123.6	19.8	3.0	12.5	2.0	10.9	1.9	5.1	0.6	4.3	0.6	51.0	957	Hardcap		
RRMDD749	1.70	3.40	1.70	151.9	417.7	29.0	94.2	14.3	2.4	10.6	1.6	8.9	1.6	4.0	0.6	4.2	0.6	41.9	784	Hardcap		
RRMDD749	3.40	4.40	1.00	144.8	305.9	45.2	167.4	32.6	5.1	24.7	3.4	18.9	3.6	8.8	1.2	7.7	1.1	104.8	875	Clay		
RRMDD749	4.40	5.43	1.03	128.4	266.6	33.5	122.5	24.7	4.7	24.2	3.6	21.9	4.8	12.4	1.8	10.6	1.5	148.6	810	Clay		
RRMDD749	5.43	6.46	1.03	114.6	245.1	28.5	100.9	20.5	3.7	20.6	3.3	20.6	4.4	12.3	1.7	10.5	1.5	145.4	734	Clay		
RRMDD749	6.46	7.49	1.03	112.8	236.5	28.3	105.1	20.8	4.0	21.0	3.6	22.0	4.6	13.7	1.7	11.2	1.6	153.0	740	Clay		
RRMDD749	7.49	8.27	0.78	111.8	229.7	26.7	98.8	18.8	3.6	24.3	4.3	24.9	5.6	17.2	2.3	14.9	1.9	210.2	795	Clay		
RRMDD749	8.27	9.05	0.78	112.4	235.9	27.9	99.5	18.4	3.6	22.8	3.8	23.8	5.3	16.0	2.1	13.8	1.9	181.6	769	Clay		
RRMDD749	9.05	9.83	0.78	122.0	242.6	26.1	85.3	13.4	2.6	17.2	2.9	17.1	3.8	11.1	1.5	9.8	1.3	124.5	681	Clay		
RRMDD749	9.83	10.62	0.79	122.6	256.7	28.6	98.6	18.0	3.6	20.9	3.6	19.9	4.6	14.0	1.7	11.8	1.6	163.2	769	Clay		
RRMDD749	10.62	11.72	1.10	84.6	165.8	19.8	73.6	15.7	3.3	22.4	4.0	24.2	5.6	16.9	2.3	15.7	2.1	216.5	673	Upper Saprolite		
RRMDD749	11.72	12.48	0.76	143.7	287.4	30.7	103.7	19.4	4.0	25.2	4.2	23.3	5.6	16.4	2.3	14.9	2.1	207.0	890	Upper Saprolite		
RRMDD749	12.48	13.24	0.76	24.0	59.8	6.0	25.4	6.8	1.8	11.8	2.1	13.5	3.2	9.7	1.5	9.2	1.3	111.9	288	Upper Saprolite		
RRMDD749	13.24	14.00	0.76	15.0	50.0	3.8	14.7	3.7	0.6	5.4	0.9	6.4	1.4	4.6	0.7	4.9	0.7	56.8	170	Upper Saprolite		
RRMDD749	14.00	14.65	0.65	46.3	89.9	11.5	44.3	10.3	2.3	15.3	2.8	15.7	3.9	11.0	1.6	9.6	1.4	131.4	397	Lower Saprolite		
RRMDD749	14.65	15.30	0.65	105.3	197.2	21.6	78.4	15.2	3.0	14.2	2.2	11.1	2.3	6.2	0.9	5.4	0.8	75.8	540	Lower Saprolite		
RRMDD749	15.30	16.08	0.78	61.7	145.6	17.6	62.1	14.4	3.3	18.1	3.0	20.1	4.1	12.6	1.6	11.3	1.6	146.0	523	Lower Saprolite		
RRMDD749	16.08	16.86	0.78	63.7	137.6	16.0	57.6	11.3	2.3	12.0	2.0	11.2	2.6	7.8	1.1	6.8	1.1	96.3	429	Lower Saprolite		
RRMDD749	16.86	17.64	0.78	33.7	75.5	9.1	34.2	7.9	1.8	10.3	1.8	10.5	2.5	7.5	1.1	6.7	1.1	92.7	296	Lower Saprolite		
RRMDD749	17.64	18.40	0.76	45.0	107.6	12.8	49.5	10.9	2.2	13.1	2.2	12.3	2.9	8.5	1.2	7.3	1.1	112.3	389	Lower Saprolite	**15.00**	**615**
RRMDD749	18.40	19.90	1.50	113.1	249.4	29.6	121.3	24.2	4.7	24.8	3.8	19.5	4.2	12.1	1.6	8.9	1.3	194.9	813	Saprock		
RRMDD750	0.00	1.38	1.38	105.3	262.9	18.3	59.5	9.7	1.8	7.6	1.2	7.6	1.5	4.5	0.6	4.3	0.8	40.4	526	Hardcap		
RRMDD750	1.38	2.45	1.07	105.7	359.9	19.4	61.8	9.3	2.0	7.7	1.2	7.5	1.5	4.2	0.7	4.6	0.8	42.7	629	Transition		
RRMDD750	2.45	3.27	0.82	60.0	287.4	12.7	45.6	8.0	1.5	6.8	1.2	7.0	1.5	4.5	0.7	4.6	0.7	45.5	488	Clay		
RRMDD750	3.27	4.08	0.81	69.4	119.8	13.9	49.9	8.0	1.6	7.6	1.3	7.3	1.6	4.8	0.8	5.2	0.7	52.6	345	Clay		
RRMDD750	4.08	5.04	0.96	63.9	105.9	12.6	48.5	8.0	1.4	7.3	1.1	7.4	1.5	4.3	0.6	5.0	0.7	50.3	319	Clay	**2.59**	**380**
RRMDD750	5.04	6.00	0.96	51.6	80.8	11.4	41.5	6.5	1.4	6.6	1.1	6.5	1.5	4.6	0.7	4.4	0.7	47.0	266	Clay		
RRMDD750	6.00	6.96	0.96	38.9	46.1	8.8	32.1	5.6	1.1	5.5	0.9	5.4	1.2	3.5	0.6	3.6	0.6	38.7	193	Clay		
RRMDD750	6.96	7.91	0.95	45.0	55.2	11.2	42.5	7.4	1.5	7.2	1.3	7.2	1.6	4.7	0.7	4.5	0.7	54.7	245	Clay		
RRMDD750	7.91	8.69	0.78	71.8	72.0	17.9	70.0	12.9	2.5	11.7	1.8	11.3	2.2	7.1	1.0	6.9	0.9	81.4	371	Clay		
RRMDD750	8.69	9.47	0.78	91.4	82.5	22.7	87.1	15.8	3.2	15.2	2.4	13.5	3.0	8.7	1.3	7.4	1.2	104.1	460	Clay		
RRMDD750	9.47	10.25	0.78	120.8	117.8	30.9	119.0	21.5	4.4	20.0	3.0	17.3	3.8	10.4	1.4	8.9	1.5	128.9	610	Clay		
RRMDD750	10.25	11.04	0.79	125.5	125.3	33.0	126.0	22.4	4.6	20.5	3.2	17.6	3.7	10.7	1.5	9.0	1.3	128.9	633	Clay		
RRMDD750	11.04	11.91	0.87	116.6	132.7	31.7	121.3	22.3	4.4	19.7	3.2	17.1	3.6	11.1	1.6	9.7	1.5	130.8	627	Clay		
RRMDD750	11.91	12.78	0.87	82.7	102.3	23.4	87.7	15.7	3.3	13.6	2.2	12.3	2.6	8.0	1.2	7.0	1.0	87.8	451	Clay		
RRMDD750	12.78	13.65	0.87	56.3	88.2	16.1	59.8	10.7	2.1	7.6	1.2	6.1	1.2	3.4	0.5	3.4	0.5	35.6	293	Clay		
RRMDD750	13.65	14.52	0.87	35.5	81.3	9.5	35.9	6.0	1.3	4.4	0.7	3.5	0.7	2.2	0.3	2.4	0.3	22.2	206	Clay		
RRMDD750	14.52	15.39	0.87	59.1	70.0	10.5	36.4	6.7	1.6	8.0	1.5	10.4	2.4	8.0	1.2	7.5	1.2	102.5	327	Clay	**7.48**	**439**
RRMDD750	15.39	16.23	0.84	36.2	106.6	8.8	31.4	5.3	1.1	4.2	0.7	3.7	0.9	2.4	0.4	2.7	0.4	24.9	230	Clay		
RRMDD750	16.23	17.07	0.84	33.7	91.1	8.9	33.5	5.7	1.2	4.4	0.7	3.7	0.8	2.2	0.3	2.1	0.3	22.2	211	Upper Saprolite		
RRMDD750	17.07	17.91	0.84	30.1	68.4	7.3	27.1	4.5	0.9	3.5	0.5	3.2	0.6	2.1	0.2	2.0	0.3	20.8	172	Upper Saprolite		
RRMDD750	17.91	18.75	0.84	25.2	95.1	5.8	22.3	3.9	0.9	3.4	0.6	3.3	0.7	2.1	0.3	2.5	0.3	23.1	190	Upper Saprolite		
RRMDD750	18.75	19.60	0.85	30.4	48.6	7.7	28.3	4.4	1.0	4.6	0.6	4.0	0.8	2.5	0.4	2.5	0.3	26.0	162	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
RRMDD750	19.60	20.10	0.50	81.6	118.2	20.0	71.3	12.1	2.2	8.6	1.3	6.5	1.4	3.7	0.5	3.2	0.5	42.2	373	Upper Saprolite		
RRMDD750	20.10	20.73	0.63	40.3	45.5	9.7	35.8	6.6	1.6	5.8	0.9	5.7	1.1	3.3	0.5	3.7	0.5	38.1	199	Upper Saprolite		
RRMDD750	20.73	21.52	0.79	39.5	45.1	9.7	36.2	6.8	1.7	6.4	1.0	5.7	1.1	3.6	0.5	3.7	0.5	39.7	201	Upper Saprolite		
RRMDD750	21.52	22.31	0.79	33.0	52.7	8.4	30.7	5.4	1.3	5.6	0.8	5.0	1.1	3.2	0.5	3.1	0.5	38.0	189	Upper Saprolite		
RRMDD750	22.31	23.10	0.79	29.3	40.3	7.1	26.7	5.1	1.3	4.8	0.8	4.5	1.0	3.1	0.5	3.3	0.5	34.2	162	Upper Saprolite		
RRMDD750	23.10	23.82	0.72	20.9	78.1	5.1	19.1	3.5	0.9	3.4	0.5	3.3	0.7	2.3	0.4	2.5	0.4	24.5	166	Upper Saprolite		
RRMDD750	23.82	24.54	0.72	22.3	66.6	5.1	19.1	3.8	0.8	3.2	0.6	3.4	0.7	2.4	0.4	2.6	0.4	25.3	157	Upper Saprolite		
RRMDD750	24.54	25.37	0.83	30.0	59.5	7.8	26.7	4.8	1.1	3.8	0.6	3.7	0.8	2.2	0.4	2.4	0.4	25.0	169	Upper Saprolite		
RRMDD750	25.37	26.20	0.83	33.1	53.4	7.7	27.4	4.9	1.1	4.3	0.6	3.6	0.8	2.4	0.3	2.5	0.4	26.9	170	Upper Saprolite		
RRMDD750	26.20	26.80	0.60	28.4	42.4	7.0	26.0	4.9	1.1	3.8	0.6	3.4	0.7	2.2	0.4	2.4	0.4	23.1	147	Lower Saprolite		
RRMDD750	26.80	27.40	0.60	32.1	56.5	8.3	31.0	6.0	1.1	4.1	0.6	3.6	0.7	2.1	0.3	2.2	0.3	20.4	170	Lower Saprolite		
RRMDD750	27.40	28.07	0.67	31.4	58.1	8.0	28.2	5.2	1.2	3.8	0.6	3.3	0.7	1.9	0.3	2.1	0.3	18.8	164	Lower Saprolite		
RRMDD750	28.07	28.74	0.67	24.4	55.0	6.0	20.5	3.8	1.0	3.2	0.4	2.8	0.5	1.8	0.3	2.0	0.3	17.9	140	Lower Saprolite		
RRMDD750	28.74	29.54	0.80	25.7	50.2	6.3	23.0	4.6	0.8	3.6	0.5	3.7	0.8	2.6	0.4	2.9	0.4	27.3	153	Lower Saprolite		
RRMDD750	29.54	30.34	0.80	24.4	44.2	6.2	22.2	3.9	1.0	3.3	0.5	2.8	0.6	2.0	0.3	2.1	0.3	20.2	134	Lower Saprolite		
RRMDD750	30.34	31.87	1.53	27.1	50.1	7.3	27.9	4.7	1.2	3.8	0.7	3.2	0.7	2.2	0.4	2.3	0.3	19.7	151	Saprock		
RRMDD750	31.87	33.40	1.53	26.6	51.6	6.5	23.4	4.6	1.1	3.8	0.6	3.5	0.6	1.9	0.3	2.0	0.3	19.4	146	Saprock		
RRMDD751	0.00	1.75	1.75	56.2	145.6	13.5	47.6	8.3	1.7	7.6	1.3	7.7	1.6	4.4	0.7	4.6	0.7	49.3	351	Soil		
RRMDD751	1.75	3.50	1.75	65.8	175.0	14.4	46.8	7.5	1.3	6.5	1.0	6.6	1.3	3.9	0.6	4.0	0.6	42.7	378	Soil		
RRMDD751	3.50	4.13	0.63	57.0	115.5	12.7	45.0	7.5	1.7	7.6	1.2	6.9	1.6	4.4	0.7	4.5	0.7	50.2	317	Clay		
RRMDD751	4.13	4.75	0.62	52.5	88.4	12.0	43.4	7.3	1.6	7.2	1.2	7.4	1.7	4.6	0.7	4.9	0.8	52.8	287	Clay		
RRMDD751	4.75	5.56	0.81	62.3	215.6	13.4	48.5	9.3	1.6	7.8	1.3	7.4	1.6	5.1	0.7	4.9	0.7	55.6	436	Clay		
RRMDD751	5.56	6.37	0.81	98.6	642.5	22.3	77.2	13.3	2.6	12.0	1.8	10.3	2.0	5.9	0.9	5.3	0.8	66.0	961	Clay		
RRMDD751	6.37	7.18	0.81	87.3	81.4	24.1	84.9	14.5	3.0	12.2	1.8	10.2	2.0	5.8	0.8	5.2	0.9	66.7	401	Clay		
RRMDD751	7.18	7.97	0.79	88.5	67.9	23.9	84.3	15.2	3.0	11.9	1.8	9.6	1.9	5.5	0.7	4.5	0.7	60.1	380	Clay		
RRMDD751	7.97	8.77	0.80	119.0	109.0	31.8	111.4	19.9	4.4	19.5	3.2	18.6	3.9	11.7	1.7	10.6	1.7	152.4	619	Upper Saprolite	5.27	499
RRMDD751	8.77	10.39	1.62	100.3	85.9	23.1	83.9	14.7	3.4	13.6	2.0	10.3	2.0	5.3	0.7	4.8	0.7	65.1	416	Saprock		
RRMDD751	10.39	12.00	1.61	104.4	80.1	23.0	83.6	15.3	3.9	15.7	2.2	11.8	2.2	6.1	0.8	4.9	0.7	69.6	424	Saprock		
RRMDD752	0.00	1.29	1.29	71.0	213.7	14.7	49.7	9.0	1.7	6.8	1.1	6.7	1.4	3.7	0.6	3.9	0.6	41.3	426	Hardcap		
RRMDD752	1.29	2.49	1.20	44.1	162.8	10.3	38.6	6.8	1.3	4.9	0.8	5.0	1.0	2.8	0.4	2.8	0.6	30.4	313	Transition		
RRMDD752	2.49	3.24	0.75	55.8	84.0	13.7	47.4	8.6	1.5	7.2	1.1	6.4	1.3	3.8	0.6	3.7	0.6	40.4	276	Clay		
RRMDD752	3.24	4.13	0.89	57.9	67.8	12.9	45.0	7.8	1.6	6.8	1.0	5.9	1.2	3.5	0.5	3.3	0.5	38.9	255	Clay		
RRMDD752	4.13	5.02	0.89	45.6	70.0	10.9	37.0	6.4	1.4	5.6	0.9	5.2	1.0	2.9	0.4	2.7	0.4	31.5	222	Clay		
RRMDD752	5.02	5.91	0.89	48.3	87.0	12.1	42.1	7.8	1.8	6.5	1.0	5.7	1.1	3.0	0.4	2.8	0.4	36.1	256	Clay		
RRMDD752	5.91	6.80	0.89	45.3	82.8	10.2	35.8	6.3	1.6	5.8	1.0	5.1	1.1	2.7	0.4	2.9	0.4	36.6	238	Clay		
RRMDD752	6.80	7.58	0.78	151.9	309.6	32.3	102.5	14.9	1.8	10.8	1.4	7.3	1.3	3.6	0.5	3.5	0.5	45.8	688	Upper Saprolite		
RRMDD752	7.58	8.36	0.78	82.3	168.3	17.9	57.0	8.5	1.6	6.8	0.9	4.9	0.9	2.5	0.4	2.3	0.4	28.7	383	Upper Saprolite	1.56	536
RRMDD752	8.36	9.44	1.08	32.4	66.3	7.3	24.7	4.4	1.2	3.5	0.6	2.8	0.5	1.6	0.2	1.3	0.2	17.9	165	Upper Saprolite		
RRMDD752	9.44	10.52	1.08	28.9	62.0	6.9	25.9	4.3	1.3	3.6	0.5	3.1	0.6	1.6	0.2	1.2	0.2	16.8	157	Upper Saprolite		
RRMDD752	10.52	11.60	1.08	28.9	60.2	6.8	24.7	4.8	1.2	3.9	0.6	3.4	0.6	1.6	0.3	1.6	0.3	18.4	157	Upper Saprolite		
RRMDD752	11.60	12.40	0.80	24.6	54.8	5.7	21.2	4.2	1.1	3.1	0.5	3.0	0.5	1.4	0.2	1.2	0.2	15.1	137	Lower Saprolite		
RRMDD752	12.40	13.20	0.80	24.3	50.9	5.7	21.5	4.1	1.1	3.3	0.5	3.0	0.5	1.4	0.2	1.3	0.2	15.2	133	Lower Saprolite		
RRMDD752	13.20	14.70	1.50	16.7	35.6	4.0	15.3	2.9	0.7	2.5	0.4	2.1	0.4	1.1	0.1	0.9	0.2	12.1	95	Saprock		
RRMDD753	0.00	1.34	1.34	63.2	167.7	12.8	45.4	8.0	1.4	6.4	1.0	5.5	1.1	3.2	0.5	3.2	0.6	34.5	355	Hardcap		
RRMDD753	1.34	2.67	1.33	53.0	168.3	11.8	40.8	7.9	1.6	6.2	1.2	6.3	1.3	3.7	0.6	4.4	0.8	36.3	344	Hardcap		
RRMDD753	2.67	3.11	0.44	80.0	129.6	17.5	65.9	10.5	1.6	8.6	1.4	7.9	1.5	4.5	0.7	4.3	0.7	49.4	384	Transition		
RRMDD753	3.11	4.10	0.99	55.2	76.0	11.0	40.5	6.6	1.1	5.5	0.8	5.5	1.1	3.1	0.5	2.9	0.5	34.2	244	Clay		
RRMDD753	4.10	5.09	0.99	53.8	55.4	9.9	34.3	5.6	1.0	4.6	0.7	4.3	0.8	2.4	0.3	2.2	0.3	25.1	201	Clay		
RRMDD753	5.09	5.71	0.62	256.8	125.3	52.1	185.5	30.0	4.9	23.4	3.1	17.9	3.1	8.2	1.1	6.5	0.9	98.7	818	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
RRMDD753	5.71	6.53	0.82	122.0	81.9	23.5	77.4	12.1	1.9	8.4	1.2	6.5	1.1	3.2	0.4	2.7	0.4	36.4	379	Upper Saprolite	1.44	568
RRMDD753	6.53	7.35	0.82	78.6	54.5	12.5	41.4	6.0	1.1	4.9	0.7	4.0	0.8	2.1	0.3	1.9	0.3	23.5	233	Upper Saprolite		
RRMDD753	7.35	8.21	0.86	29.8	57.0	7.0	26.4	4.5	0.8	3.8	0.6	3.6	0.7	1.9	0.3	1.9	0.3	21.8	161	Upper Saprolite		
RRMDD753	8.21	9.07	0.86	28.7	36.5	6.5	24.3	4.0	0.7	3.4	0.5	3.1	0.6	1.6	0.2	1.6	0.3	18.4	130	Upper Saprolite		
RRMDD753	9.07	9.93	0.86	54.7	137.6	12.4	42.6	7.4	1.1	5.9	0.8	4.8	0.9	2.5	0.4	2.2	0.4	26.5	300	Upper Saprolite		
RRMDD753	9.93	10.79	0.86	55.9	151.7	14.1	52.3	8.6	1.3	6.9	1.0	5.6	1.0	2.5	0.4	2.3	0.4	30.0	334	Upper Saprolite		
RRMDD753	10.79	11.65	0.86	73.8	128.4	17.6	62.2	10.2	1.6	8.0	1.1	6.1	1.0	2.7	0.4	2.3	0.3	33.0	349	Upper Saprolite		
RRMDD753	11.65	12.46	0.81	61.9	113.7	15.0	55.8	9.8	1.9	8.9	1.4	8.0	1.4	4.0	0.5	3.2	0.5	44.6	330	Lower Saprolite	1.67	340
RRMDD753	12.46	13.27	0.81	42.2	70.5	9.6	36.7	6.9	1.6	6.7	1.0	6.1	1.2	3.6	0.5	2.9	0.5	44.1	234	Lower Saprolite		
RRMDD753	13.27	14.08	0.81	29.3	66.2	7.6	26.4	5.0	1.3	4.3	0.6	3.5	0.7	2.1	0.3	1.7	0.3	23.6	173	Lower Saprolite		
RRMDD753	14.08	14.88	0.80	22.4	53.4	5.8	22.3	4.0	1.1	3.5	0.5	3.2	0.6	1.7	0.2	1.6	0.3	20.1	141	Lower Saprolite		
RRMDD753	14.88	16.50	1.62	20.9	45.8	5.1	19.4	3.6	1.1	3.1	0.5	2.9	0.5	1.6	0.2	1.3	0.2	16.5	123	Saprock		
RRMDD754	0.00	1.42	1.42	105.2	598.2	18.4	57.7	9.6	1.5	7.0	1.1	6.8	1.4	4.3	0.6	3.9	0.7	38.0	854	Hardcap		
RRMDD754	1.42	2.83	1.41	101.3	379.6	16.8	53.0	8.4	1.6	6.4	1.1	6.1	1.4	4.0	0.6	4.1	0.7	35.2	620	Hardcap		
RRMDD754	2.83	3.54	0.71	73.9	211.9	15.5	56.5	9.3	1.5	7.8	1.2	8.0	1.6	4.9	0.7	4.8	0.7	48.4	446	Transition		
RRMDD754	3.54	4.39	0.85	81.9	220.5	17.5	65.1	10.9	1.7	8.5	1.3	8.7	1.7	5.3	0.8	5.1	0.8	55.2	485	Clay		
RRMDD754	4.39	5.23	0.84	76.6	194.1	16.7	61.5	10.1	1.6	8.7	1.3	8.9	1.8	5.4	0.8	5.3	0.8	55.7	449	Clay	1.69	467
RRMDD754	5.23	6.05	0.82	48.1	106.6	10.6	40.2	6.8	1.1	5.9	0.9	5.8	1.2	3.8	0.6	3.6	0.6	38.9	275	Clay		
RRMDD754	6.05	6.87	0.82	25.2	48.8	6.0	23.1	4.0	0.7	3.8	0.6	4.5	0.9	2.9	0.5	3.0	0.5	28.3	153	Clay		
RRMDD754	6.87	7.82	0.95	35.1	51.7	8.1	30.0	5.6	0.9	4.8	0.8	5.4	1.1	3.3	0.5	3.4	0.5	35.6	187	Clay		
RRMDD754	7.82	8.77	0.95	45.3	47.9	11.6	42.9	8.1	1.4	6.2	1.0	6.3	1.2	3.8	0.6	3.5	0.5	40.3	221	Clay		
RRMDD754	8.77	9.72	0.95	73.5	109.0	21.6	79.3	14.4	2.7	10.8	1.6	9.3	1.7	4.9	0.7	4.5	0.7	56.0	391	Clay		
RRMDD754	9.72	10.67	0.95	69.7	71.0	19.0	70.2	12.4	2.2	9.8	1.4	8.6	1.7	4.8	0.7	4.6	0.7	54.6	331	Clay		
RRMDD754	10.67	11.63	0.96	88.9	107.9	24.8	92.7	15.2	3.0	11.9	1.8	9.9	2.0	5.8	0.8	5.1	0.8	64.5	435	Clay		
RRMDD754	11.63	12.59	0.96	87.3	151.7	24.8	90.7	15.5	3.0	11.3	1.7	9.7	1.7	5.1	0.8	4.2	0.7	57.3	466	Upper Saprolite		
RRMDD754	12.59	13.55	0.96	66.8	125.9	17.2	65.8	11.4	2.2	9.3	1.4	8.6	1.7	5.1	0.7	4.3	0.7	58.4	380	Upper Saprolite		
RRMDD754	13.55	14.40	0.85	70.6	277.6	18.5	68.1	12.3	2.4	10.0	1.4	8.0	1.6	4.8	0.7	4.4	0.6	54.5	536	Lower Saprolite		
RRMDD754	14.40	15.25	0.85	95.1	84.8	27.3	104.3	18.2	3.5	13.0	1.9	10.4	1.9	5.6	0.7	4.4	0.6	57.4	429	Lower Saprolite		
RRMDD754	15.25	16.10	0.85	90.2	65.0	25.3	96.7	16.9	3.2	11.9	1.8	10.0	1.7	5.0	0.7	4.1	0.6	53.7	387	Lower Saprolite		
RRMDD754	16.10	16.95	0.85	199.4	63.0	51.2	200.0	34.2	7.2	30.4	4.3	23.5	4.1	11.3	1.5	8.3	1.2	117.5	757	Lower Saprolite		
RRMDD754	16.95	17.80	0.85	174.2	62.8	45.9	180.2	32.0	6.8	28.1	4.1	23.8	4.3	12.5	1.6	9.9	1.4	135.2	723	Lower Saprolite		
RRMDD754	17.80	18.70	0.90	88.4	62.8	18.9	77.4	16.9	3.6	18.2	2.6	14.9	3.2	9.5	1.2	7.8	1.1	120.6	447	Lower Saprolite	9.93	476
RRMDD755	0.00	1.40	1.40	84.0	303.4	16.4	54.0	9.9	1.7	7.2	1.2	7.9	1.4	4.5	0.7	4.8	0.6	41.1	539	Hardcap		
RRMDD755	1.40	3.12	1.72	110.8	238.9	24.4	86.5	14.4	2.5	11.9	1.8	11.4	2.4	6.8	1.0	6.0	1.0	72.3	592	Hardcap		
RRMDD755	3.12	4.09	0.97	102.3	209.4	22.6	85.5	14.3	2.6	12.3	1.9	11.7	2.3	7.1	1.0	6.3	1.0	73.9	554	Clay		
RRMDD755	4.09	5.06	0.97	94.5	287.4	21.5	78.7	13.4	2.4	11.6	1.8	11.6	2.3	6.8	1.0	5.9	0.9	72.6	613	Clay		
RRMDD755	5.06	6.03	0.97	57.0	92.3	12.7	47.1	8.1	1.3	7.0	1.1	7.4	1.5	4.7	0.7	4.1	0.6	48.8	294	Clay	2.91	487
RRMDD755	6.03	7.00	0.97	39.1	63.3	8.7	32.2	5.8	1.1	5.0	0.8	5.6	1.2	3.7	0.5	3.3	0.5	37.6	208	Clay		
RRMDD755	7.00	7.96	0.96	33.1	43.2	7.7	28.8	5.2	1.0	4.7	0.8	5.0	1.1	3.3	0.5	2.9	0.5	34.8	173	Clay		
RRMDD755	7.96	8.94	0.98	40.6	37.3	9.5	36.3	6.3	1.3	6.0	1.0	6.1	1.3	3.7	0.5	3.4	0.6	42.9	197	Clay		
RRMDD755	8.94	9.66	0.72	52.9	46.1	10.9	41.2	7.1	1.3	6.4	1.0	6.2	1.3	4.0	0.5	3.3	0.6	43.7	226	Clay		
RRMDD755	9.66	10.38	0.72	41.0	50.7	9.3	35.2	6.2	1.3	5.5	0.9	5.7	1.1	3.6	0.5	3.1	0.5	39.1	204	Clay		
RRMDD755	10.38	11.21	0.83	49.4	45.1	9.9	36.7	6.4	1.2	5.9	0.9	5.5	1.1	3.4	0.5	3.0	0.5	37.8	207	Clay		
RRMDD755	11.21	12.04	0.83	38.8	54.2	9.1	33.5	6.6	1.2	5.7	0.8	5.2	1.1	3.2	0.5	3.2	0.5	38.1	202	Clay		
RRMDD755	12.04	12.88	0.84	37.2	156.6	9.4	35.8	6.4	1.3	5.6	0.9	5.5	1.1	3.3	0.5	3.0	0.5	36.8	304	Clay		
RRMDD755	12.88	13.80	0.92	55.0	67.8	14.2	54.2	9.6	1.8	8.1	1.3	7.1	1.4	4.2	0.6	3.6	0.6	46.6	276	Clay		
RRMDD755	13.80	14.72	0.92	59.3	83.7	15.4	57.4	9.6	1.9	8.3	1.2	6.8	1.4	4.3	0.6	3.5	0.6	46.5	301	Clay		
RRMDD755	14.72	15.64	0.92	63.3	112.8	17.0	66.0	11.4	2.2	8.9	1.3	7.3	1.5	4.1	0.6	3.6	0.6	47.6	348	Clay	2.76	308
RRMDD755	15.64	16.57	0.93	52.7	200.8	13.2	51.3	9.0	1.9	6.9	1.1	6.4	1.2	3.9	0.5	3.7	0.5	42.0	395	Upper Saprolite		
RRMDD755	16.57	17.26	0.69	39.9	121.4	10.7	39.9	7.1	1.5	5.4	0.8	5.1	1.0	2.9	0.4	2.6	0.4	32.4	271	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
RRMDD755	17.26	17.95	0.69	37.4	111.2	9.2	33.4	6.4	1.3	5.5	0.8	4.9	1.0	3.2	0.4	3.1	0.4	36.1	254	Upper Saprolite		
RRMDD755	17.95	18.64	0.69	22.2	83.5	5.6	21.9	3.8	0.9	3.3	0.6	3.6	0.7	2.1	0.3	2.0	0.3	21.8	173	Upper Saprolite		
RRMDD755	18.64	19.69	1.05	55.5	73.9	17.3	69.1	13.9	3.1	11.8	1.8	10.7	2.0	5.5	0.7	4.5	0.7	59.4	330	Lower Saprolite		
RRMDD755	19.69	20.48	0.79	99.2	64.0	28.8	112.3	20.9	4.6	16.7	2.3	11.6	2.0	5.2	0.6	4.3	0.5	51.0	424	Lower Saprolite		
RRMDD755	20.48	21.27	0.79	81.0	61.2	22.7	90.0	16.4	3.6	13.0	1.9	9.7	1.6	4.4	0.6	3.4	0.5	42.9	353	Lower Saprolite	**2.63**	**365**
RRMDD755	21.27	22.05	0.78	62.4	63.9	13.8	54.1	9.8	2.1	8.5	1.2	6.2	1.1	3.2	0.4	2.4	0.4	32.6	262	Lower Saprolite		
RRMDD755	22.05	24.00	1.95	48.9	62.0	10.7	43.5	8.3	1.9	9.1	1.4	8.8	1.9	5.8	0.8	4.6	0.8	78.4	287	Saprock		
RRMDD756	0.00	1.59	1.59	64.0	159.1	15.1	49.8	10.1	1.5	8.0	1.2	7.8	1.6	4.5	0.6	4.4	0.7	48.6	377	Hardcap		
RRMDD756	1.59	3.18	1.59	86.4	684.2	17.9	58.7	11.0	1.8	7.9	1.3	7.4	1.5	4.2	0.6	4.5	0.8	40.6	929	Hardcap		
RRMDD756	3.18	4.76	1.58	108.0	1100.6	19.0	63.9	10.3	1.6	7.3	1.2	7.0	1.5	4.4	0.7	4.1	0.7	40.5	1371	Hardcap		
RRMDD756	4.76	5.73	0.97	101.7	328.0	17.7	60.1	9.6	1.6	7.5	1.3	7.1	1.6	4.9	0.7	4.7	0.7	48.4	595	Transition		
RRMDD756	5.73	6.69	0.96	96.1	153.6	16.0	53.9	8.3	1.4	6.7	1.1	6.8	1.5	4.4	0.7	4.1	0.7	46.9	402	Transition		
RRMDD756	6.69	7.66	0.97	60.4	82.4	11.3	39.4	6.2	1.1	5.7	0.9	5.7	1.2	3.9	0.6	3.8	0.6	40.0	263	Clay		
RRMDD756	7.66	8.62	0.96	56.8	74.6	10.8	37.6	5.9	1.1	5.3	0.9	4.8	1.2	3.6	0.5	3.5	0.5	36.4	243	Clay		
RRMDD756	8.62	9.57	0.95	41.4	51.8	8.9	31.4	5.1	0.9	4.6	0.7	4.5	1.0	3.2	0.5	3.1	0.5	33.8	191	Clay		
RRMDD756	9.57	10.52	0.95	33.7	45.6	7.9	28.7	5.0	0.9	4.2	0.7	4.4	0.9	3.1	0.4	2.9	0.5	32.4	171	Clay		
RRMDD756	10.52	11.47	0.95	49.4	69.2	14.6	53.5	9.2	1.7	6.7	1.0	5.5	1.2	3.3	0.5	3.1	0.6	34.0	253	Clay		
RRMDD756	11.47	12.42	0.95	37.9	87.6	9.9	37.3	6.2	1.1	4.8	0.8	4.7	0.9	3.2	0.5	2.8	0.5	31.0	229	Clay		
RRMDD756	12.42	13.37	0.95	69.5	159.7	16.7	60.8	9.9	1.9	8.1	1.1	6.6	1.3	3.9	0.6	3.6	0.6	42.7	387	Clay		
RRMDD756	13.37	14.34	0.97	155.4	167.7	42.5	152.2	24.5	4.2	16.2	2.3	12.3	2.3	6.2	0.8	4.8	0.7	64.8	657	Clay		
RRMDD756	14.34	15.22	0.88	178.3	218.0	44.9	158.0	24.9	4.3	17.2	2.4	12.3	2.4	6.8	0.9	5.3	0.8	71.0	748	Clay		
RRMDD756	15.22	16.27	1.05	105.8	97.5	26.7	99.7	16.5	3.2	13.0	1.9	10.1	2.1	6.3	0.9	5.2	0.9	65.5	455	Clay		
RRMDD756	16.27	17.32	1.05	128.4	118.8	35.4	127.7	22.0	3.9	14.5	2.2	11.9	2.4	6.3	0.9	5.4	0.8	71.5	552	Clay		
RRMDD756	17.32	18.20	0.88	114.9	67.1	26.3	95.1	15.4	2.9	11.8	1.8	9.7	2.1	5.8	0.8	4.9	0.8	63.4	423	Upper Saprolite		
RRMDD756	18.20	19.07	0.87	67.8	55.5	19.2	72.4	12.1	2.2	9.6	1.5	8.2	1.7	5.2	0.7	4.2	0.7	57.4	318	Upper Saprolite		
RRMDD756	19.07	19.95	0.88	82.8	52.0	25.0	95.2	15.2	3.2	12.7	1.9	10.0	2.0	5.8	0.8	4.9	0.8	60.4	373	Upper Saprolite		
RRMDD756	19.95	20.83	0.88	77.4	66.1	21.5	83.6	13.5	2.7	11.5	1.7	9.3	2.0	5.7	0.8	4.9	0.9	60.3	362	Lower Saprolite		
RRMDD756	20.83	21.72	0.89	72.1	101.1	21.1	83.0	14.0	2.8	11.4	1.8	10.2	2.0	6.3	0.9	5.7	0.9	70.1	403	Lower Saprolite		
RRMDD756	21.72	22.71	0.99	63.9	45.9	16.7	61.9	11.4	2.1	9.4	1.3	7.5	1.5	4.8	0.7	4.3	0.7	50.0	282	Lower Saprolite		
RRMDD756	22.71	23.70	0.99	72.6	63.3	21.4	82.3	13.9	2.8	11.3	1.6	9.3	1.8	5.1	0.7	4.6	0.7	51.8	343	Lower Saprolite		
RRMDD756	23.70	24.70	1.00	60.9	59.3	16.1	63.9	10.7	2.4	10.3	1.5	8.7	1.8	5.2	0.7	4.6	0.7	52.3	299	Lower Saprolite		
RRMDD756	24.70	25.69	0.99	89.5	93.4	27.2	110.9	19.8	4.4	16.9	2.5	13.5	2.7	7.5	1.0	5.9	1.0	74.0	470	Lower Saprolite	**13.27**	**434**
RRMDD756	25.69	26.64	0.95	34.1	43.9	9.0	34.8	6.1	1.3	5.0	0.8	4.8	1.1	3.1	0.5	2.9	0.5	31.4	179	Lower Saprolite		
RRMDD756	26.64	27.59	0.95	33.2	36.0	6.5	23.9	3.8	0.8	3.3	0.5	3.1	0.7	2.2	0.4	2.2	0.4	23.2	140	Lower Saprolite		
RRMDD756	27.59	28.54	0.95	23.6	33.8	5.8	20.6	3.4	0.7	2.9	0.4	2.3	0.5	1.6	0.2	1.4	0.3	15.4	113	Lower Saprolite		
RRMDD756	28.54	29.50	0.96	25.4	39.3	6.6	25.1	3.9	0.9	3.3	0.5	2.8	0.6	1.7	0.3	1.5	0.3	17.3	130	Lower Saprolite		
RRMDD756	29.50	30.45	0.95	22.5	37.2	5.8	20.5	3.8	0.9	2.7	0.4	2.1	0.5	1.3	0.2	1.5	0.2	14.7	114	Lower Saprolite		
RRMDD756	30.45	31.40	0.95	21.3	44.8	4.8	18.0	3.0	0.7	2.4	0.4	2.2	0.5	1.7	0.3	1.7	0.3	16.4	118	Lower Saprolite		
RRMDD756	31.40	32.35	0.95	16.4	34.1	4.4	15.5	3.0	0.6	1.9	0.4	2.2	0.4	1.4	0.2	1.8	0.2	13.2	96	Lower Saprolite		
RRMDD756	32.35	33.17	0.82	28.0	67.4	8.5	30.2	5.9	1.4	5.0	0.7	4.7	0.9	2.9	0.5	3.1	0.4	25.9	186	Lower Saprolite		
RRMDD756	33.17	34.00	0.83	21.1	40.0	5.5	19.6	3.8	1.0	3.1	0.6	3.8	0.9	3.0	0.4	3.0	0.5	26.8	133	Lower Saprolite		
RRMDD756	34.00	34.82	0.82	24.5	42.1	5.4	18.0	3.3	0.6	2.6	0.4	2.5	0.5	1.9	0.3	1.9	0.3	16.6	121	Lower Saprolite		
RRMDD756	34.82	35.91	1.09	25.3	47.3	6.9	23.7	4.7	1.1	4.0	0.7	4.0	0.8	2.4	0.4	2.7	0.4	25.1	149	Saprock		
RRMDD756	35.91	37.00	1.09	34.6	79.6	9.3	34.4	7.1	1.7	6.0	1.0	5.9	1.2	3.7	0.5	3.5	0.5	38.1	227	Saprock		
RRMDD757	0.00	1.99	1.99	71.0	141.9	15.9	55.5	9.6	1.9	8.6	1.4	8.0	1.8	5.0	0.8	4.6	0.8	52.6	379	Soil		
RRMDD757	1.99	3.11	1.12	58.6	165.8	13.3	46.5	7.5	1.4	7.1	1.2	7.4	1.5	4.4	0.7	4.6	0.8	43.0	364	Soil		
RRMDD757	3.11	4.74	1.63	47.1	121.0	9.3	30.7	5.8	0.8	4.3	0.7	4.8	0.9	3.0	0.5	3.4	0.5	27.2	260	Hardcap		
RRMDD757	4.74	5.72	0.98	46.6	324.3	9.2	29.3	5.3	0.8	4.4	0.7	4.6	1.0	3.4	0.5	3.7	0.6	29.2	463	Clay		
RRMDD757	5.72	6.70	0.98	47.1	128.4	8.8	27.6	5.0	0.8	4.1	0.7	4.9	1.0	3.3	0.5	3.8	0.6	29.0	266	Clay		
RRMDD757	6.70	7.68	0.98	54.3	101.2	9.5	29.9	4.5	0.9	4.7	0.8	4.7	1.0	3.3	0.5	3.9	0.6	30.5	250	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
RRMDD757	7.68	8.66	0.98	59.1	568.7	11.1	36.4	6.3	1.1	5.1	0.9	5.4	1.1	3.8	0.5	3.8	0.6	30.5	735	Clay		
RRMDD757	8.66	9.64	0.98	53.1	97.2	8.5	28.5	5.1	0.8	4.2	0.7	4.7	1.0	3.2	0.5	3.7	0.5	29.1	241	Clay		
RRMDD757	9.64	10.57	0.93	39.5	65.5	7.2	22.2	4.0	0.7	3.4	0.6	4.5	0.9	3.0	0.5	3.1	0.5	27.4	183	Clay		
RRMDD757	10.57	11.50	0.93	27.3	59.9	5.6	18.2	3.7	0.6	2.8	0.4	3.2	0.6	2.1	0.3	2.6	0.4	19.9	148	Clay		
RRMDD757	11.50	12.40	0.90	29.0	65.8	6.8	22.7	3.8	0.7	2.9	0.5	2.9	0.6	1.9	0.3	2.3	0.4	17.7	158	Clay		
RRMDD757	12.40	12.87	0.47	24.5	50.6	6.1	20.8	4.1	0.9	3.5	0.7	5.2	1.2	4.1	0.6	4.1	0.7	34.5	162	Clay		
RRMDD757	12.87	13.81	0.94	24.0	41.3	5.9	19.4	3.7	0.6	2.3	0.3	2.7	0.5	1.8	0.3	2.1	0.3	15.4	121	Clay		
RRMDD757	13.81	14.74	0.93	35.9	46.8	10.3	35.0	6.5	1.2	4.5	0.7	4.2	0.7	2.5	0.4	2.5	0.4	23.1	175	Upper Saprolite		
RRMDD757	14.74	15.60	0.86	71.5	138.2	23.7	82.7	16.7	3.1	11.3	1.7	9.5	1.7	5.2	0.7	4.3	0.6	46.2	417	Upper Saprolite		
RRMDD757	15.60	16.46	0.86	52.4	93.8	15.3	53.7	9.9	1.8	6.5	1.0	6.0	1.1	3.3	0.5	3.2	0.4	34.4	283	Upper Saprolite		
RRMDD757	16.46	17.32	0.86	47.9	92.0	12.3	39.9	6.6	1.2	4.5	0.7	3.9	0.8	2.4	0.3	2.3	0.3	21.0	236	Upper Saprolite		
RRMDD757	17.32	18.18	0.86	46.2	68.7	13.2	46.9	8.4	1.8	6.0	0.8	4.7	0.8	2.6	0.4	2.7	0.4	23.9	227	Upper Saprolite		
RRMDD757	18.18	19.06	0.88	47.4	57.0	12.1	42.9	7.8	1.5	5.4	0.7	4.0	0.8	2.1	0.4	2.2	0.3	21.2	206	Upper Saprolite		
RRMDD757	19.06	19.92	0.86	52.4	59.6	13.5	47.6	9.2	1.8	6.6	0.9	5.3	0.9	2.8	0.4	2.7	0.4	26.2	230	Lower Saprolite		
RRMDD757	19.92	20.78	0.86	44.4	58.0	11.5	41.9	7.6	1.6	5.9	0.8	5.0	0.8	2.4	0.4	2.7	0.3	23.9	207	Lower Saprolite		
RRMDD757	20.78	21.64	0.86	59.5	71.2	14.1	53.7	11.1	2.7	12.3	1.7	10.7	2.0	5.7	0.8	4.8	0.7	53.3	304	Lower Saprolite		
RRMDD757	21.64	22.50	0.86	47.5	74.6	10.7	38.0	7.4	1.5	7.0	1.0	6.5	1.3	4.0	0.5	3.3	0.5	41.5	245	Lower Saprolite		
RRMDD757	22.50	23.60	1.10	33.2	63.0	8.1	29.0	5.6	1.2	4.7	0.7	4.4	0.9	2.9	0.4	2.7	0.4	31.4	189	Saprock		
RRMDD757	23.60	24.70	1.10	31.1	64.7	7.8	27.6	5.1	0.9	3.5	0.5	2.9	0.6	1.9	0.3	2.0	0.3	18.8	168	Saprock		
RRMDD758	0.00	1.52	1.52	53.6	341.5	10.5	34.9	6.1	1.2	5.5	0.9	5.4	1.1	3.4	0.5	3.7	0.5	32.1	501	Hardcap		
RRMDD758	1.52	3.04	1.52	63.7	938.5	14.5	50.3	9.7	1.7	7.8	1.2	7.9	1.5	4.9	0.7	5.2	0.7	41.8	1150	Hardcap		
RRMDD758	3.04	4.55	1.51	68.4	846.4	17.3	60.9	11.3	1.8	8.3	1.4	8.4	1.6	5.3	0.8	5.3	0.8	47.6	1086	Hardcap		
RRMDD758	4.55	5.28	0.73	91.2	633.9	18.4	63.6	10.6	2.2	9.4	1.5	9.3	2.0	5.6	0.8	5.8	0.9	56.0	911	Transition		
RRMDD758	5.28	6.14	0.86	79.6	155.4	15.4	51.0	8.7	1.8	8.6	1.5	8.6	1.8	5.3	0.8	5.2	0.8	53.2	398	Clay		
RRMDD758	6.14	6.74	0.60	96.2	111.5	17.4	59.7	9.5	1.9	9.2	1.5	8.8	1.8	5.2	0.7	5.2	0.9	60.3	390	Clay		
RRMDD758	6.74	7.33	0.59	137.2	100.0	35.8	124.2	20.3	4.4	18.4	2.8	15.7	3.1	8.5	1.1	7.8	1.3	93.1	574	Clay		
RRMDD758	7.33	8.06	0.73	328.4	133.9	100.2	347.6	56.0	11.3	43.2	6.6	34.3	6.5	17.2	2.4	14.8	2.4	189.2	1294	Clay		
RRMDD758	8.06	8.79	0.73	261.5	150.5	76.8	262.4	42.7	7.8	30.3	4.5	23.3	4.1	11.1	1.4	9.5	1.4	120.8	1008	Clay		
RRMDD758	8.79	9.52	0.73	258.0	96.1	66.7	235.6	40.8	8.1	33.3	5.1	28.5	5.4	14.6	2.0	12.4	1.9	165.7	974	Clay		
RRMDD758	9.52	10.14	0.62	341.3	158.5	82.3	300.9	50.6	11.0	48.3	7.1	38.4	7.2	18.8	2.5	15.9	2.5	227.3	1313	Upper Saprolite		
RRMDD758	10.14	10.76	0.62	164.8	89.3	39.6	144.6	24.5	5.5	24.3	3.9	23.0	4.6	12.8	1.8	11.6	1.8	157.5	709	Upper Saprolite		
RRMDD758	10.76	11.40	0.64	197.0	95.0	38.5	156.3	31.2	6.7	37.0	5.8	33.3	7.4	21.4	2.8	17.0	2.5	264.1	916	Lower Saprolite		
RRMDD758	11.40	12.04	0.64	77.1	62.4	14.4	57.6	9.4	2.3	11.3	1.7	9.4	2.0	5.4	0.7	4.7	0.7	68.3	328	Lower Saprolite	**6.76**	**792**
RRMDD758	12.04	13.05	1.01	46.1	64.6	9.0	34.3	6.1	1.6	6.5	1.0	5.6	1.2	3.2	0.4	3.1	0.5	42.7	226	Lower Saprolite		
RRMDD758	13.05	14.98	1.93	34.1	62.6	8.1	29.5	5.3	1.5	5.2	0.8	4.3	1.0	2.7	0.4	2.6	0.5	31.1	190	Saprock		
RRMDD758	14.98	16.90	1.92	26.3	53.7	6.5	24.1	4.5	1.3	3.9	0.7	3.4	0.8	2.1	0.4	2.2	0.4	20.1	150	Saprock		
RRMDD759	0.00	1.65	1.65	112.2	209.4	25.7	93.0	17.1	2.9	14.3	2.3	13.5	2.6	8.0	1.0	7.1	1.0	80.6	591	Soil		
RRMDD759	1.65	3.28	1.63	55.5	249.4	11.6	41.5	8.9	1.6	6.2	1.2	7.0	1.4	4.4	0.7	4.7	0.6	35.9	431	Hardcap		
RRMDD759	3.28	3.78	0.50	63.3	679.3	14.1	49.7	8.9	1.7	7.0	1.2	7.7	1.6	4.5	0.8	5.1	0.8	38.1	884	Transition		
RRMDD759	3.78	4.66	0.88	101.0	839.0	20.4	69.3	10.7	2.1	9.3	1.5	8.6	1.7	5.3	0.8	5.6	0.8	51.8	1128	Clay		
RRMDD759	4.66	5.54	0.88	115.8	438.5	23.3	77.3	12.3	2.4	10.0	1.7	10.1	2.0	5.8	0.9	6.0	0.9	63.2	770	Clay		
RRMDD759	5.54	6.42	0.88	102.3	258.0	20.7	68.9	11.0	2.2	10.5	1.7	10.3	2.0	6.0	0.8	5.4	0.9	60.7	561	Clay		
RRMDD759	6.42	7.30	0.88	96.6	205.1	21.3	74.5	13.2	2.2	10.7	1.7	9.9	2.2	6.5	1.0	6.3	1.0	66.0	518	Clay		
RRMDD759	7.30	8.18	0.88	111.2	118.3	24.8	87.1	13.7	2.7	12.3	2.1	11.2	2.2	6.5	0.9	6.9	1.1	70.6	472	Clay		
RRMDD759	8.18	9.07	0.89	97.3	248.1	22.4	75.9	11.9	2.4	11.0	1.8	10.5	2.0	5.8	0.8	5.9	0.9	62.6	559	Clay		
RRMDD759	9.07	10.00	0.93	86.3	190.4	20.8	73.5	12.0	2.4	10.5	1.6	9.1	1.8	5.5	0.8	5.4	0.9	59.4	480	Clay		
RRMDD759	10.00	10.93	0.93	60.3	98.8	15.6	55.3	9.3	1.9	7.8	1.3	7.0	1.4	4.4	0.6	4.1	0.6	46.0	314	Clay		
RRMDD759	10.93	11.86	0.93	63.2	84.1	16.5	60.0	9.8	1.9	8.4	1.4	7.8	1.7	4.7	0.7	4.4	0.7	49.9	315	Clay		
RRMDD759	11.86	12.79	0.93	61.7	87.1	16.2	59.4	9.9	2.2	8.5	1.4	8.1	1.7	4.8	0.8	4.6	0.8	50.9	318	Clay		
RRMDD759	12.79	13.70	0.91	63.8	59.2	17.5	61.8	10.1	2.1	9.0	1.3	7.8	1.5	4.6	0.6	4.2	0.7	47.7	292	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)	TREO ppm
RRMDD759	13.70	14.43	0.73	69.8	108.7	19.4	70.6	11.7	2.4	9.5	1.4	8.2	1.6	4.6	0.6	4.6	0.8	50.5	364	Clay		
RRMDD759	14.43	15.16	0.73	58.5	53.2	15.6	55.3	9.1	2.0	8.1	1.3	7.6	1.5	4.4	0.6	3.9	0.6	47.2	269	Clay		
RRMDD759	15.16	15.90	0.74	48.2	36.6	11.9	42.6	7.7	1.7	7.2	1.1	6.7	1.4	4.0	0.6	3.8	0.6	43.9	218	Clay		
RRMDD759	15.90	16.64	0.74	54.5	74.6	15.0	54.0	9.1	1.9	8.3	1.3	7.2	1.5	4.1	0.6	4.0	0.6	44.2	281	Clay		
RRMDD759	16.64	17.51	0.87	76.5	59.2	19.8	73.5	12.2	2.8	10.8	1.7	9.0	1.7	4.9	0.7	4.6	0.7	59.3	337	Upper Saprolite		
RRMDD759	17.51	18.37	0.86	107.3	85.0	28.4	108.9	21.4	4.2	17.9	2.5	14.6	2.9	7.9	1.1	6.7	1.0	93.2	503	Lower Saprolite		
RRMDD759	18.37	19.24	0.87	68.1	77.5	19.5	73.6	14.8	2.5	10.8	1.5	8.4	1.4	4.3	0.6	3.6	0.6	44.4	332	Lower Saprolite		
RRMDD759	19.24	20.11	0.87	59.6	67.7	14.7	56.6	10.6	2.2	8.1	1.2	7.0	1.3	4.2	0.5	3.3	0.6	42.5	280	Lower Saprolite	16.33	442
RRMDD759	20.11	20.98	0.87	39.2	57.5	9.6	37.1	6.5	1.3	5.3	0.8	4.8	0.9	2.6	0.4	3.0	0.4	30.6	200	Lower Saprolite		
RRMDD759	20.98	21.86	0.88	35.2	72.1	8.1	28.9	4.7	1.0	4.0	0.7	3.9	0.8	2.5	0.4	2.5	0.4	26.7	192	Lower Saprolite		
RRMDD759	21.86	23.31	1.45	41.3	71.2	9.7	34.8	6.8	1.3	5.3	0.7	4.3	1.0	2.5	0.4	2.6	0.4	29.5	212	Saprock		
RRMDD759	23.31	24.76	1.45	33.1	71.0	7.6	28.3	4.7	1.1	3.8	0.5	3.2	0.6	2.1	0.3	2.1	0.4	22.5	181	Saprock		
RRMDD759	24.76	26.21	1.45	33.3	52.1	7.6	29.9	6.1	1.1	5.2	0.8	5.0	1.0	3.0	0.4	2.6	0.4	32.6	181	Saprock		
RRMDD760	0.00	1.75	1.75	96.1	208.8	18.7	65.6	11.3	2.2	9.0	1.5	9.0	1.7	5.1	0.8	5.1	0.8	51.8	487	Hardcap		
RRMDD760	1.75	2.38	0.63	126.7	432.4	21.5	70.1	11.5	2.0	7.9	1.3	7.6	1.4	4.4	0.6	4.3	0.6	34.7	727	Hardcap		
RRMDD760	2.38	3.90	1.52	89.0	975.3	19.3	64.4	11.5	1.8	8.1	1.3	7.9	1.6	4.5	0.7	5.0	0.8	45.1	1236	Hardcap		
RRMDD760	3.90	4.40	0.50	95.0	316.9	20.5	72.1	11.8	1.9	9.1	1.4	8.4	1.8	5.4	0.8	5.3	0.8	56.1	607	Transition		
RRMDD760	4.40	5.40	1.00	92.5	127.8	19.1	65.7	10.4	1.7	8.9	1.3	7.6	1.5	4.9	0.7	5.0	0.8	55.9	404	Clay		
RRMDD760	5.40	6.40	1.00	73.9	105.9	15.2	53.8	9.5	1.4	7.0	1.1	6.4	1.4	4.5	0.7	4.3	0.6	43.0	329	Clay		
RRMDD760	6.40	7.40	1.00	78.0	206.4	16.0	57.9	9.1	1.5	6.6	1.0	6.6	1.4	4.3	0.6	4.2	0.7	45.3	440	Clay		
RRMDD760	7.40	8.40	1.00	76.6	127.8	15.6	55.1	9.2	1.5	7.1	1.2	7.5	1.5	4.8	0.7	4.7	0.7	51.3	365	Clay	4.00	384
RRMDD760	8.40	9.38	0.98	56.3	99.6	12.6	44.4	7.1	1.3	6.5	1.0	6.2	1.4	4.3	0.7	4.2	0.6	44.4	291	Clay		
RRMDD760	9.38	10.34	0.96	47.3	51.3	9.7	33.5	6.5	1.0	5.3	0.8	5.2	1.1	3.5	0.5	3.1	0.6	36.8	206	Clay		
RRMDD760	10.34	11.30	0.96	33.5	44.3	7.1	26.6	5.3	0.8	4.5	0.7	4.3	1.0	3.3	0.4	3.1	0.5	33.1	169	Clay		
RRMDD760	11.30	12.27	0.97	32.0	37.8	7.9	29.3	5.9	1.0	4.6	0.8	4.5	0.9	3.1	0.4	2.9	0.5	31.4	163	Upper Saprolite		
RRMDD760	12.27	13.24	0.97	35.8	109.3	8.5	31.1	6.1	1.1	5.2	0.8	5.2	1.1	3.4	0.5	3.3	0.5	38.1	250	Upper Saprolite		
RRMDD760	13.24	14.21	0.97	43.6	50.7	11.9	45.0	8.5	1.4	6.8	1.0	5.8	1.0	3.4	0.5	3.4	0.5	40.3	224	Upper Saprolite		
RRMDD760	14.21	15.18	0.97	44.6	59.8	11.0	39.9	6.9	1.4	5.6	0.8	5.2	1.1	3.4	0.4	3.2	0.5	39.5	223	Upper Saprolite		
RRMDD760	15.18	16.15	0.97	47.4	49.9	11.4	41.5	8.1	1.5	6.4	0.9	6.1	1.2	4.0	0.6	3.6	0.6	47.7	231	Upper Saprolite		
RRMDD760	16.15	17.09	0.94	69.7	63.1	17.3	66.6	12.5	2.1	9.3	1.4	8.5	1.6	5.4	0.7	4.8	0.8	61.2	325	Upper Saprolite		
RRMDD760	17.09	18.00	0.91	77.5	78.5	23.1	85.0	16.1	3.1	12.3	1.7	10.8	2.1	6.1	0.9	5.2	0.8	70.4	394	Lower Saprolite		
RRMDD760	18.00	18.91	0.91	126.7	121.7	40.1	153.4	29.6	6.0	22.4	3.2	17.6	3.1	9.1	1.2	7.1	1.1	101.6	644	Lower Saprolite		
RRMDD760	18.91	19.90	0.99	55.6	72.5	14.4	58.4	10.1	2.1	9.9	1.4	9.7	2.2	6.6	1.0	6.2	1.0	82.2	333	Lower Saprolite	3.75	421
RRMDD760	19.90	21.40	1.50	67.2	64.0	18.6	72.2	13.6	2.7	10.5	1.7	9.6	2.1	6.0	0.8	5.3	0.8	76.8	352	Saprock		
RRMDD760	21.40	22.90	1.50	50.4	58.8	12.3	46.5	8.7	1.7	7.5	1.1	6.7	1.4	3.9	0.6	4.0	0.6	45.8	250	Saprock		
RRMDD760	22.90	24.40	1.50	60.5	73.7	12.5	47.7	11.2	2.5	15.2	2.7	18.2	4.4	13.9	1.9	11.1	1.9	198.1	475	Saprock		
RRMDD760	24.40	26.25	1.85	38.0	56.8	7.8	31.5	5.7	1.3	6.0	0.9	5.3	1.1	3.7	0.4	3.0	0.5	49.5	211	Saprock		
RRMDD760	26.25	28.10	1.85	31.4	67.9	7.4	28.6	5.6	1.3	4.5	0.6	3.9	0.8	2.5	0.4	2.4	0.4	29.2	187	Saprock		
RRMDD761	0.00	1.90	1.90	96.6	518.4	18.8	56.7	10.1	1.6	7.9	1.3	7.5	1.5	4.7	0.7	4.9	0.7	42.5	774	Hardcap		
RRMDD761	1.90	3.77	1.87	123.1	916.4	21.8	69.3	11.2	1.9	7.3	1.3	7.5	1.3	4.1	0.6	4.3	0.6	33.8	1205	Hardcap		
RRMDD761	3.77	4.64	0.87	104.4	465.6	17.9	65.0	10.4	1.6	7.5	1.2	7.1	1.4	4.6	0.7	4.8	0.7	42.9	736	Transition		
RRMDD761	4.64	5.48	0.84	186.5	233.4	30.7	102.8	15.3	2.4	10.9	1.6	9.7	1.9	6.2	0.8	6.0	0.9	58.9	668	Mottled		
RRMDD761	5.48	6.32	0.84	261.5	356.2	49.3	181.4	25.3	3.7	14.1	1.9	11.8	2.0	5.9	0.9	5.9	0.9	59.3	980	Mottled		
RRMDD761	6.32	7.16	0.84	98.2	172.6	19.9	76.7	13.3	2.1	10.0	1.5	9.7	2.0	5.9	0.9	6.2	0.9	63.0	483	Mottled		
RRMDD761	7.16	8.00	0.84	62.6	85.0	15.9	62.6	11.8	2.0	9.4	1.5	9.0	1.8	5.5	0.8	5.5	0.8	55.9	330	Mottled		
RRMDD761	8.00	8.80	0.80	65.2	90.2	18.2	79.5	15.0	2.8	12.8	1.8	11.3	2.2	6.7	0.9	6.8	0.9	73.0	387	Clay		
RRMDD761	8.80	9.75	0.95	90.7	147.4	28.4	124.8	24.2	4.3	20.2	3.0	19.0	3.6	11.4	1.6	10.2	1.5	119.8	610	Clay		
RRMDD761	9.75	10.50	0.75	162.4	380.8	47.2	204.1	35.9	6.1	29.4	4.2	25.4	5.0	14.9	2.0	12.8	1.8	168.9	1101	Clay		
RRMDD761	10.50	11.25	0.75	376.5	511.0	64.9	217.0	34.1	5.2	23.3	3.4	20.0	3.7	10.5	1.5	9.5	1.4	118.0	1400	Clay		
RRMDD761	11.25	12.07	0.82	265.1	339.0	45.2	148.1	21.7	3.5	15.6	2.3	13.6	2.6	7.8	1.1	6.8	0.9	85.5	959	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
RRMDD761	12.07	12.90	0.83	228.7	352.6	46.6	164.5	26.6	3.9	17.4	2.3	13.3	2.5	6.8	0.9	6.1	0.9	78.4	951	Clay		
RRMDD761	12.90	13.72	0.82	126.1	203.3	31.1	126.6	21.3	3.2	15.1	2.2	12.8	2.4	6.7	0.9	5.8	0.8	76.7	635	Upper Saprolite		
RRMDD761	13.72	14.54	0.82	134.9	243.8	36.2	148.1	24.9	4.1	18.6	2.4	14.7	2.6	7.1	1.0	6.2	0.9	82.2	728	Upper Saprolite		
RRMDD761	14.54	15.35	0.81	107.9	186.7	30.3	134.7	24.8	4.3	20.7	2.8	16.5	3.2	8.9	1.2	8.3	1.1	105.5	657	Upper Saprolite		
RRMDD761	15.35	16.40	1.05	85.3	151.1	23.4	102.5	19.8	3.5	16.8	2.6	14.9	3.0	8.1	1.2	7.4	1.1	90.3	531	Lower Saprolite		
RRMDD761	16.40	17.46	1.06	78.8	131.4	21.6	99.4	22.4	4.0	18.6	2.8	17.3	3.3	9.2	1.3	8.2	1.1	95.0	515	Lower Saprolite		
RRMDD761	17.46	18.42	0.96	87.5	171.4	28.6	133.6	30.6	6.1	26.5	3.9	23.2	4.3	11.9	1.7	10.8	1.5	121.7	663	Lower Saprolite		
RRMDD761	18.42	19.38	0.96	83.4	170.1	25.9	125.4	27.9	5.2	24.0	3.7	22.0	4.0	11.9	1.6	10.5	1.5	116.7	634	Lower Saprolite		
RRMDD761	19.38	20.34	0.96	77.2	160.9	19.7	86.1	15.7	2.9	13.9	1.9	12.0	2.2	6.0	0.8	5.7	0.8	65.9	472	Lower Saprolite		
RRMDD761	20.34	21.30	0.96	117.9	272.7	41.9	210.0	43.1	7.9	43.3	5.9	34.9	6.9	19.2	2.6	15.8	2.1	257.8	1082	Lower Saprolite	**16.66**	**714**
RRMDD761	21.30	21.90	0.60	80.6	178.1	24.1	124.2	25.2	4.9	29.5	4.1	25.4	5.5	16.0	2.2	13.4	2.0	228.6	764	Saprock		
RRMDD762	0.00	1.82	1.82	94.3	292.4	18.8	63.7	11.5	1.9	8.7	1.4	8.5	1.6	5.2	0.7	5.2	0.7	45.3	560	Hardcap		
RRMDD762	1.82	3.63	1.81	231.6	595.8	44.9	142.3	21.1	3.4	14.1	2.3	13.9	2.5	7.8	1.2	8.1	1.3	58.9	1149	Hardcap		
RRMDD762	3.63	4.73	1.10	217.0	800.9	36.6	121.3	18.6	3.0	12.9	2.1	12.6	2.5	7.7	1.1	7.4	1.0	68.4	1313	Transition		
RRMDD762	4.73	5.62	0.89	181.8	249.4	32.9	114.0	15.9	2.6	12.0	1.8	10.8	2.1	6.2	1.0	6.4	0.9	67.6	705	Mottled		
RRMDD762	5.62	6.51	0.89	87.6	132.1	18.7	72.6	11.6	1.7	9.1	1.3	8.5	1.7	5.0	0.7	5.2	0.8	53.7	411	Mottled		
RRMDD762	6.51	7.41	0.90	411.7	670.7	85.1	291.6	42.0	6.8	25.5	3.2	17.3	2.7	7.6	1.0	6.4	0.9	80.5	1653	Mottled		
RRMDD762	7.41	8.30	0.89	48.6	125.3	13.4	54.8	10.1	1.7	8.5	1.3	8.3	1.6	5.0	0.8	5.4	0.9	50.8	336	Clay		
RRMDD762	8.30	9.19	0.89	64.9	115.1	16.9	70.3	13.0	2.2	10.2	1.7	9.9	2.1	6.2	0.9	6.0	0.9	65.3	385	Clay		
RRMDD762	9.19	10.08	0.89	46.1	65.5	9.9	41.4	7.3	1.4	6.0	1.0	6.5	1.3	3.9	0.6	3.9	0.6	39.6	235	Clay		
RRMDD762	10.08	10.98	0.90	286.2	470.5	37.9	127.7	21.2	3.6	14.8	1.8	10.4	1.7	4.3	0.7	4.5	0.7	45.3	1031	Clay		
RRMDD762	10.98	11.92	0.94	55.5	280.1	13.2	55.8	9.3	2.0	9.0	1.2	7.9	1.7	5.0	0.7	4.9	0.7	55.5	502	Clay		
RRMDD762	11.92	12.86	0.94	164.2	293.6	28.8	98.2	16.7	3.2	15.5	2.2	12.1	2.5	6.7	1.0	6.2	0.9	84.1	736	Clay		
RRMDD762	12.86	13.80	0.94	49.7	203.9	15.9	65.2	12.2	2.6	11.9	1.6	10.4	2.1	6.2	0.9	5.6	0.9	75.1	464	Clay		
RRMDD762	13.80	14.74	0.94	69.4	255.5	21.9	86.2	15.8	3.0	14.6	2.0	12.5	2.3	7.4	1.0	6.6	1.1	87.9	587	Clay		
RRMDD762	14.74	15.68	0.94	119.6	244.5	27.7	97.9	19.7	3.9	16.5	2.4	14.1	2.7	7.8	1.1	6.8	1.1	97.0	663	Clay		
RRMDD762	15.68	16.62	0.94	144.3	243.2	30.9	114.5	21.9	4.5	20.3	2.6	14.9	2.6	8.1	1.0	6.1	1.1	91.1	707	Clay		
RRMDD762	16.62	17.56	0.94	80.8	170.7	19.6	75.1	14.4	2.8	14.4	1.9	11.2	2.1	6.8	0.9	6.0	0.8	78.2	486	Clay		
RRMDD762	17.56	18.50	0.94	50.2	100.7	17.9	76.6	14.4	3.1	14.2	2.0	11.7	2.5	7.5	0.9	6.5	1.2	88.4	398	Clay		
RRMDD762	18.50	19.42	0.92	76.1	142.5	25.1	103.5	20.0	3.9	18.5	2.6	15.3	3.1	8.7	1.1	7.6	1.3	101.3	530	Clay		
RRMDD762	19.42	20.44	1.02	200.5	409.1	74.3	298.6	64.0	14.0	58.4	8.6	47.9	9.2	25.5	3.5	20.4	2.9	295.9	1533	Clay		
RRMDD762	20.44	21.45	1.01	175.3	399.2	88.8	372.1	85.1	16.6	75.8	11.1	66.0	12.9	35.2	5.0	28.8	4.2	384.8	1761	Clay		
RRMDD762	21.45	22.04	0.59	193.5	465.6	87.7	368.6	80.6	15.9	73.1	10.0	58.9	11.1	32.1	4.3	27.3	3.9	355.6	1788	Upper Saprolite		
RRMDD762	22.04	22.63	0.59	139.0	341.5	55.7	211.7	44.1	8.8	39.2	5.6	32.4	6.2	17.7	2.3	14.1	2.0	199.4	1119	Upper Saprolite		
RRMDD762	22.63	23.60	0.97	261.5	414.0	45.3	149.9	23.1	4.2	20.0	2.7	15.1	2.9	9.2	1.2	8.0	1.2	117.7	1076	Lower Saprolite		
RRMDD762	23.60	24.57	0.97	184.1	309.6	35.4	125.4	21.6	4.5	19.8	2.4	14.6	2.9	8.9	1.1	7.6	1.3	102.9	842	Lower Saprolite		
RRMDD762	24.57	25.54	0.97	99.1	182.4	22.3	82.0	13.9	2.8	12.9	1.6	9.8	2.0	6.2	0.9	5.1	0.8	77.5	519	Lower Saprolite		
RRMDD762	25.54	26.50	0.96	128.4	244.5	28.0	98.0	16.4	3.0	13.7	1.8	9.8	1.8	5.6	0.7	4.8	0.7	66.7	624	Lower Saprolite	**21.77**	**783**
RRMDD763	0.00	1.76	1.76	113.9	498.7	21.4	70.3	12.2	2.1	9.2	1.6	9.0	1.7	5.5	0.8	5.7	0.9	47.5	801	Hardcap		
RRMDD763	1.76	3.51	1.75	267.4	788.6	50.5	160.4	24.8	4.3	17.8	2.6	14.9	2.6	8.2	1.0	7.0	1.0	66.3	1417	Hardcap		
RRMDD763	3.51	4.70	1.19	185.9	302.2	40.0	137.6	23.8	4.2	18.3	2.6	15.0	2.9	9.1	1.3	8.3	1.5	91.7	844	Transition		
RRMDD763	4.70	5.68	0.98	133.7	153.6	29.4	111.6	19.4	3.7	16.4	2.3	14.6	2.8	8.7	1.2	8.0	1.2	97.4	604	Mottled		
RRMDD763	5.68	6.66	0.98	300.2	405.4	59.7	187.2	29.6	5.1	22.0	2.8	16.9	3.0	8.7	1.2	7.6	1.3	98.0	1149	Mottled		
RRMDD763	6.66	7.64	0.98	88.8	132.1	21.5	85.3	15.7	2.9	14.4	2.0	13.1	2.7	8.2	1.1	7.7	1.1	91.3	488	Mottled		
RRMDD763	7.64	8.62	0.98	182.4	264.1	34.9	117.2	19.9	3.9	14.9	1.8	11.0	2.0	5.8	0.7	5.2	0.8	62.2	727	Mottled		
RRMDD763	8.62	9.20	0.58	29.0	63.0	7.9	31.8	6.1	1.3	6.1	0.9	5.8	1.2	4.2	0.6	4.0	0.6	42.2	205	Clay		
RRMDD763	9.20	9.77	0.57	25.1	48.0	8.7	35.2	8.5	1.8	8.1	1.2	8.0	1.4	5.1	0.7	5.4	0.8	55.5	213	Clay		
RRMDD763	9.77	10.53	0.76	53.9	164.6	16.6	71.7	16.1	3.1	15.0	2.2	13.4	2.7	8.6	1.2	8.0	1.1	85.0	463	Clay		
RRMDD763	10.53	11.28	0.75	73.8	158.5	18.4	75.9	16.8	3.4	15.7	2.2	13.7	2.7	8.9	1.0	7.4	1.1	94.6	494	Clay		
RRMDD763	11.28	12.14	0.86	67.3	125.3	22.5	91.8	20.1	4.4	19.3	3.0	19.1	3.6	11.0	1.5	9.9	1.4	130.8	531	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
RRMDD763	12.14	13.00	0.86	71.3	148.6	24.2	97.7	21.7	4.2	18.4	2.5	15.4	2.9	9.6	1.3	8.1	1.2	98.0	525	Clay		
RRMDD763	13.00	13.86	0.86	81.2	187.3	38.8	174.4	43.1	9.5	39.5	6.0	37.4	7.2	19.7	2.8	17.5	2.4	200.6	867	Clay		
RRMDD763	13.86	14.68	0.82	122.6	297.3	48.3	208.2	40.9	8.8	39.1	5.5	33.1	6.5	19.5	2.5	16.7	2.5	218.4	1070	Upper Saprolite		
RRMDD763	14.68	15.63	0.95	118.5	258.0	35.4	151.6	26.4	5.4	30.1	3.7	22.8	5.0	15.6	2.0	12.2	2.2	247.0	936	Lower Saprolite	10.93	667
RRMDD763	15.63	16.82	1.19	82.1	178.1	19.0	63.2	12.5	2.1	9.5	1.3	6.6	1.3	3.8	0.6	4.0	0.5	46.5	431	Saprock		
RRMDD763	16.82	18.00	1.18	68.5	148.0	16.0	52.1	9.5	2.0	7.9	1.1	5.7	1.1	3.5	0.5	3.5	0.6	32.5	352	Saprock		
RRMDD764	0.00	1.32	1.32	106.1	509.8	19.4	68.5	11.8	2.0	9.4	1.5	9.2	1.8	5.1	0.7	5.3	0.8	48.5	800	Hardcap		
RRMDD764	1.32	2.63	1.31	117.9	407.8	21.1	68.2	11.2	1.8	7.9	1.3	8.0	1.5	4.6	0.7	4.9	0.7	36.4	694	Hardcap		
RRMDD764	2.63	3.60	0.97	139.0	250.6	28.8	98.4	18.6	3.2	13.5	1.9	11.3	2.2	6.9	1.1	7.1	1.1	65.9	650	Transition		
RRMDD764	3.60	4.44	0.84	124.9	221.7	26.2	88.6	15.7	2.7	12.6	1.7	10.1	2.1	6.2	1.1	6.5	1.0	72.0	593	Mottled		
RRMDD764	4.44	5.28	0.84	154.2	234.0	35.0	117.8	20.7	3.7	15.8	2.3	13.0	2.6	7.0	1.1	7.0	1.0	85.5	701	Mottled		
RRMDD764	5.28	6.12	0.84	191.8	256.7	44.0	145.2	25.9	4.9	22.1	2.9	17.3	3.1	9.5	1.3	8.3	1.2	106.8	841	Mottled		
RRMDD764	6.12	6.96	0.84	135.5	197.2	31.4	110.9	21.3	3.9	17.8	2.4	15.5	2.9	9.7	1.4	8.2	1.2	102.6	662	Mottled		
RRMDD764	6.96	7.90	0.94	121.4	178.7	30.3	105.3	20.1	3.8	18.3	2.3	15.0	3.0	8.4	1.4	8.4	1.3	100.6	618	Clay		
RRMDD764	7.90	8.69	0.79	64.7	160.9	20.9	84.7	19.6	3.7	17.8	2.7	16.0	3.3	9.9	1.5	9.3	1.4	120.3	537	Upper Saprolite		
RRMDD764	8.69	9.48	0.79	100.0	241.4	31.1	124.8	26.0	4.8	22.5	3.2	20.0	4.2	12.1	1.8	9.8	1.6	146.7	750	Upper Saprolite		
RRMDD764	9.48	10.28	0.80	70.8	157.2	19.9	79.0	19.1	4.3	19.4	2.8	17.6	3.8	11.3	1.7	9.8	1.4	133.3	551	Upper Saprolite		
RRMDD764	10.28	11.17	0.89	115.4	253.1	34.3	140.0	32.5	6.1	32.7	4.4	28.3	5.8	17.3	2.4	14.1	2.2	253.3	942	Lower Saprolite		
RRMDD764	11.17	12.05	0.88	68.7	156.6	20.4	78.1	15.0	3.1	11.5	1.6	11.3	2.1	5.6	0.9	5.4	0.7	62.9	444	Lower Saprolite		
RRMDD764	12.05	13.03	0.98	16.1	24.8	2.6	8.0	1.3	0.3	0.9	0.1	1.1	0.3	0.7	0.1	1.0	0.2	7.1	65	Lower Saprolite		
RRMDD764	13.03	13.62	0.59	61.6	133.9	14.9	50.2	9.8	1.6	6.8	0.9	5.1	1.0	2.9	0.4	2.9	0.5	27.7	320	Lower Saprolite		
RRMDD764	13.62	14.21	0.59	93.0	204.5	22.0	76.7	14.7	2.7	10.6	1.2	7.2	1.5	3.8	0.6	3.4	0.5	40.5	483	Lower Saprolite	10.61	580
RRMDD764	14.21	15.00	0.79	72.8	166.4	18.2	62.9	12.2	2.2	10.2	1.2	6.8	1.2	3.7	0.5	3.3	0.5	43.0	405	Saprock		
RRMDD765	0.00	1.63	1.63	92.9	409.1	15.6	50.2	8.5	1.6	6.3	1.1	6.0	1.1	3.7	0.5	3.8	0.6	31.5	632	Hardcap		
RRMDD765	1.63	3.26	1.63	164.2	1504.8	26.6	83.9	12.8	2.2	8.8	1.5	8.4	1.5	4.7	0.7	5.0	0.7	38.7	1864	Hardcap		
RRMDD765	3.26	3.88	0.62	143.1	266.6	27.3	81.1	14.8	1.9	9.7	1.3	8.6	1.6	4.7	0.8	5.3	0.8	47.0	614	Transition		
RRMDD765	3.88	4.68	0.80	221.7	302.2	49.1	157.5	27.0	4.5	17.2	2.3	13.3	2.4	6.7	1.1	6.2	0.9	73.0	885	Mottled		
RRMDD765	4.68	5.48	0.80	163.0	243.2	37.0	121.3	21.6	4.0	14.8	1.8	11.0	2.0	5.9	0.9	5.5	0.9	66.5	700	Mottled		
RRMDD765	5.48	6.28	0.80	139.0	245.7	35.0	126.0	23.8	4.0	18.6	2.3	13.9	2.5	7.3	1.1	6.6	0.9	80.6	707	Mottled		
RRMDD765	6.28	7.09	0.81	150.1	253.1	36.6	127.1	25.4	4.5	17.9	2.4	13.0	2.2	7.2	1.1	6.6	1.0	81.7	730	Mottled		
RRMDD765	7.09	7.83	0.74	161.3	286.2	44.1	156.9	27.3	4.9	18.7	2.4	13.1	2.0	5.7	0.9	5.1	0.8	64.9	794	Clay		
RRMDD765	7.83	8.56	0.73	108.2	229.7	31.2	119.6	24.6	4.5	17.1	2.3	12.7	2.1	5.6	0.9	5.3	0.8	66.2	631	Clay		
RRMDD765	8.56	9.44	0.88	114.0	254.3	37.0	156.9	28.1	5.2	20.7	2.6	14.9	2.5	6.1	0.9	5.4	0.9	70.2	720	Clay		
RRMDD765	9.44	10.32	0.88	75.9	165.8	19.4	76.4	15.2	2.8	11.9	1.7	9.5	1.8	5.2	0.7	4.6	0.6	55.0	447	Clay		
RRMDD765	10.32	10.95	0.63	82.2	191.0	22.0	85.0	19.3	3.6	15.3	1.9	10.3	1.9	5.1	0.7	4.3	0.6	58.0	501	Upper Saprolite		
RRMDD765	10.95	11.58	0.63	107.4	242.6	27.7	109.2	22.5	3.9	18.2	2.7	15.1	2.5	6.9	0.9	5.6	0.8	73.0	639	Upper Saprolite		
RRMDD765	11.58	12.58	1.00	99.0	208.8	23.9	83.4	19.4	3.5	19.7	3.0	18.7	3.7	11.3	1.7	10.0	1.5	120.8	628	Lower Saprolite		
RRMDD765	12.58	13.58	1.00	84.9	173.8	19.8	69.4	14.7	2.9	12.7	1.8	11.6	2.3	6.9	1.1	5.9	1.0	76.7	486	Lower Saprolite		
RRMDD765	13.58	14.58	1.00	71.0	148.0	15.9	60.5	11.3	2.1	11.9	2.1	13.5	3.1	9.8	1.3	8.9	1.3	119.5	480	Lower Saprolite		
RRMDD765	14.58	15.58	1.00	81.5	169.5	18.8	74.3	14.0	2.4	11.2	1.5	9.1	1.9	5.7	0.8	4.8	0.7	75.9	472	Lower Saprolite		
RRMDD765	15.58	16.58	1.00	66.0	136.4	15.5	61.2	11.6	2.2	9.4	1.4	7.6	1.3	4.0	0.6	3.6	0.5	43.9	365	Lower Saprolite		
RRMDD765	16.58	17.60	1.02	69.4	143.7	15.8	58.8	10.4	2.1	9.0	1.2	7.6	1.4	4.0	0.6	3.9	0.6	46.7	375	Lower Saprolite	13.72	585
RRMDD766	0.00	1.30	1.30	140.7	269.0	26.9	89.1	14.4	2.6	10.3	1.6	9.4	1.8	5.3	0.7	5.3	0.8	51.6	630	Hardcap		
RRMDD766	1.30	2.36	1.06	245.1	606.8	49.2	162.7	24.5	4.1	17.2	2.5	14.1	2.3	6.8	0.9	5.5	0.8	58.0	1201	Hardcap		
RRMDD766	2.36	3.41	1.05	289.7	969.2	56.1	189.5	27.7	4.7	19.9	2.9	16.8	2.8	6.8	1.0	6.1	0.8	67.9	1662	Hardcap		
RRMDD766	3.41	4.11	0.70	93.2	298.5	18.4	62.1	10.4	2.0	8.6	1.3	8.4	1.5	4.6	0.7	4.8	0.7	43.9	559	Transition		
RRMDD766	4.11	4.93	0.82	85.4	138.2	17.6	56.2	9.3	1.4	6.8	1.0	6.1	1.3	4.4	0.7	5.0	0.7	41.5	376	Mottled		
RRMDD766	4.93	5.75	0.82	69.3	129.6	15.4	53.1	8.0	1.6	6.7	1.1	7.1	1.5	4.2	0.8	5.0	0.7	43.7	348	Mottled		
RRMDD766	5.75	6.57	0.82	295.5	570.0	104.1	426.9	69.5	11.1	37.5	4.4	20.0	2.6	6.3	0.8	5.1	0.6	61.0	1616	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
RRMDD766	6.57	7.25	0.68	103.8	184.3	23.5	81.6	14.0	1.9	8.9	1.2	7.6	1.4	4.0	0.6	3.3	0.6	44.4	481	Mottled		
RRMDD766	7.25	8.20	0.95	139.0	294.8	50.5	244.9	48.4	8.8	33.7	4.2	24.2	4.0	10.5	1.4	8.7	1.3	134.0	1008	Clay		
RRMDD766	8.20	9.08	0.88	102.9	193.5	23.7	94.4	22.3	5.3	31.8	5.2	36.2	7.9	26.2	3.4	21.2	3.1	370.8	948	Upper Saprolite		
RRMDD766	9.08	9.96	0.88	93.8	178.7	20.8	81.9	15.1	2.7	12.1	1.8	10.8	2.1	5.6	0.8	5.5	0.9	69.7	502	Upper Saprolite		
RRMDD766	9.96	10.83	0.87	97.3	209.4	23.8	94.8	15.8	2.8	11.8	1.7	10.0	1.9	5.2	0.8	4.2	0.6	57.7	538	Upper Saprolite		
RRMDD766	10.83	11.73	0.90	80.0	162.8	18.5	71.7	14.6	2.5	12.0	1.6	10.4	2.0	6.1	0.8	5.3	0.8	63.5	453	Lower Saprolite		
RRMDD766	11.73	12.63	0.90	86.1	180.6	22.8	94.4	19.6	4.0	18.6	2.8	17.3	3.6	9.6	1.6	9.2	1.2	106.8	578	Lower Saprolite		
RRMDD766	12.63	13.53	0.90	93.5	242.0	42.9	221.0	47.1	9.6	53.0	8.2	57.0	12.1	39.8	5.4	34.7	5.3	527.0	1399	Lower Saprolite		
RRMDD766	13.53	14.43	0.90	71.8	154.8	20.3	93.3	20.4	3.9	22.0	3.2	19.7	4.1	12.5	1.7	10.7	1.5	158.7	599	Lower Saprolite		
RRMDD766	14.43	15.33	0.90	75.5	155.4	18.0	79.0	16.9	3.4	15.2	2.4	14.7	2.9	8.8	1.3	7.4	1.1	104.8	507	Lower Saprolite		
RRMDD766	15.33	16.23	0.90	71.0	152.3	17.3	68.7	13.8	3.0	12.5	1.9	11.6	2.2	6.4	1.0	5.8	0.9	93.3	462	Lower Saprolite		
RRMDD766	16.23	17.13	0.90	71.4	148.6	16.6	63.9	13.1	2.4	9.6	1.4	8.6	1.5	4.5	0.7	3.7	0.5	48.6	395	Lower Saprolite		
RRMDD766	17.13	18.00	0.87	75.8	162.1	17.6	65.3	13.5	2.2	10.2	1.3	7.6	1.6	4.4	0.6	3.8	0.6	46.7	413	Lower Saprolite	**13.89**	**667**
RRMDD767	0.00	1.44	1.44	78.8	136.4	13.7	44.6	8.0	1.3	6.2	1.0	5.8	1.2	3.8	0.6	3.9	0.6	30.2	336	Hardcap		
RRMDD767	1.44	2.87	1.43	86.9	472.9	17.0	55.9	10.1	1.6	7.6	1.4	7.4	1.4	4.6	0.7	4.9	0.7	37.1	710	Hardcap		
RRMDD767	2.87	4.17	1.30	133.7	208.2	25.3	91.9	15.8	2.6	10.9	1.7	10.3	2.0	6.1	1.0	5.9	1.1	58.8	575	Transition		
RRMDD767	4.17	4.97	0.80	181.8	221.7	34.8	114.8	18.2	2.8	12.4	1.6	9.1	1.8	4.6	0.7	5.0	0.7	51.0	661	Mottled		
RRMDD767	4.97	5.77	0.80	173.0	240.8	38.4	136.5	23.3	3.9	14.3	1.7	9.1	1.6	4.5	0.8	4.5	0.7	48.4	701	Clay		
RRMDD767	5.77	6.66	0.89	185.9	262.9	46.8	174.4	28.1	4.5	17.5	2.0	11.6	1.9	5.1	0.7	4.5	0.6	46.9	793	Clay		
RRMDD767	6.66	7.54	0.88	143.1	223.6	38.4	141.1	21.7	3.8	13.8	1.8	9.0	1.7	4.6	0.7	4.0	0.7	41.4	649	Clay		
RRMDD767	7.54	8.49	0.95	130.8	217.4	38.3	156.9	27.6	4.9	20.0	2.8	15.1	2.3	6.3	0.8	4.6	0.8	60.2	689	Upper Saprolite		
RRMDD767	8.49	9.44	0.95	98.7	187.3	26.0	105.7	20.7	3.9	16.9	2.4	13.7	2.1	5.9	0.9	5.1	0.8	60.6	551	Upper Saprolite		
RRMDD767	9.44	10.39	0.95	92.5	172.0	24.2	92.8	17.9	3.5	14.8	2.3	12.2	2.2	6.0	0.8	5.4	0.7	57.7	505	Upper Saprolite		
RRMDD767	10.39	11.32	0.93	76.5	174.4	38.5	311.4	177.4	46.5	363.1	62.5	441.9	94.5	290.4	40.2	228.9	34.5	3758.9	6140	Upper Saprolite		
RRMDD767	11.32	12.22	0.90	91.0	179.3	24.2	104.6	22.8	4.9	24.2	3.8	24.8	4.7	12.8	1.8	11.1	1.6	126.5	638	Lower Saprolite		
RRMDD767	12.22	13.12	0.90	82.2	173.8	22.5	97.3	22.5	5.2	29.4	4.4	28.6	6.7	19.0	2.7	16.5	2.6	262.9	776	Lower Saprolite		
RRMDD767	13.12	14.02	0.90	81.4	174.4	19.9	75.2	14.2	3.0	13.1	1.8	10.9	2.4	6.5	0.9	5.4	0.8	92.6	502	Lower Saprolite	**9.85**	**1163**
RRMDD767	14.02	15.00	0.98	73.3	159.1	17.7	63.8	12.1	2.5	10.4	1.5	9.0	1.8	5.1	0.7	4.3	0.7	60.7	423	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.*	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.
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).*	Core size was HQ triple tube. The core was not oriented (vertical)
Drill sample recovery	• *Method of recording and assessing core and chip sample recoveries and results assessed.* • *Measures taken to maximise sample recovery and ensure representative nature of the samples.* • *Whether a relationship exists between sample recovery and grade and whether sample bias may have occurred due to preferential loss/gain of fine/coarse material.*	Core recovery was calculated by measuring actual core length versus drillers core run lengths. Core recovery ranged from 25% to 100% and averaged 95.6%. Core loss I most common in the hardcap and transition regolith types which are not reported as resource or in exploration results. 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.*	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.

Criteria	JORC Code explanation	Commentary
	• *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.*	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 and laboratory tests	• *The nature, quality and appropriateness of the assaying and laboratory procedures used and whether the technique is considered partial or total.* • *For geophysical tools, spectrometers, handheld XRF instruments, etc, the parameters used in determining the analysis including instrument make and model, reading times, calibrations factors applied and their derivation, etc.* • *Nature of quality control procedures adopted (eg standards, blanks, duplicates, external laboratory checks) and whether acceptable levels of accuracy (ie lack of bias) and precision have been established.*	**Assay and Laboratory Procedures – All Samples** Samples were dispatched by air freight direct to ALS laboratory Perth Australia. The preparation and analysis protocol used is as follows: (see table below)

ALS Code	Description
WEI-21	Received sample weight
LOG-22	Sample Login w/o Barcode
DRY-21	High temperature drying
CRU-21	Crush entire sample
CRU-31	Fine crushing – 70% <2mm
SPL-22Y	Split sample – Boyd Rotary Splitter
PUL-31h	Pulverise 750g to 85% passing 75 micron
CRU-QC	Crushing QC Test
PUL-QC	Pulverising QC test

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

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

Analysis for scandium (Sc) was by Lithium Borate Fusion ICP-AES (ALS code Sc-ICP06).
The sample preparation and assay techniques used are industry standard and provide a total analysis.
All laboratories used are ISO 17025 accredited.

QAQC

Diamond Drill Core Samples

- Analytical Standards

CRM AMIS0275 and AMIS0276 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.

Criteria	JORC Code explanation	Commentary
		The assay results for the standards were consistent with the certified levels of accuracy and precision and no bias is evident. • Blanks CRM blanks AMIS0681 and OREAS22e were included in sample batches at a ratio of 1:25 to drill samples submitted for analysis. This is an acceptable ratio. Both CRM blanks contain some REE, with elements critical elements Ce, Nd, Dy and Y present in small quantities. The analysis results were consistent with the certified values for the blanks. No laboratory contamination or bias is evident from these results. • Duplicates Field duplicate sampling was conducted at a ratio of 1:25 samples. Duplicates were created by lengthways halving the ¼ core primary sample into 2 identical portions. Duplicate samples were allocated separate sample numbers and submitted with the same analytical batch as the primary sample. Variability between duplicate results is considered acceptable and no sampling bias is evident. Laboratory inserted standards, blanks and duplicates were analysed as per industry standard practice. There is no evidence of bias from these results. Laboratory inserted standards, blanks and duplicates were analysed as per industry standard practice. There is no evidence of bias from these results.
Verification of sampling and assaying	• *The verification of significant intersections by either independent or alternative company personnel.* • *The use of twinned holes.* • *Documentation of primary data, data entry procedures, data verification, data storage (physical and electronic) protocols.* • *Discuss any adjustment to assay data.*	No independent verification of significant intersection undertaken. No twinning of diamond core drill holes was undertaken. Sampling protocols for diamond core sampling and QAQC were documented and held on site by the responsible geologist. No procedures for data storage and management have been compiled as yet. Data were collected in the field by hand and entered into Excel spreadsheet. Data are then compiled with assay results compiled and stored in Access database. Data verification is conducted on data entry including hole depths, sample intervals and sample numbers. Sample numbers from assay data are verified by algorithm in spreadsheet prior to entry int the database. Assay data was received in digital format from the laboratory and merged with the sampling data into an Excel spreadsheet format for QAQC analysis and review against field data. Once finalised and validated data is stored in a protected Access database. Data validation of assay data and sampling data have been conducted to ensure data entry is correct. All assay data is received from the laboratory in element form is unadjusted for data entry. Conversion of elemental analysis (REE) to stoichiometric oxide (REO) was undertaken by spreadsheet using defined conversion factors.(Source:https://www.jcu.edu.au/advanced-analytical-centre/services-and-resources/resources-and-extras/element-to-stoichiometric-oxide-conversion-factors)

Element ppm	Conversion Factor	Oxide Form
Ce	1.2284	CeO_2
Dy	1.1477	Dy_2O_3
Er	1.1435	Er_2O_3
Eu	1.1579	Eu_2O_3
Gd	1.1526	Gd_2O_3

Criteria	JORC Code explanation	Commentary
		<table><tr><td>Ho</td><td>1.1455</td><td>Ho_2O_3</td></tr><tr><td>La</td><td>1.1728</td><td>La_2O_3</td></tr><tr><td>Lu</td><td>1.1371</td><td>Lu_2O_3</td></tr><tr><td>Nd</td><td>1.1664</td><td>Nd_2O_3</td></tr><tr><td>Pr</td><td>1.2082</td><td>Pr_6O_{11}</td></tr><tr><td>Sm</td><td>1.1596</td><td>Sm_2O_3</td></tr><tr><td>Tb</td><td>1.1762</td><td>Tb_4O_7</td></tr><tr><td>Tm</td><td>1.1421</td><td>Tm_2O_3</td></tr><tr><td>Y</td><td>1.2699</td><td>Y_2O_3</td></tr><tr><td>Yb</td><td>1.1387</td><td>Yb_2O_3</td></tr><tr><td>Sc</td><td>1.5338</td><td>Sc_2O_3</td></tr></table> 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: 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 were surveyed using handheld GPS. For this type of instrument, the general accuracy in x and y coordinates is + 5m. The elevation component of coordinates is variable and may be low accuracy using this type of device. Datum WGS84 Zone 36 North was used for location data collection and storage. This is the appropriate datum for the project area. No grid transformations were applied to the data.
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.*	RAB reconnaissance drill holes have been drilled on a broad spacing, generally >1km, based on testing radiometric anomalies over a large area
Orientation of data in relation to	• *Whether the orientation of sampling achieves unbiased sampling of possible structures and the extent to which this is known, considering the deposit type.* • *If the relationship between the drilling orientation and the orientation of*	Orientation of potential mineralisation unknown in this area but assumed to be horizontal as seen in the Makuutu deposit

Criteria	JORC Code explanation	Commentary
geological structure	*key mineralised structures is considered to have introduced a sampling bias, this should be assessed and reported if material.*	
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 (2) granted Retention Licences (RL1693 and RL00007), three (3) Exploration Licences (EL1766, EL00147 and EL00148) and one (1) Exploration Licence application TN03573. All granted licences are in good standing with no known impediments. TN03573 is pending grant with all application requirements met. 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. 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.

Criteria	JORC Code explanation	Commentary
		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. 2019-2022: Ionic Rare Earths under agreement with RRM completed 711 core drill holes and processing testwork leading to compilation of a DFS and statement of an ore reserve.
Geology	• *Deposit type, geological setting and style of mineralisation.*	The Makuutu deposit is interpreted to be an ionic adsorption REE clay-type deposits similar to those in South China, Chile, Madagascar and Brazil. The mineralisation is contained within the tropical lateritic weathering profile of a basin filled with sedimentary rocks including shales, mudstones and sandstones potentially derived from the surrounding granitic and mafic rocks. These rocks are considered the original source of the REE which were then accumulated in the sediments (via ionic bonds with the clays) of the basin as the surrounding rocks have degraded. These sediments then form the protolith that was subjected to prolonged tropical weathering. The weathering developed a lateritic regolith with a surface indurated hardcap, followed downward by clay rich zones that grade down through saprolite and saprock to unweathered sediments. The thickness of the regolith is between 10 and 20 metres from surface. The REE mineralisation is concentrated in the weathered profile where it has dissolved from its primary mineral form, such as monazite and xenotime, then ionically bonded (adsorbed) or colloidally bonded on to fine particles of aluminosilicate clays (e.g. kaolinite, illite, smectite). The adsorbed and colloidal REE is the target for extraction and production of REO at Makuutu.

Drill hole Information	• *A summary of all information material to the understanding of the exploration results including a tabulation of the following information for all Material drill holes:*
	  ○ *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 Appendix 1.

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.*	A lower cut-off of 200 ppm TREO-Ce_2O_3 was used for data aggregation of significant intervals with a maximum of 2 metres of internal dilution and no top-cuts applied. This lower cut-off is consistent with the marginal cut-off grade estimated and applied in the resource statements on the Makuutu Project Significant intervals were tabulated downhole for reporting. All individual samples were included in length weighted averaging over the entire tabulated range. No metal equivalents values are used.

Criteria	JORC Code explanation	Commentary
	• *The assumptions used for any reporting of metal equivalent values should be clearly stated.*	
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, true widths are not known.
Diagrams	• *Appropriate maps and sections (with scales) and tabulations of intercepts should be included for any significant discovery being reported These should include, but not be limited to a plan view of drill hole collar locations and appropriate sectional views.*	Refer to diagrams in body of text.
Balanced reporting	• *Where comprehensive reporting of all Exploration Results is not practicable, representative reporting of both low and high grades and/or widths should be practiced to avoid misleading reporting of Exploration Results.*	This report contains all drilling results that are consistent with the JORC guidelines. Where data may have been excluded, it is considered not material.
Other substantive exploration data	• *Other exploration data, if meaningful and material, should be reported including (but not limited to): geological observations; geophysical survey results; geochemical survey results; bulk samples – size and method of treatment; metallurgical test results; bulk density, groundwater, geotechnical and rock characteristics; potential deleterious or contaminating substances.*	Metallurgical leach testing was previously conducted on samples derived from exploration pits, RAB drilling, and one 8.5 tonne bulk pit sample. In 2012, 5 pit samples were sent to the Toronto Aqueous Research Laboratory at the University of Toronto for leachability tests In 2017, 2 pit samples were sent to SGS Laboratory Toronto for leachability tests. 2017/18, 29 samples were collected from 7 RAB drill holes. 20 of these were consigned to SGS Canada and 4 to Aqueous Process Research (APR) in Ontario Canada. The remaining 5 samples were consigned to Bio Lantanidos in Chile. 2018/19, 8.5 tonne bulk sample was consigned to Mintek, South Africa, to evaluate using Resin-in-leach (RIL) technology for the recovery of REE. 2019: 118 samples from 31 holes from the 2019 diamond drilling program had preliminary variation testwork conducted TREE-Ce extraction ranged from 3% to 75%. 2020: Testing of composite samples with lower extractions from the 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 2021-2023 extensive metallurgical testwork..
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 include demonstration plant testwork