ionic
rare earths

ASX Announcement

21 February 2024

MAKUUTU PHASE 5 INFILL TRANCHE 3 DRILL ASSAY RESULTS

- **Clay hosted rare earth intersections achieved in all 52 infill core drill holes received from Retention Licence (RL) 00007 (Makuutu Western Zone), including;**
  - **4.4 metres at 1,412 ppm TREO from 1.2 metres in RRMDD789**
  - **8.1 metres at 1,261 ppm TREO from 3.7 metres in RRMDD822**
  - **3.9 metres at 1,077 ppm TREO from 2.3 metres in RRMDD831**
  - **10.2 metres at 991 ppm TREO from 1.7 metres in RRMDD818**
  - **5.6 metres at 997 ppm TREO from 4.3 metres in RRMDD790**
  - **9.5 metres at 824 ppm TREO from 1.1 metres in RRMDD825**
  - **14.6 metres at 812 ppm TREO from 3.7 metres in RRMDD834**
- **Data from Phase 5 infill drilling program to be applied to update the Makuutu Mineral Resource Estimate (MRE) on RL00007 expected by the end of Q1 2024; 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 the receipt of the Tranche 3 drill results from the Phase 5 resource infill and extension drilling at its Makuutu Heavy Rare Earths Project ("Makuutu" or "the Project") in Uganda. The results reported are for 52 core drillholes drilled as infill and extension holes to Area A, located within Retention Licence (RL) 00007, of the current Makuutu 2022 Mineral Resource Estimate (MRE) (ASX: 3 May 2022, see Table 4).

The Company is progressing the development at the Makuutu Heavy Rare Earths Project through local Ugandan operating entity Rwenzori Rare Metals Limited ("RRM"). IonicRE currently owns 60% and has agreed terms with partners in RRM on moving to 94% ownership which is expected to occur in H1 2024.

Assay results for all 128-holes of the Phase 5 resource infill and extension drilling program completed on RL00007 have now 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 MRE and

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exploration target areas with MRE Areas A and B located on the western end of the deposit located within RL00007.

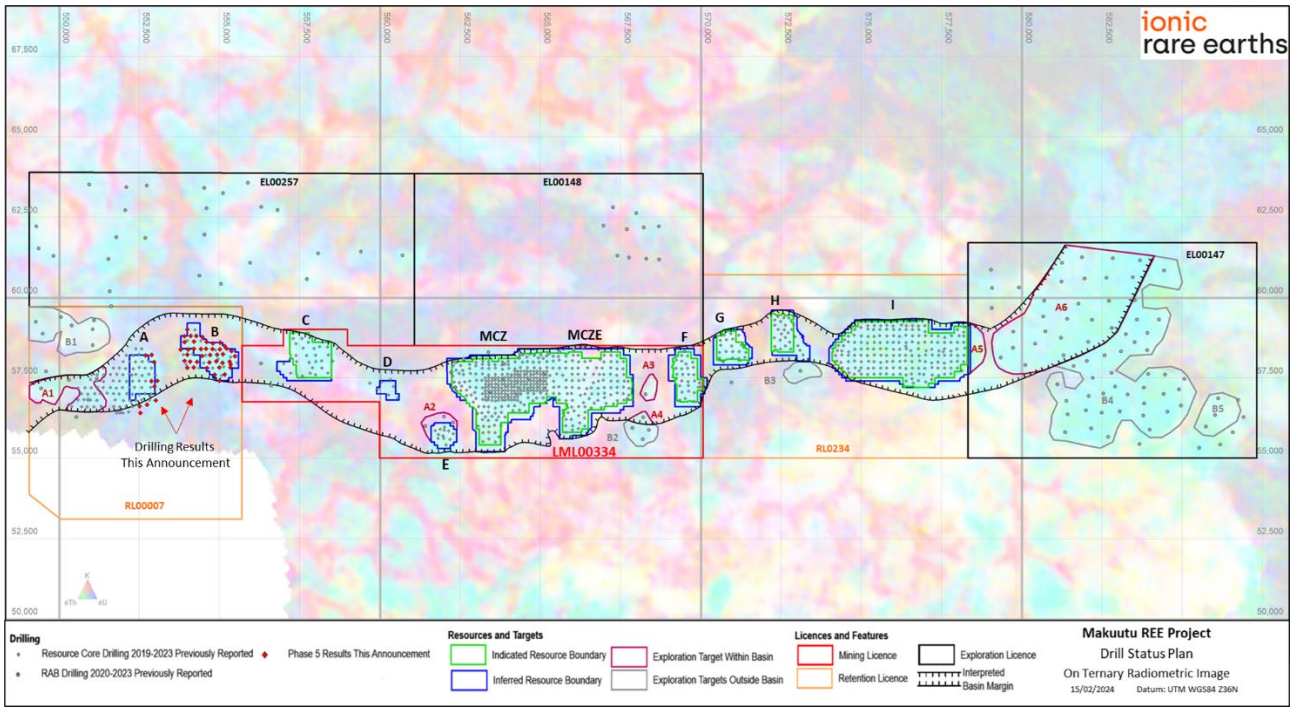

Figure 1: Makuutu project drill status plan showing location of infill and extension drilling results on licence RL00007, MRE Areas A and B.

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.

Drilling was on a 200-metre spaced pattern with six (6) of the drill holes being extensions to MRE Area A, five (5) are MRE Area A infill holes, eight (8) are MRE Area B extension holes and the remaining thirty-three (33) holes are MRE Area B 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 previously reported drill holes in italic hole numbers. Previously reported regional exploration RAB drill holes are also shown (round points).

The drilling data will now be applied to an update of the MRE which is anticipated to be completed by the end of Q1 CY2024.

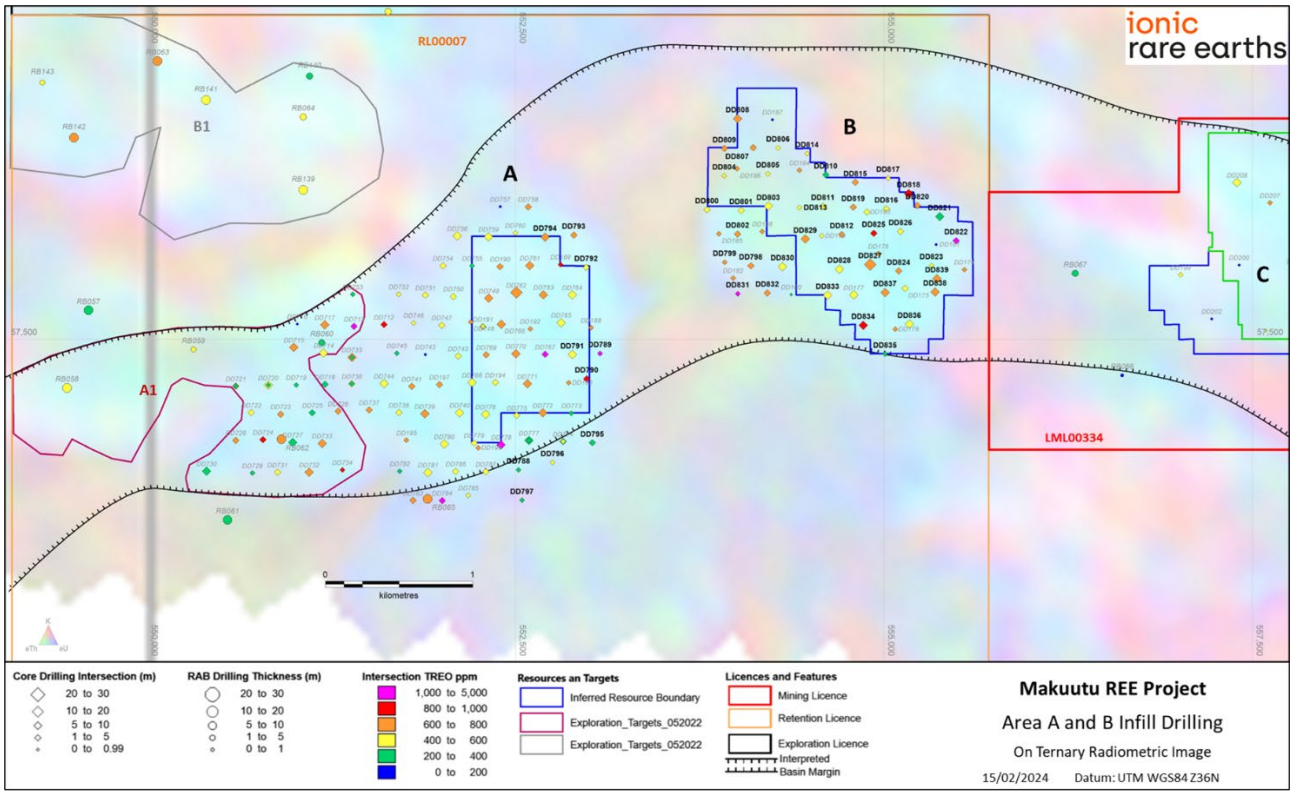

Figure 2: Drilling results Phase 5 resource infill and extension on RL00007. Results this announcement black hole number annotation.

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
RRMDD788	5.8	2.1	317	228	93	119	Extension Area A
RRMDD789	1.2	4.4	1413	1089	453	600	Extension Area A
RRMDD790	4.3	5.6	977	731	303	399	Infill Area A
RRMDD791	3.7	14.6	566	380	151	200	Infill Area A
RRMDD792	3.6	9.1	567	389	178	222	Infill Area A
RRMDD793	4.5	6.5	776	543	219	281	Extension Area A
RRMDD794	4.2	14.7	792	553	224	290	Infill Area A
RRMDD795	5.2	8.3	339	252	93	125	Extension Area A
RRMDD796 and	3.4 13.2	2.8 1.8	405 585	249 477	98 142	123 213	Extension Area A
RRMDD797 and	0.7 6.5	2.3 1.9	287 355	211 257	79 68	106 115	Extension Area A
RRMDD798	4.4	9.1	673	440	150	218	Extension Area B
RRMDD799	3.0	3.2	671	472	157	237	Extension Area B
RRMDD800	6.0	8.3	558	424	167	223	Extension Area B
RRMDD801 and	5.8 17.2	8.1 3.0	497 603	335 378	117 140	154 187	Extension Area B
RRMDD802	4.8	8.0	622	423	180	224	Extension Area B

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RRMDD803	6.4	14.0	431	288	108	147	Infill Area B
RRMDD804	4.3	3.0	445	307	107	141	Infill Area B
and	13.1	1.8	671	416	144	209	
RRMDD805	5.1	4.8	427	346	140	180	Infill Area B
and	13.2	4.0	294	209	76	107	
RRMDD806	3.5	1.2	454	263	102	132	Infill Area B
and	7.7	4.8	455	354	136	188	
RRMDD807	3.7	5.8	672	526	199	277	Infill Area B
RRMDD808	3.1	10.4	773	554	248	308	Infill Area B
RRMDD809	5.3	5.3	744	567	204	286	Infill Area B
RRMDD810	4.5	6.6	389	269	98	134	Infill Area B
RRMDD811	4.3	6.3	517	365	133	179	Infill Area B
and	13.7	2.8	561	407	172	226	
RRMDD812	2.4	8.2	677	504	219	275	Infill Area B
and	14.1	3.7	485	298	105	154	
RRMDD813	15.4	1.7	480	357	118	170	Infill Area B
RRMDD814	4.4	4.7	452	341	127	176	Infill Area B
RRMDD815	4.3	7.5	644	524	233	298	Infill Area B
RRMDD816	4.9	6.8	452	321	125	161	Infill Area B
and	15.1	1.9	477	303	110	156	
RRMDD817	3.2	1.9	332	244	93	121	Infill Area B
and	12.5	1.6	527	365	125	182	
RRMDD818	1.7	10.2	991	809	342	438	Infill Area B
RRMDD819	2.4	7.0	635	480	208	262	Infill Area B
RRMDD820	2.9	2.7	433	225	88	115	Infill Area B
and	7.8	6.4	654	504	205	271	
RRMDD821	3.2	10.7	365	295	119	154	Infill Area B
RRMDD822	3.7	8.1	1261	912	333	471	Infill Area B
RRMDD823	5.8	1.2	394	253	96	127	Infill Area B
and	15.9	4.0	562	356	125	178	
RRMDD824	3.4	6.6	738	559	244	313	Infill Area B
and	14.1	4.5	440	282	104	146	
RRMDD825	1.1	9.5	824	606	247	325	Infill Area B
RRMDD826	2.7	6.1	472	331	131	169	Infill Area B
and	12.7	1.8	393	285	118	154	
and	18.2	2.4	497	301	104	151	
RRMDD827	3.8	21.4	693	506	232	288	Infill Area B
RRMDD828	3.8	2.7	536	294	95	135	Infill Area B
and	9.5	10.0	564	387	174	215	
RRMDD829	4.9	1.9	358	247	85	114	Infill Area B
and	13.3	11.6	637	425	146	207	
RRMDD830	2.5	17.8	509	361	171	200	Extension Area B
RRMDD831	2.3	3.9	1077	728	272	361	Extension Area B
RRMDD832	4.9	7.0	791	627	342	375	Extension Area B
RRMDD833	4.2	11.9	581	422	203	241	Infill Area B
RRMDD834	3.7	14.6	812	596	288	342	Infill Area B
RRMDD835	6.4	4.8	378	279	111	140	Infill Area B
RRMDD836	3.8	10.5	526	397	182	228	Infill Area B
RRMDD837	4.5	10.2	649	411	112	189	Infill Area B
RRMDD838	5.1	12.9	637	472	186	248	Infill Area B
RRMDD839	3.1	13.9	618	483	189	255	Infill Area B

Authorised for release by the Board.

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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.

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.

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, moving to 94% ownership in H1 2024, is well-supported by existing tier-one infrastructure and is on track to become a long-life, low Capex, scalable and sustainable supplier of high-value magnet and heavy 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 mining licence which was awarded in January 2024. 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.

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 three-pillar strategy completes the circular economy of sustainable and traceable magnet and heavy rare earth products needed to supply applications critical to electric vehicles, 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.

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 3 May 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
RRMDD788	552519	56613	1140	DD	27.0	000	-90
RRMDD789	553073	57404	1138	DD	7.0	000	-90
RRMDD790	552982	57231	1143	DD	12.0	000	-90
RRMDD791	552884	57396	1146	DD	21.3	000	-90
RRMDD792	552978	57989	1137	DD	15.0	000	-90
RRMDD793	552896	58208	1136	DD	13.5	000	-90
RRMDD794	552699	58194	1142	DD	29.5	000	-90
RRMDD795	553020	56797	1147	DD	18.4	000	-90
RRMDD796	552751	56664	1150	DD	21.0	000	-90
RRMDD797	552543	56407	1141	DD	12.0	000	-90
RRMDD798	554096	57999	1145	DD	16.0	000	-90
RRMDD799	553919	58023	1140	DD	10.5	000	-90
RRMDD800	553799	58381	1138	DD	15.3	000	-90
RRMDD801	554030	58375	1143	DD	21.0	000	-90

RRMDD802	554005	58215	1143	DD	14.3	000	-90
RRMDD803	554215	58404	1145	DD	23.0	000	-90
RRMDD804	553915	58611	1139	DD	17.0	000	-90
RRMDD805	554211	58624	1143	DD	19.5	000	-90
RRMDD806	554282	58800	1139	DD	15.3	000	-90
RRMDD807	554113	58802	1140	DD	12.5	000	-90
RRMDD808	554006	58999	1137	DD	15.3	000	-90
RRMDD809	553918	58796	1138	DD	15.0	000	-90
RRMDD810	554605	58617	1139	DD	15.0	000	-90
RRMDD811	554586	58403	1145	DD	18.3	000	-90
RRMDD812	554712	58212	1149	DD	22.1	000	-90
RRMDD813	554425	58394	1146	DD	20.0	000	-90
RRMDD814	554478	58762	1137	DD	12.7	000	-90
RRMDD815	554805	58566	1139	DD	17.5	000	-90
RRMDD816	555016	58386	1143	DD	18.3	000	-90
RRMDD817	555028	58594	1138	DD	18.3	000	-90
RRMDD818	555166	58491	1139	DD	13.5	000	-90
RRMDD819	554791	58397	1144	DD	18.8	000	-90
RRMDD820	555227	58408	1141	DD	14.7	000	-90
RRMDD821	555377	58333	1139	DD	15.3	000	-90
RRMDD822	555490	58170	1140	DD	18.0	000	-90
RRMDD823	555321	58001	1145	DD	21.2	000	-90
RRMDD824	555100	57964	1150	DD	19.7	000	-90
RRMDD825	554931	58221	1148	DD	21.0	000	-90
RRMDD826	555112	58233	1146	DD	22.0	000	-90
RRMDD827	554906	58007	1152	DD	25.5	000	-90
RRMDD828	554696	57976	1155	DD	19.5	000	-90
RRMDD829	554465	58181	1149	DD	25.5	000	-90
RRMDD830	554310	57994	1150	DD	23.2	000	-90
RRMDD831	554007	57810	1142	DD	12.2	000	-90
RRMDD832	554208	57815	1149	DD	15.4	000	-90
RRMDD833	554617	57799	1156	DD	20.0	000	-90
RRMDD834	554859	57595	1159	DD	23.0	000	-90
RRMDD835	555008	57400	1159	DD	15.0	000	-90
RRMDD836	555172	57603	1150	DD	19.5	000	-90
RRMDD837	555007	57818	1152	DD	16.6	000	-90
RRMDD838	555346	57822	1145	DD	18.0	000	-90
RRMDD839	555359	57912	1145	DD	18.0	000	-90

Appendix 2: RAB Drilling Analytical Results RRMDD788 to RRMDD839 including highlighted Intersections >200 ppm TREO-CeO_2.
(Note: Rounding will cause minor value differences)
NS=No Sample

																				>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
RRMDD788	0.00	1.98	1.98	71.4	415.2	14.8	47.8	9.0	1.6	7.1	1.2	7.1	1.4	4.4	0.6	3.8	0.7	40.8	627	Hardcap		
RRMDD788	1.98	3.95	1.97	105.4	476.6	22.3	72.4	12.9	2.4	10.5	1.8	11.6	2.1	6.8	0.7	6.7	1.0	58.3	792	Hardcap		
RRMDD788	3.95	4.86	0.91	49.7	91.3	11.4	41.1	8.4	1.8	7.1	1.1	6.9	1.5	4.5	0.7	4.5	0.6	42.9	273	Clay		
RRMDD788	4.86	5.77	0.91	39.1	35.6	9.3	35.7	6.8	1.4	5.9	0.9	6.0	1.2	3.9	0.6	3.9	0.5	37.6	188	Clay		
RRMDD788	5.77	6.69	0.92	62.3	88.1	15.6	56.2	10.1	2.0	8.7	1.3	8.5	1.6	5.1	0.6	5.1	0.7	51.9	318	Clay		
RRMDD788	6.69	7.87	1.18	62.5	89.1	14.7	57.7	10.1	1.9	8.6	1.3	8.0	1.6	4.7	0.5	4.5	0.7	49.8	316	Clay	**2.1**	**317**
RRMDD788	7.87	8.65	0.78	35.3	49.3	9.5	37.8	7.4	1.3	5.8	0.9	5.8	1.1	3.4	0.5	3.3	0.5	36.4	198	Clay		
RRMDD788	8.65	9.63	0.98	31.7	56.3	8.1	33.1	6.2	1.3	4.9	0.8	4.8	1.0	3.1	0.5	3.0	0.4	30.9	186	Clay		
RRMDD788	9.63	10.61	0.98	26.9	27.1	6.5	25.1	4.9	1.0	4.2	0.6	3.7	0.8	2.5	0.4	2.3	0.4	23.9	130	Clay		
RRMDD788	10.61	11.59	0.98	36.2	68.8	9.5	35.5	6.1	1.4	4.5	0.7	4.3	0.9	2.5	0.4	2.7	0.3	25.7	200	Clay		
RRMDD788	11.59	12.57	0.98	26.0	71.0	6.8	27.1	5.2	1.1	4.2	0.6	3.5	0.8	2.3	0.5	2.4	0.3	22.9	175	Clay		
RRMDD788	12.57	13.39	0.82	17.9	35.1	4.5	18.0	3.8	0.8	2.9	0.4	3.0	0.7	1.9	0.4	1.9	0.3	18.8	111	Upper Saprolite		
RRMDD788	13.39	14.21	0.82	20.2	74.8	5.3	20.9	4.0	1.0	3.8	0.6	3.5	0.8	2.7	0.5	2.6	0.3	24.3	165	Upper Saprolite		
RRMDD788	14.21	15.03	0.82	23.0	35.1	5.5	19.9	3.9	0.8	3.8	0.6	3.9	0.7	2.7	0.5	2.5	0.4	26.3	130	Upper Saprolite		
RRMDD788	15.03	15.85	0.82	22.3	57.4	5.2	20.8	4.0	1.0	3.8	0.6	3.9	0.7	2.5	0.5	2.5	0.3	25.7	151	Upper Saprolite		
RRMDD788	15.85	16.68	0.83	40.2	50.5	11.6	43.9	8.0	1.6	6.2	0.9	4.5	1.0	3.0	0.4	2.7	0.4	30.1	205	Upper Saprolite		
RRMDD788	16.68	17.63	0.95	43.6	96.4	11.4	42.9	8.3	1.9	6.2	1.0	5.2	1.0	2.7	0.4	2.5	0.4	27.6	251	Upper Saprolite		
RRMDD788	17.63	18.58	0.95	31.1	53.7	8.0	30.1	5.4	1.2	4.5	0.6	3.7	0.7	1.9	0.4	2.1	0.3	21.1	165	Upper Saprolite		
RRMDD788	18.58	19.53	0.95	17.8	88.3	4.3	16.7	3.2	0.6	2.5	0.3	2.2	0.6	1.7	0.4	1.7	0.3	17.8	158	Upper Saprolite		
RRMDD788	19.53	20.48	0.95	22.5	46.9	5.7	22.0	3.4	0.8	2.8	0.4	2.3	0.5	1.7	0.4	1.7	0.2	17.3	129	Upper Saprolite		
RRMDD788	20.48	21.45	0.97	17.4	45.9	4.0	15.5	2.7	0.6	2.2	0.3	2.1	0.4	1.4	0.5	1.3	0.2	14.2	109	Upper Saprolite		
RRMDD788	21.45	22.50	1.05	34.5	67.8	9.0	34.2	6.2	1.6	5.5	0.8	4.9	0.9	2.8	0.4	2.4	0.3	32.6	204	Lower Saprolite		
RRMDD788	22.50	23.55	1.05	32.0	64.4	7.9	29.3	5.2	1.3	4.3	0.6	3.6	0.7	2.1	0.5	1.7	0.4	21.8	176	Lower Saprolite		
RRMDD788	23.55	24.13	0.58	28.0	62.0	7.5	30.9	5.6	1.4	5.3	0.8	4.7	1.0	2.5	0.4	2.3	0.3	27.0	180	Lower Saprolite		
RRMDD788	24.13	24.70	0.57	37.9	104.7	11.6	54.6	13.5	3.7	13.7	2.2	13.1	2.6	7.0	0.5	5.9	0.9	71.0	343	Lower Saprolite		
RRMDD788	24.70	25.85	1.15	30.8	69.7	8.2	32.7	6.7	1.6	6.0	0.9	5.4	1.1	2.8	0.4	2.7	0.4	29.7	199	Saprock		
RRMDD788	25.85	27.00	1.15	31.1	63.5	7.4	27.9	5.3	1.2	4.5	0.6	3.5	0.8	2.1	0.5	1.8	0.3	22.9	173	Saprock		
RRMDD789	0.00	1.16	1.16	85.8	124.7	15.5	49.5	7.6	1.2	6.0	0.9	5.4	1.0	3.1	0.6	2.7	0.4	27.0	331	Hardcap		
RRMDD789	1.16	1.94	0.78	83.2	106.7	20.8	77.1	15.1	2.6	11.8	1.7	12.2	2.2	7.0	0.7	5.9	0.9	74.0	422	Clay		
RRMDD789	1.94	2.47	0.53	1278.4	1246.8	339.5	1341.4	229.0	40.6	189.0	24.8	138.3	23.8	66.3	0.6	46.1	6.3	807.7	5779	Upper Saprolite		
RRMDD789	2.47	3.49	1.02	196.4	346.4	60.5	256.6	47.4	9.1	45.4	6.5	40.3	8.1	22.4	0.6	16.7	2.5	278.1	1337	Upper Saprolite		
RRMDD789	3.49	4.50	1.01	180.0	196.5	45.7	193.0	38.0	7.6	45.2	6.6	39.5	8.3	22.6	0.7	16.3	2.5	301.0	1103	Upper Saprolite		
RRMDD789	4.50	5.56	1.06	66.5	122.1	14.1	51.4	9.1	1.9	7.6	1.1	6.4	1.2	3.2	0.5	2.8	0.4	38.9	327	Lower Saprolite	**4.4**	**1413**
RRMDD789	5.56	7.00	1.44	69.9	149.3	17.2	67.9	13.5	2.8	12.4	1.9	11.3	2.2	5.5	0.6	4.3	0.6	63.7	423	Saprock		
RRMDD790	0.00	1.44	1.44	67.9	547.9	12.9	41.6	7.1	1.2	5.8	0.9	5.8	1.1	3.4	0.5	3.0	0.5	30.7	730	Hardcap		
RRMDD790	1.44	2.88	1.44	108.1	921.3	18.5	60.0	10.0	1.6	7.3	1.2	7.2	1.2	3.8	0.6	3.6	0.6	34.8	1180	Hardcap		
RRMDD790	2.88	4.33	1.45	132.5	719.8	24.5	81.8	12.5	2.4	9.7	1.6	8.4	1.7	4.6	0.6	4.0	0.7	37.3	1042	Hardcap		
RRMDD790	4.33	5.25	0.92	588.7	659.7	126.9	470.1	73.8	14.5	56.8	7.5	35.5	5.9	12.5	0.9	6.6	1.4	123.2	2184	Clay		
RRMDD790	5.25	6.17	0.92	190.6	226.6	52.7	203.0	35.9	6.7	27.1	4.2	21.4	4.2	10.9	0.8	7.4	1.2	115.7	908	Clay		
RRMDD790	6.17	6.77	0.60	134.9	216.8	55.3	234.4	49.7	9.6	36.0	5.3	28.8	5.2	14.3	0.7	9.9	1.3	163.8	966	Upper Saprolite		
RRMDD790	6.77	7.36	0.59	101.0	172.6	38.1	180.2	38.4	8.7	39.9	6.3	36.8	7.6	20.1	0.6	13.7	2.1	222.9	889	Lower Saprolite		
RRMDD790	7.36	8.21	0.85	94.3	146.2	29.8	143.5	33.5	7.7	47.5	7.8	48.9	10.8	28.7	0.5	19.2	3.0	374.6	996	Lower Saprolite		
RRMDD790	8.21	9.06	0.85	49.8	110.8	15.9	73.5	17.2	3.8	19.1	2.7	15.8	3.0	7.7	0.6	5.1	1.0	113.5	440	Lower Saprolite		
RRMDD790	9.06	9.90	0.84	49.5	121.1	12.6	52.0	11.3	2.8	10.3	1.6	8.2	1.5	3.8	0.6	2.6	0.3	44.7	323	Lower Saprolite	**5.6**	**977**
RRMDD790	9.90	10.95	1.05	56.3	120.9	13.5	49.6	10.3	2.0	8.8	1.3	6.9	1.2	3.5	0.7	2.7	0.4	39.4	317	Saprock		
RRMDD790	10.95	12.00	1.05	48.7	119.8	12.6	49.1	10.1	2.3	9.6	1.4	8.8	1.4	4.0	0.7	3.2	0.5	41.7	314	Saprock		

																				>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
RRMDD791	0.00	1.50	1.50	85.5	164.6	16.5	55.5	8.9	1.7	7.6	1.3	7.6	1.4	4.0	0.6	3.8	0.6	40.5	400	Hardcap		
RRMDD791	1.50	3.00	1.50	120.8	678.1	23.3	79.3	12.6	2.1	8.9	1.4	8.8	1.5	4.4	0.6	4.5	0.6	43.8	991	Hardcap		
RRMDD791	3.00	3.70	0.70	157.7	187.3	28.9	96.0	14.9	2.5	10.8	1.6	8.3	1.8	4.8	0.9	4.4	0.7	48.9	570	Transition		
RRMDD791	3.70	4.54	0.84	169.5	208.2	36.7	128.9	19.8	3.4	13.2	1.7	9.2	1.7	4.6	1.1	3.7	0.6	42.8	645	Clay		
RRMDD791	4.54	5.38	0.84	156.0	212.5	36.6	130.1	22.3	3.9	14.1	2.1	10.6	1.9	4.8	1.1	4.0	0.7	46.6	647	Clay		
RRMDD791	5.38	6.21	0.83	167.1	240.2	44.5	170.9	28.9	5.3	19.3	2.7	13.7	2.2	5.8	1.1	4.4	0.7	53.8	761	Clay		
RRMDD791	6.21	7.17	0.96	123.7	207.0	34.1	137.1	24.9	4.7	18.6	2.7	14.5	2.6	6.7	1.1	5.7	0.8	62.1	646	Clay		
RRMDD791	7.17	8.13	0.96	93.0	186.7	26.1	112.3	22.9	4.7	22.3	3.4	19.2	3.8	10.1	0.9	7.7	1.3	91.4	606	Clay		
RRMDD791	8.13	9.09	0.96	123.7	229.1	44.1	204.1	37.7	7.0	27.9	4.1	21.6	4.1	10.1	0.9	7.6	1.3	98.0	821	Clay		
RRMDD791	9.09	10.05	0.96	97.3	194.7	27.7	128.3	25.6	5.4	23.5	3.6	20.9	4.2	11.0	0.8	9.6	1.5	101.5	656	Clay		
RRMDD791	10.05	10.94	0.89	78.7	162.1	20.7	80.6	19.7	4.5	25.6	4.5	28.0	6.2	17.9	0.8	18.5	2.5	185.4	656	Upper Saprolite		
RRMDD791	10.94	11.83	0.89	79.2	174.4	20.8	89.9	21.0	4.6	25.9	4.2	27.2	6.0	18.5	0.7	14.5	2.3	207.6	697	Upper Saprolite		
RRMDD791	11.83	12.72	0.89	77.4	167.1	18.1	72.2	13.0	2.6	12.4	1.7	9.9	2.3	6.5	0.7	4.9	0.8	84.8	474	Upper Saprolite		
RRMDD791	12.72	13.61	0.89	72.2	154.2	16.8	62.6	11.7	2.2	9.8	1.5	8.6	1.8	5.3	0.7	4.2	0.7	59.6	412	Upper Saprolite		
RRMDD791	13.61	14.50	0.89	78.9	165.8	17.9	65.4	11.6	2.1	8.9	1.2	7.0	1.4	3.9	0.7	3.2	0.5	42.2	411	Upper Saprolite		
RRMDD791	14.50	15.40	0.90	72.7	165.2	17.9	63.0	11.6	1.9	8.5	1.3	6.9	1.3	4.0	0.5	3.6	0.5	45.7	405	Upper Saprolite		
RRMDD791	15.40	16.37	0.97	76.1	160.9	17.4	65.9	11.2	1.8	9.2	1.3	7.6	1.4	3.9	0.5	3.2	0.5	42.7	404	Lower Saprolite		
RRMDD791	16.37	17.34	0.97	82.8	173.8	18.7	69.2	12.8	2.2	9.4	1.5	7.4	1.5	4.4	0.6	2.8	0.7	37.1	425	Lower Saprolite		
RRMDD791	17.34	18.30	0.96	82.7	173.8	19.0	70.0	11.9	1.8	8.4	1.2	6.4	1.3	3.4	0.6	2.8	0.5	36.3	420	Lower Saprolite	**14.6**	**566**
RRMDD791	18.30	19.80	1.50	77.3	163.4	17.3	60.4	9.9	1.7	7.6	1.1	5.8	1.1	3.1	0.6	2.8	0.4	35.6	388	Saprock		
RRMDD791	19.80	21.30	1.50	76.0	159.7	17.0	61.7	10.7	1.9	8.4	1.3	7.4	1.5	4.5	0.6	4.7	0.9	46.4	403	Saprock		
RRMDD792	0.00	1.13	1.13	65.7	209.4	12.0	42.7	7.6	1.3	6.0	1.0	6.2	1.2	3.8	0.7	3.7	0.6	35.0	397	Hardcap		
RRMDD792	1.13	2.25	1.12	77.1	1283.7	15.7	52.8	9.3	1.4	7.0	1.2	6.8	1.4	4.2	0.6	4.2	0.7	38.4	1505	Hardcap		
RRMDD792	2.25	3.62	1.37	77.4	339.0	15.9	55.3	10.6	1.9	7.7	1.4	7.8	1.7	5.0	0.7	5.0	0.8	42.8	573	Transition		
RRMDD792	3.62	4.39	0.77	164.8	256.7	34.2	109.1	17.0	3.0	13.7	2.1	12.6	2.4	7.1	0.8	7.3	1.0	77.1	709	Mottled		
RRMDD792	4.39	5.38	0.99	142.5	273.9	42.8	155.7	25.9	4.7	21.2	3.2	18.8	3.6	10.8	0.7	9.0	1.3	117.6	832	Clay		
RRMDD792	5.38	6.37	0.99	82.1	218.0	29.8	134.1	27.5	4.9	21.3	3.3	17.4	3.6	10.5	0.7	9.3	1.2	118.2	682	Clay		
RRMDD792	6.37	6.94	0.57	114.0	275.2	51.5	234.4	48.8	8.7	37.3	5.3	28.5	5.0	14.0	0.7	12.0	1.7	138.4	976	Upper Saprolite		
RRMDD792	6.94	7.50	0.56	95.2	192.9	28.9	119.0	21.0	4.2	18.7	2.6	16.2	3.0	9.0	0.7	7.8	1.0	92.4	612	Upper Saprolite		
RRMDD792	7.50	8.52	1.02	79.5	180.6	26.9	126.6	30.8	6.3	33.7	5.0	31.0	6.0	17.3	0.7	15.1	2.0	189.2	751	Lower Saprolite		
RRMDD792	8.52	9.54	1.02	69.8	170.7	22.4	94.6	19.9	4.1	22.5	3.2	20.3	4.0	12.6	0.7	10.4	1.6	169.5	626	Lower Saprolite		
RRMDD792	9.54	10.57	1.03	49.1	124.1	15.8	62.8	11.5	2.3	9.1	1.2	7.3	1.4	4.6	0.6	4.5	0.7	40.4	335	Lower Saprolite		
RRMDD792	10.57	11.42	0.85	10.7	19.9	2.2	8.4	1.6	0.3	1.2	0.2	1.2	0.3	0.8	0.3	1.2	0.2	7.6	56	Lower Saprolite		
RRMDD792	11.42	12.07	0.65	52.3	114.9	13.1	47.2	10.0	1.9	7.6	1.0	6.1	1.2	3.2	0.6	4.0	0.6	26.9	291	Lower Saprolite		
RRMDD792	12.07	12.71	0.64	59.7	137.0	15.1	57.3	11.4	2.1	8.7	1.3	7.3	1.5	4.3	0.7	4.7	0.6	39.0	351	Lower Saprolite	**9.1**	**567**
RRMDD792	12.71	13.16	0.45	88.5	206.4	22.0	79.8	14.7	2.7	12.9	1.7	9.8	1.8	5.5	0.7	4.9	0.7	60.2	512	Saprock		
RRMDD792	13.16	15.00	1.84	56.8	129.6	14.1	49.8	8.4	1.7	7.3	0.9	5.7	1.1	3.0	0.5	2.9	0.4	34.2	316	Saprock		
RRMDD793	0.00	1.19	1.19	81.2	750.6	12.7	39.8	6.8	1.2	5.5	0.9	5.1	1.0	3.1	0.5	3.1	0.5	28.6	940	Hardcap		
RRMDD793	1.19	2.37	1.18	52.0	1523.2	10.1	32.3	5.7	1.0	4.2	0.9	5.3	1.0	3.2	0.5	3.2	0.5	26.9	1670	Hardcap		
RRMDD793	2.37	3.00	0.63	56.6	240.2	9.9	31.0	5.8	0.8	4.8	0.8	4.7	0.9	2.8	0.7	3.3	0.5	25.0	388	Transition		
RRMDD793	3.00	3.77	0.77	40.2	60.7	8.6	29.9	5.9	0.9	4.7	0.8	5.8	1.2	3.8	0.9	4.2	0.6	35.7	204	Mottled		
RRMDD793	3.77	4.54	0.77	40.2	57.6	8.8	32.9	6.5	1.2	5.6	1.0	6.5	1.3	3.9	0.8	4.3	0.7	38.1	209	Mottled		
RRMDD793	4.54	5.35	0.81	79.5	106.6	15.6	52.8	9.0	1.6	7.6	1.2	7.3	1.4	4.7	0.8	4.7	0.6	43.7	337	Clay		
RRMDD793	5.35	6.16	0.81	155.4	195.9	30.2	97.0	15.9	2.8	11.7	1.8	10.7	2.0	5.9	0.8	5.4	0.8	58.5	595	Clay		
RRMDD793	6.16	6.97	0.81	190.6	267.8	44.5	152.8	26.0	4.6	18.6	2.7	15.3	2.7	7.1	0.7	6.4	0.8	73.1	814	Clay		
RRMDD793	6.97	7.78	0.81	197.6	361.1	66.2	247.3	45.0	7.9	32.3	4.4	24.0	4.0	10.8	0.8	9.1	1.1	100.2	1112	Clay		
RRMDD793	7.78	8.43	0.65	119.0	173.8	26.3	97.3	16.9	3.4	16.2	2.5	14.4	2.6	7.7	0.8	6.8	0.9	75.8	564	Clay		
RRMDD793	8.43	9.08	0.65	95.9	152.9	19.9	70.6	11.9	2.4	11.1	1.6	9.5	1.8	5.4	0.7	4.9	0.7	52.6	442	Clay		
RRMDD793	9.08	9.98	0.90	148.4	259.2	39.3	150.5	26.3	5.6	31.5	4.7	30.9	6.6	18.8	0.7	15.1	2.1	242.6	982	Upper Saprolite		
RRMDD793	9.98	11.00	1.02	233.4	297.3	40.8	154.5	26.8	5.3	34.7	4.9	30.3	6.5	18.0	0.9	14.5	2.1	267.9	1138	Lower Saprolite	**6.5**	**776**
RRMDD793	11.00	12.25	1.25	84.3	182.4	20.5	73.2	13.0	2.2	11.0	1.5	8.7	1.9	5.9	0.8	5.4	0.7	61.2	473	Saprock		

																					>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
RRMDD793	12.25	13.50	1.25	65.2	137.6	15.8	56.3	10.3	1.9	8.9	1.3	7.5	1.4	3.9	0.8	3.7	0.5	43.8	359	Saprock		
RRMDD794	0.00	1.78	1.78	92.3	359.9	20.5	70.0	11.5	2.1	10.0	1.7	10.7	1.9	6.3	0.7	5.7	0.9	57.8	652	Hardcap		
RRMDD794	1.78	3.55	1.77	98.0	1259.1	20.5	66.4	11.8	1.9	9.2	1.5	9.0	1.8	5.4	0.6	5.1	0.8	45.3	1536	Hardcap		
RRMDD794	3.55	4.21	0.66	133.1	427.5	26.1	84.2	12.0	2.2	9.8	1.5	8.9	1.7	4.9	0.9	5.5	0.7	50.2	769	Transition		
RRMDD794	4.21	5.15	0.94	134.3	243.8	27.7	96.9	13.4	2.3	11.5	1.7	9.9	1.7	5.8	1.1	5.5	0.9	58.9	615	Mottled		
RRMDD794	5.15	6.09	0.94	92.3	217.4	19.5	68.4	10.5	1.8	9.0	1.4	9.1	1.6	5.3	1.1	5.2	0.7	55.0	498	Mottled		
RRMDD794	6.09	6.98	0.89	126.1	309.6	26.6	93.4	13.5	2.6	11.4	1.9	11.7	2.1	6.8	1.0	6.1	1.0	66.9	681	Mottled		
RRMDD794	6.98	7.86	0.88	113.5	256.7	24.8	92.5	12.7	2.5	11.8	1.9	11.4	2.3	6.7	1.2	6.0	0.8	78.9	624	Mottled		
RRMDD794	7.86	8.88	1.02	241.6	224.2	48.3	152.8	21.5	3.5	16.7	2.5	15.6	2.8	8.3	1.0	7.7	1.1	98.3	846	Clay		
RRMDD794	8.88	9.89	1.01	188.8	230.3	53.6	216.4	35.3	6.2	31.9	4.9	28.8	5.9	17.4	0.8	14.8	2.1	216.5	1054	Clay		
RRMDD794	9.89	10.49	0.60	86.1	167.7	20.4	76.4	12.2	2.1	11.2	1.8	11.4	2.3	7.0	0.5	6.3	0.8	79.7	486	Clay		
RRMDD794	10.49	11.08	0.59	36.1	67.9	9.8	35.6	5.9	1.0	5.3	1.0	5.7	1.2	3.6	0.3	3.7	0.5	38.6	216	Clay		
RRMDD794	11.08	12.04	0.96	141.9	251.8	44.3	171.5	29.7	5.6	27.3	3.9	22.8	4.4	13.8	0.6	10.8	1.5	162.5	892	Clay		
RRMDD794	12.04	13.00	0.96	133.7	166.4	44.5	175.5	29.8	5.2	26.2	3.7	21.6	4.0	12.2	0.6	10.3	1.5	148.6	784	Clay		
RRMDD794	13.00	13.97	0.97	104.0	143.7	30.6	117.2	20.5	3.9	20.0	2.9	18.0	3.5	10.1	0.7	9.2	1.3	128.3	614	Clay		
RRMDD794	13.97	14.58	0.61	48.7	71.5	13.5	54.2	11.8	2.4	13.0	1.9	12.4	2.5	8.0	0.6	7.0	1.0	88.3	337	Clay		
RRMDD794	14.58	15.42	0.84	878.4	1099.4	158.9	605.4	111.8	23.5	114.7	17.2	96.9	17.1	44.3	0.7	26.8	3.6	610.8	3809	Clay		
RRMDD794	15.42	16.26	0.84	71.9	130.2	19.6	74.3	12.9	2.5	13.2	2.0	12.2	2.3	6.7	0.6	5.6	0.8	84.7	439	Clay		
RRMDD794	16.26	17.10	0.84	57.8	85.5	12.6	46.0	9.7	1.7	10.1	1.4	8.7	1.8	5.6	0.5	4.5	0.6	61.3	308	Clay		
RRMDD794	17.10	17.95	0.85	82.2	194.1	19.8	72.9	11.9	2.6	11.9	1.7	10.6	2.0	5.4	0.6	4.7	0.7	70.7	492	Clay		
RRMDD794	17.95	18.88	0.93	78.2	125.3	20.5	79.8	14.5	3.3	15.1	2.3	13.8	2.5	7.1	0.6	5.3	0.8	84.8	454	Upper Saprolite	**14.7**	**792**
RRMDD794	18.88	19.81	0.93	37.1	67.2	9.2	34.9	6.6	1.5	7.0	1.1	6.8	1.4	4.1	0.4	3.6	0.5	50.2	231	Upper Saprolite		
RRMDD794	19.81	20.74	0.93	36.6	66.3	8.7	30.7	6.4	1.2	6.1	0.8	5.4	1.0	3.3	0.4	2.8	0.4	37.1	207	Upper Saprolite		
RRMDD794	20.74	21.67	0.93	27.3	50.9	6.0	21.9	3.5	0.6	3.4	0.6	3.4	0.7	2.1	0.3	2.0	0.3	25.0	148	Upper Saprolite		
RRMDD794	21.67	22.60	0.93	60.3	106.9	12.9	46.1	8.1	1.6	7.3	1.1	6.4	1.2	3.7	0.5	3.0	0.4	43.8	303	Upper Saprolite		
RRMDD794	22.60	23.53	0.93	33.4	61.9	7.5	27.3	4.0	1.0	3.4	0.5	2.8	0.6	1.7	0.3	1.8	0.3	21.0	167	Upper Saprolite		
RRMDD794	23.53	24.46	0.93	41.2	84.3	8.4	27.5	5.1	0.8	3.7	0.5	3.1	0.6	2.0	0.5	1.8	0.3	23.9	204	Upper Saprolite		
RRMDD794	24.46	25.36	0.90	50.0	95.2	11.0	38.3	4.5	0.8	3.0	0.4	2.4	0.5	1.4	0.3	1.5	0.2	15.2	225	Upper Saprolite		
RRMDD794	25.36	26.35	0.99	22.4	41.2	5.3	18.4	3.2	0.7	3.1	0.5	3.4	0.6	2.0	0.4	2.0	0.3	21.3	125	Lower Saprolite		
RRMDD794	26.35	27.34	0.99	45.2	83.7	9.4	31.7	4.2	1.0	3.4	0.5	2.9	0.6	1.6	0.4	1.9	0.3	19.6	206	Lower Saprolite		
RRMDD794	27.34	28.42	1.08	58.3	107.7	12.0	38.3	5.0	1.0	3.7	0.5	2.9	0.5	1.8	0.5	1.9	0.3	18.0	252	Saprock		
RRMDD794	28.42	29.50	1.08	50.0	96.3	11.0	40.2	6.5	1.3	5.5	0.8	4.8	1.0	2.8	0.5	2.6	0.4	32.9	257	Saprock		
RRMDD795	0.00	1.47	1.47	73.4	135.1	14.4	49.2	8.9	1.5	8.9	1.5	8.7	1.7	5.3	0.6	4.9	0.7	56.4	371	Hardcap		
RRMDD795	1.47	2.94	1.47	58.6	110.9	12.3	41.5	7.2	1.2	6.0	1.0	6.0	1.2	3.7	0.6	3.4	0.5	32.8	287	Hardcap		
RRMDD795	2.94	4.40	1.46	105.6	631.4	20.8	71.5	11.1	2.1	9.3	1.4	8.8	1.6	5.0	0.6	5.4	0.8	47.4	923	Hardcap		
RRMDD795	4.40	5.20	0.80	85.4	222.3	18.3	65.3	11.0	2.0	8.7	1.4	8.9	1.7	5.4	0.7	5.6	0.8	49.5	487	Transition		
RRMDD795	5.20	6.07	0.87	83.5	99.6	16.7	56.8	9.8	1.9	8.5	1.3	7.7	1.6	4.4	0.7	4.5	0.6	47.7	346	Clay		
RRMDD795	6.07	6.94	0.87	72.0	78.4	14.0	47.6	8.3	1.7	7.5	1.2	6.4	1.5	4.3	0.7	4.1	0.6	45.1	293	Clay		
RRMDD795	6.94	7.81	0.87	60.0	78.5	11.7	38.1	6.8	1.4	6.2	0.9	5.7	1.3	3.8	0.6	3.7	0.6	38.9	258	Clay		
RRMDD795	7.81	8.66	0.85	54.8	96.4	11.3	39.9	6.6	1.2	6.2	1.0	6.0	1.3	3.8	0.6	3.6	0.5	41.3	274	Clay		
RRMDD795	8.66	9.46	0.80	90.0	122.5	27.1	90.7	16.8	3.3	12.2	1.8	9.5	1.9	5.3	0.5	4.6	0.7	58.0	445	Clay		
RRMDD795	9.46	10.30	0.84	97.3	90.4	19.7	63.8	11.3	2.1	8.3	1.2	7.0	1.4	4.0	0.5	3.8	0.5	44.7	356	Clay		
RRMDD795	10.30	11.02	0.72	107.4	91.6	32.4	111.0	20.2	3.9	14.2	2.1	11.0	2.0	5.5	0.4	4.9	0.7	61.2	469	Clay		
RRMDD795	11.02	11.74	0.72	80.8	84.1	22.5	81.1	15.0	3.1	12.1	1.7	8.6	1.7	4.7	0.4	3.7	0.5	53.7	374	Upper Saprolite		
RRMDD795	11.74	12.46	0.72	81.3	69.0	21.6	77.9	13.5	2.7	11.1	1.7	9.5	1.8	5.1	0.4	4.7	0.6	56.3	357	Upper Saprolite		
RRMDD795	12.46	13.47	1.01	51.8	63.0	11.7	44.0	8.4	2.1	8.8	1.4	7.6	1.6	4.4	0.3	3.6	0.6	55.5	265	Lower Saprolite	**8.3**	**339**
RRMDD795	13.47	14.48	1.01	27.8	52.2	6.5	23.7	4.5	1.1	4.0	0.6	3.7	0.7	2.0	0.4	1.9	0.3	25.1	154	Lower Saprolite		
RRMDD795	14.48	15.47	0.99	25.4	52.1	6.5	22.9	4.3	1.0	4.3	0.6	3.5	0.7	2.1	0.4	2.0	0.3	23.4	149	Saprock		
RRMDD795	15.47	16.94	1.47	25.2	48.8	6.2	22.2	4.5	1.0	3.8	0.6	3.1	0.7	1.9	0.4	1.9	0.3	21.1	142	Fresh Rock		
RRMDD795	16.94	18.40	1.46	26.5	49.4	6.3	23.1	4.5	1.1	3.8	0.6	3.1	0.6	2.0	0.4	1.8	0.3	19.6	143	Fresh Rock		
RRMDD796	0.00	1.55	1.55	67.9	182.4	15.2	53.3	9.3	1.8	9.0	1.5	8.1	1.6	4.9	0.6	4.7	0.8	51.3	412	Soil		

Hole ID	From m	To m	Int. m	La_2O_3 ppm	CeO_2 ppm	Pr_2O_3 ppm	Nd_2O_3 ppm	Sm_2O_3 ppm	Eu_2O_3 ppm	Gd_2O_3 ppm	Tb_2O_3 ppm	Dy_2O_3 ppm	Ho_2O_3 ppm	Er_2O_3 ppm	Tm_2O_3 ppm	Yb_2O_3 ppm	Lu_2O_3 ppm	Y_2O_3 ppm	TREO ppm	Regolith Zone	>200ppm TREO-CeO_2 Interval Length (m)	>200ppm TREO-CeO_2 Interval TREO ppm
RRMDD796	1.55	2.78	1.23	65.3	270.2	12.9	46.2	8.4	1.4	6.3	1.1	7.6	1.5	4.2	0.5	4.6	0.7	38.7	470	Hardcap		
RRMDD796	2.78	3.41	0.63	73.4	191.6	16.6	56.1	10.1	1.8	7.8	1.2	7.1	1.5	4.3	0.6	4.1	0.6	43.7	421	Transition		
RRMDD796	3.41	4.34	0.93	87.5	219.3	19.5	65.7	11.9	1.9	10.0	1.6	8.9	1.9	5.6	0.8	5.5	0.9	62.9	504	Clay		
RRMDD796	4.34	5.27	0.93	78.7	146.2	17.2	59.1	10.7	1.8	8.7	1.4	8.1	1.7	4.9	0.7	4.6	0.7	56.3	401	Clay		
RRMDD796	5.27	6.20	0.93	63.3	101.7	14.0	46.8	8.7	1.6	7.2	1.2	6.9	1.5	4.5	0.7	4.3	0.7	46.1	309	Clay	**2.8**	**405**
RRMDD796	6.20	7.13	0.93	54.3	80.3	11.5	40.0	7.4	1.2	6.3	1.0	5.8	1.2	3.9	0.7	3.7	0.6	40.9	259	Clay		
RRMDD796	7.13	8.08	0.95	46.2	72.0	10.6	36.0	6.9	1.2	5.7	0.9	5.6	1.2	3.5	0.7	3.3	0.5	38.1	232	Clay		
RRMDD796	8.08	8.76	0.68	43.5	65.7	9.6	32.9	5.8	1.1	5.3	0.8	4.8	1.1	3.2	0.6	2.9	0.5	33.9	212	Clay		
RRMDD796	8.76	9.64	0.88	43.2	64.6	9.8	34.1	6.1	1.3	5.9	0.9	5.3	1.2	3.5	0.6	3.2	0.5	38.5	219	Clay		
RRMDD796	9.64	10.51	0.87	46.2	73.9	10.1	35.2	5.8	1.2	5.5	0.9	5.5	1.1	3.2	0.5	3.2	0.5	38.7	232	Clay		
RRMDD796	10.51	11.37	0.86	47.9	61.1	9.2	31.6	5.3	1.1	5.0	0.8	4.8	1.0	3.1	0.5	2.8	0.4	33.3	208	Clay		
RRMDD796	11.37	12.29	0.92	87.5	57.6	11.9	35.8	5.6	1.3	5.4	0.8	4.4	1.0	2.7	0.5	2.3	0.4	31.2	248	Upper Saprolite		
RRMDD796	12.29	13.21	0.92	77.4	51.2	12.1	41.1	7.3	1.5	6.8	1.0	5.5	1.1	3.3	0.5	2.6	0.4	36.1	248	Upper Saprolite		
RRMDD796	13.21	14.12	0.91	209.9	90.5	29.8	97.6	16.1	3.4	14.9	2.0	10.4	2.0	5.2	0.5	4.2	0.6	68.1	555	Upper Saprolite		
RRMDD796	14.12	14.97	0.85	137.8	125.9	43.5	151.0	27.6	5.4	19.4	2.7	14.0	2.6	6.6	0.5	5.4	0.7	72.6	616	Lower Saprolite	**1.8**	**585**
RRMDD796	14.97	16.29	1.32	83.0	78.6	24.9	87.5	16.5	3.2	12.2	1.7	8.8	1.7	4.5	0.4	4.0	0.6	47.2	375	Saprock		
RRMDD796	16.29	17.60	1.31	104.0	62.0	25.4	92.5	17.0	4.0	16.7	2.5	12.9	2.5	6.9	0.4	5.4	0.8	77.8	431	Saprock		
RRMDD796	17.60	18.60	1.00	90.9	53.4	17.2	65.7	12.0	2.9	14.4	2.1	12.1	2.6	6.9	0.4	5.6	0.8	86.1	373	Saprock		
RRMDD796	18.60	19.60	1.00	39.5	65.5	8.9	34.8	6.7	1.5	6.4	1.0	5.6	1.2	3.0	0.5	3.1	0.5	36.6	215	Saprock		
RRMDD796	19.60	21.00	1.40	41.4	76.8	9.2	36.7	6.6	1.5	6.1	1.0	5.5	1.2	3.3	0.5	3.2	0.4	38.9	232	Saprock		
RRMDD797	0.00	0.65	0.65	37.1	109.8	8.1	28.3	5.2	1.0	4.4	0.8	4.8	0.9	2.8	0.5	2.9	0.5	27.4	234	Hardcap		
RRMDD797	0.65	1.41	0.76	65.2	84.6	15.3	53.4	9.0	1.6	7.0	1.1	6.7	1.3	3.8	0.6	3.8	0.6	40.0	294	Clay		
RRMDD797	1.41	2.17	0.76	63.9	69.0	15.0	52.3	9.1	1.8	7.9	1.2	7.2	1.4	4.5	0.6	3.8	0.6	45.6	284	Clay	**2.3**	**287**
RRMDD797	2.17	2.93	0.76	61.6	72.4	14.9	55.8	8.7	1.7	7.4	1.1	6.6	1.4	4.1	0.5	4.2	0.6	40.6	282	Clay		
RRMDD797	2.93	3.68	0.75	55.4	55.4	13.0	48.1	7.8	1.5	6.6	1.0	5.5	1.3	3.6	0.4	3.5	0.6	38.0	242	Clay		
RRMDD797	3.68	4.61	0.93	42.8	59.2	9.9	36.7	6.1	1.1	5.1	0.9	4.8	1.1	3.2	0.3	3.0	0.5	32.8	207	Upper Saprolite		
RRMDD797	4.61	5.54	0.93	53.1	147.4	12.0	39.9	7.4	0.9	5.0	0.6	4.2	0.9	2.5	0.1	2.4	0.4	25.8	303	Upper Saprolite		
RRMDD797	5.54	6.47	0.93	69.4	112.4	16.2	54.5	8.3	1.5	6.3	0.9	4.3	0.9	2.5	0.2	2.6	0.4	25.9	306	Upper Saprolite		
RRMDD797	6.47	7.40	0.93	98.2	91.6	20.1	70.9	11.4	1.9	8.2	1.1	5.7	1.1	3.0	0.1	3.1	0.5	32.9	350	Upper Saprolite		
RRMDD797	7.40	8.34	0.94	85.4	105.2	23.0	79.3	13.2	2.4	9.0	1.3	5.9	1.1	2.6	0.1	2.5	0.4	28.8	360	Upper Saprolite	**1.9**	**355**
RRMDD797	8.34	9.29	0.95	16.5	23.0	3.5	12.4	2.4	0.4	2.3	0.4	2.2	0.5	1.3	0.0	1.3	0.2	15.7	82	Lower Saprolite		
RRMDD797	9.29	10.24	0.95	17.8	31.9	4.0	14.5	3.2	0.4	2.9	0.6	3.2	0.7	2.2	0.0	2.5	0.4	25.3	110	Lower Saprolite		
RRMDD797	10.24	11.19	0.95	57.6	116.6	12.9	47.4	6.3	1.0	6.1	0.9	4.9	1.0	2.9	0.1	3.1	0.5	33.7	295	Lower Saprolite		
RRMDD797	11.19	12.00	0.81	12.3	24.9	2.7	10.1	2.2	0.2	2.7	0.6	3.6	0.9	2.8	0.0	3.3	0.5	29.8	97	Saprock		
RRMDD798	0.00	1.40	1.40	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	Soil		
RRMDD798	1.40	2.63	1.23	117.9	148.0	18.5	59.5	9.0	1.6	7.3	1.2	7.2	1.4	4.1	0.6	4.3	0.7	39.5	421	Hardcap		
RRMDD798	2.63	3.86	1.23	66.1	459.4	11.9	40.0	6.3	1.0	5.3	0.8	5.2	1.1	3.3	0.7	3.6	0.6	30.5	636	Hardcap		
RRMDD798	3.86	4.36	0.50	80.0	853.7	15.1	48.6	7.8	1.4	5.8	1.1	6.0	1.3	3.9	0.7	4.3	0.6	33.0	1063	Transition		
RRMDD798	4.36	5.40	1.04	101.1	556.5	18.5	63.3	9.5	1.6	7.2	1.2	7.2	1.5	4.2	0.8	5.0	0.6	38.0	816	Mottled		
RRMDD798	5.40	6.43	1.03	165.4	203.9	32.7	110.6	16.5	2.6	11.9	1.8	8.8	1.9	4.9	0.8	5.3	0.8	45.1	613	Mottled		
RRMDD798	6.43	7.39	0.96	193.5	221.7	48.0	180.2	26.6	4.4	17.7	2.4	11.3	2.2	5.0	0.9	5.1	0.7	49.7	769	Clay		
RRMDD798	7.39	8.35	0.96	122.0	138.2	23.6	78.1	10.9	2.0	8.2	1.2	7.1	1.5	4.1	0.8	4.4	0.6	42.4	445	Clay		
RRMDD798	8.35	9.30	0.95	262.7	273.9	61.6	228.6	36.6	6.5	27.0	3.4	16.4	2.8	6.8	0.7	5.6	0.8	66.4	1000	Clay		
RRMDD798	9.30	10.17	0.87	140.1	176.9	32.3	113.8	16.9	3.0	12.4	1.8	8.7	1.8	5.1	0.7	4.9	0.7	51.0	570	Clay		
RRMDD798	10.17	11.04	0.87	92.9	204.5	31.9	133.6	25.0	4.5	19.4	2.8	14.7	3.0	8.2	0.7	7.4	1.1	85.7	635	Clay		
RRMDD798	11.04	11.90	0.86	108.6	222.3	37.1	158.6	30.0	5.6	27.5	4.2	23.3	4.8	12.7	0.7	11.4	1.6	141.6	790	Clay		
RRMDD798	11.90	12.70	0.80	77.9	158.5	24.6	109.2	23.1	4.9	29.2	4.5	27.4	6.5	17.5	0.6	15.0	2.2	212.1	713	Upper Saprolite		
RRMDD798	12.70	13.50	0.80	55.7	110.3	13.1	49.0	8.4	1.7	8.1	1.2	7.1	1.6	4.8	0.6	4.4	0.7	58.8	326	Upper Saprolite	**9.1**	**673**
RRMDD798	13.50	14.08	0.58	21.1	47.7	5.1	18.9	3.4	0.8	3.0	0.5	2.8	0.6	1.9	0.2	1.5	0.3	19.3	127	Lower Saprolite		
RRMDD798	14.08	14.66	0.58	61.5	127.8	14.2	50.9	8.1	1.5	6.3	0.8	4.1	0.9	2.2	0.6	2.2	0.3	25.3	307	Lower Saprolite		
RRMDD798	14.66	16.00	1.34	52.8	109.2	11.7	43.9	7.1	1.4	5.5	0.8	4.3	0.9	2.3	0.5	2.4	0.4	26.0	269	Saprock		

Hole ID	From m	To m	Int. m	La_2O_3 ppm	CeO_2 ppm	Pr_2O_3 ppm	Nd_2O_3 ppm	Sm_2O_3 ppm	Eu_2O_3 ppm	Gd_2O_3 ppm	Tb_2O_3 ppm	Dy_2O_3 ppm	Ho_2O_3 ppm	Er_2O_3 ppm	Tm_2O_3 ppm	Yb_2O_3 ppm	Lu_2O_3 ppm	Y_2O_3 ppm	TREO ppm	Regolith Zone	>200ppm TREO-CeO_2 Interval Length (m)	>200ppm TREO-CeO_2 Interval TREO ppm
RRMDD799	0.00	1.92	1.92	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	Hardcap		
RRMDD799	1.92	2.46	0.54	135.5	988.9	26.1	85.3	14.3	2.3	10.5	1.8	10.0	1.9	6.1	0.8	5.4	0.9	48.8	1338	Transition		
RRMDD799	2.46	3.00	0.54	86.8	882.0	17.6	59.0	10.1	1.9	7.9	1.4	7.9	1.6	4.8	0.6	5.1	0.7	37.1	1125	Transition		
RRMDD799	3.00	3.61	0.61	238.1	246.9	49.5	177.3	26.7	4.6	20.6	2.9	15.9	3.2	8.6	0.8	8.4	1.2	85.0	890	Clay		
RRMDD799	3.61	4.21	0.60	190.6	266.6	62.1	242.6	40.8	7.6	31.6	4.5	23.6	4.5	11.5	0.8	10.8	1.4	120.8	1020	Clay		
RRMDD799	4.21	4.68	0.47	161.3	254.3	49.7	194.8	32.5	5.8	26.0	3.8	19.2	3.8	10.0	0.8	8.6	1.3	102.4	874	Clay		
RRMDD799	4.68	5.38	0.70	84.6	144.3	20.9	80.4	12.0	2.2	11.0	1.6	8.3	1.8	4.7	0.5	4.5	0.7	54.7	432	Upper Saprolite		
RRMDD799	5.38	6.17	0.79	59.5	125.9	14.1	50.9	9.6	1.7	8.1	1.1	6.3	1.2	3.5	0.5	3.4	0.5	41.9	328	Lower Saprolite	**3.2**	**671**
RRMDD799	6.17	6.96	0.79	56.2	122.8	13.8	48.6	9.8	1.7	7.1	1.0	5.6	1.0	3.0	0.5	2.7	0.5	31.1	305	Lower Saprolite		
RRMDD799	6.96	8.73	1.77	53.6	116.1	12.9	48.6	8.7	1.7	7.3	1.0	6.2	1.1	3.1	0.5	3.1	0.5	33.9	298	Saprock		
RRMDD799	8.73	10.50	1.77	58.6	127.1	14.3	50.4	9.0	1.4	5.6	0.8	4.8	0.8	2.1	0.5	2.4	0.6	23.9	302	Saprock		
RRMDD800	0.00	1.24	1.24	67.8	121.5	16.1	55.5	10.2	1.7	8.8	1.4	8.7	1.7	5.1	0.8	4.7	0.7	51.8	356	Soil		
RRMDD800	1.24	2.57	1.33	56.5	72.1	10.9	35.8	6.7	1.3	5.6	1.0	5.9	1.1	3.6	0.6	4.0	0.6	32.3	238	Hardcap		
RRMDD800	2.57	3.90	1.33	51.8	230.3	10.7	38.6	7.5	1.2	5.4	0.8	5.0	1.0	3.1	0.5	3.2	0.6	28.1	388	Hardcap		
RRMDD800	3.90	5.23	1.33	59.1	773.9	13.3	46.9	9.2	1.5	6.4	1.0	6.2	1.1	3.4	0.5	3.7	0.6	32.4	959	Hardcap		
RRMDD800	5.23	6.03	0.80	79.5	452.1	16.4	59.0	10.3	1.8	8.3	1.2	7.8	1.5	4.2	0.7	5.0	0.7	42.0	691	Transition		
RRMDD800	6.03	6.90	0.87	63.1	103.2	13.9	49.0	8.4	1.6	7.5	1.0	6.7	1.3	4.1	0.7	3.8	0.6	40.9	306	Clay		
RRMDD800	6.90	7.77	0.87	77.2	69.9	18.4	66.7	11.9	2.2	9.9	1.4	8.4	1.6	4.9	0.6	4.3	0.7	56.6	335	Clay		
RRMDD800	7.77	8.64	0.87	89.6	81.8	21.7	82.1	15.9	2.7	12.2	1.7	10.7	2.0	5.8	0.6	5.3	0.9	67.4	401	Clay		
RRMDD800	8.64	9.50	0.86	139.6	211.9	35.4	131.8	23.5	4.3	20.9	3.0	17.2	3.3	9.6	0.7	9.2	1.4	114.3	726	Clay		
RRMDD800	9.50	10.10	0.60	68.1	37.3	16.4	63.0	11.7	2.0	9.7	1.4	7.8	1.5	4.6	0.5	4.1	0.7	53.1	282	Clay		
RRMDD800	10.10	10.94	0.84	105.8	121.9	26.7	101.0	19.5	3.6	15.3	2.3	13.6	2.5	6.8	0.6	6.7	1.1	80.8	508	Clay		
RRMDD800	10.94	11.78	0.84	106.6	70.1	27.4	103.5	19.1	3.7	15.9	2.3	14.4	2.6	7.5	0.6	6.8	1.0	88.9	470	Clay		
RRMDD800	11.78	12.06	0.28	93.4	77.3	27.4	105.3	21.2	4.1	16.5	2.5	14.2	2.5	7.0	0.6	6.6	1.0	79.6	459	Upper Saprolite		
RRMDD800	12.06	12.83	0.77	256.8	293.6	82.3	321.9	63.3	12.4	51.6	7.1	39.9	7.1	18.8	0.6	15.4	2.4	219.1	1392	Lower Saprolite		
RRMDD800	12.83	13.60	0.77	92.3	125.9	22.7	86.9	14.6	2.9	12.6	1.6	9.5	1.8	5.3	0.5	4.4	0.7	69.7	451	Lower Saprolite		
RRMDD800	13.60	14.37	0.77	154.8	240.8	33.8	128.3	22.2	4.6	18.8	2.4	14.9	3.0	8.4	0.6	7.2	1.2	117.7	759	Lower Saprolite	**8.3**	**558**
RRMDD800	14.37	15.30	0.93	67.3	125.9	15.2	54.4	8.9	1.7	6.9	1.0	5.8	1.1	3.1	0.7	3.1	0.5	42.0	338	Saprock		
RRMDD801	0.00	1.59	1.59	75.3	391.9	16.0	56.5	9.5	1.6	7.5	1.2	7.6	1.4	4.6	0.7	4.8	0.8	44.3	624	Soil		
RRMDD801	1.59	3.18	1.59	60.0	1492.5	13.7	47.9	8.4	1.8	7.1	1.3	7.8	1.5	4.6	0.5	4.6	0.8	37.2	1690	Hardcap		
RRMDD801	3.18	4.76	1.58	65.4	1787.3	15.0	54.5	10.8	1.6	7.6	1.3	7.7	1.4	4.7	0.5	5.1	0.8	39.6	2003	Hardcap		
RRMDD801	4.76	5.82	1.06	62.2	398.0	12.6	44.3	8.1	1.3	6.6	1.0	6.6	1.2	3.6	0.7	4.4	0.7	39.6	591	Transition		
RRMDD801	5.82	6.82	1.00	73.9	122.8	12.9	45.0	7.3	1.1	6.2	0.9	6.6	1.2	4.0	0.8	4.3	0.6	42.4	330	Mottled		
RRMDD801	6.82	7.82	1.00	66.7	125.9	10.6	34.9	5.5	0.9	5.1	0.8	5.2	1.0	3.1	0.7	3.5	0.6	34.2	299	Mottled		
RRMDD801	7.82	8.82	1.00	108.4	98.5	13.7	42.1	6.4	1.1	5.3	0.7	5.9	1.2	3.5	0.7	3.8	0.6	37.3	329	Mottled		
RRMDD801	8.82	9.82	1.00	195.3	134.5	23.1	65.0	9.5	1.6	7.8	1.2	8.0	1.6	5.2	0.9	5.3	0.9	54.4	514	Mottled		
RRMDD801	9.82	10.80	0.98	103.3	107.4	19.8	72.7	13.0	2.4	11.5	1.7	10.9	2.1	6.2	0.8	6.9	1.1	69.0	429	Mottled		
RRMDD801	10.80	11.84	1.04	124.3	183.0	30.1	112.4	18.4	3.3	17.1	2.4	14.9	2.8	8.5	0.8	8.1	1.3	107.8	635	Clay		
RRMDD801	11.84	12.26	0.42	55.2	280.1	19.5	72.0	11.7	2.0	8.2	1.1	7.4	1.3	4.1	0.4	3.6	0.7	45.7	513	Clay		
RRMDD801	12.26	13.11	0.85	182.4	298.5	35.9	123.6	21.5	3.7	18.3	2.6	16.1	3.1	9.3	0.8	8.7	1.4	114.4	840	Clay		
RRMDD801	13.11	13.95	0.84	161.3	205.1	31.7	108.0	18.3	3.2	14.5	2.1	13.5	2.5	7.2	0.7	6.5	1.1	88.9	664	Clay	**8.1**	**497**
RRMDD801	13.95	14.88	0.93	49.1	69.4	8.8	28.0	5.2	0.9	4.3	0.7	5.0	0.9	2.8	0.6	3.3	0.5	28.2	208	Clay		
RRMDD801	14.88	15.76	0.88	71.1	118.2	15.0	47.2	7.6	1.2	5.2	0.7	4.6	0.9	2.5	0.7	3.0	0.4	28.6	307	Clay		
RRMDD801	15.76	16.64	0.88	29.7	58.1	6.9	23.6	3.8	0.8	4.0	0.6	4.6	1.0	2.7	0.7	3.4	0.5	29.6	170	Clay		
RRMDD801	16.64	17.24	0.60	44.0	109.8	12.3	44.6	7.9	1.4	6.1	1.0	5.1	1.0	3.3	0.6	3.5	0.5	31.0	272	Clay		
RRMDD801	17.24	17.84	0.60	90.0	181.2	20.7	69.2	14.0	2.2	13.4	2.1	11.8	2.5	7.9	0.9	7.1	1.2	82.9	507	Upper Saprolite		
RRMDD801	17.84	18.65	0.81	198.8	384.5	48.9	185.5	34.8	6.4	31.5	4.2	22.4	4.0	11.0	0.9	11.0	1.6	127.0	1072	Lower Saprolite		
RRMDD801	18.65	19.46	0.81	64.5	148.6	17.6	64.2	11.8	2.1	8.3	1.2	6.2	1.2	3.4	0.7	3.1	0.6	35.8	369	Lower Saprolite		
RRMDD801	19.46	20.27	0.81	89.0	176.9	20.1	67.2	12.1	2.2	9.7	1.3	7.0	1.4	4.0	1.1	3.6	0.6	43.7	440	Lower Saprolite	**3.0**	**603**
RRMDD801	20.27	21.00	0.73	72.7	157.2	19.1	72.7	14.7	2.6	14.5	2.0	10.4	2.0	6.1	1.0	5.2	0.8	62.6	444	Saprock		
RRMDD802	0.00	1.52	1.52	103.1	173.8	21.3	72.7	12.6	1.8	8.6	1.4	8.4	1.7	4.9	0.8	4.8	0.8	50.4	467	Soil		

																				>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
RRMDD802	1.52	3.04	1.52	82.7	353.8	16.0	51.3	8.6	1.4	5.9	1.0	6.0	1.2	3.6	0.5	3.6	0.6	32.9	569	Hardcap		
RRMDD802	3.04	4.55	1.51	118.5	637.5	24.3	78.4	12.4	2.0	9.5	1.5	7.7	1.5	4.4	0.7	4.4	0.6	38.9	942	Hardcap		
RRMDD802	4.55	4.80	0.25	208.2	358.7	59.3	212.3	32.2	4.5	18.8	2.3	10.5	1.8	4.8	0.7	4.5	0.6	39.1	958	Transition		
RRMDD802	4.80	5.18	0.38	153.6	206.4	38.9	134.7	22.8	3.4	15.2	2.0	9.9	1.7	4.9	1.0	4.3	0.6	44.1	643	Clay		
RRMDD802	5.18	5.99	0.81	134.9	225.4	38.8	144.6	28.3	4.7	23.1	2.9	16.0	2.7	7.0	1.0	6.1	0.9	68.1	704	Upper Saprolite		
RRMDD802	5.99	6.80	0.81	121.4	213.1	33.7	127.1	25.3	4.4	22.2	2.9	15.3	2.6	6.8	1.0	6.4	0.9	68.6	652	Upper Saprolite		
RRMDD802	6.80	7.61	0.81	104.7	189.8	30.4	115.1	23.3	4.4	21.9	2.9	15.2	2.7	7.2	0.8	6.3	0.9	70.6	596	Upper Saprolite		
RRMDD802	7.61	8.41	0.80	89.5	173.8	25.0	97.0	21.3	4.0	21.3	3.1	16.9	2.9	7.8	0.8	7.4	1.1	79.6	552	Upper Saprolite		
RRMDD802	8.41	9.30	0.89	98.0	200.8	25.5	98.2	21.9	4.3	24.3	3.6	20.0	3.7	10.7	0.8	9.2	1.4	113.8	636	Lower Saprolite		
RRMDD802	9.30	10.19	0.89	118.5	244.5	34.2	143.5	28.4	4.8	25.2	3.5	20.4	3.7	10.3	0.7	8.6	1.2	102.9	750	Lower Saprolite		
RRMDD802	10.19	11.08	0.89	81.9	171.4	20.4	73.7	17.1	3.1	19.1	2.8	17.0	3.4	10.6	0.6	9.7	1.5	118.9	551	Lower Saprolite		
RRMDD802	11.08	11.97	0.89	93.4	200.8	26.7	112.1	25.4	4.2	24.4	3.3	18.2	3.6	10.4	0.7	9.0	1.4	102.7	636	Lower Saprolite		
RRMDD802	11.97	12.84	0.87	85.5	170.1	19.1	63.5	11.9	2.0	14.1	2.1	12.6	2.9	8.6	0.7	8.3	1.3	107.3	510	Lower Saprolite	**8.0**	**622**
RRMDD802	12.84	14.30	1.46	95.0	190.4	21.7	73.2	14.3	2.4	15.3	2.1	12.6	2.7	8.4	0.7	7.2	1.1	96.5	544	Saprock		
RRMDD803	0.00	1.17	1.17	72.4	157.2	16.9	61.2	11.2	1.7	9.0	1.5	8.3	1.7	5.5	0.7	5.1	0.7	51.3	404	Soil		
RRMDD803	1.17	3.04	1.87	57.7	562.6	12.9	48.3	10.1	1.5	7.2	1.2	6.8	1.4	4.4	0.5	4.7	0.7	37.7	758	Hardcap		
RRMDD803	3.04	4.90	1.86	93.0	1078.5	24.1	83.7	15.7	2.6	12.7	2.0	11.0	2.1	6.6	0.6	6.6	0.9	60.6	1401	Hardcap		
RRMDD803	4.90	5.56	0.66	98.3	226.0	21.9	75.2	13.7	2.3	11.5	1.8	10.0	2.0	6.4	0.8	6.3	0.9	59.7	537	Transition		
RRMDD803	5.56	6.41	0.85	103.2	156.6	23.6	78.5	13.3	2.4	12.6	1.8	10.6	2.1	6.5	0.9	6.5	1.0	66.3	486	Transition		
RRMDD803	6.41	7.25	0.84	86.2	135.1	19.0	63.7	11.7	1.8	10.7	1.5	8.4	1.7	5.3	1.0	5.6	0.9	57.9	411	Mottled		
RRMDD803	7.25	7.91	0.66	52.4	106.7	11.6	40.2	6.7	1.1	6.0	0.9	5.4	1.0	3.2	0.8	3.5	0.5	36.2	276	Clay		
RRMDD803	7.91	8.81	0.90	76.1	156.0	16.1	55.9	9.5	1.7	9.3	1.2	7.0	1.4	4.4	0.7	4.2	0.8	47.5	392	Clay		
RRMDD803	8.81	9.59	0.78	25.0	53.2	6.3	22.2	4.1	0.7	3.4	0.6	3.3	0.6	2.0	0.5	1.9	0.3	19.9	144	Clay		
RRMDD803	9.59	10.58	0.99	43.2	110.3	11.3	40.0	7.8	1.3	7.6	1.1	6.2	1.2	4.1	0.7	3.7	0.6	40.9	280	Clay		
RRMDD803	10.58	11.56	0.98	52.9	97.0	13.0	47.5	9.5	1.6	8.8	1.2	7.4	1.6	4.4	0.7	4.5	0.8	53.5	304	Clay		
RRMDD803	11.56	12.03	0.47	19.1	20.3	5.3	19.8	3.5	0.8	3.9	0.5	3.3	0.7	2.2	0.5	2.1	0.3	24.6	107	Clay		
RRMDD803	12.03	12.74	0.71	116.8	211.3	28.2	99.1	15.4	2.9	13.0	1.7	10.1	1.8	5.7	0.7	4.7	0.5	65.7	578	Clay		
RRMDD803	12.74	13.45	0.71	96.6	178.1	26.5	93.5	15.2	3.1	11.2	1.5	8.9	1.6	4.5	0.5	4.0	0.5	58.4	504	Clay		
RRMDD803	13.45	14.17	0.72	157.7	288.7	45.4	161.0	24.5	4.6	17.0	2.3	12.3	2.2	6.1	0.6	4.9	0.6	85.6	814	Clay		
RRMDD803	14.17	15.04	0.87	117.9	174.4	31.2	116.5	22.6	4.4	18.3	2.4	13.4	2.5	6.7	0.5	5.4	0.8	92.7	610	Upper Saprolite		
RRMDD803	15.04	15.91	0.87	136.6	173.8	36.7	143.5	25.0	5.9	24.2	3.1	18.6	3.1	8.6	0.5	7.7	1.0	119.9	708	Upper Saprolite		
RRMDD803	15.91	16.78	0.87	112.0	54.3	29.7	123.1	22.6	5.0	23.4	3.3	18.8	3.3	9.4	0.6	7.8	1.1	120.5	535	Upper Saprolite		
RRMDD803	16.78	17.66	0.88	24.2	51.7	6.4	24.4	4.7	0.9	4.7	0.7	3.6	0.7	2.3	0.4	2.3	0.4	29.6	157	Upper Saprolite		
RRMDD803	17.66	18.33	0.67	59.6	133.9	15.3	58.4	10.1	2.0	7.7	1.1	5.2	0.9	2.7	0.7	2.8	0.4	29.6	330	Upper Saprolite		
RRMDD803	18.33	19.00	0.67	110.1	246.9	27.5	98.1	18.5	3.3	12.2	1.6	7.3	1.3	3.1	0.7	3.1	0.4	37.6	572	Upper Saprolite		
RRMDD803	19.00	19.70	0.70	66.4	153.6	16.9	60.4	10.9	2.0	7.4	0.9	5.6	0.9	2.3	0.7	2.4	0.4	26.4	357	Lower Saprolite		
RRMDD803	19.70	20.39	0.69	135.5	260.4	28.3	105.2	17.7	3.5	16.5	2.2	10.7	1.8	4.7	0.7	3.7	0.5	60.2	652	Lower Saprolite	**14.0**	**431**
RRMDD803	20.39	21.50	1.11	74.7	160.9	17.9	65.9	12.7	2.0	9.6	1.5	8.8	1.9	5.3	0.7	5.4	0.8	58.8	427	Saprock		
RRMDD803	21.50	23.00	1.50	68.1	141.9	16.4	58.1	11.0	1.8	8.2	1.2	6.6	1.3	3.6	0.7	3.5	0.4	38.9	362	Fresh Rock		
RRMDD804	0.00	1.74	1.74	60.6	145.0	14.5	53.3	10.9	1.6	8.4	1.4	8.0	1.6	4.5	0.7	4.2	0.7	50.3	366	Soil		
RRMDD804	1.74	3.00	1.26	80.9	402.9	16.7	60.2	10.7	1.8	8.2	1.5	8.4	1.7	5.1	0.5	5.2	0.8	43.2	648	Hardcap		
RRMDD804	3.00	4.28	1.28	100.5	330.4	24.2	86.0	15.8	2.7	12.5	2.1	12.6	2.3	6.8	0.8	7.1	0.9	66.7	671	Transition		
RRMDD804	4.28	4.95	0.67	102.6	147.4	22.1	76.3	13.5	2.4	10.9	1.8	10.4	2.0	6.3	0.9	6.5	0.8	66.9	471	Clay		
RRMDD804	4.95	5.61	0.66	90.5	205.1	20.1	71.3	12.6	2.4	10.4	1.7	10.3	2.0	5.7	0.8	6.0	0.8	61.0	501	Clay		
RRMDD804	5.61	6.43	0.82	130.8	140.0	24.4	83.5	16.2	3.2	12.3	1.8	10.4	2.0	5.3	0.7	5.6	0.8	60.3	497	Clay		
RRMDD804	6.43	7.25	0.82	105.9	75.5	16.1	51.9	8.5	1.7	7.5	1.2	6.9	1.4	3.9	0.6	3.8	0.5	42.8	328	Clay	**3.0**	**445**
RRMDD804	7.25	8.07	0.82	55.2	58.8	12.5	44.8	7.7	1.6	7.0	1.1	6.4	1.2	3.4	0.6	3.2	0.5	40.3	244	Clay		
RRMDD804	8.07	8.87	0.80	32.1	23.6	8.1	28.8	5.1	1.2	4.8	0.8	4.5	0.9	2.4	0.5	2.7	0.3	28.2	144	Clay		
RRMDD804	8.87	9.69	0.82	26.4	36.7	6.7	25.2	4.4	0.9	4.3	0.6	3.7	0.8	2.1	0.5	2.3	0.3	24.9	140	Clay		
RRMDD804	9.69	10.51	0.82	26.0	30.8	6.9	25.5	4.3	1.0	4.4	0.6	4.0	0.8	2.3	0.5	2.4	0.4	26.7	137	Clay		
RRMDD804	10.51	11.34	0.83	30.3	26.0	8.2	29.3	5.0	1.3	5.1	0.8	4.9	1.0	2.8	0.5	2.3	0.3	29.3	147	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
RRMDD804	11.34	12.00	0.66	44.4	27.3	12.9	49.8	8.6	2.0	7.6	1.2	7.1	1.4	4.0	0.5	3.3	0.4	46.0	217	Clay		
RRMDD804	12.00	13.08	1.08	47.4	80.3	11.7	41.4	8.1	1.5	6.0	0.8	4.6	0.8	2.1	0.5	1.9	0.2	25.9	233	Upper Saprolite		
RRMDD804	13.08	13.97	0.89	192.9	371.0	43.9	165.0	28.3	6.4	25.9	3.4	18.2	3.2	8.0	0.6	5.8	0.7	113.5	987	Lower Saprolite		
RRMDD804	13.97	14.85	0.88	59.6	136.4	17.0	64.6	11.5	2.5	9.0	1.1	6.0	1.1	2.9	0.5	2.4	0.4	36.1	351	Lower Saprolite	**1.8**	**671**
RRMDD804	14.85	15.93	1.08	33.7	75.3	8.9	33.7	5.0	1.1	3.2	0.4	2.3	0.5	1.2	0.6	1.4	0.2	14.9	182	Saprock		
RRMDD804	15.93	17.00	1.07	49.5	115.1	13.6	49.7	9.1	2.1	6.2	0.8	3.8	0.7	1.8	0.6	1.7	0.2	20.1	275	Saprock		
RRMDD805	0.00	1.50	1.50	77.6	173.8	18.9	70.7	13.3	2.1	10.9	1.8	10.2	2.0	5.7	0.7	5.5	0.7	62.1	456	Soil		
RRMDD805	1.50	3.15	1.65	76.5	170.7	14.5	47.8	7.4	1.3	5.9	0.9	5.3	1.0	3.3	0.5	3.5	0.5	31.4	371	Hardcap		
RRMDD805	3.15	5.05	1.90	127.8	196.5	29.0	101.7	17.9	3.3	14.8	2.5	14.8	2.8	7.8	0.8	7.9	1.1	88.1	617	Transition		
RRMDD805	5.05	5.91	0.86	94.2	137.6	22.8	85.1	14.6	2.9	13.5	2.0	11.6	2.3	6.6	0.8	6.3	0.8	72.6	474	Mottled		
RRMDD805	5.91	6.77	0.86	80.3	77.3	18.0	68.2	11.2	2.6	10.8	1.8	9.8	1.9	5.9	0.8	5.0	0.8	62.4	357	Mottled		
RRMDD805	6.77	7.63	0.86	71.2	55.5	15.7	58.1	9.8	2.1	8.9	1.5	8.5	1.7	5.0	0.8	4.3	0.8	52.1	296	Mottled		
RRMDD805	7.63	8.47	0.84	90.4	59.7	21.0	80.0	14.5	2.8	13.1	2.1	11.8	2.3	6.4	0.8	5.8	1.0	72.3	384	Mottled		
RRMDD805	8.47	9.16	0.69	139.0	81.1	32.0	120.1	20.1	4.2	18.3	2.9	16.6	3.3	9.6	0.9	7.6	1.3	111.8	569	Mottled		
RRMDD805	9.16	9.84	0.68	131.4	67.8	29.4	113.7	19.9	4.1	18.9	2.8	15.9	3.2	9.0	0.9	7.2	1.2	105.3	531	Mottled	**4.8**	**427**
RRMDD805	9.84	10.53	0.69	42.3	23.8	9.9	38.6	6.7	1.3	6.1	1.0	5.8	1.1	3.3	0.6	2.6	0.4	37.5	181	Clay		
RRMDD805	10.53	11.22	0.69	45.3	23.1	11.1	43.0	7.1	1.6	6.4	1.0	6.4	1.2	3.8	0.6	3.3	0.5	40.9	195	Clay		
RRMDD805	11.22	11.80	0.58	26.5	14.1	6.1	23.3	4.0	1.0	4.0	0.6	3.4	0.7	2.1	0.6	2.0	0.3	21.8	111	Clay		
RRMDD805	11.80	12.38	0.58	34.7	21.7	8.6	33.0	5.4	1.3	5.3	0.9	5.0	1.0	3.0	0.5	2.6	0.4	32.3	156	Clay		
RRMDD805	12.38	12.90	0.52	25.3	14.6	6.2	24.6	4.2	1.0	3.8	0.6	3.9	0.8	2.4	0.5	2.2	0.3	24.6	115	Clay		
RRMDD805	12.90	13.21	0.31	22.6	11.5	6.0	21.2	4.0	0.9	4.0	0.7	4.1	0.9	2.6	0.6	2.7	0.5	25.7	108	Clay		
RRMDD805	13.21	13.96	0.75	54.4	79.4	13.5	53.8	9.3	2.1	8.7	1.2	7.0	1.3	4.0	0.7	3.2	0.6	45.8	285	Upper Saprolite		
RRMDD805	13.96	14.70	0.74	109.3	104.5	28.0	103.5	17.7	4.1	14.9	2.2	11.2	2.0	6.0	0.7	4.6	0.7	72.6	482	Upper Saprolite		
RRMDD805	14.70	15.34	0.64	12.0	5.3	3.0	11.1	1.7	0.5	2.1	0.3	1.9	0.4	1.3	0.5	1.3	0.2	13.5	55	Upper Saprolite		
RRMDD805	15.34	16.32	0.98	21.9	37.7	4.2	16.8	2.7	0.6	2.7	0.4	2.3	0.5	1.6	0.6	1.5	0.3	14.5	108	Upper Saprolite		
RRMDD805	16.32	17.19	0.87	101.7	184.3	26.7	102.2	17.1	4.3	13.9	1.9	9.9	1.7	4.6	0.6	3.8	0.7	51.2	524	Lower Saprolite	**4.0**	**294**
RRMDD805	17.19	18.06	0.87	43.2	87.2	10.6	38.4	6.3	1.3	4.7	0.6	3.3	0.5	1.7	0.5	1.6	0.3	16.5	217	Lower Saprolite		
RRMDD805	18.06	18.93	0.87	9.9	20.5	2.4	9.3	1.8	0.4	1.7	0.3	1.6	0.3	1.1	0.5	1.3	0.3	10.3	62	Lower Saprolite		
RRMDD805	18.93	19.50	0.57	55.8	108.3	13.3	48.5	9.3	2.2	6.5	0.9	5.0	0.9	2.8	0.6	3.2	0.5	30.2	288	Saprock		
RRMDD806	0.00	1.60	1.60	71.9	159.7	17.2	65.3	12.5	2.0	10.3	1.6	9.1	1.9	5.5	0.6	4.9	0.7	59.2	423	Soil		
RRMDD806	1.60	3.00	1.40	127.2	425.0	21.7	68.8	10.6	1.8	7.8	1.3	7.9	1.5	4.2	0.6	4.7	0.6	42.5	726	Hardcap		
RRMDD806	3.00	3.46	0.46	93.8	281.3	19.1	67.7	11.5	2.1	9.8	1.6	10.2	1.9	5.6	0.8	5.5	0.8	53.8	565	Transition		
RRMDD806	3.46	4.08	0.62	77.2	135.1	16.9	60.2	10.1	2.0	8.9	1.4	8.6	1.8	5.5	0.9	5.2	0.9	52.8	387	Clay		
RRMDD806	4.08	4.70	0.62	81.4	246.9	18.1	68.2	11.0	2.1	9.8	1.6	9.3	1.8	5.8	0.8	5.6	0.9	57.8	521	Clay	**1.2**	**454**
RRMDD806	4.70	5.35	0.65	56.3	111.3	12.9	47.6	8.9	1.5	7.3	1.2	7.0	1.4	4.4	0.6	4.1	0.7	40.3	305	Clay		
RRMDD806	5.35	6.00	0.65	37.1	66.6	8.8	32.4	6.5	1.1	5.3	0.9	5.5	1.1	3.2	0.5	2.8	0.5	31.7	204	Clay		
RRMDD806	6.00	6.84	0.84	53.7	49.3	11.6	42.3	7.3	1.7	6.8	1.2	6.7	1.3	3.6	0.6	3.6	0.6	39.2	229	Clay		
RRMDD806	6.84	7.68	0.84	48.6	39.8	12.1	45.8	7.9	1.8	7.6	1.2	7.2	1.4	3.9	0.6	3.7	0.6	48.0	230	Clay		
RRMDD806	7.68	8.59	0.91	67.9	58.0	17.2	62.3	10.8	2.1	8.9	1.4	7.0	1.4	3.9	0.5	3.4	0.5	50.8	296	Upper Saprolite		
RRMDD806	8.59	9.50	0.91	108.0	91.4	20.0	77.4	13.0	2.8	11.5	1.8	8.9	1.9	5.7	0.6	4.3	0.8	62.2	410	Upper Saprolite		
RRMDD806	9.50	10.40	0.90	124.9	164.6	32.3	125.4	21.9	4.7	17.4	2.6	13.9	2.5	6.9	0.6	5.3	0.8	85.5	609	Upper Saprolite		
RRMDD806	10.40	11.44	1.04	62.4	66.9	20.5	80.8	15.8	3.6	14.0	2.0	10.4	2.0	5.6	0.4	3.7	0.6	63.9	353	Lower Saprolite		
RRMDD806	11.44	12.47	1.03	114.0	127.1	35.3	138.2	24.0	5.7	21.2	3.1	17.0	3.1	8.1	0.5	5.3	0.9	98.7	602	Lower Saprolite	**4.8**	**455**
RRMDD806	12.47	13.89	1.42	71.8	104.0	14.4	53.0	6.4	1.7	6.4	0.8	4.0	0.8	2.3	0.4	2.0	0.3	36.3	305	Saprock		
RRMDD806	13.89	15.30	1.41	14.7	28.1	4.2	14.7	2.6	0.7	2.5	0.3	2.2	0.5	1.3	0.3	1.4	0.3	14.9	89	Saprock		
RRMDD807	0.00	1.41	1.41	65.1	151.1	13.5	47.0	8.5	1.3	6.6	1.1	6.1	1.3	3.7	0.6	3.7	0.6	38.1	348	Hardcap		
RRMDD807	1.41	2.81	1.40	81.5	251.8	16.6	58.6	10.5	1.8	7.9	1.3	8.0	1.4	4.5	0.7	4.5	0.7	45.3	495	Hardcap		
RRMDD807	2.81	3.74	0.93	72.5	181.2	16.8	58.3	9.9	2.2	8.7	1.3	8.4	1.6	4.7	0.8	5.0	0.8	51.9	424	Transition		
RRMDD807	3.74	4.47	0.73	66.5	91.6	14.9	51.7	8.3	1.6	7.4	1.0	6.9	1.3	3.7	0.8	3.9	0.6	42.7	303	Mottled		
RRMDD807	4.47	5.19	0.72	78.3	84.0	15.5	52.7	9.0	1.7	8.3	1.3	8.2	1.7	5.0	0.8	6.4	1.0	61.0	335	Mottled		
RRMDD807	5.19	5.59	0.40	107.4	124.1	29.8	105.0	18.0	3.6	14.9	2.1	13.0	2.4	6.3	0.7	6.0	0.9	82.4	517	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
RRMDD807	5.59	6.55	0.96	125.5	170.1	35.9	127.1	22.0	4.4	17.4	2.6	14.6	2.7	7.2	0.7	6.9	1.0	95.1	633	Clay		
RRMDD807	6.55	7.50	0.95	139.6	146.8	34.6	126.0	21.6	4.5	16.7	2.5	14.5	2.6	7.0	0.6	6.1	0.9	91.9	616	Upper Saprolite		
RRMDD807	7.50	8.51	1.01	143.1	149.9	42.8	154.0	25.9	5.2	20.5	2.7	15.6	2.6	6.1	0.5	5.8	0.8	98.2	674	Lower Saprolite		
RRMDD807	8.51	9.52	1.01	279.1	205.8	82.4	319.6	59.3	13.8	53.9	7.3	41.1	6.9	16.9	0.5	13.4	1.8	224.1	1326	Lower Saprolite	**5.8**	**672**
RRMDD807	9.52	11.01	1.49	100.2	114.1	24.6	100.0	16.9	4.5	19.7	2.6	15.9	3.1	8.4	0.4	6.3	1.0	151.1	569	Saprock		
RRMDD807	11.01	12.50	1.49	41.6	77.4	10.4	34.1	4.9	1.0	3.2	0.4	2.7	0.5	1.4	0.5	1.6	0.2	16.0	196	Saprock		
RRMDD808	0.00	1.10	1.10	69.7	155.4	15.9	57.3	11.0	1.8	8.8	1.4	8.3	1.7	5.1	0.7	5.0	0.8	50.2	393	Soil		
RRMDD808	1.10	2.20	1.10	115.3	315.7	21.4	66.6	11.4	1.8	7.2	1.3	6.8	1.3	3.9	0.5	3.9	0.6	33.5	591	Hardcap		
RRMDD808	2.20	3.05	0.85	131.9	374.7	24.1	81.6	13.7	2.4	10.8	1.6	8.9	1.5	4.5	0.7	4.3	0.8	44.1	706	Transition		
RRMDD808	3.05	3.85	0.80	242.8	315.7	56.4	182.0	25.2	4.2	15.7	2.1	10.8	1.8	4.5	1.1	4.3	0.8	50.9	918	Mottled		
RRMDD808	3.85	4.64	0.79	194.1	275.2	47.8	163.3	24.5	3.8	15.6	2.1	11.5	1.9	5.0	1.0	5.2	0.9	61.1	813	Mottled		
RRMDD808	4.64	5.42	0.78	170.1	264.1	43.6	153.4	27.5	4.7	20.1	2.7	13.9	2.5	6.8	1.0	6.0	0.9	83.2	800	Clay		
RRMDD808	5.42	6.20	0.78	188.2	292.4	52.3	194.8	33.0	6.2	26.3	3.8	19.1	3.3	9.8	0.9	8.0	1.3	112.8	952	Upper Saprolite		
RRMDD808	6.20	6.85	0.65	139.0	234.0	38.4	148.1	28.9	6.1	27.7	4.0	22.7	4.1	11.9	0.9	10.9	1.7	149.8	828	Upper Saprolite		
RRMDD808	6.85	7.50	0.65	147.2	241.4	42.0	169.7	33.9	6.6	31.5	4.8	25.5	4.8	13.5	0.9	12.2	1.9	158.7	895	Upper Saprolite		
RRMDD808	7.50	8.53	1.03	109.1	197.8	31.8	134.1	30.1	6.0	29.6	4.6	25.7	4.6	13.9	0.7	12.5	1.8	153.0	755	Upper Saprolite		
RRMDD808	8.53	9.56	1.03	87.4	169.5	25.3	106.8	23.9	4.7	25.7	3.8	20.8	4.0	11.7	0.6	10.2	1.6	142.2	638	Upper Saprolite		
RRMDD808	9.56	10.59	1.03	102.6	191.6	32.3	144.6	29.3	6.2	34.7	5.6	33.1	6.5	20.2	0.6	17.1	2.6	274.3	901	Upper Saprolite		
RRMDD808	10.59	11.30	0.71	100.6	212.5	32.5	158.6	37.5	7.5	41.5	6.3	34.8	6.7	19.4	0.7	15.9	2.5	253.3	930	Lower Saprolite		
RRMDD808	11.30	12.00	0.70	100.9	209.4	30.2	139.4	25.5	4.7	26.0	3.6	20.4	3.9	10.8	0.7	8.9	1.5	130.8	717	Lower Saprolite		
RRMDD808	12.00	12.70	0.70	75.9	152.3	17.6	70.3	15.1	2.9	19.4	3.0	17.6	3.6	11.0	0.5	9.4	1.5	151.8	552	Lower Saprolite		
RRMDD808	12.70	13.40	0.70	65.0	114.6	11.5	40.5	6.9	1.4	8.4	1.3	7.7	1.4	4.7	0.5	3.9	0.5	56.5	325	Lower Saprolite	**10.4**	**773**
RRMDD808	13.40	15.30	1.90	95.9	200.8	22.3	81.3	13.7	2.4	15.2	2.0	12.1	2.3	7.3	0.6	6.1	1.0	112.0	575	Saprock		
RRMDD809	0.00	1.54	1.54	59.6	150.5	13.3	47.8	8.8	1.6	7.3	1.2	7.0	1.4	4.3	0.6	4.3	0.6	40.1	348	Hardcap		
RRMDD809	1.54	3.08	1.54	64.7	355.0	14.4	55.1	9.9	1.5	7.4	1.4	7.2	1.5	4.6	0.7	4.8	0.7	46.5	575	Hardcap		
RRMDD809	3.08	4.61	1.53	61.1	399.2	13.9	49.5	8.6	1.5	8.1	1.3	7.7	1.4	4.7	0.7	5.0	0.7	45.8	609	Hardcap		
RRMDD809	4.61	5.30	0.69	64.5	142.5	14.1	50.6	8.5	1.8	7.5	1.2	7.2	1.5	4.4	0.8	4.8	0.8	47.5	358	Transition		
RRMDD809	5.30	6.27	0.97	78.9	83.5	16.8	59.3	9.8	2.0	9.1	1.3	7.8	1.5	4.8	0.8	4.6	0.7	51.6	333	Clay		
RRMDD809	6.27	7.23	0.96	153.6	161.5	39.4	140.0	24.0	4.4	17.6	2.7	13.5	2.8	7.7	0.7	6.8	0.9	82.0	658	Clay		
RRMDD809	7.23	8.18	0.95	192.3	205.1	46.6	168.0	26.4	5.0	21.0	3.0	17.0	3.0	8.6	0.8	7.6	1.2	105.8	811	Clay		
RRMDD809	8.18	9.03	0.85	165.4	205.8	44.1	166.2	27.0	5.4	23.2	3.5	18.9	3.4	9.9	0.6	9.0	1.2	117.5	801	Upper Saprolite		
RRMDD809	9.03	9.88	0.85	183.0	151.7	42.2	156.9	26.9	5.3	23.2	3.4	18.5	3.2	9.7	0.6	8.4	1.2	109.2	743	Upper Saprolite		
RRMDD809	9.88	10.59	0.71	276.8	287.4	64.9	251.9	47.4	9.8	43.2	6.1	32.5	6.0	17.1	0.6	13.6	2.0	208.9	1268	Lower Saprolite	**5.3**	**744**
RRMDD809	10.59	12.16	1.57	95.1	135.1	25.1	99.1	17.2	3.6	16.4	2.3	13.0	2.4	6.8	0.6	5.9	1.0	97.3	521	Saprock		
RRMDD809	12.16	13.73	1.57	53.5	106.6	12.7	47.9	7.9	1.6	5.9	0.8	4.4	0.8	2.2	0.6	2.3	0.4	28.4	276	Saprock		
RRMDD809	13.73	15.00	1.27	29.3	56.6	7.3	23.6	3.4	0.6	2.1	0.3	1.7	0.3	1.0	0.5	1.0	0.2	11.6	139	Saprock		
RRMDD810	0.00	1.50	1.50	61.2	127.1	13.8	49.6	9.5	1.7	7.6	1.2	7.7	1.6	4.7	0.6	4.5	0.7	45.3	337	Soil		
RRMDD810	1.50	3.00	1.50	60.6	262.9	14.3	49.3	9.4	1.6	7.2	1.3	7.0	1.4	4.2	0.4	4.3	0.6	37.8	462	Hardcap		
RRMDD810	3.00	4.50	1.50	62.6	406.6	15.0	53.7	9.7	1.8	8.3	1.4	8.0	1.5	4.7	0.4	5.1	0.8	43.7	623	Hardcap		
RRMDD810	4.50	5.50	1.00	112.9	139.4	22.9	80.7	14.1	2.5	11.3	1.9	9.7	2.0	6.5	0.8	5.9	0.9	66.4	478	Clay		
RRMDD810	5.50	6.04	0.54	79.3	183.0	17.8	64.4	12.2	2.1	9.3	1.6	8.7	1.7	5.1	0.6	4.9	0.8	57.3	449	Clay		
RRMDD810	6.04	6.57	0.53	72.9	61.3	15.2	55.1	8.9	1.5	7.2	1.2	7.0	1.2	4.5	0.6	4.0	0.7	46.6	288	Clay		
RRMDD810	6.57	7.21	0.64	41.5	92.9	10.0	35.9	6.2	1.3	5.4	0.8	4.9	1.1	3.5	0.5	2.9	0.4	33.5	241	Clay		
RRMDD810	7.21	7.84	0.63	28.1	55.0	6.8	23.9	4.9	0.9	3.9	0.6	3.5	0.7	2.4	0.4	2.0	0.3	23.9	157	Clay		
RRMDD810	7.84	8.78	0.94	157.2	197.2	36.2	133.6	23.4	4.4	16.8	2.2	12.4	2.1	5.4	0.6	4.7	0.7	66.5	663	Clay		
RRMDD810	8.78	9.35	0.57	119.0	135.7	27.5	103.0	17.9	3.5	13.2	1.8	9.2	1.6	4.3	0.5	3.8	0.5	48.0	490	Clay		
RRMDD810	9.35	9.71	0.36	67.4	141.9	21.5	93.4	18.6	3.8	16.9	2.4	14.1	2.8	7.6	0.7	6.9	1.0	101.8	501	Clay		
RRMDD810	9.71	10.26	0.55	33.4	44.6	8.7	35.9	7.0	1.6	7.0	1.0	5.2	1.0	2.3	0.5	2.0	0.3	28.2	179	Upper Saprolite		
RRMDD810	10.26	11.13	0.87	53.5	103.8	12.4	51.2	10.0	2.3	9.0	1.3	7.4	1.5	4.0	0.7	3.8	0.5	50.4	312	Upper Saprolite	**6.6**	**389**
RRMDD810	11.13	12.00	0.87	30.4	71.4	7.6	32.0	6.8	1.6	6.7	1.0	6.2	1.2	3.4	0.7	3.2	0.5	43.8	216	Upper Saprolite		
RRMDD810	12.00	12.60	0.60	33.1	63.9	9.8	41.4	9.3	2.1	9.3	1.3	7.3	1.5	3.8	0.6	3.8	0.6	48.8	237	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
RRMDD810	12.60	13.43	0.83	40.6	84.8	11.5	47.5	9.9	2.3	8.8	1.2	7.0	1.3	3.3	0.6	3.0	0.5	42.5	265	Saprock		
RRMDD810	13.43	14.26	0.83	82.8	154.8	18.5	75.1	15.2	3.5	14.8	1.8	10.0	1.8	4.8	0.6	3.6	0.6	78.5	466	Saprock		
RRMDD810	14.26	15.00	0.74	65.3	119.0	12.9	51.7	7.6	1.8	6.1	0.8	3.8	0.6	1.9	0.5	1.4	0.2	29.2	303	Fresh Rock		
RRMDD811	0.00	1.13	1.13	95.0	215.0	24.9	93.2	17.9	2.6	13.7	2.2	13.0	2.6	7.4	0.8	6.9	1.0	76.7	573	Soil		
RRMDD811	1.13	2.36	1.23	88.7	321.8	17.3	58.6	10.6	1.5	7.6	1.3	7.2	1.4	4.3	0.5	4.2	0.7	40.4	566	Hardcap		
RRMDD811	2.36	3.58	1.22	112.9	576.1	20.6	75.1	12.5	2.0	10.0	1.6	9.7	1.8	5.6	0.6	5.9	0.8	54.4	890	Hardcap		
RRMDD811	3.58	4.28	0.70	142.5	202.7	28.6	102.1	15.9	2.7	14.2	2.0	11.6	2.5	6.7	0.8	7.2	1.0	74.2	615	Transition		
RRMDD811	4.28	5.27	0.99	147.2	204.5	30.0	105.9	17.8	2.7	15.3	2.2	12.9	2.6	7.1	0.8	7.5	1.0	80.3	638	Mottled		
RRMDD811	5.27	6.26	0.99	150.7	175.0	30.4	109.3	17.7	2.9	14.5	2.1	12.5	2.6	7.2	0.9	6.8	1.1	77.8	612	Mottled		
RRMDD811	6.26	7.12	0.86	203.5	213.1	39.0	137.6	20.7	3.9	17.6	2.5	15.4	3.0	7.9	1.0	7.3	1.2	97.0	771	Clay		
RRMDD811	7.12	7.98	0.86	80.6	111.8	19.1	69.2	11.3	2.0	9.9	1.6	9.2	1.8	5.8	0.8	4.7	0.7	62.4	391	Clay		
RRMDD811	7.98	8.84	0.86	68.4	106.7	17.0	67.4	10.9	2.1	9.5	1.6	9.2	1.9	5.7	0.7	4.9	0.8	64.9	372	Clay		
RRMDD811	8.84	9.70	0.86	62.5	71.9	14.7	58.1	10.3	1.9	8.8	1.3	8.3	1.6	4.9	0.8	4.7	0.7	52.8	303	Clay		
RRMDD811	9.70	10.59	0.89	97.8	164.6	21.0	80.8	14.0	2.6	12.9	1.8	10.9	2.2	6.6	0.8	5.5	0.8	76.1	498	Clay	**6.3**	**517**
RRMDD811	10.59	11.43	0.84	31.5	51.5	9.9	41.5	8.5	1.7	8.2	1.2	7.6	1.5	4.3	0.7	4.3	0.6	51.4	224	Clay		
RRMDD811	11.43	12.27	0.84	18.9	49.6	5.5	22.9	4.4	0.9	4.5	0.7	4.7	0.9	2.9	0.7	2.4	0.4	33.5	153	Clay		
RRMDD811	12.27	13.12	0.85	33.3	37.5	9.2	37.0	7.8	1.6	6.7	1.0	6.3	1.4	3.9	0.7	3.3	0.6	47.6	198	Clay		
RRMDD811	13.12	13.66	0.54	45.5	49.9	10.5	42.8	7.9	1.7	7.9	1.2	7.5	1.6	4.6	0.8	4.9	0.7	54.4	242	Clay		
RRMDD811	13.66	14.20	0.54	47.7	110.7	12.3	51.8	9.3	1.7	9.0	1.4	8.5	1.7	4.8	0.8	4.6	0.7	65.1	330	Clay		
RRMDD811	14.20	15.22	1.02	35.3	43.7	7.5	29.2	4.7	1.2	4.7	0.7	4.3	0.8	2.6	0.7	2.7	0.4	30.1	168	Upper Saprolite		
RRMDD811	15.22	15.86	0.64	229.9	385.7	68.1	272.9	50.9	10.6	42.4	5.7	31.7	5.6	14.2	0.6	10.9	1.5	172.1	1303	Lower Saprolite		
RRMDD811	15.86	16.50	0.64	96.8	136.4	30.2	133.6	28.6	6.4	25.9	3.6	21.9	4.2	10.2	0.6	8.7	1.3	131.4	640	Lower Saprolite		
RRMDD811	16.50	17.29	0.79	240.4	335.4	66.3	282.3	50.7	10.5	49.3	6.2	36.8	7.0	17.6	0.6	14.1	2.1	274.3	1394	Saprock		
RRMDD811	17.29	18.30	1.01	63.4	99.1	15.3	63.6	10.9	2.3	10.1	1.3	7.9	1.5	4.3	0.5	3.5	0.5	60.2	345	Saprock		
RRMDD812	0.00	1.64	1.64	104.3	195.3	24.0	86.8	15.6	2.5	12.8	1.9	11.1	2.2	6.4	0.7	6.0	0.9	66.5	537	Hardcap		
RRMDD812	1.64	2.40	0.76	100.5	351.3	25.7	97.4	18.4	2.8	13.3	2.1	12.2	2.4	6.5	0.7	6.0	0.9	71.4	712	Transition		
RRMDD812	2.40	3.45	1.05	92.9	157.8	23.3	87.5	16.2	2.7	13.2	2.0	11.1	2.4	6.8	0.9	6.6	1.0	76.7	501	Mottled		
RRMDD812	3.45	4.50	1.05	103.2	127.8	23.9	90.5	16.3	2.9	14.2	2.0	12.6	2.4	7.6	0.8	6.3	1.0	82.2	494	Mottled		
RRMDD812	4.50	5.55	1.05	102.7	115.6	26.2	100.9	20.1	3.8	17.7	2.5	16.1	3.2	9.2	0.8	7.9	1.3	110.6	538	Mottled		
RRMDD812	5.55	6.58	1.03	178.9	175.0	38.2	141.7	26.3	5.1	24.7	3.4	21.1	4.2	12.5	0.9	9.8	1.5	145.4	789	Mottled		
RRMDD812	6.58	7.59	1.01	201.7	312.0	59.4	233.3	43.3	8.3	36.1	4.5	27.0	4.9	13.6	0.8	10.0	1.5	177.2	1134	Mottled		
RRMDD812	7.59	8.60	1.01	50.1	185.5	20.1	88.5	18.7	3.8	18.8	2.6	16.8	3.3	9.4	0.8	7.8	1.1	127.6	555	Mottled		
RRMDD812	8.60	9.61	1.01	72.1	83.2	21.7	90.6	18.0	3.5	18.0	2.4	14.7	2.9	8.5	0.7	6.7	1.0	114.5	459	Mottled		
RRMDD812	9.61	10.60	0.99	218.7	235.2	49.2	179.0	34.4	6.6	30.1	4.0	23.3	4.5	12.8	0.8	9.5	1.4	163.8	973	Mottled	**8.2**	**677**
RRMDD812	10.60	11.45	0.85	8.9	7.4	4.5	22.4	5.5	1.2	5.4	0.8	5.1	1.0	3.0	0.4	2.8	0.4	31.5	100	Upper Saprolite		
RRMDD812	11.45	12.34	0.89	71.4	122.2	13.7	46.9	8.7	1.8	6.6	0.9	5.0	0.9	2.4	0.6	2.3	0.4	27.6	311	Upper Saprolite		
RRMDD812	12.34	13.23	0.89	21.3	37.3	4.6	18.4	3.1	0.8	3.5	0.5	2.9	0.6	1.7	0.7	1.8	0.3	23.1	121	Upper Saprolite		
RRMDD812	13.23	14.11	0.88	19.2	55.8	4.8	19.5	3.3	0.9	3.7	0.5	3.1	0.7	2.4	0.6	2.0	0.3	27.0	144	Upper Saprolite		
RRMDD812	14.11	14.87	0.76	106.3	276.4	30.3	112.8	18.1	3.8	13.0	1.6	8.7	1.5	4.3	0.6	3.0	0.5	51.2	632	Upper Saprolite		
RRMDD812	14.87	15.63	0.76	98.6	221.1	27.8	103.5	17.9	3.7	13.8	1.6	9.0	1.6	4.5	0.7	3.7	0.6	52.8	561	Upper Saprolite		
RRMDD812	15.63	16.40	0.77	39.1	73.6	12.1	49.0	11.0	2.5	9.9	1.4	8.2	1.5	4.1	0.6	3.7	0.5	48.9	266	Upper Saprolite		
RRMDD812	16.40	17.13	0.73	47.9	105.5	13.6	50.3	10.8	2.1	7.8	1.0	5.8	1.1	3.1	0.6	2.9	0.4	34.0	287	Lower Saprolite		
RRMDD812	17.13	17.85	0.72	114.5	264.1	33.5	126.6	24.1	5.5	19.2	2.3	12.7	2.2	5.3	0.6	4.9	0.8	70.2	686	Lower Saprolite	**3.7**	**485**
RRMDD812	17.85	19.27	1.42	22.2	46.4	5.8	21.7	4.7	0.8	2.9	0.4	2.5	0.5	1.5	0.6	1.4	0.3	15.9	128	Saprock		
RRMDD812	19.27	20.69	1.42	21.8	50.4	6.2	23.7	5.0	1.1	3.4	0.4	2.8	0.5	1.7	0.5	1.4	0.3	17.0	136	Saprock		
RRMDD812	20.69	22.10	1.41	17.8	40.2	4.5	17.5	3.2	0.8	2.2	0.3	1.6	0.3	0.9	0.5	1.1	0.2	10.7	102	Saprock		
RRMDD813	0.00	1.33	1.33	76.3	138.8	17.4	63.0	11.5	2.0	9.2	1.5	8.4	1.8	4.8	0.7	4.9	0.7	55.2	396	Soil		
RRMDD813	1.33	2.50	1.17	67.9	172.6	15.2	53.8	10.1	1.6	7.7	1.3	8.0	1.6	4.9	0.9	4.9	0.8	48.8	400	Soil		
RRMDD813	2.50	4.33	1.83	60.2	145.0	12.4	40.4	6.9	1.2	5.9	1.0	6.2	1.1	4.1	0.8	4.0	0.7	35.8	325	Hardcap		
RRMDD813	4.33	6.15	1.82	64.3	858.7	12.3	40.5	7.4	1.3	6.2	0.9	6.0	1.2	3.7	0.6	3.8	0.7	33.4	1041	Hardcap		
RRMDD813	6.15	7.34	1.19	80.2	225.4	13.6	43.7	7.9	1.3	6.7	1.1	6.4	1.3	4.3	0.7	4.9	0.7	39.0	437	Transition		

																				>200ppm TREO-CeO_2 Interval	
Hole ID	From m	To m	Int. m	La_2O_3 ppm	CeO_2 ppm	Pr_2O_3 ppm	Nd_2O_3 ppm	Sm_2O_3 ppm	Eu_2O_3 ppm	Gd_2O_3 ppm	Tb_2O_3 ppm	Dy_2O_3 ppm	Ho_2O_3 ppm	Er_2O_3 ppm	Tm_2O_3 ppm	Yb_2O_3 ppm	Lu_2O_3 ppm	Y_2O_3 ppm	TREO ppm	Regolith Zone	Length (m)	TREO ppm
RRMDD813	7.34	8.27	0.93	89.4	109.7	14.9	44.7	8.1	1.5	6.7	1.0	6.5	1.4	4.3	0.9	4.3	0.7	40.4	334	Clay		
RRMDD813	8.27	9.20	0.93	70.0	76.3	12.4	41.3	6.7	1.1	6.7	0.9	5.9	1.2	3.7	0.8	3.9	0.7	38.5	270	Clay		
RRMDD813	9.20	10.04	0.84	32.8	59.9	6.9	22.9	3.7	0.7	3.3	0.5	3.4	0.6	2.1	0.7	2.4	0.4	21.7	162	Clay		
RRMDD813	10.04	10.97	0.93	22.2	34.6	5.3	18.1	2.8	0.5	2.4	0.4	2.4	0.4	1.5	0.5	1.6	0.3	16.0	109	Clay		
RRMDD813	10.97	11.90	0.93	22.0	35.3	5.6	21.2	4.7	0.7	3.4	0.5	3.4	0.7	2.3	0.6	2.2	0.3	19.2	122	Clay		
RRMDD813	11.90	12.75	0.85	23.8	45.3	6.9	26.0	5.2	1.0	4.2	0.6	4.2	0.8	2.6	0.7	2.6	0.4	25.0	149	Clay		
RRMDD813	12.75	13.60	0.85	43.9	46.3	11.8	45.0	8.4	1.8	6.6	1.0	5.8	1.2	3.3	0.6	3.4	0.5	37.1	217	Clay		
RRMDD813	13.60	14.46	0.86	38.4	57.2	9.9	37.1	6.2	1.3	5.1	0.8	4.8	0.9	2.5	0.5	2.4	0.3	26.7	194	Clay		
RRMDD813	14.46	15.36	0.90	42.5	88.2	12.3	45.3	7.0	1.6	6.9	1.1	6.2	1.1	3.2	0.6	3.2	0.5	34.5	254	Upper Saprolite		
RRMDD813	15.36	16.25	0.89	134.9	91.4	23.0	77.1	13.2	2.8	10.2	1.5	8.9	1.6	4.9	0.5	3.9	0.6	49.1	424	Upper Saprolite		
RRMDD813	16.25	17.06	0.81	95.1	157.8	31.2	117.2	20.7	4.3	18.2	2.5	13.9	2.3	6.1	0.5	5.5	0.8	66.5	543	Lower Saprolite	**1.7**	**480**
RRMDD813	17.06	19.00	1.94	164.8	276.4	41.9	159.8	28.6	6.3	28.6	4.1	21.5	3.8	9.7	0.6	8.2	1.1	135.2	891	Saprock		
RRMDD813	19.00	20.00	1.00	33.3	68.1	8.3	28.7	4.4	0.8	3.5	0.5	2.4	0.4	1.2	0.5	1.4	0.2	13.2	167	Saprock		
RRMDD814	0.00	1.44	1.44	49.8	132.1	12.0	42.6	8.2	1.3	6.7	1.1	6.2	1.3	4.2	0.6	3.9	0.6	39.2	310	Hardcap		
RRMDD814	1.44	2.41	0.97	50.4	183.0	11.3	42.0	7.2	1.2	5.9	1.0	5.5	1.3	3.8	0.6	3.7	0.6	37.8	356	Clay		
RRMDD814	2.41	3.38	0.97	40.6	61.5	8.8	31.3	5.0	1.0	5.0	0.8	5.0	0.9	2.9	0.6	2.9	0.4	31.0	197	Clay		
RRMDD814	3.38	4.35	0.97	28.3	30.7	6.7	23.4	4.0	0.8	3.8	0.6	3.6	0.7	2.1	0.4	2.2	0.3	24.0	132	Clay		
RRMDD814	4.35	5.30	0.95	72.9	69.7	17.6	67.9	11.1	2.2	10.7	1.6	9.8	1.8	5.3	0.6	4.8	0.7	62.2	339	Clay		
RRMDD814	5.30	5.96	0.66	161.3	194.1	40.1	145.2	22.0	4.4	19.9	2.7	15.0	2.8	8.2	0.7	7.2	1.0	101.2	726	Clay		
RRMDD814	5.96	6.62	0.66	187.1	199.6	46.9	169.7	26.4	5.0	22.4	3.5	18.6	3.6	9.6	0.7	8.4	1.5	119.6	822	Clay		
RRMDD814	6.62	7.41	0.79	102.5	97.5	26.1	93.7	15.4	2.8	13.8	2.0	11.3	2.2	6.0	0.6	5.5	0.8	79.4	460	Upper Saprolite		
RRMDD814	7.41	8.20	0.79	37.4	75.7	8.9	32.9	5.1	1.1	5.4	0.7	4.6	0.8	2.5	0.4	2.1	0.4	31.7	210	Upper Saprolite		
RRMDD814	8.20	9.00	0.80	63.4	69.0	17.1	59.3	9.8	1.9	8.6	1.2	6.2	1.2	3.4	0.4	3.1	0.5	42.0	287	Upper Saprolite	**4.7**	**452**
RRMDD814	9.00	9.65	0.65	50.9	50.5	11.7	43.3	6.6	1.3	6.3	0.8	4.9	0.9	2.6	0.4	2.6	0.3	33.1	216	Lower Saprolite		
RRMDD814	9.65	10.30	0.65	15.2	23.2	3.1	11.0	1.4	0.4	1.4	0.2	1.0	0.2	0.6	0.3	0.7	0.1	7.5	66	Lower Saprolite		
RRMDD814	10.30	11.50	1.20	47.3	81.6	11.2	46.1	9.9	2.5	9.4	1.2	6.9	1.2	3.0	0.5	2.4	0.3	39.9	263	Saprock		
RRMDD814	11.50	12.70	1.20	43.2	78.0	9.5	33.6	4.9	1.2	4.0	0.5	2.8	0.6	1.8	0.5	1.5	0.2	19.3	201	Saprock		
RRMDD815	0.00	1.85	1.85	82.1	218.0	15.7	54.7	10.3	1.6	7.3	1.2	7.7	1.5	4.3	0.5	4.2	0.7	42.2	452	Hardcap		
RRMDD815	1.85	3.70	1.85	140.1	786.2	25.1	79.4	13.3	1.8	8.7	1.6	8.3	1.7	4.6	0.5	4.7	0.7	47.4	1124	Hardcap		
RRMDD815	3.70	4.34	0.64	107.1	568.7	23.4	78.8	13.2	2.2	11.4	1.8	10.4	1.9	5.7	0.7	5.8	0.8	58.2	890	Transition		
RRMDD815	4.34	5.31	0.97	63.1	89.7	16.1	60.7	9.0	1.8	9.1	1.4	8.7	1.6	4.8	0.7	4.7	0.7	56.6	329	Clay		
RRMDD815	5.31	6.28	0.97	52.0	38.3	13.8	52.1	9.3	1.6	8.8	1.4	8.0	1.6	4.8	0.5	3.8	0.6	55.4	252	Clay		
RRMDD815	6.28	7.26	0.98	29.7	24.7	8.0	32.0	5.2	0.8	5.0	0.8	4.6	0.9	2.8	0.3	2.5	0.4	34.0	152	Clay		
RRMDD815	7.26	7.77	0.51	56.1	33.3	15.2	57.9	9.4	1.9	10.9	1.6	10.1	1.9	5.7	0.6	5.2	0.8	71.6	282	Upper Saprolite		
RRMDD815	7.77	8.74	0.97	238.1	242.6	53.9	200.0	31.8	6.0	29.7	4.3	23.8	4.2	11.4	0.7	9.6	1.4	159.4	1017	Upper Saprolite		
RRMDD815	8.74	9.70	0.96	222.8	188.6	64.4	247.3	39.1	7.4	36.8	5.4	30.2	5.8	16.4	0.5	12.8	1.8	243.8	1123	Upper Saprolite		
RRMDD815	9.70	10.77	1.07	153.6	143.1	44.0	171.5	28.5	5.7	29.9	4.3	23.9	4.5	12.4	0.5	10.1	1.3	205.7	839	Lower Saprolite		
RRMDD815	10.77	11.84	1.07	164.8	151.1	43.3	178.5	29.7	6.1	36.0	5.1	29.4	5.9	16.4	0.5	11.7	2.0	264.1	944	Lower Saprolite	**7.5**	**644**
RRMDD815	11.84	12.70	0.86	48.7	73.1	9.2	33.9	4.8	0.9	3.9	0.4	2.7	0.5	1.6	0.5	1.4	0.2	28.2	210	Saprock		
RRMDD815	12.70	13.75	1.05	49.1	99.4	11.8	42.3	6.4	1.7	5.8	0.8	3.9	0.6	1.9	0.5	1.7	0.2	24.9	251	Saprock		
RRMDD815	13.75	14.80	1.05	45.9	93.7	10.9	38.7	6.1	1.3	4.5	0.6	3.4	0.5	1.6	0.4	1.4	0.2	18.9	228	Saprock		
RRMDD815	14.80	16.15	1.35	14.5	27.4	3.7	15.0	2.9	0.8	2.3	0.4	2.0	0.4	1.2	0.3	1.3	0.2	11.6	84	Saprock		
RRMDD815	16.15	17.50	1.35	11.5	24.7	3.6	14.5	3.7	0.9	3.4	0.4	2.3	0.4	1.1	0.2	1.0	0.2	11.6	79	Saprock		
RRMDD816	0.00	1.95	1.95	156.0	336.6	29.0	92.4	14.1	2.1	10.8	1.7	9.5	1.9	5.2	0.6	5.4	0.8	56.1	722	Hardcap		
RRMDD816	1.95	3.90	1.95	184.1	621.6	34.6	109.5	16.8	2.5	9.8	1.5	8.8	1.7	4.6	0.6	4.4	0.7	46.2	1047	Hardcap		
RRMDD816	3.90	4.90	1.00	129.0	227.3	29.8	104.2	18.9	3.1	13.9	2.2	11.8	2.5	7.4	0.8	7.0	1.1	72.4	631	Transition		
RRMDD816	4.90	5.81	0.91	140.7	231.6	27.9	93.5	15.6	2.4	13.3	2.0	11.1	2.5	7.2	0.9	6.7	1.1	73.5	630	Mottled		
RRMDD816	5.81	6.72	0.91	116.3	186.1	25.5	88.3	14.5	2.6	12.6	2.0	11.0	2.4	6.8	0.9	6.4	1.0	72.4	549	Mottled		
RRMDD816	6.72	7.62	0.90	70.0	103.9	16.5	58.2	10.4	1.6	8.4	1.3	7.7	1.7	4.5	0.7	4.3	0.8	49.1	339	Mottled		
RRMDD816	7.62	8.47	0.85	106.3	173.8	23.9	83.0	14.0	2.6	12.6	1.9	11.1	2.3	6.8	0.8	5.8	1.0	74.5	520	Clay		
RRMDD816	8.47	9.32	0.85	43.4	46.7	12.0	43.6	7.9	1.3	7.1	1.2	6.4	1.5	4.1	0.6	3.8	0.6	43.3	223	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
RRMDD816	9.32	10.17	0.85	44.0	68.4	13.8	52.6	10.4	1.9	8.7	1.4	7.9	1.6	4.7	0.5	4.4	0.7	50.2	271	Clay		
RRMDD816	10.17	10.92	0.75	168.9	154.2	37.2	130.6	22.6	4.4	20.6	3.0	16.2	3.5	9.6	0.7	7.9	1.3	116.3	697	Clay		
RRMDD816	10.92	11.66	0.74	84.9	75.8	21.3	77.2	14.6	2.7	12.4	2.0	10.9	2.4	6.2	0.7	5.4	0.8	80.8	398	Clay	**6.8**	**452**
RRMDD816	11.66	12.62	0.96	17.6	15.5	6.6	26.2	4.8	1.2	4.6	0.8	4.2	1.0	2.8	0.5	2.2	0.4	27.2	115	Clay		
RRMDD816	12.62	13.58	0.96	30.7	53.4	9.4	35.3	7.4	1.3	6.1	0.9	5.4	1.2	3.4	0.6	2.8	0.5	38.1	197	Clay		
RRMDD816	13.58	14.36	0.78	29.2	70.9	7.8	29.7	4.9	1.2	4.8	0.7	4.9	0.9	2.9	0.7	2.9	0.5	33.9	196	Upper Saprolite		
RRMDD816	14.36	15.14	0.78	50.3	84.8	13.8	48.6	9.2	2.0	7.4	1.0	6.5	1.2	3.4	0.6	3.2	0.5	41.9	274	Upper Saprolite		
RRMDD816	15.14	16.10	0.96	64.5	127.8	16.7	61.5	10.8	2.4	9.1	1.3	6.5	1.4	3.3	0.5	2.8	0.4	38.4	347	Lower Saprolite		
RRMDD816	16.10	17.05	0.95	105.7	220.5	29.2	109.8	19.3	4.3	17.3	2.4	12.0	2.3	6.2	0.5	3.9	0.6	74.3	608	Lower Saprolite	**1.9**	**477**
RRMDD816	17.05	18.30	1.25	88.1	160.3	19.6	73.5	12.1	2.8	11.9	1.7	9.1	1.7	4.5	0.5	3.5	0.5	70.1	460	Saprock		
RRMDD817	0.00	1.58	1.58	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	Hardcap		
RRMDD817	1.58	3.15	1.57	59.1	73.9	12.3	41.9	8.0	1.4	5.9	1.0	6.8	1.3	3.6	0.5	4.1	0.6	34.8	255	Hardcap		
RRMDD817	3.15	4.08	0.93	81.2	97.0	17.7	62.9	10.5	1.8	9.3	1.4	7.8	1.8	5.0	0.5	4.7	0.7	53.6	356	Clay		
RRMDD817	4.08	5.01	0.93	67.4	80.2	15.6	55.9	9.9	1.7	8.6	1.3	7.0	1.6	4.8	0.5	4.3	0.7	48.8	308	Clay	**1.9**	**332**
RRMDD817	5.01	5.94	0.93	41.6	50.1	9.5	34.5	5.8	1.0	5.2	0.8	4.2	1.0	2.6	0.3	2.5	0.4	29.3	189	Clay		
RRMDD817	5.94	6.87	0.93	45.0	41.5	11.0	37.9	6.5	1.1	5.8	0.9	4.7	1.1	3.1	0.4	3.2	0.5	34.7	197	Clay		
RRMDD817	6.87	7.91	1.04	27.0	22.1	6.4	23.3	4.0	0.8	3.7	0.6	3.2	0.7	2.1	0.3	1.9	0.3	21.1	117	Clay		
RRMDD817	7.91	8.95	1.04	21.1	17.0	5.0	17.7	3.1	0.5	2.8	0.5	2.3	0.5	1.6	0.3	1.5	0.3	17.3	91	Clay		
RRMDD817	8.95	9.99	1.04	16.0	11.7	3.6	13.5	2.3	0.5	2.1	0.4	1.9	0.5	1.4	0.3	1.3	0.2	14.7	70	Clay		
RRMDD817	9.99	11.03	1.04	14.9	12.5	3.4	12.9	2.0	0.5	2.1	0.3	2.0	0.4	1.4	0.5	1.3	0.2	14.3	69	Clay		
RRMDD817	11.03	11.74	0.71	29.8	32.1	7.8	28.7	5.3	1.0	5.0	0.8	4.6	1.0	3.0	0.6	2.7	0.4	32.9	156	Upper Saprolite		
RRMDD817	11.74	12.45	0.71	30.8	30.6	7.3	27.1	4.3	0.9	4.4	0.8	3.9	1.0	2.7	0.6	2.5	0.4	30.2	148	Upper Saprolite		
RRMDD817	12.45	13.15	0.70	128.4	164.6	25.1	92.8	14.7	3.1	11.2	1.7	9.3	1.6	4.9	0.6	3.7	0.6	60.6	523	Upper Saprolite		
RRMDD817	13.15	14.04	0.89	104.3	159.7	28.2	102.6	17.1	3.3	14.4	2.1	11.5	2.3	6.2	0.6	4.7	0.7	73.0	531	Lower Saprolite	**1.6**	**527**
RRMDD817	14.04	15.46	1.42	149.5	254.3	43.5	164.5	31.1	6.3	25.4	3.6	20.2	4.0	10.6	0.5	7.7	1.2	127.6	850	Saprock		
RRMDD817	15.46	16.88	1.42	98.6	167.7	19.9	73.2	11.9	2.4	11.2	1.3	6.8	1.3	3.9	0.5	2.8	0.4	63.9	466	Saprock		
RRMDD817	16.88	18.30	1.42	37.3	80.8	9.4	34.9	6.6	1.4	5.7	0.8	4.0	0.7	2.0	0.3	2.0	0.3	25.7	212	Saprock		
RRMDD818	0.00	1.10	1.10	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	Soil		
RRMDD818	1.10	1.70	0.60	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	Hardcap		
RRMDD818	1.70	2.65	0.95	91.8	203.3	21.1	74.9	14.5	2.4	12.4	1.9	11.1	2.3	7.2	0.9	6.9	1.1	68.1	520	Mottled		
RRMDD818	2.65	3.59	0.94	103.1	83.0	22.3	82.1	15.2	2.5	12.5	2.0	11.6	2.5	7.8	0.9	6.9	1.2	72.6	426	Mottled		
RRMDD818	3.59	4.60	1.01	108.7	92.6	25.4	91.0	17.5	2.9	15.0	2.2	12.7	2.6	8.1	0.9	7.0	1.1	79.7	467	Mottled		
RRMDD818	4.60	5.61	1.01	125.5	88.7	30.2	110.5	20.5	3.6	19.3	2.8	16.5	3.5	10.4	0.9	8.9	1.5	114.4	557	Mottled		
RRMDD818	5.61	6.62	1.01	177.7	134.5	42.6	158.6	29.3	5.1	28.0	3.9	23.2	4.7	14.5	0.8	11.5	1.8	162.5	799	Mottled		
RRMDD818	6.62	7.64	1.02	175.9	90.4	37.5	134.7	25.4	4.4	24.1	3.4	19.7	4.2	12.2	0.7	10.0	1.5	136.5	681	Clay		
RRMDD818	7.64	8.54	0.90	362.4	377.1	95.4	354.6	64.5	11.2	56.9	7.7	42.2	8.5	24.7	0.7	18.5	2.9	280.6	1708	Upper Saprolite		
RRMDD818	8.54	9.44	0.90	417.5	304.6	143.2	559.9	105.6	20.6	87.4	12.8	72.5	13.5	38.2	0.6	26.5	4.1	419.1	2226	Upper Saprolite		
RRMDD818	9.44	10.35	0.91	239.3	215.6	77.6	309.1	63.0	11.3	57.7	8.0	44.5	8.9	25.4	0.5	19.2	3.0	270.5	1354	Lower Saprolite		
RRMDD818	10.35	11.10	0.75	417.5	372.2	103.3	409.4	69.6	12.9	76.2	9.6	52.9	11.6	34.5	0.5	23.6	4.0	472.4	2070	Lower Saprolite		
RRMDD818	11.10	11.85	0.75	85.5	98.1	17.2	66.1	11.3	2.3	12.4	1.6	8.9	1.9	5.6	0.5	4.2	0.7	89.8	406	Lower Saprolite	**10.2**	**991**
RRMDD818	11.85	13.50	1.65	34.4	58.0	8.0	32.0	6.5	1.4	6.0	0.8	4.1	0.8	2.6	0.5	2.0	0.4	33.5	191	Saprock		
RRMDD819	0.00	1.25	1.25	151.3	324.3	31.9	111.9	19.0	3.0	15.4	2.4	14.1	2.6	7.8	0.7	6.8	1.1	77.5	770	Hardcap		
RRMDD819	1.25	2.42	1.17	130.8	280.1	27.2	96.7	15.0	2.5	12.8	1.9	11.3	2.0	6.0	0.8	6.0	0.9	63.4	657	Transition		
RRMDD819	2.42	3.36	0.94	133.7	195.9	29.7	104.5	18.3	2.8	14.8	2.0	11.4	2.4	7.2	0.8	6.3	1.0	76.2	607	Mottled		
RRMDD819	3.36	4.30	0.94	137.8	200.8	31.4	108.7	19.3	3.1	16.3	2.1	12.9	2.7	8.2	0.9	7.0	1.1	87.0	639	Mottled		
RRMDD819	4.30	5.25	0.95	120.8	158.5	29.0	104.2	18.8	3.1	16.4	2.3	13.4	2.7	8.5	0.9	7.3	1.1	94.2	581	Clay		
RRMDD819	5.25	5.93	0.68	101.6	132.1	30.0	116.4	22.7	4.1	22.0	3.0	17.6	3.8	11.0	0.9	8.5	1.3	137.1	612	Clay		
RRMDD819	5.93	6.60	0.67	206.4	191.0	49.9	191.3	34.7	6.3	33.8	4.4	26.4	5.4	16.0	0.9	12.1	1.9	196.8	977	Clay		
RRMDD819	6.60	7.62	1.02	146.6	201.5	44.7	183.1	30.8	6.6	30.9	4.6	27.0	5.5	14.9	0.8	10.7	1.8	204.5	914	Clay		
RRMDD819	7.62	8.63	1.01	92.4	112.9	26.1	102.3	19.1	3.6	19.1	2.6	14.7	3.0	9.4	0.7	7.1	1.2	115.9	530	Clay		
RRMDD819	8.63	9.43	0.80	38.8	32.6	12.4	49.8	10.0	1.8	9.6	1.3	7.8	1.6	4.9	0.5	4.2	0.6	60.3	236	Clay	**7.0**	**635**

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
RRMDD819	9.43	10.23	0.80	26.4	23.5	9.6	39.0	7.7	1.6	8.0	1.2	6.4	1.5	4.3	0.4	3.5	0.5	49.4	183	Clay		
RRMDD819	10.23	11.03	0.80	22.8	12.3	8.3	35.1	7.6	1.4	7.6	1.0	6.3	1.4	4.2	0.5	3.1	0.5	48.9	161	Clay		
RRMDD819	11.03	11.83	0.80	41.3	38.9	10.0	39.0	7.4	1.4	7.0	1.0	5.9	1.3	3.9	0.5	3.3	0.5	46.0	207	Upper Saprolite		
RRMDD819	11.83	12.45	0.62	58.6	75.3	16.3	61.8	11.6	2.3	10.1	1.3	7.3	1.6	4.6	0.5	3.4	0.6	57.0	312	Upper Saprolite		
RRMDD819	12.45	13.07	0.62	25.0	27.5	7.1	26.5	5.1	0.9	5.2	0.7	4.0	0.9	2.7	0.5	2.4	0.4	36.2	145	Upper Saprolite		
RRMDD819	13.07	14.08	1.01	14.8	17.7	4.4	17.5	3.6	0.7	3.9	0.6	3.7	0.8	2.4	0.5	2.3	0.3	27.7	101	Lower Saprolite		
RRMDD819	14.08	15.65	1.57	119.6	210.1	36.1	144.6	30.3	6.3	29.0	3.8	20.3	4.2	11.0	0.5	7.4	1.1	151.8	776	Saprock		
RRMDD819	15.65	17.22	1.57	37.5	70.1	8.3	28.9	5.1	1.0	4.3	0.5	3.0	0.6	2.0	0.4	1.5	0.2	20.3	184	Saprock		
RRMDD819	17.22	18.80	1.58	21.5	41.5	5.0	17.4	2.6	0.7	2.0	0.2	1.5	0.3	0.8	0.4	0.9	0.2	8.5	103	Saprock		
RRMDD820	0.00	2.10	2.10	85.1	584.7	13.4	41.5	7.3	1.2	5.5	1.0	5.3	1.1	3.4	0.5	3.5	0.5	30.5	784	Hardcap		
RRMDD820	2.10	2.90	0.80	80.7	1117.8	18.2	63.7	11.4	1.8	8.2	1.4	9.0	1.6	5.6	0.7	5.0	0.7	47.2	1373	Transition		
RRMDD820	2.90	3.70	0.80	62.7	482.8	14.8	53.5	9.5	1.5	8.2	1.2	6.9	1.4	4.8	0.6	4.5	0.6	46.2	699	Clay		
RRMDD820	3.70	4.65	0.95	67.7	96.9	16.3	60.0	10.0	1.7	8.7	1.3	7.4	1.4	4.9	0.6	4.2	0.7	48.8	331	Clay		
RRMDD820	4.65	5.60	0.95	61.9	88.6	16.1	57.5	10.0	1.7	8.4	1.3	7.6	1.5	4.4	0.7	4.1	0.7	47.6	312	Clay	**2.7**	**433**
RRMDD820	5.60	6.56	0.96	47.9	71.0	11.8	42.5	7.6	1.5	6.7	1.0	6.0	1.1	3.8	0.5	3.4	0.6	36.3	242	Clay		
RRMDD820	6.56	7.18	0.62	46.7	59.6	9.9	34.4	6.4	1.1	5.6	0.8	4.6	1.0	3.1	0.6	3.2	0.6	31.0	208	Clay		
RRMDD820	7.18	7.80	0.62	35.7	56.9	7.3	26.2	5.0	1.0	4.1	0.7	4.4	0.8	2.8	0.8	2.9	0.4	29.2	178	Clay		
RRMDD820	7.80	8.74	0.94	72.4	82.1	17.9	65.7	12.2	2.4	11.1	1.6	10.1	2.0	6.6	0.8	5.2	0.8	70.5	361	Clay		
RRMDD820	8.74	9.79	1.05	101.2	99.5	25.1	93.5	16.1	3.1	15.1	2.2	13.3	2.6	8.1	0.8	6.5	1.1	96.3	485	Clay		
RRMDD820	9.79	10.84	1.05	115.8	133.9	29.4	110.2	18.4	3.4	16.2	2.5	14.6	2.9	8.8	0.7	6.9	1.2	107.3	572	Clay		
RRMDD820	10.84	11.70	0.86	167.7	185.5	42.8	154.5	25.5	4.5	21.8	3.0	15.8	3.1	8.8	0.7	6.9	1.1	114.4	756	Upper Saprolite		
RRMDD820	11.70	12.53	0.83	258.0	256.7	77.4	300.9	58.0	11.6	46.6	6.7	38.0	7.1	19.8	0.7	15.4	2.2	229.9	1329	Lower Saprolite		
RRMDD820	12.53	13.36	0.83	146.6	173.2	31.7	122.5	21.7	4.4	18.5	2.6	13.8	2.6	7.4	0.6	5.5	0.9	89.9	642	Lower Saprolite		
RRMDD820	13.36	14.20	0.84	84.6	138.8	24.6	101.4	18.2	4.1	18.5	2.6	14.5	2.8	8.2	0.6	5.9	0.9	108.3	534	Lower Saprolite	**6.4**	**654**
RRMDD820	14.20	14.70	0.50	83.4	143.1	22.2	89.5	17.2	3.4	15.8	2.1	12.1	2.4	7.2	0.6	5.4	1.0	100.3	506	Saprock		
RRMDD821	0.00	1.43	1.43	55.2	134.5	13.2	46.9	9.5	1.5	7.6	1.2	7.9	1.5	4.9	0.5	5.3	0.7	39.5	330	Hardcap		
RRMDD821	1.43	2.85	1.42	48.2	293.6	12.3	45.7	9.1	1.6	7.7	1.4	8.2	1.6	5.5	0.4	5.6	0.8	39.2	481	Hardcap		
RRMDD821	2.85	3.22	0.37	74.2	289.9	18.3	64.9	12.1	2.2	10.7	1.7	10.4	2.2	6.4	0.7	6.5	1.0	59.1	560	Transition		
RRMDD821	3.22	3.88	0.66	74.5	106.4	16.5	60.9	10.2	2.0	8.6	1.5	8.6	1.8	5.3	0.7	5.5	0.8	52.4	356	Clay		
RRMDD821	3.88	4.74	0.86	73.1	58.2	16.1	57.6	9.9	1.6	8.4	1.3	8.2	1.6	5.1	0.7	4.6	0.7	53.0	300	Clay		
RRMDD821	4.74	5.60	0.86	61.2	48.0	12.8	44.9	7.7	1.3	6.2	0.9	5.6	1.1	3.7	0.5	3.2	0.5	39.6	237	Clay		
RRMDD821	5.60	6.45	0.85	74.2	53.7	16.8	58.7	9.2	2.0	8.9	1.3	8.2	1.6	5.2	0.5	4.4	0.7	54.9	300	Clay		
RRMDD821	6.45	7.05	0.60	27.3	27.1	5.9	20.3	3.1	0.6	2.6	0.4	2.8	0.5	1.7	0.3	1.6	0.3	17.8	112	Clay		
RRMDD821	7.05	7.64	0.59	27.9	16.7	6.1	20.3	3.2	0.7	3.1	0.4	2.9	0.5	1.8	0.3	1.6	0.2	20.8	107	Clay		
RRMDD821	7.64	8.52	0.88	79.6	42.9	20.4	75.2	13.6	2.5	12.7	1.8	11.2	2.2	6.9	0.5	5.5	0.9	75.7	352	Clay		
RRMDD821	8.52	9.40	0.88	68.7	34.0	17.6	63.5	11.1	2.2	10.8	1.6	9.1	1.9	6.0	0.5	4.7	0.8	67.1	300	Clay		
RRMDD821	9.40	10.05	0.65	83.4	68.7	19.0	68.9	12.2	2.6	11.3	1.6	9.3	1.9	5.8	0.5	4.9	0.7	66.4	357	Clay		
RRMDD821	10.05	10.70	0.65	75.4	52.7	19.5	68.0	13.2	2.3	11.4	1.5	9.2	2.0	6.0	0.5	4.7	0.7	65.5	332	Clay		
RRMDD821	10.70	11.45	0.75	95.2	37.1	25.6	97.3	16.9	3.4	15.9	2.3	13.9	2.7	8.1	0.5	6.7	1.0	92.8	419	Upper Saprolite		
RRMDD821	11.45	12.20	0.75	33.7	16.5	8.7	31.4	6.3	1.1	5.9	0.9	5.2	1.1	3.7	0.5	3.3	0.5	39.7	158	Upper Saprolite		
RRMDD821	12.20	13.05	0.85	239.3	225.4	54.9	205.3	32.6	7.0	32.3	4.3	24.2	4.9	14.5	0.6	10.4	1.6	178.4	1035	Lower Saprolite		
RRMDD821	13.05	13.90	0.85	130.8	152.3	25.5	93.9	12.7	2.7	12.6	1.5	8.8	2.0	6.1	0.5	4.2	0.7	106.2	561	Lower Saprolite	**10.7**	**365**
RRMDD821	13.90	14.74	0.84	18.4	27.1	3.6	13.3	1.8	0.4	1.5	0.2	1.2	0.2	0.9	0.4	0.9	0.1	13.5	84	Lower Saprolite		
RRMDD821	14.74	15.30	0.56	55.2	91.4	10.7	40.8	6.2	1.3	4.9	0.6	3.3	0.6	1.8	0.4	2.0	0.3	22.5	242	Saprock		
RRMDD822	0.00	1.40	1.40	60.9	91.1	11.1	38.7	6.8	1.1	5.9	1.0	6.3	1.2	4.0	0.7	4.1	0.6	39.4	273	Soil		
RRMDD822	1.40	2.80	1.40	70.8	511.0	12.7	41.3	7.9	1.3	6.3	1.1	7.5	1.4	4.6	0.7	4.8	0.8	37.8	710	Hardcap		
RRMDD822	2.80	3.70	0.90	79.3	350.1	12.7	44.3	7.8	1.4	6.3	1.1	7.3	1.4	4.9	0.6	5.3	0.7	37.7	561	Transition		
RRMDD822	3.70	4.53	0.83	88.9	90.7	13.8	44.7	7.6	1.3	6.1	1.0	6.5	1.2	4.2	0.9	4.7	0.5	41.9	314	Mottled		
RRMDD822	4.53	5.36	0.83	60.0	60.1	10.0	34.3	5.9	1.1	5.2	0.8	5.2	1.1	3.3	0.6	3.9	0.5	33.5	225	Mottled		
RRMDD822	5.36	6.17	0.81	63.9	51.0	12.0	47.8	7.5	1.3	7.3	1.1	6.9	1.4	4.0	0.7	4.7	0.6	48.0	258	Mottled		
RRMDD822	6.17	6.98	0.81	124.9	82.4	27.9	105.8	18.7	3.7	17.8	2.6	15.6	3.3	10.1	0.8	8.3	1.2	120.9	544	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
RRMDD822	6.98	7.80	0.82	198.2	168.3	46.6	176.7	28.3	5.3	25.1	3.9	21.3	4.6	13.2	0.7	10.6	1.5	162.5	867	Mottled		
RRMDD822	7.80	8.70	0.90	666.2	1326.7	177.0	634.5	97.2	17.1	73.8	10.2	52.3	10.4	27.4	0.7	20.3	2.9	375.9	3493	Clay		
RRMDD822	8.70	9.75	1.05	665.0	884.4	178.2	657.8	107.8	20.3	87.9	12.5	65.4	12.5	33.2	0.7	25.1	3.4	415.3	3170	Upper Saprolite		
RRMDD822	9.75	10.80	1.05	316.7	242.6	86.4	339.4	65.6	13.3	59.2	9.1	50.2	9.6	27.0	0.6	21.5	3.0	309.9	1554	Upper Saprolite		
RRMDD822	10.80	11.77	0.97	56.3	72.6	13.0	51.4	8.8	1.8	8.2	1.1	6.3	1.3	3.9	0.4	3.6	0.5	44.4	273	Upper Saprolite	**8.1**	**1261**
RRMDD822	11.77	12.74	0.97	47.3	70.1	9.6	34.2	4.9	1.1	4.3	0.5	3.2	0.5	1.6	0.5	1.6	0.3	22.9	203	Upper Saprolite		
RRMDD822	12.74	13.71	0.97	17.8	32.2	4.1	16.0	3.1	0.6	1.9	0.3	1.6	0.3	1.1	0.4	1.1	0.1	9.4	90	Upper Saprolite		
RRMDD822	13.71	14.68	0.97	20.8	40.5	5.1	18.5	2.8	0.6	1.9	0.3	1.6	0.3	0.9	0.5	1.1	0.2	9.9	105	Upper Saprolite		
RRMDD822	14.68	15.65	0.97	10.4	21.6	2.7	9.8	1.5	0.2	0.9	0.1	1.0	0.2	0.7	0.3	0.8	0.1	6.0	56	Upper Saprolite		
RRMDD822	15.65	16.58	0.93	24.4	49.8	5.6	20.6	3.6	0.6	2.5	0.3	2.1	0.3	1.2	0.6	1.5	0.2	11.4	125	Lower Saprolite		
RRMDD822	16.58	17.50	0.92	72.4	154.8	16.9	64.0	11.2	2.4	9.2	1.3	6.8	1.3	3.2	0.6	2.8	0.5	35.7	383	Lower Saprolite		
RRMDD822	17.50	18.00	0.50	81.4	150.5	17.2	69.3	12.5	2.8	10.7	1.4	7.4	1.2	3.2	0.5	2.5	0.4	45.2	406	Saprock		
RRMDD823	0.00	2.05	2.05	75.2	237.1	13.8	48.1	8.1	1.4	6.8	1.1	6.6	1.3	3.9	0.6	3.8	0.6	36.6	445	Hardcap		
RRMDD823	2.05	4.10	2.05	87.1	241.4	18.6	67.1	11.9	1.8	9.4	1.4	9.1	1.7	5.5	0.8	5.3	0.8	51.0	513	Hardcap		
RRMDD823	4.10	5.76	1.66	81.3	237.1	18.5	68.2	11.7	2.1	9.8	1.4	8.8	1.6	5.3	0.8	6.0	0.8	54.1	507	Transition		
RRMDD823	5.76	6.35	0.59	80.9	196.5	18.1	67.9	10.3	1.9	10.0	1.4	8.5	1.7	5.3	1.0	5.9	0.8	53.7	464	Mottled		
RRMDD823	6.35	6.93	0.58	70.5	85.1	16.3	60.2	9.3	1.7	8.1	1.2	8.4	1.5	4.7	0.9	5.8	0.8	49.1	323	Mottled	**1.2**	**394**
RRMDD823	6.93	7.90	0.97	48.6	73.5	11.1	40.9	7.0	1.1	5.9	0.8	5.6	1.1	3.8	0.8	3.6	0.5	35.4	240	Clay		
RRMDD823	7.90	8.87	0.97	32.1	215.0	8.4	32.4	4.9	1.1	4.7	0.7	4.2	0.9	2.5	0.7	3.2	0.4	26.2	337	Clay		
RRMDD823	8.87	9.84	0.97	37.2	56.5	8.9	33.1	5.3	0.9	4.7	0.7	4.3	0.8	2.9	0.8	3.2	0.5	31.4	191	Clay		
RRMDD823	9.84	10.81	0.97	23.0	33.7	5.5	22.6	3.8	0.8	3.6	0.5	3.5	0.6	2.3	0.7	2.5	0.3	21.3	125	Clay		
RRMDD823	10.81	11.80	0.99	33.0	29.5	8.4	32.3	5.8	1.0	4.7	0.7	4.8	0.9	3.0	0.8	2.9	0.4	32.0	160	Clay		
RRMDD823	11.80	12.52	0.72	40.3	41.9	9.1	33.7	5.0	1.1	4.8	0.7	4.1	0.8	2.8	0.6	2.9	0.4	28.6	177	Clay		
RRMDD823	12.52	13.23	0.71	48.9	168.3	11.3	43.5	7.3	1.3	6.2	0.8	5.1	1.0	3.0	0.7	3.4	0.4	35.0	336	Clay		
RRMDD823	13.23	14.12	0.89	43.2	49.8	9.8	39.0	6.4	1.4	5.4	0.8	5.2	0.9	3.1	0.6	3.2	0.4	32.6	202	Upper Saprolite		
RRMDD823	14.12	15.01	0.89	43.9	80.6	12.3	45.0	8.8	1.8	7.6	1.1	6.3	1.3	4.0	0.7	3.8	0.6	41.9	260	Upper Saprolite		
RRMDD823	15.01	15.91	0.90	41.4	47.9	10.5	38.0	7.0	1.6	6.0	0.9	5.3	1.0	3.2	0.6	3.0	0.4	33.7	200	Upper Saprolite		
RRMDD823	15.91	16.90	0.99	160.7	318.2	45.4	168.0	31.4	7.0	25.2	3.5	18.7	3.2	9.5	0.7	7.5	1.0	100.6	901	Lower Saprolite		
RRMDD823	16.90	17.89	0.99	99.9	197.8	27.5	103.0	19.4	4.4	15.1	2.2	11.5	2.3	6.3	0.6	4.7	0.7	67.6	563	Lower Saprolite		
RRMDD823	17.89	18.88	0.99	45.7	87.2	10.4	35.2	6.2	1.2	4.7	0.7	3.6	0.7	2.1	0.6	2.0	0.3	27.2	228	Lower Saprolite	**4.0**	**562**
RRMDD823	18.88	19.88	1.00	119.6	218.7	24.5	84.7	12.5	2.8	10.8	1.4	7.7	1.5	4.3	0.6	3.6	0.5	62.5	556	Lower Saprolite		
RRMDD823	19.88	21.20	1.32	70.6	137.0	15.7	54.2	9.3	2.2	7.4	1.0	5.5	1.0	2.7	0.5	2.3	0.3	33.8	344	Saprock		
RRMDD824	0.00	1.11	1.11	97.9	210.7	24.0	88.3	16.0	2.6	13.9	2.1	12.9	2.4	7.6	0.9	6.9	1.1	75.4	563	Soil		
RRMDD824	1.11	2.22	1.11	248.6	323.1	40.5	111.3	14.7	2.2	9.7	1.5	9.3	1.6	5.6	0.6	5.2	0.8	50.2	825	Hardcap		
RRMDD824	2.22	3.40	1.18	156.0	218.0	28.4	88.3	13.9	2.7	11.5	1.7	10.4	2.1	5.4	0.5	6.4	0.8	56.3	602	Transition		
RRMDD824	3.40	4.44	1.04	141.9	164.6	29.2	101.2	17.0	3.1	15.1	2.3	13.6	2.7	8.5	0.8	8.1	1.0	87.6	597	Mottled		
RRMDD824	4.44	5.48	1.04	158.3	148.0	47.7	177.3	30.8	5.9	27.8	4.0	24.3	4.8	14.4	0.9	12.0	1.7	164.5	822	Mottled		
RRMDD824	5.48	6.53	1.05	131.9	149.9	41.2	160.4	27.4	5.4	25.6	4.0	22.2	4.4	12.8	0.9	10.5	1.6	150.5	749	Mottled		
RRMDD824	6.53	7.35	0.82	160.1	210.1	47.8	181.4	30.7	5.6	28.5	4.1	22.7	4.5	13.6	0.9	10.8	1.5	160.6	883	Mottled		
RRMDD824	7.35	8.17	0.82	147.2	476.6	43.3	167.4	29.7	5.4	26.7	3.7	22.6	4.4	14.1	0.9	11.0	1.7	161.3	1116	Mottled		
RRMDD824	8.17	9.00	0.83	80.0	90.4	28.5	113.5	21.2	3.8	19.7	2.7	16.5	3.3	10.6	0.8	8.3	1.2	119.9	520	Mottled		
RRMDD824	9.00	10.02	1.02	92.1	59.2	32.0	125.4	22.6	4.1	21.6	3.1	17.7	3.6	11.1	0.8	8.0	1.4	136.5	539	Clay	**6.6**	**738**
RRMDD824	10.02	10.70	0.68	28.5	33.4	10.9	46.4	9.3	1.7	8.4	1.3	7.8	1.6	4.6	0.6	3.9	0.5	47.0	206	Clay		
RRMDD824	10.70	11.37	0.67	19.2	10.8	7.2	29.2	5.4	1.2	5.5	0.8	4.7	1.0	2.6	0.5	2.6	0.4	33.4	124	Clay		
RRMDD824	11.37	12.14	0.77	50.1	70.3	8.4	25.9	5.0	1.0	4.4	0.7	3.8	0.8	2.3	0.7	2.4	0.4	26.8	203	Clay		
RRMDD824	12.14	13.11	0.97	34.5	43.9	8.7	31.6	6.4	1.3	5.3	0.7	4.4	0.9	2.9	0.6	2.9	0.4	34.5	179	Upper Saprolite		
RRMDD824	13.11	14.08	0.97	25.4	94.1	6.5	24.8	4.5	0.9	3.7	0.5	3.3	0.7	2.5	0.6	2.5	0.4	24.6	195	Upper Saprolite		
RRMDD824	14.08	15.05	0.97	71.1	132.1	20.5	77.4	15.2	3.3	12.3	1.6	9.7	1.6	5.7	0.6	3.9	0.6	57.5	413	Upper Saprolite		
RRMDD824	15.05	16.02	0.97	110.5	224.2	33.1	123.6	24.7	5.8	20.4	2.9	14.7	2.7	7.0	0.6	5.6	0.7	83.8	660	Upper Saprolite		
RRMDD824	16.02	17.10	1.08	85.0	184.9	22.9	84.0	15.1	3.4	11.2	1.6	9.0	1.6	4.3	0.6	4.1	0.5	51.6	480	Lower Saprolite		
RRMDD824	17.10	18.00	0.90	27.8	52.8	6.7	22.6	3.4	0.9	2.7	0.4	2.1	0.5	1.3	0.6	1.5	0.3	14.9	138	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
RRMDD824	18.00	18.55	0.55	93.6	203.9	24.1	86.8	14.9	3.7	12.7	1.7	8.7	1.6	4.4	0.6	3.8	0.6	51.8	513	Lower Saprolite	**4.5**	**440**
RRMDD824	18.55	19.70	1.15	64.0	132.1	14.9	51.1	7.5	2.0	6.4	0.7	4.4	0.7	2.3	0.5	2.0	0.3	25.8	315	Saprock		
RRMDD825	0.00	1.10	1.10	136.0	264.1	28.0	94.1	15.4	2.4	11.8	2.0	11.9	2.2	7.1	0.7	7.2	0.9	67.1	651	Hardcap		
RRMDD825	1.10	1.91	0.81	130.2	213.7	29.5	101.6	17.2	2.5	13.8	2.0	12.5	2.4	7.1	0.9	7.3	1.1	79.2	621	Clay		
RRMDD825	1.91	2.72	0.81	109.4	164.0	23.4	80.9	12.6	2.1	11.5	1.8	10.2	2.1	6.0	0.8	5.8	0.9	67.8	499	Clay		
RRMDD825	2.72	3.53	0.81	93.2	137.0	20.8	69.3	11.5	2.3	9.8	1.6	9.3	1.9	5.8	0.7	5.4	0.7	59.3	429	Clay		
RRMDD825	3.53	4.32	0.79	91.8	108.0	20.1	68.8	11.9	2.2	9.4	1.6	9.1	1.8	5.3	0.7	5.8	0.8	61.3	399	Clay		
RRMDD825	4.32	5.22	0.90	163.6	161.5	32.3	107.5	18.8	3.7	16.2	2.2	14.0	2.8	7.8	0.8	7.3	1.0	89.3	629	Clay		
RRMDD825	5.22	6.12	0.90	194.1	167.7	42.6	142.9	24.4	4.7	21.1	3.1	18.9	3.5	10.5	0.8	8.9	1.3	124.1	768	Clay		
RRMDD825	6.12	7.02	0.90	139.0	156.0	37.7	138.2	23.1	4.6	21.3	3.2	18.5	3.6	10.3	0.8	9.0	1.4	129.5	696	Clay		
RRMDD825	7.02	7.93	0.91	191.8	197.2	47.1	169.1	30.7	6.5	26.4	3.8	22.0	4.2	11.7	0.8	10.1	1.5	149.2	872	Clay		
RRMDD825	7.93	8.81	0.88	270.9	293.6	98.5	375.6	64.5	13.1	53.7	7.3	41.0	7.8	22.2	0.8	16.2	2.2	308.6	1576	Clay		
RRMDD825	8.81	9.69	0.88	218.1	211.3	66.8	260.1	45.7	9.6	44.6	6.5	37.5	7.5	19.8	0.7	15.5	2.4	293.3	1240	Clay		
RRMDD825	9.69	10.58	0.89	151.3	568.7	42.5	164.5	28.8	6.1	28.1	4.0	23.8	4.5	12.2	0.6	10.2	1.4	174.6	1221	Clay	**9.5**	**824**
RRMDD825	10.58	11.35	0.77	23.9	24.9	8.0	34.2	6.7	1.4	6.4	0.8	5.0	1.0	2.9	0.4	2.3	0.4	36.2	154	Clay		
RRMDD825	11.35	12.12	0.77	14.3	24.3	4.7	19.1	3.9	0.8	3.6	0.5	3.4	0.6	2.0	0.3	1.6	0.2	22.1	101	Clay		
RRMDD825	12.12	12.89	0.77	12.1	15.1	3.6	13.5	2.5	0.6	2.6	0.4	2.6	0.4	1.4	0.3	1.4	0.3	18.5	75	Clay		
RRMDD825	12.89	13.75	0.86	20.6	39.7	6.8	29.5	6.6	1.3	5.7	0.8	5.3	1.0	2.9	0.5	2.5	0.5	36.7	160	Clay		
RRMDD825	13.75	14.38	0.63	8.9	6.8	3.1	11.9	2.1	0.6	2.5	0.4	2.3	0.4	1.4	0.3	1.4	0.2	15.5	58	Clay		
RRMDD825	14.38	15.00	0.62	10.7	13.5	3.3	12.9	2.6	0.5	2.3	0.3	2.2	0.4	1.3	0.3	1.4	0.2	15.7	68	Clay		
RRMDD825	15.00	15.72	0.72	31.8	65.2	7.7	30.0	6.9	1.4	5.4	0.8	4.6	0.9	2.7	0.5	1.9	0.3	26.0	186	Clay		
RRMDD825	15.72	16.48	0.76	8.4	8.5	2.3	9.1	2.2	0.4	2.1	0.3	1.7	0.4	1.2	0.3	1.2	0.2	12.7	51	Clay		
RRMDD825	16.48	17.24	0.76	9.1	9.8	2.5	9.8	1.9	0.4	1.6	0.3	1.4	0.4	1.2	0.5	1.0	0.2	10.9	51	Clay		
RRMDD825	17.24	18.00	0.76	4.6	6.6	1.3	5.5	1.1	0.2	1.0	0.1	1.0	0.2	0.7	0.4	0.7	0.1	7.7	31	Clay		
RRMDD825	18.00	18.49	0.49	17.1	31.9	4.1	13.2	2.6	0.6	2.1	0.3	2.0	0.4	1.3	0.6	1.7	0.2	15.7	94	Upper Saprolite		
RRMDD825	18.49	19.08	0.59	52.1	110.9	13.2	44.8	8.7	1.7	5.8	0.9	4.2	0.7	1.9	0.5	2.0	0.3	25.1	273	Lower Saprolite		
RRMDD825	19.08	19.67	0.59	92.5	200.8	24.6	90.2	16.6	3.5	12.0	1.6	8.9	1.4	4.0	0.5	3.3	0.4	43.4	504	Lower Saprolite		
RRMDD825	19.67	21.00	1.33	117.3	191.0	21.6	78.5	14.6	3.5	15.0	2.1	10.6	1.9	5.3	0.5	3.7	0.5	67.4	533	Saprock		
RRMDD826	0.00	1.66	1.66	97.5	182.4	18.8	62.4	11.7	2.0	9.5	1.5	8.9	1.8	5.4	0.7	5.4	0.8	50.7	459	Hardcap		
RRMDD826	1.66	2.72	1.06	126.7	255.5	27.2	96.9	16.3	2.5	13.8	2.1	13.3	2.5	8.1	0.8	7.6	1.0	77.1	651	Transition		
RRMDD826	2.72	3.46	0.74	138.4	405.4	27.4	92.3	15.1	2.8	13.7	2.2	12.7	2.6	9.0	0.8	7.8	1.3	83.3	815	Mottled		
RRMDD826	3.46	4.20	0.74	103.8	206.4	25.4	92.1	16.4	3.1	14.3	2.3	13.8	2.7	7.7	0.7	7.6	1.2	83.4	581	Mottled		
RRMDD826	4.20	5.12	0.92	127.8	183.0	31.3	116.6	20.3	3.9	18.4	2.7	15.4	3.0	9.8	0.8	8.4	1.3	98.5	641	Clay		
RRMDD826	5.12	6.04	0.92	72.8	74.8	19.6	73.2	11.7	2.1	11.2	1.6	9.6	2.0	6.5	0.6	5.1	0.8	70.5	362	Clay		
RRMDD826	6.04	6.96	0.92	80.5	54.4	17.5	60.8	10.2	2.0	9.2	1.4	8.6	1.8	5.4	0.7	4.9	0.8	57.8	316	Clay		
RRMDD826	6.96	7.88	0.92	87.0	60.7	19.1	69.8	11.2	2.0	10.5	1.5	9.4	1.8	5.6	0.7	5.1	0.8	65.3	351	Clay		
RRMDD826	7.88	8.80	0.92	81.5	63.5	17.3	60.7	10.8	1.9	9.6	1.4	8.3	1.7	5.2	0.7	4.8	0.9	57.5	326	Clay	**6.1**	**472**
RRMDD826	8.80	9.72	0.92	25.3	34.4	7.5	29.6	5.5	1.1	5.2	0.8	4.5	0.9	3.0	0.5	3.0	0.5	30.5	152	Clay		
RRMDD826	9.72	10.64	0.92	32.6	52.6	9.4	36.4	6.8	1.4	5.9	1.0	5.5	1.2	3.5	0.6	3.3	0.6	38.9	200	Clay		
RRMDD826	10.64	11.24	0.60	12.4	14.5	3.5	14.2	2.7	0.6	2.5	0.4	2.8	0.6	2.0	0.5	1.9	0.3	17.4	76	Clay		
RRMDD826	11.24	11.83	0.59	23.2	21.4	5.9	21.9	3.7	0.8	3.8	0.6	3.6	0.8	2.7	0.6	2.5	0.4	28.3	120	Clay		
RRMDD826	11.83	12.73	0.90	32.8	57.5	7.9	30.6	5.6	1.2	5.2	0.7	4.8	1.0	3.0	0.6	2.9	0.5	34.0	188	Clay		
RRMDD826	12.73	13.63	0.90	76.5	118.7	21.4	83.5	15.6	3.5	13.2	1.7	9.9	2.1	5.8	0.6	4.7	0.7	67.3	425	Clay		
RRMDD826	13.63	14.55	0.92	66.5	96.3	18.5	69.2	12.9	2.8	11.6	1.6	9.3	1.9	5.5	0.6	4.6	0.7	58.9	361	Upper Saprolite	**1.8**	**393**
RRMDD826	14.55	15.47	0.92	50.3	76.4	12.1	44.4	8.0	1.6	6.8	1.0	5.2	1.1	3.2	0.5	2.9	0.4	36.7	251	Upper Saprolite		
RRMDD826	15.47	16.39	0.92	35.3	63.6	9.1	34.6	5.2	1.2	4.6	0.7	4.2	0.8	2.4	0.5	2.3	0.3	28.7	194	Upper Saprolite		
RRMDD826	16.39	17.31	0.92	22.3	40.2	5.3	20.1	2.7	0.6	2.5	0.4	2.4	0.5	1.3	0.4	1.1	0.1	16.3	116	Upper Saprolite		
RRMDD826	17.31	18.23	0.92	14.0	28.9	3.2	12.1	1.9	0.5	1.8	0.3	2.0	0.4	1.4	0.6	1.6	0.2	14.0	83	Upper Saprolite		
RRMDD826	18.23	19.01	0.78	115.9	255.5	28.5	108.0	18.3	3.5	13.5	1.7	9.6	1.7	4.6	0.6	3.5	0.5	55.6	621	Lower Saprolite		
RRMDD826	19.01	19.79	0.78	101.0	216.2	23.0	88.8	14.2	3.1	12.3	1.7	9.1	1.7	4.3	0.5	3.7	0.6	57.8	538	Lower Saprolite		
RRMDD826	19.79	20.58	0.79	60.0	116.3	13.3	54.7	10.2	2.4	10.0	1.4	7.5	1.4	3.8	0.4	2.8	0.4	48.4	333	Lower Saprolite	**2.4**	**497**

																					>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
RRMDD826	20.58	22.00	1.42	35.4	71.0	7.8	27.5	4.2	0.9	2.9	0.4	2.1	0.5	1.1	0.4	1.2	0.2	14.0	170	Saprock		
RRMDD827	0.00	1.43	1.43	112.8	195.9	24.9	88.8	16.1	2.4	13.5	2.1	13.3	2.5	7.9	0.8	7.2	1.0	76.4	566	Hardcap		
RRMDD827	1.43	2.85	1.42	120.2	491.4	26.9	94.8	16.5	2.7	14.6	2.3	13.7	2.7	7.9	0.6	8.1	1.1	78.6	882	Hardcap		
RRMDD827	2.85	3.80	0.95	112.6	466.8	25.7	87.8	17.2	2.9	13.3	2.4	13.4	2.7	7.9	0.6	8.1	1.1	78.5	841	Transition		
RRMDD827	3.80	4.69	0.89	89.4	150.5	18.6	64.0	11.6	1.9	10.3	1.6	9.7	1.9	5.9	0.8	6.1	0.8	61.8	435	Mottled		
RRMDD827	4.69	5.58	0.89	117.2	141.9	22.2	71.9	12.7	2.4	11.8	1.9	10.0	2.2	6.1	0.8	6.5	0.9	63.0	471	Mottled		
RRMDD827	5.58	6.47	0.89	129.0	167.7	25.4	82.8	13.3	2.1	11.9	1.7	10.4	2.0	5.4	0.9	5.9	0.9	68.8	528	Mottled		
RRMDD827	6.47	7.37	0.90	70.0	87.3	14.9	52.1	10.9	1.7	9.0	1.5	8.1	1.6	5.0	0.9	5.1	0.8	54.7	324	Mottled		
RRMDD827	7.37	8.13	0.76	80.3	139.4	21.4	76.9	14.3	2.4	12.6	1.7	10.8	2.0	6.3	0.9	5.7	0.8	72.8	448	Clay		
RRMDD827	8.13	8.89	0.76	32.6	71.6	9.0	32.8	6.3	1.2	6.6	1.0	6.5	1.1	3.4	0.8	3.8	0.5	39.5	217	Clay		
RRMDD827	8.89	9.83	0.94	209.9	308.3	53.8	184.9	32.4	5.7	27.1	3.4	17.4	3.4	9.1	0.8	7.0	0.9	128.9	993	Clay		
RRMDD827	9.83	10.77	0.94	107.2	202.1	27.5	111.2	19.3	3.8	17.3	2.4	13.9	2.7	7.4	0.9	6.2	0.9	94.0	617	Clay		
RRMDD827	10.77	11.71	0.94	67.8	223.0	17.9	73.8	13.6	3.0	13.0	1.8	10.4	2.0	5.4	0.7	4.5	0.7	70.0	508	Clay		
RRMDD827	11.71	12.65	0.94	31.7	57.7	10.6	41.3	8.8	1.6	8.3	1.2	6.9	1.5	4.4	0.8	3.6	0.5	54.9	234	Clay		
RRMDD827	12.65	13.57	0.92	58.5	69.9	20.8	83.2	15.9	3.1	16.5	2.4	13.5	2.7	6.9	0.7	5.9	0.8	96.9	398	Clay		
RRMDD827	13.57	14.43	0.86	110.1	122.1	36.2	145.8	29.5	6.0	27.3	3.8	21.1	4.4	12.0	0.7	9.0	1.3	155.6	685	Clay		
RRMDD827	14.43	15.29	0.86	161.3	337.8	51.3	194.8	35.3	6.7	30.9	4.6	24.2	4.7	12.6	0.7	10.7	1.5	176.5	1054	Clay		
RRMDD827	15.29	16.15	0.86	148.9	181.2	53.3	215.8	41.0	8.2	36.1	4.9	27.8	5.6	14.9	0.7	11.7	1.6	189.9	942	Clay		
RRMDD827	16.15	17.01	0.86	131.4	222.3	46.8	187.8	38.8	6.9	32.5	4.5	24.9	5.0	12.8	0.7	10.2	1.5	169.5	896	Clay		
RRMDD827	17.01	17.95	0.94	141.3	507.3	59.7	261.3	59.8	12.4	51.8	7.6	42.4	8.3	21.6	0.7	16.4	2.4	236.8	1430	Upper Saprolite		
RRMDD827	17.95	18.89	0.94	178.9	98.5	95.4	398.9	102.5	21.4	94.5	14.0	75.9	14.0	35.9	0.7	28.2	3.7	382.2	1545	Upper Saprolite		
RRMDD827	18.89	19.83	0.94	76.3	301.0	34.4	144.6	33.3	7.4	33.0	4.8	26.3	5.1	13.1	0.7	11.2	1.7	161.9	855	Upper Saprolite		
RRMDD827	19.83	20.77	0.94	96.3	78.6	46.0	193.6	42.6	8.5	43.2	6.3	32.5	6.5	16.6	0.7	13.2	1.9	208.9	795	Upper Saprolite		
RRMDD827	20.77	21.70	0.93	99.7	130.2	37.1	147.0	27.5	5.6	29.6	3.8	20.7	4.1	11.7	0.7	9.7	1.4	168.3	697	Upper Saprolite		
RRMDD827	21.70	22.50	0.80	109.1	228.5	29.5	109.6	15.9	3.4	17.2	2.1	11.9	2.5	6.5	0.8	6.0	0.8	108.6	652	Upper Saprolite		
RRMDD827	22.50	23.50	1.00	185.9	323.1	40.1	137.6	21.7	4.1	22.0	2.9	15.8	3.3	8.8	0.9	6.8	0.9	146.7	921	Lower Saprolite		
RRMDD827	23.50	24.34	0.84	58.9	103.6	14.4	53.5	9.9	1.8	9.6	1.3	7.3	1.6	4.6	0.6	3.9	0.6	74.5	346	Lower Saprolite		
RRMDD827	24.34	25.18	0.84	84.3	172.6	18.6	64.7	12.2	1.9	8.8	1.1	6.6	1.2	3.4	0.7	3.5	0.5	44.7	425	Lower Saprolite	**21.4**	**693**
RRMDD827	25.18	25.50	0.32	89.5	191.0	21.4	73.0	13.8	2.2	11.4	1.5	8.7	1.5	4.0	0.8	4.1	0.5	50.2	474	Saprock		
RRMDD828	0.00	1.45	1.45	115.8	176.9	23.7	80.9	13.3	2.0	11.1	1.6	9.4	1.9	5.4	0.7	5.2	0.8	56.1	505	Hardcap		
RRMDD828	1.45	2.90	1.45	167.1	301.0	31.5	103.3	14.8	2.3	10.7	1.6	9.3	1.6	4.8	0.5	4.6	0.6	41.4	695	Hardcap		
RRMDD828	2.90	3.80	0.90	148.4	620.3	31.5	99.3	17.7	2.4	12.2	1.7	9.7	1.8	5.0	0.4	5.1	0.7	48.1	1004	Transition		
RRMDD828	3.80	4.71	0.91	133.7	375.9	29.8	101.2	16.6	2.8	12.2	2.0	10.5	2.0	5.9	0.9	6.0	0.9	60.3	761	Clay		
RRMDD828	4.71	5.62	0.91	95.1	230.3	20.8	64.3	10.2	1.6	8.5	1.3	7.4	1.4	4.2	0.8	4.7	0.6	42.9	494	Clay		
RRMDD828	5.62	6.53	0.91	77.2	120.9	16.7	56.5	9.8	1.7	7.5	1.1	7.1	1.5	4.1	0.8	4.5	0.7	44.1	354	Clay	**2.7**	**536**
RRMDD828	6.53	7.42	0.89	33.4	84.8	8.5	31.1	5.7	1.2	5.4	0.8	4.6	1.1	3.2	0.6	3.1	0.5	30.0	214	Clay		
RRMDD828	7.42	8.44	1.02	30.1	79.2	7.8	31.5	6.6	1.1	5.5	0.8	5.6	1.1	3.4	1.0	3.5	0.6	31.7	210	Clay		
RRMDD828	8.44	9.46	1.02	52.8	124.1	11.5	44.3	6.8	1.6	7.2	1.1	7.0	1.4	4.3	1.0	4.2	0.5	41.3	309	Clay		
RRMDD828	9.46	10.48	1.02	148.9	281.3	34.3	122.5	18.6	3.1	15.4	2.1	11.3	2.2	6.0	0.9	5.0	0.7	70.0	722	Clay		
RRMDD828	10.48	11.48	1.00	174.7	330.4	44.3	170.3	27.8	4.8	24.3	3.2	16.7	3.2	9.2	0.9	6.6	0.8	111.1	928	Clay		
RRMDD828	11.48	12.25	0.77	130.8	215.6	27.7	101.9	15.2	3.0	15.0	1.9	11.2	2.0	5.9	0.8	4.8	0.7	58.3	595	Clay		
RRMDD828	12.25	13.02	0.77	77.4	155.4	19.2	70.2	11.4	2.1	8.9	1.4	7.8	1.5	4.3	0.7	4.2	0.5	40.9	406	Clay		
RRMDD828	13.02	13.89	0.87	77.3	176.3	27.8	126.6	26.7	5.6	24.4	3.6	20.4	4.3	12.2	0.9	10.2	1.3	126.6	644	Upper Saprolite		
RRMDD828	13.89	14.76	0.87	42.3	118.9	22.5	121.9	28.8	5.9	25.4	3.5	19.8	3.6	10.7	0.9	8.4	1.0	104.3	518	Upper Saprolite		
RRMDD828	14.76	15.63	0.87	91.4	168.9	24.8	100.0	22.0	4.5	21.4	3.4	19.8	3.9	10.7	0.9	8.9	1.3	120.4	602	Upper Saprolite		
RRMDD828	15.63	16.50	0.87	75.9	145.6	19.1	77.8	17.4	3.5	17.4	2.5	15.3	3.2	8.6	0.7	7.2	1.1	103.4	499	Upper Saprolite		
RRMDD828	16.50	17.50	1.00	41.0	83.9	12.0	59.4	15.0	3.4	17.6	2.8	17.0	3.5	10.1	0.8	8.3	1.1	100.4	376	Lower Saprolite		
RRMDD828	17.50	18.50	1.00	65.7	133.9	17.3	71.6	18.4	3.8	17.6	2.7	16.5	3.4	9.5	0.8	8.0	1.1	104.6	475	Lower Saprolite		
RRMDD828	18.50	19.50	1.00	57.7	124.7	15.4	70.2	14.7	2.8	15.2	2.2	11.8	2.5	7.2	0.8	5.7	0.6	78.7	410	Lower Saprolite	**10.0**	**564**
RRMDD829	0.00	2.00	2.00	71.1	215.6	14.9	49.5	8.4	1.5	7.1	1.2	6.5	1.3	4.1	0.7	4.0	0.6	37.2	424	Hardcap		
RRMDD829	2.00	4.00	2.00	76.5	285.0	16.0	58.0	9.9	1.7	8.3	1.2	7.7	1.5	4.6	0.5	5.1	0.6	39.9	516	Hardcap		

Hole ID	From m	To m	Int. m	La_2O_3 ppm	CeO_2 ppm	Pr_2O_3 ppm	Nd_2O_3 ppm	Sm_2O_3 ppm	Eu_2O_3 ppm	Gd_2O_3 ppm	Tb_2O_3 ppm	Dy_2O_3 ppm	Ho_2O_3 ppm	Er_2O_3 ppm	Tm_2O_3 ppm	Yb_2O_3 ppm	Lu_2O_3 ppm	Y_2O_3 ppm	TREO ppm	Regolith Zone	>200ppm TREO-CeO_2 Interval Length (m)	>200ppm TREO-CeO_2 Interval TREO ppm
RRMDD829	4.00	4.87	0.87	99.7	304.6	20.9	74.6	13.2	2.2	10.6	1.7	9.2	1.9	5.5	0.8	5.5	0.8	53.3	605	Transition		
RRMDD829	4.87	5.84	0.97	97.8	110.6	19.1	66.0	9.9	1.9	9.0	1.4	8.7	1.7	5.1	0.9	4.7	0.8	50.0	387	Mottled		
RRMDD829	5.84	6.81	0.97	75.5	111.3	14.8	50.3	8.8	1.6	7.5	1.1	6.9	1.3	4.0	0.8	4.0	0.6	40.1	328	Mottled	**1.9**	**358**
RRMDD829	6.81	7.78	0.97	44.1	103.3	10.0	37.3	7.3	1.1	5.4	0.9	5.2	1.0	3.2	0.7	3.4	0.5	30.0	253	Mottled		
RRMDD829	7.78	8.73	0.95	46.3	102.0	12.0	42.0	7.9	1.5	6.8	1.0	6.7	1.4	3.9	0.7	4.1	0.7	38.7	276	Mottled		
RRMDD829	8.73	9.72	0.99	25.0	62.6	6.4	24.3	4.8	0.8	3.8	0.6	3.9	0.9	2.6	0.7	3.1	0.5	25.4	165	Clay		
RRMDD829	9.72	10.70	0.98	34.7	46.6	6.0	20.5	4.4	0.6	3.0	0.5	3.6	0.7	2.5	0.8	2.6	0.5	21.1	148	Clay		
RRMDD829	10.70	11.70	1.00	26.5	49.0	5.4	19.6	4.0	0.6	3.3	0.5	3.7	0.8	2.0	1.0	2.5	0.4	22.5	142	Clay		
RRMDD829	11.70	12.50	0.80	49.8	91.9	11.7	44.1	6.5	1.2	5.5	0.8	4.6	1.0	3.2	0.8	3.3	0.4	30.7	256	Clay		
RRMDD829	12.50	13.30	0.80	38.8	109.8	9.8	35.9	6.3	1.0	6.3	0.9	5.0	1.0	3.6	0.8	3.1	0.5	34.5	258	Clay		
RRMDD829	13.30	14.10	0.80	96.1	215.0	25.5	94.8	14.5	2.6	10.4	1.5	7.7	1.5	4.3	0.9	3.9	0.5	49.9	529	Clay		
RRMDD829	14.10	14.93	0.83	629.8	573.7	104.5	297.4	34.6	5.6	22.1	2.8	13.9	2.4	7.0	1.2	5.8	0.7	74.4	1776	Clay		
RRMDD829	14.93	15.89	0.96	221.1	280.1	54.5	194.8	29.6	5.4	21.2	2.5	12.9	2.1	5.4	0.9	4.6	0.6	57.1	893	Upper Saprolite		
RRMDD829	15.89	16.85	0.96	140.7	260.4	46.4	199.5	35.8	7.0	28.2	3.6	20.1	3.5	8.8	1.0	7.7	0.9	92.8	857	Upper Saprolite		
RRMDD829	16.85	17.82	0.97	101.0	178.1	27.4	111.9	20.5	4.4	19.4	2.6	14.9	2.3	6.5	1.0	5.1	0.7	67.9	564	Upper Saprolite		
RRMDD829	17.82	18.84	1.02	82.8	173.2	20.4	82.2	14.1	2.9	13.9	2.0	11.2	1.9	5.8	0.8	5.1	0.6	49.4	466	Upper Saprolite		
RRMDD829	18.84	19.86	1.02	69.5	142.5	20.0	92.4	19.4	4.6	30.1	4.3	26.2	6.0	18.6	0.9	15.4	2.1	260.3	712	Upper Saprolite		
RRMDD829	19.86	20.86	1.00	75.8	163.4	18.5	66.0	12.7	2.6	11.2	1.7	9.1	1.8	4.7	0.8	4.5	0.7	65.4	439	Lower Saprolite		
RRMDD829	20.86	21.86	1.00	70.3	152.9	16.4	63.5	12.9	2.4	9.9	1.5	8.1	1.6	4.8	0.8	3.6	0.7	53.8	403	Lower Saprolite		
RRMDD829	21.86	22.86	1.00	73.7	159.7	18.0	63.3	11.9	2.2	9.0	1.2	7.4	1.3	3.7	0.9	3.0	0.6	39.7	396	Lower Saprolite		
RRMDD829	22.86	23.86	1.00	75.8	159.1	17.6	64.2	12.3	2.1	9.2	1.2	7.0	1.3	3.7	0.9	3.2	0.5	38.5	397	Lower Saprolite		
RRMDD829	23.86	24.85	0.99	69.8	148.0	16.3	61.4	12.1	2.1	10.1	1.6	9.2	1.8	5.3	0.8	4.5	0.7	54.6	398	Lower Saprolite	**11.6**	**637**
RRMDD829	24.85	25.50	0.65	70.5	151.1	16.7	61.0	11.5	2.3	10.0	1.5	9.3	1.8	5.3	0.8	4.6	0.7	56.0	403	Saprock		
RRMDD830	0.00	1.26	1.26	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	Hardcap		
RRMDD830	1.26	2.52	1.26	63.2	685.4	13.2	45.6	8.6	1.3	6.4	1.1	7.1	1.2	4.2	0.5	4.2	0.6	33.3	876	Hardcap		
RRMDD830	2.52	3.47	0.95	100.5	118.8	18.8	62.1	9.6	1.6	6.9	1.1	6.6	1.3	4.0	0.8	4.2	0.7	36.2	373	Mottled		
RRMDD830	3.47	4.42	0.95	75.8	67.2	14.0	42.9	6.4	1.2	5.8	0.8	5.1	1.1	3.4	0.6	3.4	0.5	28.7	257	Mottled		
RRMDD830	4.42	5.23	0.81	63.1	95.8	14.9	53.4	9.1	1.5	7.3	1.1	6.9	1.4	4.5	0.9	4.3	0.7	42.3	307	Mottled		
RRMDD830	5.23	6.04	0.81	122.0	162.8	28.8	103.5	19.4	3.5	16.9	2.8	16.6	3.5	10.8	0.9	9.1	1.5	118.4	620	Mottled		
RRMDD830	6.04	6.84	0.80	108.2	173.8	31.8	121.9	24.6	3.9	17.8	2.8	15.4	2.8	8.4	0.9	7.0	1.1	84.1	604	Mottled		
RRMDD830	6.84	7.83	0.99	122.6	216.2	34.6	130.6	26.2	4.4	20.9	3.2	18.5	3.8	11.4	0.8	9.9	1.6	121.3	726	Clay		
RRMDD830	7.83	8.82	0.99	97.1	175.7	27.1	105.3	20.1	3.5	15.9	2.4	13.2	2.6	7.6	0.7	6.7	1.1	75.7	555	Clay		
RRMDD830	8.82	9.81	0.99	78.3	159.1	22.8	91.7	20.1	3.5	15.6	2.4	13.0	2.5	7.6	0.7	7.4	1.3	79.2	505	Clay		
RRMDD830	9.81	10.80	0.99	79.5	157.8	23.0	95.6	22.9	4.6	20.4	3.3	20.7	4.3	13.6	0.5	11.8	1.9	144.1	604	Clay		
RRMDD830	10.80	11.58	0.78	71.4	158.5	18.5	78.3	21.8	5.1	33.1	5.9	39.9	8.8	26.9	0.6	21.4	3.5	278.1	772	Clay		
RRMDD830	11.58	12.35	0.77	195.3	287.4	68.5	303.3	59.3	12.1	73.4	11.5	69.9	15.2	44.0	0.5	36.3	6.2	539.7	1723	Clay		
RRMDD830	12.35	13.19	0.84	66.5	143.1	15.9	60.0	10.9	2.2	8.7	1.3	6.6	1.4	4.0	0.6	3.5	0.7	43.2	368	Clay		
RRMDD830	13.19	14.03	0.84	64.0	123.5	14.3	55.5	11.0	2.2	11.4	1.7	10.8	2.1	6.7	0.7	5.8	0.9	65.8	376	Clay		
RRMDD830	14.03	14.87	0.84	82.9	158.5	21.4	88.5	18.6	3.6	19.4	2.9	17.3	3.9	11.8	0.6	9.5	1.4	127.0	567	Clay		
RRMDD830	14.87	15.69	0.82	72.1	145.6	16.1	56.3	10.2	1.6	7.5	0.9	5.5	1.0	3.3	0.6	3.0	0.5	36.4	361	Clay		
RRMDD830	15.69	16.46	0.77	49.4	112.0	12.6	47.7	9.3	1.7	7.5	1.1	6.3	1.2	3.8	0.6	3.7	0.6	38.2	296	Upper Saprolite		
RRMDD830	16.46	17.22	0.76	65.7	129.0	13.4	46.9	8.1	1.3	6.3	0.8	4.8	1.0	3.5	0.6	3.5	0.6	30.1	316	Upper Saprolite		
RRMDD830	17.22	18.25	1.03	64.5	134.5	14.7	52.5	9.2	1.7	7.2	1.1	7.2	1.6	5.5	0.7	5.4	0.8	35.7	342	Lower Saprolite		
RRMDD830	18.25	19.28	1.03	55.6	119.5	13.2	51.4	9.1	1.9	8.3	1.4	8.3	1.7	5.6	0.6	5.1	0.8	46.6	329	Lower Saprolite		
RRMDD830	19.28	20.30	1.02	71.5	130.8	14.9	55.1	9.9	2.1	9.1	1.4	8.4	1.6	4.4	0.5	3.4	0.6	41.8	355	Lower Saprolite	**17.8**	**509**
RRMDD830	20.30	21.75	1.45	58.6	137.0	16.4	60.7	12.5	3.0	11.5	1.7	10.6	1.9	5.5	0.6	3.8	0.5	54.2	379	Saprock		
RRMDD830	21.75	23.20	1.45	60.8	120.3	12.2	40.2	6.6	1.4	5.3	0.7	3.8	0.7	2.1	0.6	1.7	0.3	22.0	279	Saprock		
RRMDD831	0.00	0.40	0.40	39.1	80.5	7.1	24.3	3.8	0.6	3.7	0.6	4.1	0.8	2.4	0.6	3.3	0.4	25.9	197	Soil		
RRMDD831	0.40	1.36	0.96	53.5	100.6	9.7	33.4	6.0	0.9	5.0	0.9	5.7	1.1	3.7	0.8	3.8	0.6	34.3	260	Clay		
RRMDD831	1.36	2.32	0.96	57.9	149.9	10.9	39.4	7.3	1.2	5.8	1.0	6.3	1.3	4.1	0.7	4.5	0.6	34.2	325	Clay		
RRMDD831	2.32	3.27	0.95	127.8	303.4	23.8	78.0	13.4	2.3	10.3	1.7	9.9	1.9	5.8	0.6	5.8	0.9	41.7	627	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
RRMDD831	3.27	4.35	1.08	407.0	620.3	88.2	317.3	54.3	8.9	37.9	5.3	28.7	5.0	14.1	0.8	10.7	1.6	138.4	1739	Upper Saprolite		
RRMDD831	4.35	5.30	0.95	228.7	258.0	47.8	181.4	29.8	5.2	24.0	3.4	19.2	3.8	11.2	0.6	9.5	1.4	127.0	951	Lower Saprolite		
RRMDD831	5.30	6.25	0.95	132.5	176.3	28.5	115.9	23.8	4.8	31.4	4.9	30.9	7.4	22.3	0.6	18.0	2.8	301.0	901	Lower Saprolite	**3.9**	**1077**
RRMDD831	6.25	7.82	1.57	84.6	146.2	19.5	74.1	14.3	2.5	12.9	1.9	10.9	2.4	7.1	0.7	5.8	0.9	89.1	473	Saprock		
RRMDD831	7.82	9.39	1.57	60.3	119.5	13.7	50.6	9.6	1.7	9.4	1.2	6.5	1.3	3.6	0.7	2.9	0.4	45.6	327	Saprock		
RRMDD831	9.39	10.95	1.56	54.3	125.3	12.7	47.7	8.9	1.9	7.7	1.1	5.6	1.1	3.2	0.6	2.7	0.4	38.4	312	Saprock		
RRMDD831	10.95	12.20	1.25	29.3	59.9	7.5	30.3	5.4	1.3	4.6	0.7	3.3	0.7	2.1	0.3	1.9	0.2	18.8	166	Saprock		
RRMDD832	0.00	2.04	2.04	69.9	128.4	14.5	49.1	8.5	1.3	7.4	1.2	8.0	1.5	4.8	0.7	4.8	0.7	44.2	345	Hardcap		
RRMDD832	2.04	4.08	2.04	170.1	572.4	34.3	115.9	18.2	2.8	12.1	1.8	9.8	1.7	5.1	0.5	5.2	0.7	43.6	994	Hardcap		
RRMDD832	4.08	4.92	0.84	714.2	1326.7	155.9	517.9	72.6	11.1	45.5	5.7	26.6	4.1	9.8	0.5	7.9	1.1	89.9	2990	Transition		
RRMDD832	4.92	5.49	0.57	90.2	117.8	18.7	63.8	10.5	1.6	7.3	1.0	6.2	1.2	3.3	0.8	3.7	0.5	33.0	360	Mottled		
RRMDD832	5.49	6.06	0.57	143.7	138.2	30.7	101.2	15.0	2.7	9.3	1.3	6.7	1.2	3.4	0.7	3.0	0.5	31.9	489	Mottled		
RRMDD832	6.06	6.80	0.74	194.7	210.7	41.9	139.4	20.9	3.3	12.0	1.5	8.0	1.5	3.5	0.7	2.9	0.5	35.6	677	Mottled		
RRMDD832	6.80	7.54	0.74	84.6	123.5	19.0	66.4	9.8	1.5	6.7	0.8	4.6	0.8	2.4	0.7	2.5	0.4	28.2	352	Mottled		
RRMDD832	7.54	8.27	0.73	65.9	97.0	14.9	51.7	8.5	1.4	5.9	0.8	4.4	0.9	2.7	0.8	2.4	0.5	27.2	285	Mottled		
RRMDD832	8.27	8.91	0.64	57.5	99.1	14.3	49.9	8.1	1.6	6.6	1.0	5.2	1.1	3.1	0.7	2.9	0.4	31.9	283	Upper Saprolite		
RRMDD832	8.91	9.55	0.64	114.1	159.7	29.7	111.9	18.4	2.8	12.2	1.7	9.4	1.9	5.4	0.7	4.9	0.6	57.1	531	Upper Saprolite		
RRMDD832	9.55	10.35	0.80	245.1	302.2	76.7	317.3	78.9	15.7	91.7	14.6	86.8	18.7	52.4	0.7	42.8	6.7	613.4	1964	Lower Saprolite		
RRMDD832	10.35	11.15	0.80	88.5	146.2	24.5	98.7	20.6	4.3	21.2	3.2	19.6	4.1	12.6	0.8	11.4	1.6	134.0	591	Lower Saprolite		
RRMDD832	11.15	11.95	0.80	124.9	205.8	45.4	237.9	55.7	12.2	87.6	13.9	93.7	22.9	70.6	0.7	63.1	9.6	886.4	1930	Lower Saprolite	**7.0**	**791**
RRMDD832	11.95	13.68	1.73	53.2	109.5	12.3	42.5	7.1	1.6	6.8	1.0	5.6	1.3	3.9	0.6	4.1	0.6	49.1	299	Saprock		
RRMDD832	13.68	15.40	1.72	72.9	141.3	17.5	65.4	11.9	2.6	9.7	1.4	8.2	1.5	3.9	0.8	2.9	0.5	39.5	380	Saprock		
RRMDD833	0.00	2.11	2.11	90.4	329.2	17.8	60.5	10.9	1.7	8.5	1.3	8.6	1.6	5.1	0.6	5.6	0.8	44.4	587	Hardcap		
RRMDD833	2.11	4.22	2.11	109.0	584.7	21.4	72.9	12.3	2.0	10.4	1.5	9.5	1.9	5.9	0.5	6.2	0.8	46.1	885	Hardcap		
RRMDD833	4.22	5.21	0.99	175.3	287.4	34.1	114.4	17.7	2.9	12.2	1.8	10.7	2.1	6.4	0.8	6.6	0.9	65.4	739	Mottled		
RRMDD833	5.21	6.20	0.99	88.9	244.5	18.2	59.7	10.2	1.6	8.1	1.2	7.3	1.5	4.7	0.7	5.0	0.7	46.1	498	Mottled		
RRMDD833	6.20	7.19	0.99	37.8	78.6	9.3	33.8	6.2	1.2	5.8	0.9	5.6	1.3	4.3	0.8	4.6	0.7	40.3	231	Mottled		
RRMDD833	7.19	8.19	1.00	224.0	237.1	63.6	239.1	37.6	5.8	23.0	2.9	13.4	2.2	5.3	0.8	4.6	0.7	52.8	913	Mottled		
RRMDD833	8.19	9.02	0.83	39.8	77.9	9.1	32.7	5.7	1.1	5.9	1.0	6.2	1.5	4.4	0.8	4.6	0.7	49.0	240	Clay		
RRMDD833	9.02	9.85	0.83	55.2	103.3	13.5	47.0	8.5	1.7	8.4	1.2	7.4	1.6	5.0	0.7	4.4	0.8	59.3	318	Clay		
RRMDD833	9.85	10.68	0.83	58.6	107.5	13.8	53.1	9.8	1.9	9.5	1.5	8.7	2.2	6.5	0.9	5.6	0.8	74.4	355	Clay		
RRMDD833	10.68	11.66	0.98	221.7	390.6	83.6	397.7	71.9	12.7	52.6	6.4	30.4	5.5	13.8	0.8	10.9	1.6	164.5	1465	Clay		
RRMDD833	11.66	12.73	1.07	74.0	130.2	19.9	87.8	19.5	3.6	18.7	2.5	13.6	2.9	8.0	0.7	7.5	1.0	101.8	492	Upper Saprolite		
RRMDD833	12.73	13.80	1.07	59.9	113.9	15.4	67.0	15.4	3.0	14.3	2.0	10.9	2.2	6.3	0.6	5.2	0.8	75.9	393	Upper Saprolite		
RRMDD833	13.80	14.37	0.57	30.7	61.1	7.0	29.7	7.9	1.6	8.8	1.5	10.1	2.5	7.2	0.5	6.9	1.0	83.8	260	Lower Saprolite		
RRMDD833	14.37	14.93	0.56	36.2	78.7	10.0	60.2	34.7	11.2	93.7	17.7	121.7	27.7	83.0	0.6	70.8	9.4	960.0	1616	Lower Saprolite		
RRMDD833	14.93	15.54	0.61	31.2	65.6	8.9	39.5	8.9	2.2	12.1	1.7	10.6	2.3	6.7	0.5	6.8	0.9	75.6	273	Lower Saprolite		
RRMDD833	15.54	16.15	0.61	45.6	98.4	11.2	44.3	9.0	1.7	10.3	1.6	10.9	2.4	7.7	0.6	7.8	1.0	89.1	342	Lower Saprolite	**11.9**	**581**
RRMDD833	16.15	18.08	1.93	46.9	101.1	12.0	50.5	11.9	2.5	16.3	2.4	15.6	3.7	10.8	0.6	9.2	1.3	137.1	422	Saprock		
RRMDD833	18.08	20.00	1.92	47.1	98.3	11.8	41.8	7.1	1.5	7.2	0.9	4.8	1.1	3.1	0.6	2.8	0.4	42.0	271	Saprock		
RRMDD834	0.00	1.67	1.67	62.7	178.7	14.9	54.2	9.5	1.5	8.2	1.3	7.9	1.5	4.7	0.6	4.8	0.8	45.5	397	Soil		
RRMDD834	1.67	3.34	1.67	96.5	283.8	19.0	64.5	11.9	1.9	8.5	1.4	8.6	1.8	4.9	0.5	4.8	0.8	47.2	556	Hardcap		
RRMDD834	3.34	3.70	0.36	552.4	1047.8	148.6	549.4	74.3	10.0	35.2	3.7	17.8	3.0	7.6	0.5	7.0	0.9	72.5	2531	Transition		
RRMDD834	3.70	4.76	1.06	177.1	361.1	38.8	137.1	20.0	3.3	15.0	2.2	14.1	2.7	8.5	0.8	8.1	1.2	91.8	882	Clay		
RRMDD834	4.76	5.82	1.06	117.3	344.0	31.3	112.2	19.4	3.1	16.9	2.6	14.8	3.0	9.1	0.9	9.7	1.2	95.5	781	Clay		
RRMDD834	5.82	6.88	1.06	192.3	249.4	51.6	179.6	28.1	4.3	20.7	3.0	16.0	3.1	8.7	0.9	8.2	1.1	94.5	862	Clay		
RRMDD834	6.88	7.94	1.06	361.2	296.0	116.7	491.1	73.1	11.6	49.2	5.9	25.8	4.2	10.1	0.8	8.7	1.1	109.3	1565	Clay		
RRMDD834	7.94	9.00	1.06	166.5	192.9	49.7	199.5	34.2	5.4	26.2	3.4	17.1	3.4	9.1	0.9	8.6	1.1	91.6	809	Clay		
RRMDD834	9.00	9.93	0.93	91.8	167.7	24.8	100.0	17.6	3.2	14.9	2.3	11.6	2.5	7.0	0.8	7.0	0.9	66.3	518	Clay		
RRMDD834	9.93	10.65	0.72	82.0	157.2	21.1	82.8	16.5	2.9	13.5	2.1	11.5	2.3	6.6	0.8	6.7	0.9	68.8	476	Clay		
RRMDD834	10.65	11.37	0.72	66.3	129.6	14.4	56.5	10.7	1.7	7.5	1.1	7.5	1.5	4.7	0.9	5.0	0.7	49.8	358	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
RRMDD834	11.37	12.16	0.79	71.9	144.3	16.9	64.5	11.4	2.1	9.7	1.4	7.7	1.6	4.3	0.8	4.5	0.6	57.0	399	Clay		
RRMDD834	12.16	12.95	0.79	205.2	395.5	61.9	267.1	51.6	9.9	51.3	6.6	31.7	5.6	13.6	0.7	10.4	1.3	144.8	1257	Clay		
RRMDD834	12.95	13.78	0.83	78.6	168.3	21.9	107.9	47.9	13.8	110.0	21.1	144.6	33.6	99.9	0.7	79.1	11.3	1182.3	2121	Clay		
RRMDD834	13.78	14.61	0.83	80.5	176.3	21.4	91.3	21.2	4.5	28.2	4.6	26.7	6.0	16.9	0.7	14.5	2.0	201.9	697	Clay		
RRMDD834	14.61	15.44	0.83	73.8	149.9	17.2	69.4	21.6	5.2	38.5	6.8	45.4	10.3	32.0	0.7	26.1	3.9	388.6	889	Clay		
RRMDD834	15.44	16.28	0.84	93.8	168.9	22.0	88.1	14.9	2.6	14.1	1.9	9.1	1.8	4.7	0.8	4.2	0.6	59.3	487	Clay		
RRMDD834	16.28	17.26	0.98	70.4	139.4	16.0	62.2	11.9	2.2	11.0	1.5	8.3	1.7	5.1	0.8	5.8	0.8	52.1	389	Upper Saprolite		
RRMDD834	17.26	18.25	0.99	67.0	137.6	16.4	63.6	13.2	2.5	10.9	1.4	7.2	1.4	3.7	0.6	3.6	0.5	37.6	367	Upper Saprolite	**14.6**	**812**
RRMDD834	18.25	18.83	0.58	19.0	45.2	4.3	17.5	5.1	1.2	6.2	1.0	6.4	1.3	4.0	0.6	4.2	0.7	38.1	155	Lower Saprolite		
RRMDD834	18.83	19.40	0.57	32.6	63.6	6.5	20.8	4.0	0.8	3.8	0.6	4.2	1.0	2.6	0.6	3.0	0.5	29.2	174	Lower Saprolite		
RRMDD834	19.40	20.10	0.70	34.6	79.6	8.3	30.7	7.0	1.1	5.9	0.9	4.9	1.1	3.5	0.7	3.3	0.5	33.7	216	Lower Saprolite		
RRMDD834	20.10	21.55	1.45	51.5	108.7	12.2	43.4	7.8	1.6	7.3	0.9	5.2	1.2	3.2	0.6	3.3	0.4	38.7	286	Saprock		
RRMDD834	21.55	23.00	1.45	54.3	117.1	13.1	52.6	10.5	1.7	8.7	1.1	5.6	1.1	3.0	0.6	3.1	0.4	40.6	314	Saprock		
RRMDD835	0.00	1.78	1.78	53.7	151.7	12.6	44.3	8.1	1.5	6.5	1.2	7.2	1.4	4.2	0.5	4.6	0.7	39.2	338	Hardcap		
RRMDD835	1.78	3.56	1.78	56.8	659.7	14.1	48.9	8.6	1.5	7.2	1.3	8.1	1.6	4.7	0.5	4.9	0.7	40.5	859	Hardcap		
RRMDD835	3.56	5.35	1.79	70.3	689.1	18.3	64.3	11.3	2.2	9.9	1.7	10.0	2.0	5.6	0.5	6.5	0.9	50.2	943	Hardcap		
RRMDD835	5.35	5.68	0.33	57.9	383.3	14.2	49.6	8.3	1.5	8.3	1.3	8.2	1.6	5.1	0.4	5.6	0.8	43.0	589	Transition		
RRMDD835	5.68	6.39	0.71	60.2	104.2	12.8	45.3	8.3	1.6	6.2	1.0	6.7	1.3	4.1	0.6	4.1	0.6	40.1	297	Clay		
RRMDD835	6.39	7.10	0.71	73.8	149.3	14.0	52.8	8.1	1.6	6.3	1.0	6.8	1.2	4.2	0.6	4.3	0.6	41.9	367	Clay		
RRMDD835	7.10	7.82	0.72	80.3	90.0	14.6	56.1	9.8	1.8	6.8	1.0	6.7	1.4	4.7	0.6	4.3	0.6	44.2	323	Clay		
RRMDD835	7.82	8.83	1.01	172.4	161.5	33.5	112.8	18.1	3.1	13.4	1.8	9.9	1.8	5.3	0.6	4.8	0.8	57.4	597	Clay		
RRMDD835	8.83	9.55	0.72	39.6	45.2	10.6	37.2	7.9	1.1	8.8	1.7	11.6	2.4	7.4	0.2	7.8	1.2	83.1	266	Upper Saprolite		
RRMDD835	9.55	10.36	0.81	74.0	53.8	21.5	75.0	14.6	2.3	11.9	1.7	9.3	1.8	5.5	0.6	5.0	0.7	61.2	339	Upper Saprolite		
RRMDD835	10.36	11.17	0.81	41.2	76.8	10.6	40.2	8.4	1.4	8.6	1.8	11.2	2.6	7.8	0.4	7.6	1.2	84.1	304	Upper Saprolite	**4.8**	**378**
RRMDD835	11.17	11.98	0.81	48.7	82.1	11.9	44.1	8.0	1.6	7.6	1.2	7.0	1.4	4.1	0.5	4.0	0.6	44.7	267	Upper Saprolite		
RRMDD835	11.98	12.80	0.82	36.9	72.0	9.4	34.6	6.5	1.5	6.1	1.0	5.8	1.1	3.2	0.4	3.1	0.5	35.0	217	Upper Saprolite		
RRMDD835	12.80	13.90	1.10	40.8	82.4	9.7	36.5	6.6	1.4	5.7	0.9	4.4	0.9	2.1	0.4	2.2	0.3	27.4	222	Upper Saprolite		
RRMDD835	13.90	15.00	1.10	34.9	72.2	8.8	32.5	7.0	1.8	9.6	1.5	10.3	2.2	6.9	0.4	5.9	0.9	76.7	272	Upper Saprolite		
RRMDD836	0.00	1.29	1.29	106.7	229.7	15.5	46.8	8.0	1.1	5.4	0.8	5.2	1.0	3.1	0.5	3.5	0.4	27.4	455	Hardcap		
RRMDD836	1.29	2.57	1.28	128.4	767.8	19.8	62.5	10.2	1.8	7.1	1.2	7.2	1.4	4.1	0.6	4.2	0.6	36.8	1054	Hardcap		
RRMDD836	2.57	3.19	0.62	64.6	181.2	12.4	39.3	6.5	1.1	5.8	0.9	5.6	1.2	3.3	0.5	3.6	0.5	34.7	361	Mottled		
RRMDD836	3.19	3.80	0.61	49.5	118.5	8.6	27.6	4.5	0.8	3.8	0.6	3.9	0.8	2.6	0.4	2.7	0.4	23.6	248	Mottled		
RRMDD836	3.80	4.74	0.94	219.3	148.6	51.8	169.7	31.1	5.9	25.8	4.2	25.2	4.9	14.3	0.6	11.8	1.7	156.8	872	Clay		
RRMDD836	4.74	5.68	0.94	106.3	344.0	30.2	106.5	18.7	3.8	16.4	2.5	14.1	2.7	7.5	0.6	6.5	1.1	81.9	743	Clay		
RRMDD836	5.68	6.62	0.94	94.4	105.2	36.2	131.2	25.3	4.2	19.2	2.7	15.0	2.8	8.1	0.6	6.0	1.0	86.9	539	Clay		
RRMDD836	6.62	7.56	0.94	52.5	61.2	16.7	64.4	11.7	2.0	10.3	1.6	8.9	1.7	4.7	0.4	4.7	0.7	53.8	295	Clay		
RRMDD836	7.56	8.50	0.94	114.0	107.2	42.8	172.6	33.6	6.5	29.3	4.3	24.0	4.4	11.1	0.7	9.2	1.5	132.7	694	Clay		
RRMDD836	8.50	9.19	0.69	112.9	151.7	46.9	190.7	36.6	6.9	30.0	4.0	22.3	4.0	10.3	0.7	8.4	1.2	122.2	749	Clay		
RRMDD836	9.19	9.77	0.58	17.8	36.5	6.2	24.6	4.7	1.0	5.0	0.8	5.0	1.1	3.1	0.3	2.8	0.4	31.6	141	Clay		
RRMDD836	9.77	10.34	0.57	27.0	88.0	8.6	35.1	6.3	1.4	7.9	1.1	7.2	1.4	4.1	0.4	3.9	0.5	49.4	242	Clay		
RRMDD836	10.34	11.08	0.74	91.0	141.9	28.4	120.7	21.2	3.7	16.7	2.3	13.8	2.6	6.6	0.6	6.3	0.9	86.2	543	Clay		
RRMDD836	11.08	11.78	0.70	36.4	60.7	9.2	38.0	6.5	1.2	5.7	0.9	6.4	1.3	3.9	0.4	3.4	0.5	45.3	220	Clay		
RRMDD836	11.78	12.47	0.69	45.6	116.6	13.4	50.4	8.5	1.9	9.4	1.4	8.5	1.6	4.8	0.5	4.8	0.6	63.5	332	Clay		
RRMDD836	12.47	13.40	0.93	53.0	99.0	12.0	45.0	7.6	1.3	7.1	0.9	6.9	1.4	3.8	0.5	3.1	0.5	58.9	301	Upper Saprolite		
RRMDD836	13.40	14.33	0.93	101.2	157.2	24.9	106.3	19.9	4.7	29.9	4.4	29.2	6.6	19.9	0.6	13.4	2.0	326.4	847	Upper Saprolite	**10.5**	**526**
RRMDD836	14.33	15.37	1.04	16.7	26.8	3.6	14.1	3.0	0.7	3.6	0.6	4.3	1.0	3.1	0.3	2.9	0.4	33.0	114	Upper Saprolite		
RRMDD836	15.37	16.40	1.03	17.1	30.7	4.0	13.3	2.6	0.6	2.3	0.4	2.5	0.6	1.7	0.3	1.6	0.3	19.9	98	Upper Saprolite		
RRMDD836	16.40	16.95	0.55	44.3	84.3	9.6	34.3	5.0	1.1	4.1	0.6	4.3	0.7	2.8	0.5	3.1	0.4	33.8	229	Lower Saprolite		
RRMDD836	16.95	17.50	0.55	91.0	169.5	21.9	87.9	15.5	3.8	16.2	2.4	14.6	3.2	10.5	0.5	9.4	1.3	104.5	552	Lower Saprolite		
RRMDD836	17.50	19.50	2.00	48.0	91.8	10.5	34.3	5.7	1.0	4.6	0.6	3.2	0.7	2.1	0.4	2.1	0.4	23.4	229	Saprock		
RRMDD837	0.00	1.80	1.80	141.3	410.3	21.7	61.6	9.0	1.4	6.7	1.1	6.7	1.3	3.7	0.6	3.8	0.6	31.1	701	Hardcap		

																				>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
RRMDD837	1.80	3.59	1.79	127.2	242.6	19.8	59.8	9.5	1.5	6.3	1.1	6.2	1.2	3.6	0.6	3.7	0.5	32.5	516	Hardcap		
RRMDD837	3.59	4.53	0.94	114.9	221.1	22.4	74.6	10.7	1.8	8.8	1.3	9.3	1.6	5.6	0.9	5.5	0.8	51.9	531	Transition		
RRMDD837	4.53	5.60	1.07	85.4	125.9	17.9	60.9	9.0	1.6	7.7	1.2	7.6	1.5	4.4	0.9	4.7	0.6	44.4	374	Mottled		
RRMDD837	5.60	6.67	1.07	75.2	130.8	16.2	51.8	8.3	1.6	7.5	1.1	7.1	1.4	3.9	0.9	4.0	0.7	38.9	349	Mottled		
RRMDD837	6.67	7.74	1.07	356.5	529.4	78.8	258.9	34.9	6.5	24.8	2.7	13.5	2.0	4.8	0.9	4.0	0.6	47.4	1366	Mottled		
RRMDD837	7.74	8.80	1.06	62.5	114.7	13.2	45.3	6.7	1.2	6.0	0.8	5.1	1.0	3.1	1.1	3.3	0.5	28.4	293	Mottled		
RRMDD837	8.80	9.80	1.00	124.3	187.9	32.0	111.0	17.6	3.4	14.4	1.7	8.6	1.5	3.5	1.0	3.5	0.5	38.2	549	Clay		
RRMDD837	9.80	10.75	0.95	252.2	434.9	64.9	229.2	34.4	5.7	24.0	2.5	11.4	1.7	4.0	1.2	3.3	0.6	41.9	1112	Upper Saprolite		
RRMDD837	10.75	11.69	0.94	70.3	138.8	16.4	54.7	9.3	1.6	6.7	0.9	5.3	0.9	2.9	1.0	2.5	0.4	27.3	339	Upper Saprolite		
RRMDD837	11.69	12.71	1.02	101.0	192.2	26.1	94.9	16.3	2.8	11.6	1.5	8.0	1.5	3.7	1.1	3.1	0.4	40.3	504	Lower Saprolite		
RRMDD837	12.71	13.73	1.02	110.1	207.6	24.3	82.5	11.8	2.1	8.9	1.2	6.4	1.1	2.8	1.2	2.6	0.4	30.7	494	Lower Saprolite		
RRMDD837	13.73	14.75	1.02	152.5	325.5	59.6	268.3	57.9	10.2	45.0	6.0	31.4	5.1	13.7	1.1	10.2	1.3	134.6	1122	Lower Saprolite	**10.2**	**649**
RRMDD837	14.75	16.60	1.85	80.9	177.5	24.4	111.9	25.7	5.4	32.3	4.7	26.7	5.6	15.7	0.9	11.7	1.7	221.6	747	Saprock		
RRMDD838	0.00	1.72	1.72	64.3	323.1	11.3	41.8	7.4	1.1	5.2	0.9	5.9	1.2	3.7	0.5	3.5	0.6	33.0	503	Hardcap		
RRMDD838	1.72	3.43	1.71	59.3	507.3	12.8	46.4	8.8	1.4	6.4	1.1	6.6	1.4	3.8	0.5	4.2	0.6	32.6	693	Hardcap		
RRMDD838	3.43	4.27	0.84	57.2	100.5	11.8	41.4	6.4	1.2	6.1	0.8	5.7	1.0	3.7	0.9	3.8	0.6	33.7	275	Clay		
RRMDD838	4.27	5.11	0.84	51.0	119.9	11.4	38.4	6.2	1.1	6.3	0.9	5.7	1.1	3.7	0.8	3.8	0.6	33.1	284	Clay		
RRMDD838	5.11	5.78	0.67	59.9	42.7	15.4	54.5	9.4	1.7	8.9	1.2	8.0	1.5	4.5	0.7	4.2	0.7	48.0	261	Clay		
RRMDD838	5.78	6.58	0.80	151.3	431.2	40.2	142.9	23.4	4.4	21.8	2.9	17.8	3.5	9.8	0.7	8.3	1.3	105.3	965	Clay		
RRMDD838	6.58	7.38	0.80	216.4	261.6	57.1	204.7	35.0	6.4	31.6	4.2	25.5	4.6	13.2	0.8	11.2	1.9	147.9	1022	Clay		
RRMDD838	7.38	8.18	0.80	110.6	80.8	29.6	107.0	19.6	4.0	18.4	2.7	14.5	2.9	7.9	0.6	7.1	1.1	82.9	490	Clay		
RRMDD838	8.18	9.14	0.96	197.6	243.8	60.5	219.9	42.3	8.3	40.8	5.3	32.1	5.9	16.7	0.7	13.4	2.0	169.5	1059	Clay		
RRMDD838	9.14	10.10	0.96	161.8	156.6	53.2	201.8	39.5	7.4	34.8	4.8	29.4	5.3	14.6	0.6	12.1	1.9	156.2	880	Clay		
RRMDD838	10.10	11.05	0.95	72.5	72.6	22.2	86.2	15.5	3.0	14.4	1.9	11.6	2.3	6.4	0.5	5.0	0.8	68.2	383	Clay		
RRMDD838	11.05	12.00	0.95	32.8	16.6	8.7	31.4	5.2	1.1	5.7	0.8	4.6	0.9	2.5	0.4	2.4	0.5	27.0	141	Clay		
RRMDD838	12.00	12.85	0.85	115.8	93.5	34.9	134.1	23.9	4.9	24.2	3.4	19.7	3.7	11.4	0.7	9.0	1.5	118.0	599	Clay		
RRMDD838	12.85	13.43	0.58	245.1	250.6	81.8	299.8	50.6	10.4	52.6	7.0	40.7	7.6	20.4	0.7	16.5	2.6	237.5	1324	Upper Saprolite		
RRMDD838	13.43	14.00	0.57	192.3	212.5	56.2	203.5	32.0	6.5	32.6	4.4	24.4	4.8	13.4	0.6	10.8	1.6	174.6	970	Upper Saprolite		
RRMDD838	14.00	15.00	1.00	200.0	260.4	39.1	136.5	18.4	3.7	18.4	2.4	12.3	2.7	8.3	0.6	6.1	1.0	125.7	836	Lower Saprolite		
RRMDD838	15.00	16.00	1.00	83.6	124.1	14.1	48.9	7.3	1.5	7.0	0.9	5.5	1.1	3.0	0.6	2.9	0.4	41.4	342	Lower Saprolite		
RRMDD838	16.00	17.00	1.00	60.5	117.8	13.4	47.9	8.2	1.9	6.8	1.0	5.5	1.0	2.8	0.6	2.7	0.4	29.6	300	Lower Saprolite		
RRMDD838	17.00	18.00	1.00	68.8	151.7	17.9	62.4	12.4	2.8	9.8	1.4	7.2	1.3	3.8	0.6	3.1	0.4	38.5	382	Lower Saprolite	**12.9**	**637**
RRMDD839	0.00	1.11	1.11	67.1	242.0	13.8	47.7	9.0	1.5	6.2	1.1	6.9	1.2	3.9	0.6	3.9	0.6	37.0	442	Hardcap		
RRMDD839	1.11	3.13	2.02	92.2	359.9	21.6	78.7	12.5	2.0	9.6	1.5	10.0	1.9	5.8	0.8	5.8	1.0	59.4	663	Transition		
RRMDD839	3.13	4.08	0.95	62.5	91.4	15.5	55.3	9.1	1.9	8.4	1.1	7.2	1.4	4.8	0.8	4.3	0.7	46.0	310	Mottled		
RRMDD839	4.08	5.03	0.95	88.7	119.6	21.7	78.7	12.8	2.3	12.2	1.7	10.9	2.1	6.5	1.0	5.7	1.0	68.4	433	Mottled		
RRMDD839	5.03	5.98	0.95	126.7	146.8	28.8	99.4	16.1	2.9	16.2	2.1	12.7	2.6	7.6	0.8	6.9	1.2	85.6	556	Mottled		
RRMDD839	5.98	6.93	0.95	114.6	124.1	29.4	110.5	18.1	3.6	16.0	2.5	13.5	2.9	8.3	0.7	7.3	1.0	94.2	547	Mottled		
RRMDD839	6.93	7.90	0.97	113.1	113.3	28.0	103.0	17.2	3.3	15.9	2.4	13.8	2.8	8.3	0.8	7.4	1.1	92.3	523	Mottled		
RRMDD839	7.90	8.79	0.89	168.3	181.2	46.8	180.8	32.4	6.5	27.0	4.4	23.5	4.4	13.3	0.7	11.3	1.5	146.7	849	Clay		
RRMDD839	8.79	9.68	0.89	171.2	176.3	47.8	178.5	31.8	6.2	27.8	4.2	23.5	4.5	13.3	0.7	11.2	1.4	146.7	845	Clay		
RRMDD839	9.68	10.58	0.90	116.5	119.4	31.4	117.8	21.1	4.0	18.2	2.6	15.0	3.0	8.4	0.6	7.4	0.9	97.7	564	Clay		
RRMDD839	10.58	11.45	0.87	97.9	193.5	24.4	91.6	14.9	3.2	13.6	2.0	11.4	2.4	7.5	0.6	6.2	0.8	76.2	546	Upper Saprolite		
RRMDD839	11.45	12.32	0.87	117.9	64.0	31.8	116.6	19.7	4.0	17.8	2.7	14.7	2.9	8.9	0.7	7.2	0.9	97.8	508	Upper Saprolite		
RRMDD839	12.32	13.19	0.87	98.4	47.7	26.6	98.7	16.9	3.6	16.1	2.5	13.6	2.6	7.8	0.6	6.4	0.8	85.0	427	Upper Saprolite		
RRMDD839	13.19	14.15	0.96	283.8	206.4	86.7	332.4	58.4	11.7	52.7	7.6	40.3	7.8	20.6	0.7	17.0	2.3	238.1	1367	Lower Saprolite		
RRMDD839	14.15	15.11	0.96	212.3	222.3	56.5	208.8	31.5	6.4	29.3	4.1	20.7	4.2	11.9	0.6	9.6	1.2	154.9	974	Lower Saprolite		
RRMDD839	15.11	16.07	0.96	102.6	120.1	22.8	82.8	10.4	2.3	10.5	1.3	7.4	1.5	5.1	0.6	3.4	0.5	65.7	437	Lower Saprolite		
RRMDD839	16.07	17.03	0.96	80.8	97.4	20.2	73.5	10.5	2.1	10.1	1.4	7.2	1.6	4.1	0.5	3.6	0.5	56.1	370	Lower Saprolite	**13.9**	**618**
RRMDD839	17.03	18.00	0.97	46.1	75.1	9.2	30.3	4.1	1.0	4.0	0.6	3.2	0.7	2.1	0.5	2.1	0.2	23.9	203	Lower Saprolite		

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*	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.

<table>
<tr><th>Criteria</th><th>JORC Code explanation</th><th>Commentary</th></tr>
<tr><td></td><td>and grade and whether sample bias may have occurred due to preferential loss/gain of fine/coarse material.</td><td></td></tr>
<tr><td>Logging</td><td>• 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.</td><td>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.</td></tr>
<tr><td>Sub-sampling techniques and sample preparation</td><td>• If core, whether cut or sawn and whether quarter, half or all core taken.
• If non-core, whether riffled, tube sampled, rotary split, etc and whether sampled wet or dry.
• For all sample types, the nature, quality and appropriateness of the sample preparation technique.
• Quality control procedures adopted for all sub-sampling stages to maximise representivity of samples.
• Measures taken to ensure that the sampling is representative of the in situ material collected, including for instance results for field duplicate/second-half sampling.
• Whether sample sizes are appropriate to the grain size of the material being sampled.</td><td>Where the core contained continuous lengths of soft clay a carving knife was used to cut the core. When the core was too hard to knife cut it was cut using an electric core saw.
Sample lengths were determined by geological boundaries with a maximum sample length of 1 metre applied in clay zones and up to 2 metres in laterite zones where core recovery was occasionally low.
Samples were collected from core trays by hand and placed in individually numbered bags. These bags were dispatched to ALS for analysis with no further field preparation.
Sample weights were recorded prior to sample dispatch. Sample mass is considered appropriate for the grain size of the material being sampled that is generally very fine grained and uniform.
Field duplicate sampling was conducted at a ratio of 1:25 samples. Duplicates were created by lengthways halving the ¼ core primary sample into 2 identical portions. Duplicate samples were allocated separate sample numbers and submitted with the same analytical batch as the primary sample..</td></tr>
<tr><td>Quality of assay data and laboratory tests</td><td>• The nature, quality and appropriateness of the assaying and laboratory procedures used and whether the technique is considered partial or total.
• For geophysical tools, spectrometers, handheld XRF instruments, etc, the parameters used in determining the analysis including instrument make and model, reading times, calibrations factors applied and their derivation, etc.
• Nature of quality control procedures adopted (eg standards, blanks, duplicates, external laboratory checks) and whether acceptable levels of accuracy (ie lack of bias)</td><td>Assay and Laboratory Procedures – All Samples
Samples were dispatched by air freight direct to ALS laboratory Perth Australia. The preparation and analysis protocol used is as follows:
<table>
<tr><th>ALS Code</th><th>Description</th></tr>
<tr><td>WEI-21</td><td>Received sample weight</td></tr>
<tr><td>LOG-22</td><td>Sample Login w/o Barcode</td></tr>
<tr><td>DRY-21</td><td>High temperature drying</td></tr>
<tr><td>CRU-21</td><td>Crush entire sample</td></tr>
</table></td></tr>
</table>

Criteria	JORC Code explanation	Commentary
	and precision have been established.	

CRU-31	Fine crushing – 70% <2mm
SPL-22Y	Split sample – Boyd Rotary Splitter
PUL-31h	Pulverise 750g to 85% passing 75 micron
CRU-QC	Crushing QC Test
PUL-QC	Pulverising QC test

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

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

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

The sample preparation and assay techniques used are industry standard and provide a total analysis.

All laboratories used are ISO 17025 accredited.

QAQC

<u>Diamond Drill Core Samples</u>

- Analytical Standards

CRM AMIS0275 and AMIS0276 and a specific Makuutu CRM MUIACREI01 were included in sample batches at a ratio of 1:25 to drill samples submitted. This is an acceptable ratio.

The assay results for the standards were consistent with the certified levels of accuracy and precision and no bias is evident.

- Blanks

Criteria	JORC Code explanation	Commentary
		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-

Criteria	JORC Code explanation	Commentary
		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
Ho	1.1455	Ho_2O_3
La	1.1728	La_2O_3
Lu	1.1371	Lu_2O_3
Nd	1.1664	Nd_2O_3
Pr	1.2082	Pr_6O_{11}
Sm	1.1596	Sm_2O_3
Tb	1.1762	Tb_4O_7
Tm	1.1421	Tm_2O_3
Y	1.2699	Y_2O_3
Yb	1.1387	Yb_2O_3
Sc	1.5338	Sc_2O_3

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

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

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

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

Criteria	JORC Code explanation	Commentary
		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 Differential GPS. For this type of instrument, the general accuracy in x, y and z coordinates is < 0.2m. Datum WGS84 Zone 36 North was used for location data collection and storage. This is the appropriate datum for the project area. No grid transformations were applied to the data.
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.*	Core drill holes have been drilled on a nominal 200 metre x 200 metre spacing, based on geostatistical and geological continuity sufficient for satisfying Indicated level mineral resource estimation confidence.
Orientation of data in relation to geological structure	• *Whether the orientation of sampling achieves unbiased sampling of possible structures and the extent to which this is known, considering the deposit type.* • *If the relationship between the drilling orientation and the orientation of key mineralised structures is considered to have introduced a sampling bias, this should be assessed and reported if material.*	Orientation of potential mineralisation is generally horizontal as seen across the Makuutu deposit

Criteria	JORC Code explanation	Commentary
Sample security	• *The measures taken to ensure sample security.*	After collection, the samples were transported by Company representatives to Entebbe airport and dispatched via airfreight to Perth Australia. Samples were received by Australian customs authorities in Perth within 48 hours of dispatch and were still contained in the sealed shipment bags. Samples were subsequently transported from Australian customs to ALS Perth via road freight and inspected on arrival by a Company representative
Audits or reviews	• *The results of any audits or reviews of sampling techniques and data.*	No audits or reviews have been undertaken

Section 2 Reporting of Exploration Results

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

Criteria	JORC Code explanation	Commentary
Mineral tenement and land tenure status	• *Type, reference name/number, location and ownership including agreements or material issues with third parties such as joint ventures, partnerships, overriding royalties, native title interests, historical sites, wilderness or national park and environmental settings.* • *The security of the tenure held at the time of reporting along with any known impediments to obtaining a licence to operate in the area.*	The Makuutu Project is located in the Republic of Uganda. The mineral tenements comprise one mining licence (LML00334), two (2) granted Retention Licences (RL00007 and RL00234), three (3) Exploration Licences (EL00147, EL00148 and EI00257). 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 60% shareholding in RRM and has agreed terms to move to 94% ownership in 2024. IonicRE also continues discussions on the remaining 6% ownership. 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 (Completed) 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 (Completed); and b. US$375,000 on conversion of existing licences to mining licences (Completed). 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:

Criteria	JORC Code explanation	Commentary
		1980: Country wide airborne geophysical survey identifying uranium anomalies in the Project area. 1990s: French BRGM and Ugandan DGSM undertook geochemical and geological survey over South-Eastern Uganda including the Project area. Anomalous Au, Zn, Cu, Sn, Nb and V identified. 2006-2009: Country wide high resolution airborne magnetic and radiometric survey identified U anomalism in the Project area. 2009: Finland GTK reprocessed radiometric data and refined the Project anomalies. 2010: Kweri Ltd undertook field verification of radiometric anomalies including scout sampling of existing community pits. Samples showed an enrichment of REE and Sc. 2011: Kweri Ltd conducted ground radiometric survey and evaluated historic groundwater borehole logs. 2012: Kweri Ltd and partner Berkley Reef Ltd conducted prospect wide pit excavation and sampling of 48 pits and a ground gravity traverse. Pit samples showed enrichment of REE weathered profile. Five (5) samples sent to Toronto Aqueous Research Laboratory for REE leach testwork. 2016 – 2017: Rwenzori Rare Metals conduct excavation of 11 pits, ground gravity survey, RAB drilling (109 drill holes) and one (1) diamond drill hole. The historic exploration has been conducted to a professional standard and is appropriate for the exploration stage of the prospect. 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.

Criteria	JORC Code explanation	Commentary
		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.* • *The assumptions used for any reporting of metal equivalent values should be clearly stated.*	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
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..

Criteria	JORC Code explanation	Commentary
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