Exceptional assay results at Monte Alto Project

- Monte Alto diamond drilling program extends the strike, continuity and depth of the ultra-high grade REE-Nb-Sc-U mineralisation
- New assay results returned rare earth grades of up to **39.1% Total Rare Earth Oxide (TREO)**[1]
- Diamond drilling returned the longest mineralised intercept to date with **75.8m at 13.8% TREO,** including **47.1m at 19.6% TREO** and **16m at 29.1% TREO**
- Exceptional grades of up to **68,341ppm NdPr**[1]**, 3,381ppm DyTb**[1]**, 14,349ppm niobium, 313ppm scandium** and **5,191ppm uranium**
- Diamond drilling continued to intercept shallow, free-dig and high-grade monazite sand mineralisation above the hard rock deposit, with highlights including 24.9m at 3.9% TREO from surface, and 19.7m at 3.5% TREO from 6.5m depth
- Niobium and tantalum are often found in association - the potential for tantalum mineralisation is under review with a systematic re-analysis of all Monte Alto drillhole data
- Reported assays are from 22 diamond core holes totalling 3,430 meters, with assays pending for another 51 diamond core holes totalling 8,009 metres

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Significant intercepts from the latest Monte Alto diamond drilling results include:

- **75.8m at 13.8% TREO** from 137.6m with 23,212ppm NdPr and 1,123ppm DyTb, plus 3,737ppm Nb_2O_5, 125ppm Sc_2O_3 and 1,684ppm U_3O_8 (MADD0099)
  - Including: **47.1m at 19.6% TREO** from 137.6m with 32,783ppm NdPr and 1,571ppm DyTb, plus 5,308ppm Nb_2O_5, 176ppm Sc_2O_3 and 2,384ppm U_3O_8. (MADD0099)
  - Including: **16m at 29.1% TREO** from 168m with 50,462ppm NdPr and 2,346ppm DyTb, plus 7,937ppm Nb_2O_5, 129ppm Sc_2O_3 and 2,984ppm U_3O_8 (MADD0099)
- **13.2m at 34.7% TREO** from 53.5m with 58,082ppm NdPr and 2,967ppm DyTb, plus 10,020ppm Nb_2O_5, 217ppm Sc_2O_3 and 3,942ppm U_3O_8 (MADD0042)
  - Including: **1m at 39.1% TREO** from 55m with 66,120ppm NdPr and 3,381ppm DyTb, plus 10,412ppm Nb_2O_5, 230ppm Sc_2O_3 and 4,230ppm U_3O_8. (MADD0042)
- **18m at 20.7% TREO** from 23m with 35,535ppm NdPr and 1,745ppm DyTb, plus 8,198ppm Nb_2O_5, 140ppm Sc_2O_3 and 1,998ppm U_3O_8 (MADD0044)
  - Including: **10.8m at 27.9% TREO** from 27m with 49,634ppm NdPr and 2,437ppm DyTb, plus 11,265ppm Nb_2O_5, 196ppm Sc_2O_3 and 2,760ppm U_3O_8 (MADD0044)
- **12.8m at 19.4% TREO** from 61.3m with 32,097ppm NdPr and 1,603ppm DyTb, plus 5,341ppm Nb_2O_5, 189ppm Sc_2O_3 and 2,414ppm U_3O_8 (MADD0046)
  - Including: **4.3m at 31.2% TREO** from 65m with 53,236ppm NdPr and 2,717ppm DyTb, plus 8,960ppm Nb_2O_5, 196ppm Sc_2O_3 and 3,523ppm U_3O_8 (MADD0046)
- **15m at 14.1% TREO** from 29m with 21,047ppm NdPr and 1,005ppm DyTb, plus 3,848ppm Nb_2O_5, 177ppm Sc_2O_3 and 1,620ppm U_3O_8 (MADD0045)

- **8.2m at 18.8% TREO** from 90m with 30,736ppm NdPr and 1,599ppm DyTb, plus 5,266ppm Nb_2O_5, 159ppm Sc_2O_3 and 2,169ppm U_3O_8 (MADD0021)
- **7m at 21% TREO** from surface with 31,399ppm NdPr and 1,638ppm DyTb, plus 8,055ppm Nb_2O_5, 85ppm Sc_2O_3 and 2,597ppm U_3O_8 (MADD0002)
- **5.4m at 18.7% TREO** from surface with 29,615ppm NdPr and 1,484ppm DyTb, plus 9,173ppm Nb_2O_5, 103ppm Sc_2O_3 and 2,028ppm U_3O_8 (SDD0003)
- **11.4m at 12.6% TREO** from 9.6m with 20,684ppm NdPr and 1,027ppm DyTb, plus 3,480ppm Nb_2O_5, 93ppm Sc_2O_3 and 1,628ppm U_3O_8 (MADD0018)
  - Including: **1m at 33.5% TREO** from 17m with 57,656ppm NdPr and 2,920ppm DyTb, plus 11,721ppm Nb_2O_5, 248ppm Sc_2O_3 and 5,191ppm U_3O_8 (MADD0018)
- **5.1m at 20.3% TREO** from 67.9m with 35,541ppm NdPr and 1,641ppm DyTb, plus 6,452ppm Nb_2O_5, 146ppm Sc_2O_3 and 2,249ppm U_3O_8 (MADD0045)
- **5.2m at 16.1% TREO** from 115.3m with 26,479ppm NdPr and 1,306ppm DyTb, plus 4,155ppm Nb_2O_5, 175ppm Sc_2O_3 and 1,882ppm U_3O_8 (MADD0021)

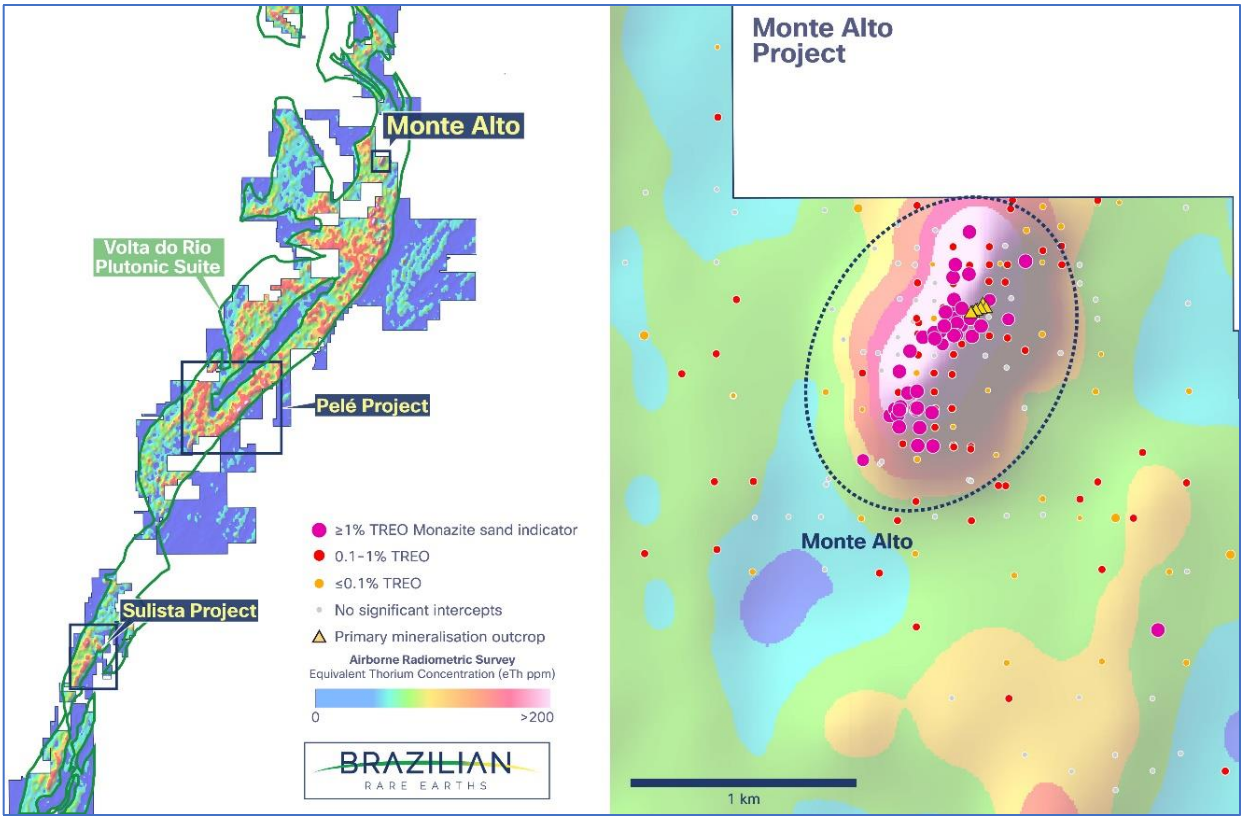

Figure 1: Location of the Monte Alto exploration projects[2]

Note [1] TREO = Total Rare Earth Oxides; NdPr = Nd_2O_3 + Pr_6O_{11}; DyTb = Dy_2O_3 + Tb_4O_2
Note [2] Refer to End Notes for details of previously reported exploration results

Brazilian Rare Earths Limited (ASX:BRE) (BRE) is pleased to report the latest assay results for the diamond drill program at the Monte Alto Rare Earths Project (Monte Alto) located in Bahia, Brazil.

Reported assays are from 22 diamond core holes totalling 3,430 meters, and, as at the date of the announcement, there are another 51 diamond core holes, totalling 8,009 metres, with assays pending. The latest diamond drilling results expand and extend the continuity of ultra-high grade REE-Nb-Sc-U mineralised zones along the +800m long Monte Alto target exploration corridor.

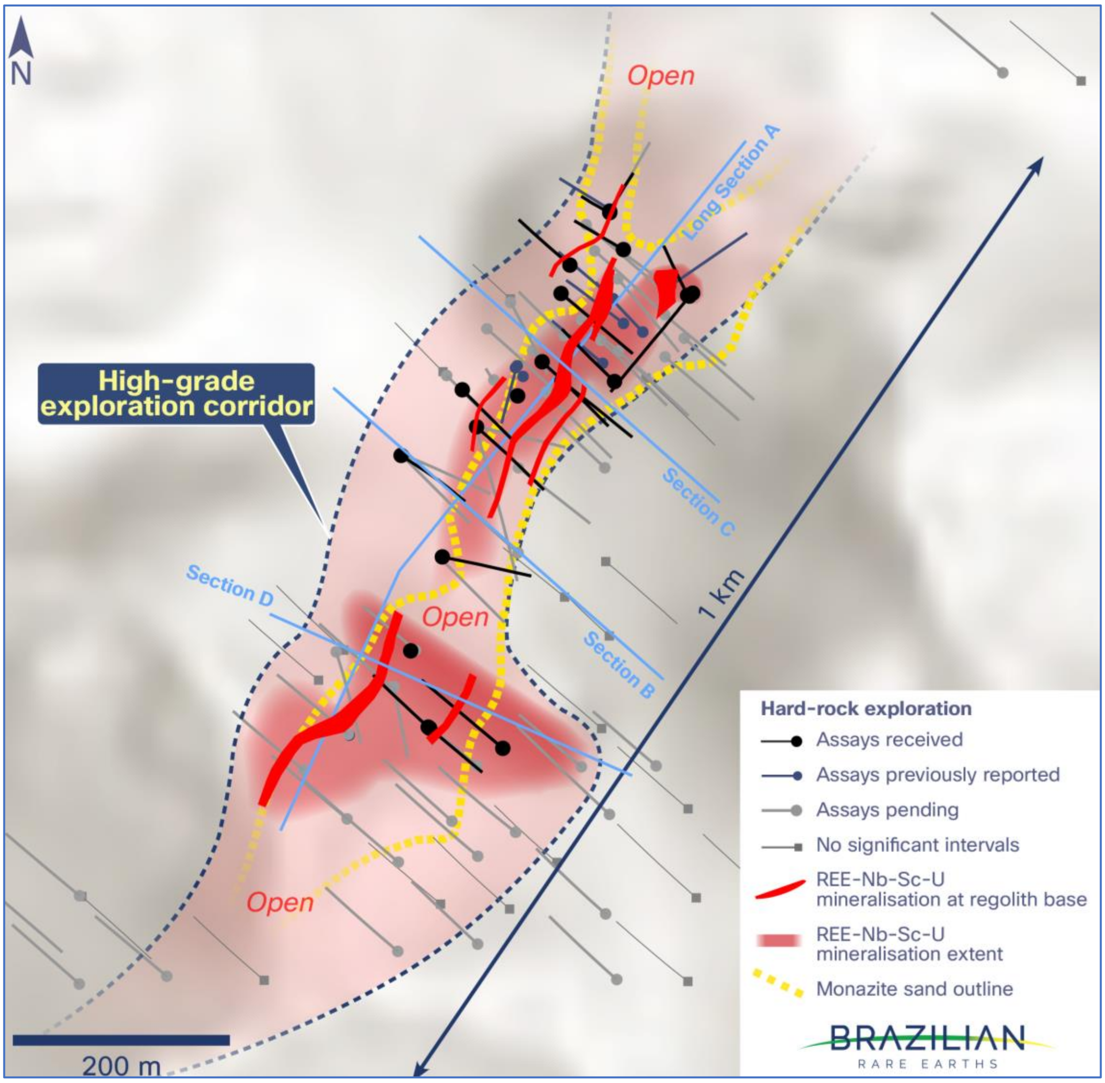

Figure 2: Monte Alto Project Exploration Corridor – Plan View[2]

The latest drilling results intersected numerous wide intervals of high (+10% TREO) and ultra-high grade REE-Nb-Sc-U (+20% TREO) mineralised zones under the free-dig monazite sand mineralisation cap that extends from surface down to ~75m below surface.

Exceptional rare earth grades of up to 39.1% TREO were recorded, the highest-grade rare earth assay for a diamond drill sample of hard rock mineralization at the project so far, with up to 68,341ppm NdPr and 3,381ppm of the heavy rare earths DyTb. In addition to these ultra-high rare earth grades, the hard rock mineralisation recorded niobium grades of up to 1.4%, scandium grades of up to 313ppm and uranium grades of up to 5,191ppm.

Note [2] Refer to End Notes for details of previously reported exploration results

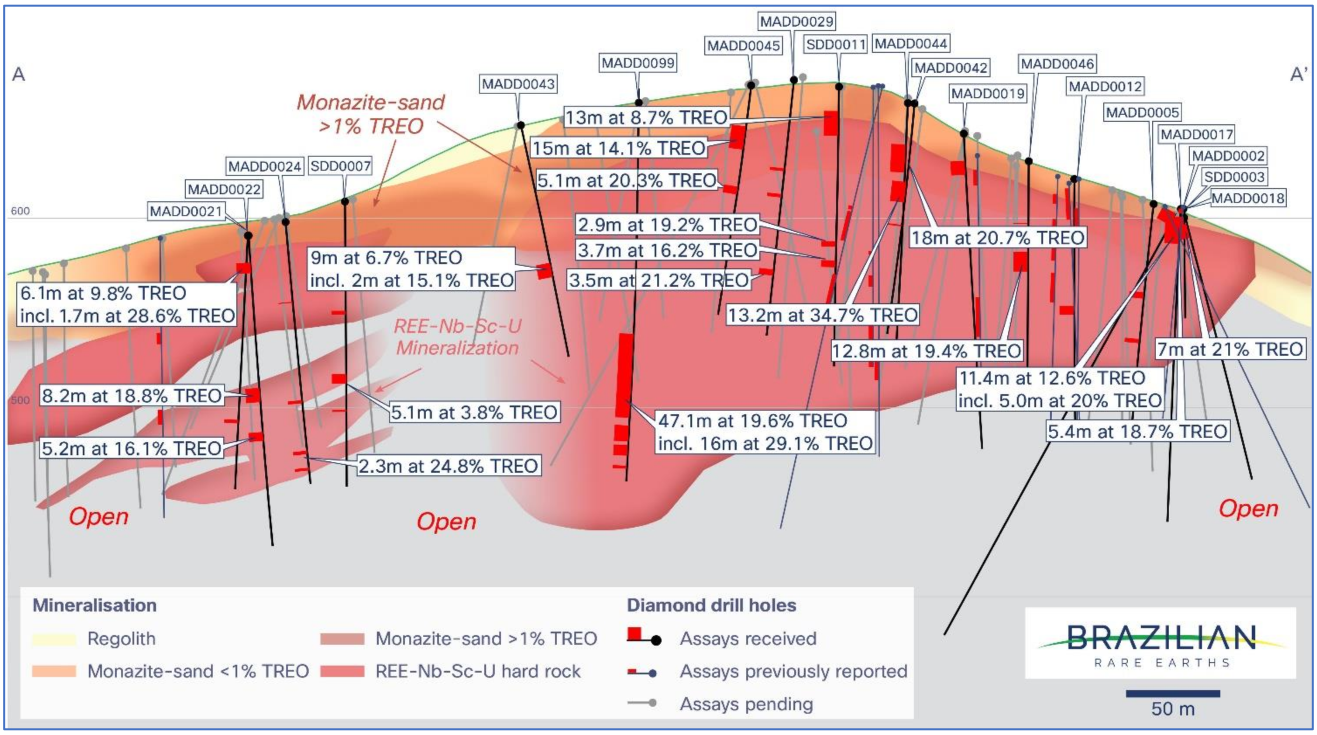

Figure 3: Long section view to the northwest with high-grade REE-Nb-Sc-U intercepts underneath the high-grade monazite sand mineralised cap[2]

Across the central and northern parts of the Monte Alto exploration project corridor, the latest drilling successfully delineated a parallel series of REE-Nb-Sc-U cumulate zones that extend from the shallow monazite sand mineralised cap and plunge to the southeast.

Drillhole MADD0099 recorded the longest REE-Nb-Sc-U intercept to date (75.8m at 13.8% TREO, including 47.1m at 19.6% TREO and 16m at 29.1% TREO). This outstanding drill hole intersected the edge of a high-grade plunging mineralised trend, where it remains open to the south and at depth. The high-grade mineralised intercept begins ~80m vertically below the base of monazite sand mineralised cap.

In the northern part of the Monte Alto project, extensive zones of thick REE-Nb-Sc-U mineralisation were delineated below the base of high-grade monazite sand cap over a strike distance of +250m. These shallow mineralised zones recorded exceptional grades, with the latest results including: 13.2m at 34.7% TREO (MADD0042), 4.3m at 31.2% TREO (MAD0046), and 10.8m at 27.9% TREO (MADD0044). These ultra-high grade mineralised zones have a gentle to moderate dip, and the recorded down hole lengths are equivalent to true thickness.

The latest drilling results from the southern end of Monte Alto intersected a series of stacked high-grade cumulate horizons of up to 8.2m at 18.8% TREO (MADD0021) and delineated numerous gently dipping high-grade REE-Nb-Sc-U cumulate horizons with vertical thicknesses of ranging from 1m to 8m, and total stacked cumulative thickness reaching +10m.

Note [2] Refer to End Notes for details of previously reported exploration results

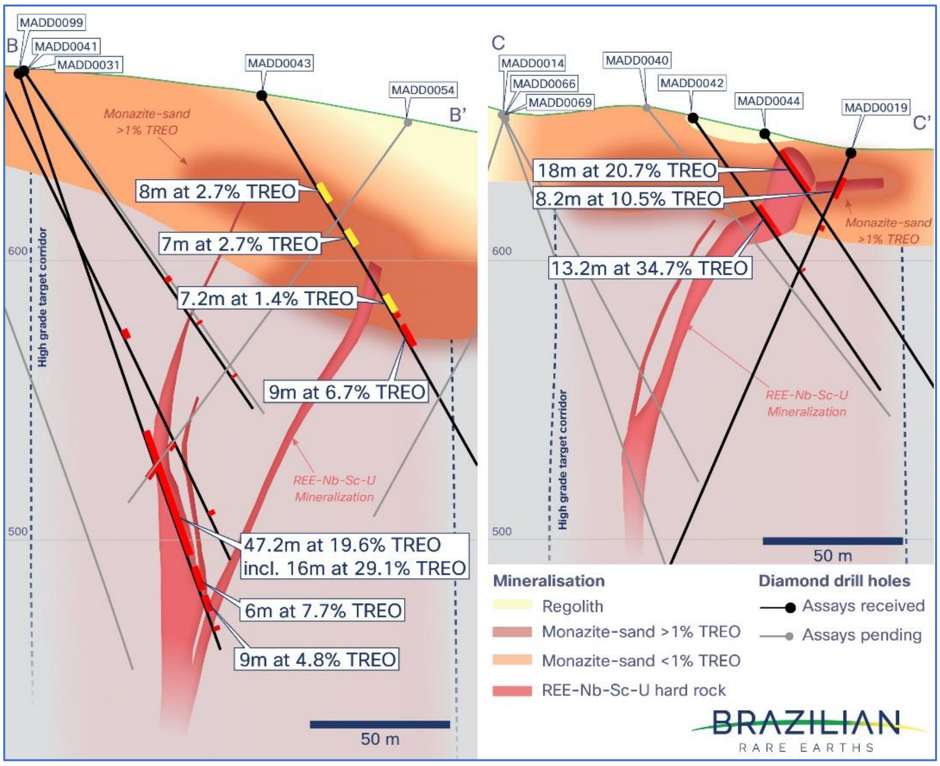

Figure 4: Cross section view to the northeast at the central and northern sections of Monte Alto with high-grade REE-Nb-Sc-U intercepts below the high-grade monazite sand mineralised cap

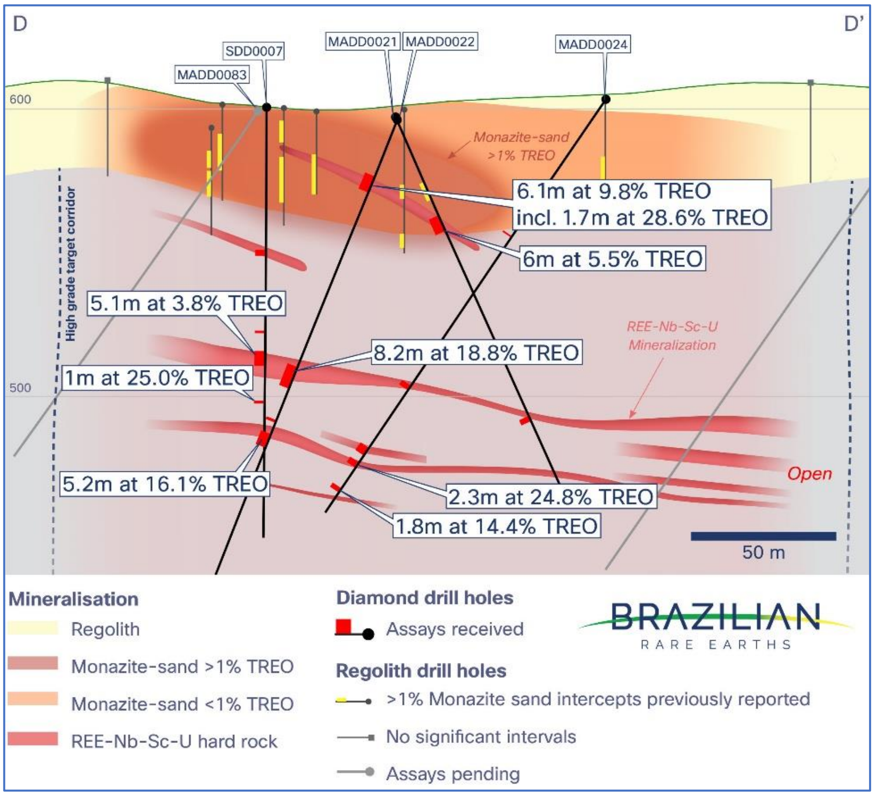

Figure 5: Cross section view to the northeast at the southern sections of Monte Alto, showing numerous stacked high-grade REE-Nb-Sc-U horizons below the high-grade monazite sand mineralised cap[2]

Note [2] Refer to End Notes for details of previously reported exploration results

Ultra-High Grade REE-Nb-Sc-U Mineralisation

The ultra-high grade REE-Nb-Sc-U mineralisation notionally represents as large mafic cumulates of REE, niobium, scandium and uranium mineralisation. These magmatic cumulates are coeval with the leucogranites of BRE's Rocha da Rocha Province and repeat along the extensive geophysical trendline that runs down the spine of the province, including at the recent discovery at the southern end of the province, the Sulista project, nearly ~80km south of Monte Alto.

The hard rock REE-Nb-Sc-U mineralisation has exceptional grades of the key permanent magnet light rare earth elements of NdPr, the highly valuable heavy rare earth elements DyTb, as well as world class grades of niobium, scandium and uranium. The latest drilling results highlight the tenor of this mineralisation with rare earth grades of up to 39.1% TREO, 6.8% (68,341ppm) NdPr, 3,381ppm DyTb, and 14,349ppm niobium, 313ppm scandium and 5,191ppm uranium.

The latest results highlight that the REE-Nb-Sc-U mineralisation has remarkably low variability in grade across the intercept, consistent with assay results from the maiden drilling program. This uniformity in grade and appearance can be visually seen in Figure 6, which is an ultra-high grade 16m intercept with 29.1% TREO within drill hole MAD0099. Full assay results for individual drill samples are presented in Appendix C.

Figure 6: Diamond drill core from MADD0099: 16.0m at 29.1% TREO from 168m within 75.8m at 13.8% TREO

Monte Alto - Shallow Monazite Sand Mineralisation

The latest diamond drilling program continued to discover extensive horizons of high-grade monazite sand from surface to a depth of up to ~75m. Significant intercepts from the latest assay results include:

- 24.9m at 3.9% TREO from surface with 7,737ppm NdPr and 279ppm DyTb (MADD0001)
- 16m at 3.7% TREO from 8m with 10,535ppm NdPr and 322ppm DyTb (MADD0002)
- 19.7m at 3.5% TREO from 6.5m with 9,019ppm NdPr and 331ppm DyTb (SDD0003)
- 8m at 2.7% TREO from 30m with 5,549ppm NdPr and 225ppm DyTb (MADD0043)
- 7m at 2.7% TREO from 50m with 5,161ppm NdPr and 274ppm DyTb (MADD0043)
- 8m at 2.1% TREO from 28m with 1,352ppm NdPr and 77ppm DyTb (SDD0011)
- 4.1m at 5.2% TREO from 44m with 10,333ppm NdPr and 523ppm DyTb (SDD0011)

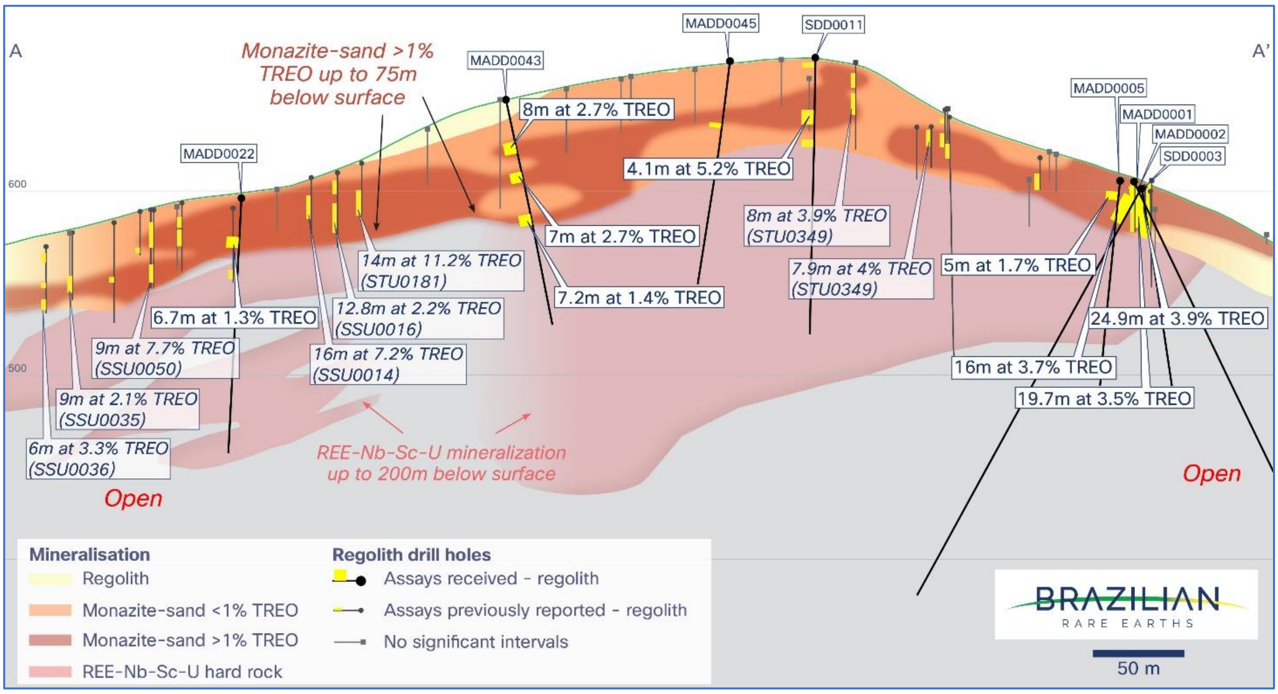

Figure 7: Long section view to the northwest of Monte Alto with latest shallow monazite-sand intercepts, previously reported intercepts in italic text [2]

These shallow, high-grade rare earth intercepts represent large grains of monazite contained within a weathered free-dig saprolite lithology. This is analogous to a 'mineral sands' style deposit, with valuable free-dig mineral sands available near surface for potential extraction and gravity separation.

The monazite sand mineralised zones are found from surface down to ~75m depth, and the higher grade (+1% TREO) zones can reach a cumulative thickness of up to ~30m.

Note [2] Refer to End Notes for details of previously reported exploration results

Preliminary metallurgical test work has confirmed that the particle size distribution of the monazite grains is predominately from 0.1 – 1 mm in size and can be up to 4 mm in size. The metallurgical test work showed that the monazite grains are amenable to low-cost gravity and magnetic separation processing.[2]

These latest results extend the extensive high-grade monazite sand zones delineated by previously reported auger and sonic drilling, which included the following significant intercepts[2]:

- **26m at 6.8% TREO** from 0.4m with 11,951ppm NdPr and 389ppm DyTb (STU0370)
- **14m at 11.2% TREO** from 16m with 19,559ppm NdPr and 1,087ppm DyTb (STU0181)
- **10m at 13.1% TREO** from 31m with 20,889ppm NdPr and 1,082ppm DyTb (SSU0033)
- **16m at 7.2% TREO** from 18m with 10,379ppm NdPr and 624ppm (SSU0014)
- **13m at 7.8% TREO** from 3m with 12,054ppm NdPr and 584ppm (SSU0059)
- **9m at 7.7% TREO** from 16m with 14,191ppm NdPr and 698ppm DyTb (SSU0050)
- **3m at 16.7% TREO** from 7m with 29,163ppm NdPr and 1,573ppm DyTb (STU0353)
- **8m at 5.4% TREO** from 8m with 9,159ppm NdPr and 507ppm DyTb (SSU0033)

The latest drilling results enhance the exploration model and support a large, shallow, free-dig deposit that is highly enriched in large-grain monazite sands.

Tantalum-Niobium Correlation

Niobium and tantalum are often found in association and the potential for tantalum grades in REE-Nb-Sc-U mineralisation is under investigation. A systematic review of all Monte Alto drillhole data for tantalum mineralisation is now underway and is expected to be complete by the end of the quarter.

Next Steps – Monte Alto Exploration

- Assays pending for 8,009m of diamond drilling
- Priority exploration drilling to further delineate REE-Nb-Sc-U mineralisation
- Systematic review of exploration data for tantalum mineralisation
- Regional Monte Alto 'district' exploration update

This announcement has been authorized for release by the CEO and Managing Director.

For further information or enquires please contact:

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MD and CEO

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bdv@brazilianrareearths.com

Sign up to our investor hub at investors.brazilianrareearths.com

Note [2] Refer to End Notes for details of previously reported exploration results

End Notes

The information contained in this announcement relating to BRE's historical exploration results is extracted from, or was set out in, the following ASX announcements (Original ASX Announcements) which are available to view at BRE's website at www.brazilianrareearths.com:

A. Previously reported exploration results for the Monte Alto Project can be viewed in the ASX Announcement dated 1 February 2024 "Ultra-High Grade Rare Earth Assays at Monte Alto Project", the ASX Announcement dated 6 June 2024 "Drill Results Confirm Ultra High Grades at Sulista Project" and the Prospectus dated 13 November 2023 (refer ASX announcement dated 19 December 2023).

B. Previously reported exploration results for the Sulista Project can be viewed in the ASX Announcement dated 6 June 2024 "Ultra-High Rare Earth Grades at Sulista Project".

C. Previously reported exploration results for the re-assays of the Rio Tinto holes can be viewed in the in the ASX Announcement dated 25 March 2024 "BRE Announces New Rare Earth Discovery – the Pele Project" and the ASX Announcement dated 6 June 2024 "Ultra-High Rare Earth Grades at the Sulista Project".

D. Previously reported exploration results for the Pele Project can be viewed in the ASX Announcement dated 25 March 2024 "BRE Announces New Rare Earth Discovery – the Pele Project" and the ASX Announcement dated 11 June 2024 "Exploration Drilling Underway at Pele Project".

BRE confirms that it is not aware of any new information or data that materially affects the information included in the Original ASX Announcements.

Forward-Looking Statements and Information

This Announcement may contain "forward-looking statements" and "forward-looking information", including statements and forecasts which include (without limitation) expectations regarding industry growth and other trend projections, forward-looking statements about the BRE's Projects, future strategies, results and outlook of BRE and the opportunities available to BRE. Often, but not always, forward-looking information can be identified by the use of words such as "plans", "expects", "is expected", "is expecting", "budget", "outlook", "scheduled", "target", "estimates", "forecasts", "intends", "anticipates", or "believes", or variations (including negative variations) of such words and phrases, or state that certain actions, events or results "may", "could", "would", "might", or "will" be taken, occur or be achieved. Such information is based on assumptions and judgments of BRE regarding future events and results. Readers are cautioned that forward-looking information involves known and unknown risks, uncertainties and other factors which may cause the actual results, targets, performance or achievements of BRE to be materially different from any future results, targets, performance or achievements expressed or implied by the forward-looking information.

Forward-looking statements are not guarantees of future performance and involve known and unknown risks, uncertainties, assumptions and other important factors, many of which are beyond the control of the Company, the Directors and management of the Company. Key risk factors associated with an investment in the Company are detailed in Section 3 of the Prospectus dated 13 November 2023. These and other factors could cause actual results to differ materially from those expressed in any forward-looking statements.

Forward-looking information and statements are (further to the above) based on the reasonable assumptions, estimates, analysis and opinions of BRE made in light of its perception of trends, current conditions and expected developments, as well as other factors that BRE believes to be relevant and reasonable in the circumstances at the date such statements are made, but which may prove to be incorrect. Although BRE believes that the assumptions and expectations reflected in such forward-looking statements and information (including as described in this Announcement) are reasonable, readers are cautioned that this is not exhaustive of all factors which may impact on the forward-looking information.

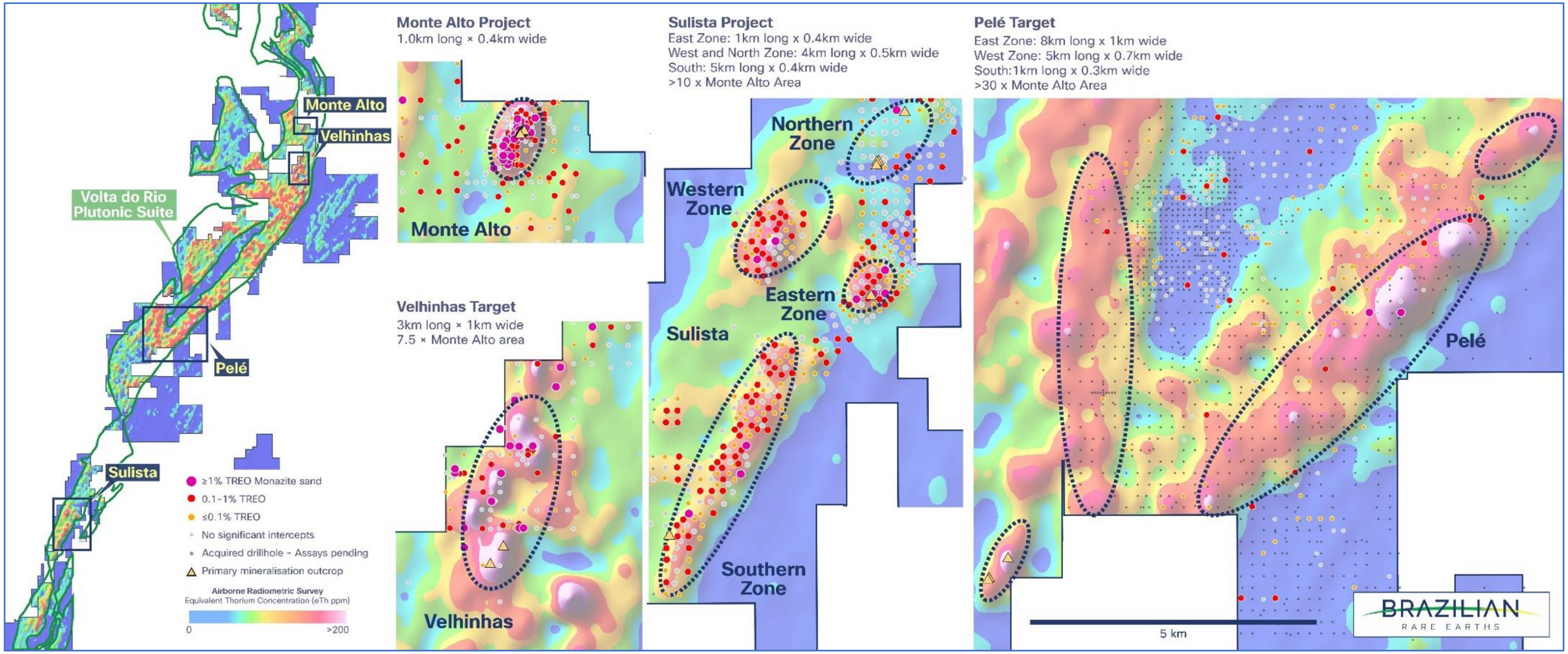
The Company cannot and does not give assurances that the results, performance or achievements expressed or implied in the forward-looking information or statements detailed in this Announcement will actually occur and prospective investors are cautioned not to place undue reliance on these forward-looking information or statements.

Forward looking statements in these materials speak only at the date of issue. Subject to any continuing obligations under applicable law or any relevant stock exchange listing rules, in providing this information the Company does not undertake any obligation to publicly update or revise any of the forward-looking statements or to advise of any change in events, conditions or circumstances on which any such statement is based.

Competent Persons Statement

The information in this announcement that relates to Exploration Results is based on, and fairly represents, information compiled or reviewed by Mr Adam Karst P.G, a Competent Person who is a registered member of the Society of Mining, Metallurgy and Exploration which is a Recognised Overseas Professional Organisation. Mr Karst has sufficient experience that is relevant to the style of mineralisation and types of deposit under consideration and to the activity being undertaken to qualify as a Competent Person as defined in the 2012 Edition of the Joint Ore Reserves Committee Australasian Code for Reporting of Exploration Results, Mineral Resources and Ore Reserves. Mr. Karst consents to the inclusion in this report of the results of the matters based on his information in the form and context in which it appears.

APPENDIX A: Relative scale of key BRE exploration projects [2]



Note [2] Refer to End Notes for details of previously reported exploration results

APPENDIX B: Monte Alto drillhole information and significant REE-Nb-Sc-U intercepts

Hole ID	X	Y	Elevation	Depth	Dip	Azimuth	From (m)	To (m)	Interval (m)	True Width (m)	TREO (%)	NdPr (ppm)	DyTb (ppm)	Nb_2O_5 (ppm)	Sc_2O_3 (ppm)	U_3O_8 (ppm)
MADD0001	432,875	8,524,478	591	120.6	64.4	333.8	Refer to Appendix C for significant saprolite interval									
MADD0002	432,877	8,524,477	591	250.6	62.9	218.6	0.0	7.0	7.0	0.67	21.0	31,399	1,638	8,055	85	2,597
MADD0004	432,857	8,524,489	596	126.5	53.8	305.1	Assays pending									
MADD0005	432,816	8,524,520	597	125.1	65.5	298.6	51.4	55.0	3.6	1.1	2.6	4,369	304	814	159	693
	and						78.6	81.0	2.4	0.7	3.1	5,118	310	984	139	1,043
MADD0008	432,649	8,524,408	666	149.9	64.4	314.7	Assays received - No significant mineralization									
MADD0009	432,799	8,524,320	637	150.3	63.5	313.0	Assays pending									
MADD0012	432,766	8,524,506	613	149.2	63.3	309.8	77.0	82.0	5.0	1.	5.4	9,932	343	905	35	1,115
MADD0014	432,711	8,524,475	649	160.3	72.2	312.1	Assays received - No significant mineralization									
MADD0016	432,804	8,524,555	607	150.0	60.8	26.9	Assays pending									
MADD0017	432,803	8,524,556	607	150.9	75.2	27.1	10.4	18.0	7.7	2.3	7.4	10,633	540	1,777	48	769
MADD0018	432,803	8,524,555	607	170.2	79.8	297.2	9.6	21.0	11.4	3.4	12.6	20,684	1,027	3,480	93	1,628
	including						13.0	18.0	5.0	1.5	20.9	35,716	1,778	6,499	179	2,970
	including						17.0	18.0	1.0	0.3	33.5	57,656	2,920	11,721	248	5,191
MADD0019	432,808	8,524,398	633	170.5	65.7	313.7	4.2	12.4	8.1	6.5	10.5	15,585	769	5,351	88	688
MADD0020	432,761	8,524,442	643	150.1	67.4	312.3	Assays pending									
MADD0021	432,635	8,524,078	592	180.4	66.3	311.8	17.9	24.0	6.1	5.5	9.8	16,775	910	3,408	91	776
	including						18.6	20.3	1.7	1.5	28.6	48,666	2,463	10,978	264	2,257
	and						90.0	98.2	8.2	7.4	18.8	30,736	1,599	5,266	159	2,169
	and						115.3	120.4	5.2	4.7	16.1	26,479	1,306	4,155	175	1,882
MA_DD_0022	432,637	8,524,077	592	150.1	65.0	130.0	33.0	39.0	6.0	4.2	5.5	8,939	810	1,201	112	621
	and						110.0	112.0	2.0	1.4	3.0	5,283	279	689	45	255
MADD0023	432,624	8,524,151	611	150.1	65.0	310.0	Assays pending									
MADD0024	432,704	8,524,059	600	171.5	55.0	310.0	54.2	54.8	0.6	0.5	20.9	34,894	1,628	5,481	212	2,468
	and						117.7	119.6	1.9	1.6	4.4	7,359	461	1,140	72	514

^^ At the periphery of the deposit, 23 exploration holes totalling 3,539m assisted geological interpretation of the deposit but did not intersect mineralization warranting immediate analysis.

BRAZILIAN RARE EARTHS

Hole ID	X	Y	Elevation	Depth	Dip	Azimuth	From (m)	To (m)	Interval (m)	True Width (m)	TREO (%)	NdPr (ppm)	DyTb (ppm)	Nb_2O_5 (ppm)	Sc_2O_3 (ppm)	U_3O_8 (ppm)
	and						150.3	152.5	2.3	1.9	24.8	40,954	2,035	6,385	210	2,583
	and						161.3	163.0	1.8	1.5	14.4	22,827	1,095	3,865	204	2,148
MADD0025	432,561	8,524,073	591	150.1	55.0	310.0	Assays pending									
MADD0026	432,560	8,523,995	570	159.6	55.0	310.0	Assays pending									
MADD0027	432,652	8,524,405	676	170.7	70.0	135.0	Assays pending									
MADD0028	433,167	8,524,685	625	151.1	55.0	310.0	Assays pending									
MADD0029	432,667	8,524,391	675	151.3	65.0	135.0	54.0	55.7	1.7	1.4	10.0	15,709	784	2,774	140	1,600
	and						69.0	71.0	2.0	1.6	10.3	16,378	858	3,102	100	1,451
	and						113.0	116.6	3.5	2.1	21.2	35,814	1,747	6,094	189	2,533
MADD0030	433,240	8,524,677	630	150.3	55.0	310.0	No significant mineralization - not submitted for assay^^									
MADD0031	432,612	8,524,330	668	150.8	55.0	135.0	Assays pending									
MADD0032	433,278	8,524,795	603	150.5	55.0	310.0	Assays pending									
MADD0033	432,647	8,524,236	651	145.2	55.0	135.0	Assays pending									
MADD0034	433,341	8,524,733	619	149.7	55.0	310.0	No significant mineralization - not submitted for assay^^									
MADD0035	432,744	8,524,390	666	150.6	55.0	135.0	Assays pending									
MADD0036	433,341	8,524,733	619	146.2	55.0	130.0	No significant mineralization - not submitted for assay^^									
MADD0037	433,246	8,524,754	615	200.3	54.7	310.7	No significant mineralization - not submitted for assay^^									
MADD0038	432,690	8,524,448	664	150.3	55.4	131.6	Assays pending									
MADD0039	433,163	8,524,758	611	180.9	55.5	310.6	Assays pending									
MADD0040	432,732	8,524,428	661	150.6	51.4	134.0	Assays pending									
MADD0041	432,613	8,524,331	668	150.2	55.4	111.4	Assays pending									
MADD0042	432,741	8,524,417	662	150.6	54.2	132.2	53.5	66.7	13.2	11.9	34.7	58,082	2,967	10,020	217	3,942
	including						55.0	56.0	1.0	11.9	39.1	66,120	3,381	10,412	230	4,230
	and						81.0	82.0	1.0	0.9	5.8	10,810	433	1,380	34	740
MADD0043	432,648	8,524,236	651	150.3	55.1	101.1	91.0	100.0	9.0	6.3	6.7	12,185	537	869	43	575
	including						95.0	97.0	2.0	1.4	15.1	27,807	1,201	1,634	72	1,101
MADD0044	432,759	8,524,399	658	150.6	54.7	129.1	23.0	41.0	18.0	16.2	20.7	35,535	1,745	8,198	140	1,998

^^ At the periphery of the deposit, 23 exploration holes totalling 3,539m assisted geological interpretation of the deposit but did not intersect mineralization warranting immediate analysis.

Hole ID	X	Y	Elevation	Depth	Dip	Azimuth	From (m)	To (m)	Interval (m)	True Width (m)	TREO (%)	NdPr (ppm)	DyTb (ppm)	Nb_2O_5 (ppm)	Sc_2O_3 (ppm)	U_3O_8 (ppm)
	including						27.0	37.8	10.8	9.7	27.9	49,634	2,437	11,265	196	2,760
MADD0045	432,680	8,524,356	672	150.2	55.5	131.1	29.0	44.0	15.0	11.0	14.1	21,047	1,005	3,848	177	1,620
	including						38.9	43.4	4.5	3.3	21.2	33,686	1,597	5,466	269	2,574
	and						67.9	73.0	5.1	3.7	20.3	35,541	1,641	6,452	146	2,249
MADD0046	432,758	8,524,480	632	151.2	55.0	130.0	42.6	43.2	0.6	0.4	13.7	22,198	1,100	4,116	143	1,604
	and						61.3	74.0	12.8	9.3	19.4	32,097	1,603	5,341	189	2,414
	including						65.0	69.4	4.3	3.1	31.2	53,236	2,717	8,960	196	3,523
MADD0047	432,679	8,524,356	666	250.4	54.8	161.2	Assays pending									
MADD0048	432,777	8,524,457	633	150.4	55.0	130.0	Assays pending									
MADD0049	432,795	8,524,438	631	150.8	54.9	133.3	Assays pending									
MADD0050	432,483	8,523,845	563	151.0	54.6	310.5	No significant mineralization - not submitted for assay^^									
MADD0051	432,682	8,524,357	672	150.2	54.7	100.7	Assays pending									
MADD0052	432,811	8,524,428	628	151.8	54.7	132.3	Assays pending									
MADD0053	432,393	8,523,849	592	151.3	55.0	310.0	Assays pending									
MADD0054	432,718	8,524,241	651	170.4	54.6	310.8	Assays pending									
MADD0055	432,781	8,524,545	613	180.4	54.3	130.5	Assays pending									
MADD0056	432,796	8,524,078	616	150.2	53.7	310.8	No significant mineralization - not submitted for assay^^									
MADD0057	432,789	8,524,521	615	149.9	54.3	130.8	Assays pending									
MADD0058	432,876	8,524,003	594	150.0	54.5	311.1	No significant mineralization - not submitted for assay^^									
MADD0059	432,647	8,523,915	573	150.5	54.5	310.5	No significant mineralization - not submitted for assay^^									
MADD0060	432,803	8,523,999	601	200.4	54.7	313.3	Assays pending									
MADD0061	432,811	8,524,495	615	150.6	53.7	139.3	Assays pending									
MADD0062	432,312	8,523,924	628	157.7	55.0	309.6	Assays pending									
MADD0063	432,837	8,524,402	624	151.4	53.6	134.4	No significant mineralization - not submitted for assay^^									
MADD0064	432,716	8,523,982	586	170.5	57.0	308.6	Assays pending									
MADD0065	432,315	8,523,922	628	150.3	55.2	132.3	No significant mineralization - not submitted for assay^^									
MADD0066	432,711	8,524,473	649	149.0	59.5	152.0	Assays pending									

^^ At the periphery of the deposit, 23 exploration holes totalling 3,539m assisted geological interpretation of the deposit but did not intersect mineralization warranting immediate analysis.

Hole ID	X	Y	Elevation	Depth	Dip	Azimuth	From (m)	To (m)	Interval (m)	True Width (m)	TREO (%)	NdPr (ppm)	DyTb (ppm)	Nb_2O_5 (ppm)	Sc_2O_3 (ppm)	U_3O_8 (ppm)
MADD0067	432,954	8,523,922	575	150.4	54.2	309.9	No significant mineralization - not submitted for assay^^									
MADD0068	432,237	8,523,923	649	149.8	55.7	310.5	No significant mineralization - not submitted for assay^^									
MADD0069	432,711	8,524,473	649	170.1	68.7	153.4	Assays pending									
MADD0070	432,883	8,523,921	585	170.1	53.6	312.6	No significant mineralization - not submitted for assay^^									
MADD0071	432,238	8,523,922	649	137.1	55.3	130.4	Assays pending									
MADD0072	432,872	8,524,440	608	150.5	54.7	131.0	Assays pending									
MADD0073	432,799	8,523,907	580	150.0	54.4	310.8	Assays pending									
MADD0074	432,238	8,523,844	631	145.6	55.1	311.4	No significant mineralization - not submitted for assay^^									
MADD0075	432,711	8,523,910	569	170.6	54.0	312.4	No significant mineralization - not submitted for assay^^									
MADD0076	432,854	8,524,461	611	150.4	59.8	131.7	Assays pending									
MADD0077	432,312	8,523,842	612	142.9	54.7	311.5	Assays pending									
MADD0078	432,876	8,523,843	578	150.2	55.0	307.9	No significant mineralization - not submitted for assay^^									
MADD0079	432,810	8,523,846	570	150.4	55.8	311.6	Assays pending									
MADD0080	432,557	8,524,150	612	150.3	54.5	313.3	No significant mineralization - not submitted for assay^^									
MADD0081	432,855	8,524,422	615	150.5	53.1	130.3	Assays pending									
MADD0082	432,657	8,523,993	586	150.7	55.4	311.9	Assays pending									
MADD0083	432,601	8,524,117	601	150.5	55.4	311.4	Assays pending									
MADD0084	432,719	8,524,320	664	150.6	54.8	128.5	Assays pending									
MADD0085	432,681	8,523,960	583	169.8	54.4	310.3	Assays pending									
MADD0086	432,534	8,524,122	600	150.5	55.3	309.5	No significant mineralization - not submitted for assay^^									
MADD0087	432,800	8,524,232	639	150.0	53.8	130.1	No significant mineralization - not submitted for assay^^									
MADD0088	432,681	8,523,879	562	150.1	54.3	311.8	Assays pending									
MADD0089	432,520	8,524,040	577	150.8	54.4	308.9	Assays pending									
MADD0090	432,607	8,523,872	561	151.2	54.3	311.1	Assays pending									
MADD0091	432,803	8,524,163	627	150.1	61.3	311.5	No significant mineralization - not submitted for assay^^									
MADD0092	432,608	8,523,955	572	200.4	55.4	310.3	Assays pending									
MADD0093	432,680	8,524,044	594	150.7	60.7	311.3	Assays pending									

^^ At the periphery of the deposit, 23 exploration holes totalling 3,539m assisted geological interpretation of the deposit but did not intersect mineralization warranting immediate analysis.

Hole ID	X	Y	Elevation	Depth	Dip	Azimuth	From (m)	To (m)	Interval (m)	True Width (m)	TREO (%)	NdPr (ppm)	DyTb (ppm)	Nb_2O_5 (ppm)	Sc_2O_3 (ppm)	U_3O_8 (ppm)
MADD0094	432,778	8,524,040	609	150.7	60.0	310.0	Assays pending									
MADD0095	432,756	8,523,952	584	150.2	59.3	311.4	No significant mineralization - not submitted for assay^^									
MADD0096	432,761	8,524,199	639	150.0	59.9	309.8	No significant mineralization - not submitted for assay^^									
MADD0097	432,603	8,524,119	601	130.5	59.1	171.1	Assays pending									
MADD0098	432,846	8,524,044	604	150.9	59.7	309.8	No significant mineralization - not submitted for assay^^									
MADD0099	432,610	8,524,330	668	220.2	71.3	124.5	137.6	213.3	75.8	37.9	13.8	23,212	1,123	3,737	125	1,684
	including						137.6	184.7	47.1	23.6	19.6	32,783	1,571	5,308	176	2,384
	including						168.0	184.0	16.0	8.0	29.1	50,462	2,346	7,937	129	2,984
	including						169.0	170.0	1.0	.5	30.7	68,341	2,671	8,659	130	3,583
	and						189.0	198.0	9.0	4.5	4.8	7,529	386	1,184	53	578
	and						200.0	206.0	6.0	3.0	7.7	13,099	689	1,955	58	888
	and						211.6	213.3	1.7	0.9	18.8	32,823	1,579	5,319	85	2,198
MADD0100	432,550	8,524,149	611	180.1	59.7	161.5	Assays pending									
SDD0003	432,880	8,524,480	597	53.9	85.0	322.0	0.0	5.4	5.4	5.1	18.7	29,615	1,484	9,173	103	2,028
SDD0007	432,619	8,524,149	625	152.9	89.6	356.0	60.0	62.0	2.0	1.8	1.8	3,237	316	829	114	433
	and						93.4	98.5	5.1	4.5	3.8	6,603	367	1,239	57	631
	and						112.5	113.5	1.0	0.9	25.0	43,765	2,281	7,533	179	3,093
SDD0011	432,718	8,524,385	660	150.0	88.9	228.4	15.0	28.0	13.0	6.5	8.7	13,465	716	4,765	105	645
	and						83.9	86.9	2.9	1.5	19.2	33,920	1,592	5,577	181	2,037
	and						94.0	97.7	3.7	1.9	16.2	27,423	1,177	4,794	122	1,937

^^ At the periphery of the deposit, 23 exploration holes totalling 3,539m assisted geological interpretation of the deposit but did not intersect mineralization warranting immediate analysis.

APPENDIX C: REE-Nb-Sc-U assays

From (m)	To (m)	TREO (%)	La_2O_3 (ppm)	CeO_2 (ppm)	Pr_6O_{11} (ppm)	Nd_2O_3 (ppm)	Sm_2O_3 (ppm)	Eu_2O_3 (ppm)	Gd_2O_3 (ppm)	Tb_4O_7 (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)	Nb_2O_5 (ppm)	Sc_2O_3 (ppm)	U_3O_8 (ppm)
MA_DD_0002: 7m at 21% TREO from 0m																				
0.0	1.0	24.3	61,600	120,100	11,990	30,500	4,000	44	2,510	335	1,800	311	767	93	542	71	8,144	13,414	95	2,333
1.0	2.1	28.3	62,700	158,200	12,260	31,100	4,100	44	2,440	324	1,700	294	740	90	543	71	7,974	11,727	88	3,235
2.1	3.3	32.4	74,000	177,000	14,120	35,900	4,700	55	2,970	418	2,100	389	1,005	120	799	96	10,469	13,669	159	5,058
3.3	4.0	21.3	53,500	104,600	10,040	26,300	3,600	52	2,480	333	1,800	327	825	105	702	91	8,619	6,747	121	2,233
4.0	5.0	22.8	52,000	122,100	9,740	25,200	3,400	49	2,330	328	1,700	320	822	104	692	87	8,720	7,106	77	2,827
5.0	6.0	12.2	11,656	97,100	2,320	6,235	815	13	561	79	438	77	221	29	186	25	2,239	1,683	49	1,421
6.0	7.0	3.1	868	29,300	177	472	80	1	39	7	36	6	18	3	22	3	121	156	4	404
MA_DD_0005: 3.6m at 2.6% TREO from 51.4m																				
51.4	52.0	2.5	6,318	11,806	1,086	3,181	418	9	305	47	250	49	132	19	112	16	1,344	773	159	625
52.0	53.0	2.8	6,964	13,115	1,195	3,516	460	9	337	51	274	54	144	20	122	17	1,481	855	177	662
53.0	54.0	2.7	6,981	12,787	1,204	3,503	477	10	345	48	286	53	153	20	130	18	1,472	900	167	685
54.0	55.0	2.2	5,405	10,128	948	2,808	370	8	272	41	217	43	114	16	97	14	1,189	712	131	776
MA_DD_0005: 2.4m at 3.1% TREO from 78.6m																				
78.6	79.4	2.3	5,836	10,851	1,007	2,886	380	9	273	37	215	39	113	15	94	13	1,090	755	115	708
79.4	80.0	3.6	9,501	17,233	1,507	4,473	564	12	393	53	311	57	160	21	133	19	1,567	1,149	162	1,229
80.0	81.0	3.4	9,051	16,649	1,445	4,135	515	11	352	48	275	50	143	19	119	18	1,393	1,068	144	1,200
MA_DD_0012: 5m at 5.4% TREO from 77m																				
77.0	78.0	4.3	8,287	23,183	2,265	5,935	768	10	524	64	319	57	143	17	97	13	1,700	395	17	935
78.0	79.0	10.8	26,642	55,328	5,166	15,026	1,632	18	918	101	468	77	189	22	132	19	2,072	1,946	74	2,220
79.0	80.0	1.7	3,874	8,285	858	2,515	318	6	216	27	133	24	60	7	42	6	651	299	19	284
80.0	81.0	7.9	19,755	40,544	3,797	10,030	1,255	16	698	82	393	66	164	19	114	16	1,818	1,438	50	1,630
81.0	82.0	2.1	5,188	10,931	1,066	3,001	345	5	194	23	107	18	44	5	31	4	469	446	15	508
MA_DD_0017: 7.7m at 7.4% TREO from 10.4m																				
10.4	11.0	3.6	4,722	26,705	685	1,989	220	9	163	21	120	23	66	9	58	9	703	49	10	174
11.0	12.0	4.2	10,507	21,890	1,592	4,610	505	15	354	45	247	46	125	16	101	15	1,467	627	17	326
12.0	13.0	1.6	2,838	11,420	365	1,042	114	7	92	12	67	13	37	5	29	4	402	16	4	104
13.0	14.0	0.8	2,264	3,834	325	914	102	5	79	10	57	11	31	4	24	3	324	47	2	60
14.0	15.0	3.8	5,324	27,847	756	2,195	244	10	184	24	137	26	73	10	61	9	784	65	10	190
15.0	15.6	32.2	83,505	162,716	14,105	38,295	4,696	60	3,187	434	2,205	409	1,102	142	859	105	10,366	10,119	251	3,845
15.6	16.3	23.9	56,825	127,994	9,643	27,388	3,356	53	2,223	307	1,586	292	789	94	608	77	7,481	5,960	197	2,579
16.3	17.0	7.7	17,090	43,631	2,751	8,087	944	18	688	86	464	84	228	29	179	24	2,376	2,906	47	1,044
17.0	18.0	2.2	2,511	17,350	448	1,249	146	6	100	13	76	14	39	5	34	5	378	179	6	138
MA_DD_0018: 11.4m at 12.6% TREO from 9.6m.																				
9.6	10.2	9.2	26,170	46,849	3,535	10,326	1,119	28	726	87	475	82	228	29	179	27	2,550	585	24	614
10.2	11.0	19.8	55,462	92,801	8,830	24,967	3,010	49	2,095	274	1,479	270	706	90	538	72	7,362	6,130	118	2,531

From (m)	To (m)	TREO (%)	La_2O_3 (ppm)	CeO_2 (ppm)	Pr_6O_{11} (ppm)	Nd_2O_3 (ppm)	Sm_2O_3 (ppm)	Eu_2O_3 (ppm)	Gd_2O_3 (ppm)	Tb_4O_7 (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)	Nb_2O_5 (ppm)	Sc_2O_3 (ppm)	U_3O_8 (ppm)
11.0	12.0	5.4	13,009	31,198	1,534	4,866	501	13	397	47	273	52	150	19	117	18	1,859	124	4	308
12.0	13.0	4.6	10,827	26,742	1,290	3,990	419	12	327	39	231	45	133	17	108	18	1,650	257	2	246
13.0	14.8	17.9	47,740	85,445	8,479	23,352	2,848	49	1,861	254	1,311	237	649	81	507	70	6,570	5,820	179	2,517
14.8	15.4	4.4	12,151	21,211	1,948	6,146	678	14	402	49	253	41	106	13	84	12	993	248	18	239
15.4	16.2	12.8	32,986	66,828	5,153	14,473	1,655	33	1,135	148	810	141	381	49	308	44	4,024	2,208	119	1,376
16.2	17.0	30.8	77,332	154,077	13,963	37,859	4,577	66	3,106	436	2,215	400	1,109	139	844	117	11,341	9,990	263	4,649
17.0	18.0	33.5	83,105	168,580	15,343	42,313	5,023	67	3,303	487	2,433	464	1,171	151	917	125	12,006	11,721	248	5,191
18.0	19.0	5.8	11,985	35,186	1,881	5,826	677	14	453	58	323	58	161	20	124	18	1,672	1,296	35	569
19.0	20.0	0.5	1,706	2,394	253	697	81	4	55	7	39	7	19	2	16	2	192	164	6	74
20.0	21.0	1.9	2,829	13,967	420	1,111	125	4	75	9	53	9	24	3	22	3	201	83	12	121
MA_DD_0019: 8.1m at 10.5% TREO from 4.2m.																				
4.2	4.8	4.3	9,994	23,733	1,453	4,445	563	12	430	57	323	57	158	19	109	14	1,685	2,002	55	225
4.8	5.6	1.3	2,571	8,110	453	1,165	157	3	111	16	86	15	42	5	31	4	372	577	18	95
5.6	6.2	9.2	22,173	49,977	3,690	10,030	1,219	21	824	105	568	98	267	32	186	24	2,794	5,409	91	616
6.2	7.0	2.0	4,055	12,161	741	1,804	232	3	145	19	106	18	50	6	37	5	452	914	19	142
7.0	8.0	5.3	10,775	30,565	1,649	5,358	681	13	491	68	401	73	208	26	161	21	2,071	2,162	49	400
8.0	9.0	18.2	42,201	99,532	7,852	20,672	2,557	36	1,541	202	1,087	186	506	61	361	45	5,151	10,325	91	1,145
9.0	10.0	16.0	37,887	84,799	6,980	19,367	2,417	33	1,500	196	1,078	179	492	59	349	45	5,017	8,573	142	1,006
10.0	11.0	16.1	37,326	86,968	7,206	18,938	2,359	31	1,455	186	1,019	170	466	56	333	42	4,743	9,200	174	1,118
11.0	11.6	14.2	33,479	75,931	6,109	16,636	2,041	28	1,225	164	887	152	418	50	299	38	4,211	7,649	160	926
11.6	12.4	13.4	19,506	95,068	3,417	9,438	1,241	17	844	111	625	112	320	39	241	32	3,305	3,841	60	887
MA_DD_0021: 6.1m at 9.8% TREO from 17.9m																				
17.9	18.6	2.7	7,306	13,592	1,181	3,454	401	14	254	35	181	32	82	11	64	9	805	895	24	197
18.6	19.2	31.2	77,917	157,622	14,984	38,671	5,023	119	3,109	433	2,208	391	1,051	133	782	97	9,603	12,546	313	2,405
19.2	20.3	27.0	65,880	138,200	12,621	32,957	4,353	110	2,750	370	1,982	341	915	110	716	87	8,651	10,007	234	2,166
20.3	21.0	7.0	17,447	29,783	3,215	10,562	1,520	112	1,171	172	929	167	431	55	315	41	4,080	953	39	411
21.0	21.8	0.7	1,361	3,516	246	811	114	8	83	11	57	10	25	3	19	2	241	134	19	84
21.8	22.4	0.5	1,173	2,318	215	741	112	8	85	12	62	11	27	3	19	2	256	107	15	78
22.4	23.0	0.5	1,285	2,605	237	786	114	9	79	11	54	9	22	3	16	2	193	108	23	91
23.0	24.0	2.9	5,995	16,390	1,014	3,205	417	22	298	42	220	37	96	12	75	9	902	594	26	290
MA_DD_0021: 8.2m at 18.8% TREO from 90m																				
90.0	91.0	9.1	24,921	46,427	3,830	9,655	1,154	18	816	104	563	102	272	35	216	29	2,761	2,364	73	1,014
91.0	92.0	18.1	49,190	89,546	7,633	21,653	2,718	32	1,841	219	1,281	214	568	73	450	60	5,782	4,830	159	1,987
92.0	93.0	30.4	80,957	151,840	13,738	36,551	4,462	50	3,000	366	2,108	357	963	115	708	94	9,084	8,406	226	3,400
93.0	94.0	8.3	21,829	41,435	3,557	9,694	1,329	15	876	112	612	112	301	39	237	32	3,110	2,514	98	1,167
94.0	95.0	22.3	58,567	110,155	9,780	26,795	3,512	42	2,385	333	1,734	320	880	106	643	85	8,122	7,460	207	3,006
95.0	96.0	30.6	79,399	152,508	13,834	37,480	4,783	48	3,205	385	2,302	380	1,036	122	737	96	9,525	8,429	199	3,432
96.0	97.0	25.9	68,466	129,122	10,984	31,580	3,935	51	2,634	338	1,848	326	868	106	663	87	8,437	6,714	200	2,684
97.0	98.2	7.6	20,216	38,128	3,149	8,793	1,066	18	707	95	535	96	270	34	217	29	2,643	1,912	117	857
MA_DD_0021: 5.2m at 16.1% TREO from 115.3m																				

From (m)	To (m)	TREO (%)	La_2O_3 (ppm)	CeO_2 (ppm)	Pr_6O_{11} (ppm)	Nd_2O_3 (ppm)	Sm_2O_3 (ppm)	Eu_2O_3 (ppm)	Gd_2O_3 (ppm)	Tb_4O_7 (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)	Nb_2O_5 (ppm)	Sc_2O_3 (ppm)	U_3O_8 (ppm)
115.3	116.4	8.3	22,635	40,980	3,692	9,277	1,153	19	831	110	606	111	304	39	237	31	2,944	2,211	112	848
116.4	117.0	18.2	48,499	90,015	8,393	22,157	2,686	33	1,788	234	1,281	228	582	76	467	62	5,554	5,006	161	2,091
117.0	118.0	24.3	64,735	120,729	11,230	29,513	3,611	42	2,337	295	1,664	290	746	97	594	78	7,259	6,540	197	2,821
118.0	119.0	17.7	47,421	87,768	8,025	21,098	2,549	34	1,694	214	1,244	210	550	73	446	60	5,506	4,410	203	2,098
119.0	119.8	14.5	39,263	71,810	6,319	17,017	2,076	29	1,417	161	944	162	442	59	367	49	4,571	3,370	201	1,678
119.8	120.4	15.1	41,329	74,838	6,610	17,698	2,123	30	1,412	171	980	170	462	61	384	52	4,780	3,676	196	2,002
MA_DD_0022: 6m at 5.5% TREO from 33m																				
33.0	34.0	6.6	14,748	28,721	2,699	8,761	1,208	64	1,077	157	996	193	595	82	547	75	5,841	1,444	167	721
34.0	35.0	7.3	15,898	35,509	2,873	9,048	1,172	58	1,025	146	915	175	534	74	486	66	5,165	1,583	151	729
35.0	36.0	9.5	21,385	42,960	3,673	11,216	1,510	68	1,296	201	1,199	267	845	115	748	107	9,095	1,902	163	1,070
36.0	37.0	3.2	7,157	16,078	1,215	3,523	465	23	382	54	337	66	203	27	173	24	2,001	590	68	421
37.0	38.0	3.8	8,928	18,653	1,357	4,423	578	22	465	64	392	73	218	29	178	24	2,264	941	66	431
38.0	39.0	2.7	7,164	10,846	1,228	3,620	483	19	407	55	341	66	197	26	159	22	2,100	748	55	355
MA_DD_0022: 2m at 3% TREO from 110m																				
110.0	111.0	2.5	6,844	12,468	1,185	3,209	379	8	253	31	161	27	68	8	46	6	721	545	31	203
111.0	112.0	3.6	9,452	16,719	1,461	4,711	584	12	417	55	311	55	152	19	118	17	1,481	833	59	307
MA_DD_0024: 0.6m at 20.9% TREO from 54.2m																				
54.2	54.8	20.9	55,808	103,511	9,273	25,621	2,998	46	1,939	259	1,369	243	676	85	534	76	6,882	5,481	212	2,468
MA_DD_0024: 1.9m at 4.4% TREO from 117.7m																				
117.7	118.3	4.1	10,419	19,581	1,716	5,058	620	13	446	60	348	63	177	23	144	19	1,850	1,027	58	437
118.3	119.0	2.7	6,554	13,169	1,203	3,438	447	9	331	45	263	48	137	17	109	14	1,309	679	60	301
119.0	119.6	6.8	17,019	33,480	2,969	8,197	1,045	16	758	103	594	106	300	38	236	31	3,058	1,800	102	846
MA_DD_0024: 2.3m at 24.8% TREO from 150.3m																				
150.3	151.0	23.2	62,039	113,542	10,038	28,170	3,406	46	2,356	293	1,728	282	791	98	619	83	8,216	5,605	181	2,267
151.0	151.6	30.7	83,012	152,467	13,551	37,301	4,408	55	2,893	362	2,019	331	854	107	681	93	8,869	8,264	237	3,020
151.6	152.5	22.3	60,600	110,183	9,783	26,861	3,246	41	2,142	255	1,561	243	673	85	544	74	7,007	5,783	217	2,555
MA_DD_0024: 1.8m at 14.4% TREO from 161.3m																				
161.3	162.0	13.8	37,980	68,209	5,850	15,874	1,953	27	1,305	161	895	155	438	55	355	48	4,524	3,695	201	1,959
162.0	163.0	14.8	40,568	73,476	6,354	17,300	2,105	29	1,423	170	954	165	464	59	381	52	4,861	3,992	207	2,290
MA_DD_0029: 1.7m at 10% TREO from 54m																				
54.0	54.7	5.7	15,806	27,725	2,530	6,865	797	17	553	72	399	70	191	24	150	21	2,051	1,544	68	864
54.7	55.7	13.0	36,033	64,367	5,449	14,680	1,896	25	1,275	153	849	147	399	52	327	45	4,026	3,635	191	2,115
MA_DD_0029: 2m at 10.3% TREO from 69m																				
69.0	70.0	3.7	9,124	19,149	1,661	4,539	531	8	355	47	259	45	121	15	97	13	1,164	1,168	30	480
70.0	71.0	16.2	44,291	80,017	6,924	18,661	2,373	31	1,615	207	1,150	197	535	69	427	58	5,426	4,851	163	2,329
MA_DD_0029: 3.5m at 21.2% TREO from 113m																				
113.0	113.7	6.4	16,952	31,994	2,756	7,680	939	12	633	82	456	79	220	27	163	21	2,103	1,936	68	856
113.7	114.8	28.0	73,435	139,584	12,676	34,901	4,194	48	2,760	366	1,979	343	883	107	664	88	8,257	8,001	224	3,224
114.8	115.9	28.4	74,081	141,715	12,987	35,475	4,249	47	2,805	359	1,959	336	851	104	649	86	8,042	8,112	224	3,157

From (m)	To (m)	TREO (%)	La_2O_3 (ppm)	CeO_2 (ppm)	Pr_6O_{11} (ppm)	Nd_2O_3 (ppm)	Sm_2O_3 (ppm)	Eu_2O_3 (ppm)	Gd_2O_3 (ppm)	Tb_4O_7 (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)	Nb_2O_5 (ppm)	Sc_2O_3 (ppm)	U_3O_8 (ppm)
115.9	116.6	13.6	36,924	67,325	5,756	16,076	1,916	27	1,277	161	910	158	444	55	354	48	4,386	3,928	198	2,111
MA_DD_0042: 13.2m at 34.7% TREO from 53.5m																				
53.5	54.1	27.2	67,438	138,519	11,771	31,808	4,235	56	2,826	390	2,169	384	1,064	127	754	101	10,530	11,465	201	3,800
54.1	55.0	31.1	76,078	162,354	12,727	34,906	4,667	58	3,196	437	2,407	432	1,189	140	901	114	11,664	10,023	192	4,202
55.0	56.0	39.1	107,987	187,209	17,730	48,389	6,097	71	4,005	544	2,837	505	1,339	162	1,060	134	12,890	10,412	230	4,230
56.0	57.0	36.5	99,258	178,528	16,158	44,300	5,669	61	3,709	489	2,605	457	1,233	145	945	118	11,500	9,915	217	3,960
57.0	58.0	37.5	102,697	180,129	17,358	47,035	5,971	66	3,768	504	2,641	471	1,250	148	934	118	11,861	10,941	236	4,346
58.0	59.0	36.7	99,138	179,082	16,708	45,401	5,668	64	3,624	494	2,593	447	1,195	142	909	113	11,541	11,126	235	4,331
59.0	60.0	36.5	100,164	177,157	16,401	44,715	5,572	64	3,619	478	2,517	441	1,188	141	909	116	11,225	9,954	196	3,873
60.0	61.0	37.0	104,481	174,408	17,225	46,712	5,763	69	3,739	485	2,600	445	1,224	142	916	116	11,398	10,245	242	3,914
61.0	62.0	35.9	96,659	178,188	15,826	42,983	5,448	64	3,459	469	2,453	435	1,170	138	879	113	11,085	10,936	239	4,237
62.0	63.0	32.0	88,775	154,000	14,600	39,526	5,009	62	3,145	425	2,212	397	1,065	127	794	105	10,127	9,502	218	3,455
63.0	64.0	34.2	98,745	158,205	16,055	43,901	5,369	71	3,457	459	2,402	429	1,140	136	825	112	10,922	8,575	194	3,579
64.0	65.0	33.4	90,483	163,130	14,722	40,420	5,210	59	3,385	448	2,438	426	1,201	137	833	113	10,993	8,907	213	3,792
65.0	66.0	30.4	84,323	143,365	13,517	37,191	4,657	65	3,120	491	2,259	467	1,226	151	957	123	11,994	9,131	202	3,740
66.0	66.7	34.6	92,778	167,352	15,430	42,834	5,382	65	3,757	497	2,687	482	1,283	156	992	128	12,501	9,599	210	3,602
MA_DD_0042: 1m at 5.8% TREO from 81m																				
81.0	82.0	5.8	19,515	24,078	2,954	7,856	858	15	539	68	365	62	169	21	121	16	1,761	1,380	34	740
MA_DD_0043: 9m at 6.7% TREO from 91m																				
91.0	92.0	6.6	18,265	30,817	2,998	8,436	1,010	26	711	95	544	97	267	34	206	27	2,795	1,916	81	921
92.0	93.0	7.6	16,979	41,080	2,866	8,959	1,115	30	831	108	628	111	305	38	234	31	3,119	1,573	108	1,012
93.0	94.0	0.6	1,381	3,478	200	576	76	3	61	8	48	9	24	3	19	3	228	90	10	76
94.0	95.0	1.1	3,265	4,662	502	1,377	165	6	109	14	76	13	35	4	27	4	340	43	6	111
95.0	96.0	14.5	40,993	63,502	7,147	20,727	2,494	54	1,652	214	1,206	205	544	66	391	50	5,794	1,836	81	1,062
96.0	97.0	15.6	43,917	75,674	7,335	20,406	2,235	53	1,309	156	826	134	343	41	244	30	3,514	1,432	62	1,140
97.0	98.0	2.8	9,827	10,170	1,582	4,732	487	14	252	29	147	23	56	6	38	5	522	62	4	180
98.0	99.0	4.9	13,716	23,054	2,333	6,830	746	21	410	49	251	39	96	12	67	8	884	189	9	289
99.0	100.0	6.2	18,804	26,134	3,170	9,494	1,069	23	580	74	363	62	153	19	107	14	1,512	679	28	387
MA_DD_0044: 18m at 20.7% TREO from 23m																				
23.0	24.0	14.2	36,906	69,939	6,724	18,190	2,333	29	1,411	173	955	160	423	53	307	39	4,443	5,983	85	944
24.0	25.0	26.9	68,418	133,530	13,462	34,357	4,323	49	2,636	336	1,922	312	832	99	569	72	8,051	13,625	200	2,222
25.0	26.0	9.9	22,443	55,625	4,336	10,165	1,554	17	877	111	596	108	290	37	214	27	2,958	4,738	63	822
26.0	27.0	3.6	7,934	20,723	1,486	3,770	430	7	280	37	196	33	87	11	71	9	736	856	15	375
27.0	28.0	23.1	54,826	117,272	11,346	29,873	3,845	43	2,422	310	1,771	290	734	92	523	65	7,232	12,727	163	1,762
28.0	29.0	20.4	48,994	101,906	10,132	26,253	3,446	40	2,207	287	1,670	282	765	90	503	64	7,554	11,089	112	1,317
29.0	30.0	27.1	64,529	135,442	13,295	34,727	4,593	51	3,103	376	2,334	386	1,041	123	744	89	10,294	14,349	222	1,980
30.0	31.0	24.9	60,579	123,971	12,046	32,429	4,250	47	2,834	347	2,088	338	898	107	612	77	8,720	12,666	296	1,989
31.0	31.6	17.5	35,811	103,243	6,819	18,664	2,371	27	1,461	188	1,024	182	459	59	338	43	4,787	7,092	101	1,448
31.6	32.2	20.5	50,043	100,644	10,058	27,006	3,475	42	2,180	315	1,585	298	780	93	528	67	7,759	11,169	138	2,151
32.2	32.8	29.2	72,691	144,478	14,529	38,040	4,923	54	3,057	392	2,199	365	975	116	712	85	9,632	14,103	291	3,477

From (m)	To (m)	TREO (%)	La_2O_3 (ppm)	CeO_2 (ppm)	Pr_6O_{11} (ppm)	Nd_2O_3 (ppm)	Sm_2O_3 (ppm)	Eu_2O_3 (ppm)	Gd_2O_3 (ppm)	Tb_4O_7 (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)	Nb_2O_5 (ppm)	Sc_2O_3 (ppm)	U_3O_8 (ppm)
32.8	33.5	28.4	68,829	145,631	13,064	34,941	4,524	49	2,959	370	2,124	351	942	111	654	86	9,356	12,324	210	3,493
33.5	34.2	35.2	99,974	165,277	16,754	46,017	4,926	64	3,263	441	2,258	411	1,046	135	836	120	10,799	9,417	240	3,433
34.2	35.0	34.5	100,705	158,466	16,219	45,507	4,860	63	3,275	425	2,247	401	1,027	133	827	120	10,610	8,589	197	3,162
35.0	36.0	37.9	110,208	174,825	17,912	49,865	5,304	72	3,595	480	2,407	450	1,165	149	921	134	11,982	8,138	145	3,149
36.0	37.0	35.2	95,360	163,146	17,126	47,979	5,363	74	3,534	515	2,581	492	1,238	160	952	131	13,229	12,408	174	5,135
37.0	37.8	25.5	69,166	118,132	13,057	33,280	4,492	59	2,779	400	2,053	382	1,023	122	769	90	9,563	10,976	275	3,568
37.8	38.4	15.0	24,636	100,704	4,194	11,736	1,643	33	1,174	162	929	165	428	57	353	47	4,185	790	40	1,312
38.4	39.0	1.9	1,786	15,140	306	881	106	2	66	9	52	9	25	3	22	3	221	244	7	223
39.0	40.0	1.3	279	12,273	58	176	26	1	17	3	16	3	8	1	11	1	56	35	4	163
40.0	41.0	4.1	538	39,839	150	432	75	1	34	8	47	7	23	4	42	5	85	44	7	701
MA_DD_0045: 15m at 14.1% TREO from 29m																				
29.0	29.6	2.0	7,295	9,735	625	1,289	144	5	80	11	58	9	25	3	20	3	202	138	24	94
29.6	30.4	4.7	10,414	27,999	1,894	4,779	542	8	326	41	221	38	100	12	71	9	908	1,548	44	331
30.4	31.0	16.4	35,829	94,873	6,490	17,784	2,188	28	1,354	161	886	149	397	47	278	34	3,871	5,545	185	1,051
31.0	32.0	12.0	22,065	78,117	3,858	10,009	1,318	18	754	95	540	94	255	32	192	25	2,530	1,744	129	539
32.0	33.0	14.3	32,028	81,793	5,398	14,735	1,910	28	1,255	150	869	148	407	51	305	39	4,135	5,897	261	1,142
33.0	34.0	17.5	44,838	88,800	8,132	20,741	2,502	35	1,623	198	1,112	195	523	67	406	53	5,484	6,265	304	2,110
34.0	34.9	21.9	50,828	122,190	8,694	22,635	2,771	39	1,878	240	1,394	244	642	83	518	71	6,884	5,950	289	2,886
34.9	36.1	25.2	62,766	131,751	11,051	29,024	3,548	44	2,361	293	1,719	294	752	95	579	77	7,912	7,373	258	3,400
36.1	37.0	2.6	2,474	20,678	470	1,277	161	3	92	13	72	13	35	5	32	5	306	285	10	439
37.0	38.0	0.7	571	5,674	102	279	37	1	22	3	18	3	10	1	10	1	81	128	4	90
38.0	38.9	1.6	942	14,060	158	430	56	1	36	5	30	5	16	2	15	2	134	147	11	145
38.9	40.0	20.1	52,445	102,715	8,964	23,097	2,782	40	1,831	236	1,339	234	605	77	480	63	6,389	5,970	312	1,824
40.0	41.0	19.1	53,982	88,283	9,022	23,740	2,883	42	1,985	257	1,459	264	687	88	560	77	7,296	5,134	274	2,755
41.0	42.0	23.9	63,311	123,604	10,548	27,181	3,155	44	1,967	248	1,390	232	592	76	479	64	6,243	5,479	298	2,775
42.0	42.6	20.5	55,978	100,454	9,698	24,472	2,915	40	1,849	233	1,344	224	581	73	457	60	6,183	5,796	165	2,339
42.6	43.4	22.7	53,249	129,011	8,913	22,749	2,691	38	1,710	233	1,210	222	551	73	434	61	5,672	4,924	244	3,301
43.4	44.0	7.4	9,216	57,900	1,517	4,034	446	10	262	33	185	30	79	11	74	9	652	349	17	1,393
MA_DD_0045: 5.1m at 20.3% TREO from 67.9m																				
67.9	69.9	12.8	33,109	65,111	5,683	15,347	1,879	25	1,168	149	847	141	379	48	298	40	3,834	4,187	74	1,520
69.9	71.0	30.8	83,068	148,867	14,558	39,598	4,743	55	2,861	383	2,042	358	966	113	752	95	9,343	9,838	241	3,233
71.0	71.6	32.1	86,398	148,833	15,663	43,480	5,403	66	3,404	445	2,502	430	1,218	136	896	110	11,992	12,710	283	4,211
71.6	72.3	26.8	73,964	124,216	12,999	35,530	4,311	63	2,658	385	1,926	363	998	117	777	100	9,689	8,459	225	2,957
72.3	73.0	9.9	28,419	48,105	4,507	12,287	1,386	31	811	95	490	81	207	26	171	22	1,891	780	22	567
MA_DD_0046: 0.6m at 13.7% TREO from 42.6m																				
42.6	43.2	13.7	37,446	68,037	5,660	16,537	1,949	27	1,268	170	931	158	421	55	335	47	4,290	4,116	143	1,604
MA_DD_0046: 12.8m at 19.4% TREO from 61.3m																				
61.3	62.0	17.8	47,410	87,758	7,375	21,891	2,666	35	1,788	248	1,315	239	616	81	490	67	6,354	5,019	194	2,192
62.0	63.0	14.2	38,971	70,717	5,740	16,670	1,974	29	1,340	164	928	159	430	57	356	51	4,709	3,503	207	1,846
63.0	64.0	16.3	44,948	80,757	6,638	19,227	2,233	29	1,502	174	996	169	459	61	383	54	5,065	4,034	202	2,271

From (m)	To (m)	TREO (%)	La_2O_3 (ppm)	CeO_2 (ppm)	Pr_6O_{11} (ppm)	Nd_2O_3 (ppm)	Sm_2O_3 (ppm)	Eu_2O_3 (ppm)	Gd_2O_3 (ppm)	Tb_4O_7 (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)	Nb_2O_5 (ppm)	Sc_2O_3 (ppm)	U_3O_8 (ppm)
64.0	65.0	15.0	40,968	74,043	6,103	17,749	2,122	29	1,411	172	987	166	454	60	373	52	5,022	3,788	191	1,958
65.0	66.0	32.0	83,034	158,785	14,096	40,496	4,947	49	3,314	421	2,406	398	1,087	127	834	102	10,397	9,493	197	3,574
66.0	67.0	31.7	81,880	156,853	14,076	40,128	4,848	48	3,258	422	2,334	399	1,065	125	823	100	10,458	9,354	203	3,685
67.0	68.0	34.8	89,964	172,099	15,413	44,307	5,388	50	3,585	440	2,578	422	1,265	132	873	107	11,014	9,747	200	3,878
68.0	68.7	33.7	87,092	166,637	15,054	42,969	5,194	49	3,515	430	2,533	405	1,094	127	856	103	10,820	9,555	196	3,740
68.7	69.4	20.8	55,675	102,864	8,787	25,746	3,083	34	2,086	260	1,500	247	607	79	483	66	6,767	5,681	180	2,417
69.4	70.0	1.9	4,649	8,943	863	2,527	324	7	241	36	204	39	108	15	94	13	1,105	627	110	473
70.0	70.7	2.1	5,007	9,572	932	2,707	343	7	257	37	212	40	113	15	97	13	1,168	646	113	407
70.7	71.3	14.4	39,650	71,103	5,844	16,920	2,037	27	1,357	156	901	150	407	54	336	48	4,639	3,649	203	1,795
71.3	72.0	15.1	41,417	74,993	6,128	17,714	2,069	28	1,395	162	943	158	428	57	356	50	4,861	3,756	202	1,919
72.0	73.0	15.4	42,798	76,264	6,271	18,065	2,130	28	1,405	170	988	164	447	60	374	52	5,021	4,098	209	2,237
73.0	74.0	15.2	41,664	75,341	6,209	17,937	2,114	25	1,405	165	967	161	438	58	358	50	4,891	4,254	188	2,485
MA_DD_0099: 75.8m at 13.8% TREO from 137.6m																				
137.6	138.2	8.0	21,727	39,879	3,396	12,581	1,090	16	748	98	542	93	247	34	201	28	2,615	2,411	161	1,238
138.2	139.0	14.5	39,166	72,452	6,234	23,274	2,073	25	1,365	187	973	184	460	61	361	50	4,629	4,203	205	2,344
139.0	140.0	14.7	39,874	72,699	6,330	23,533	2,078	26	1,400	190	977	185	487	62	367	51	4,809	4,190	205	2,363
140.0	141.0	14.5	39,176	72,415	6,184	23,129	2,062	26	1,359	189	972	184	481	61	363	50	4,771	4,173	221	2,270
141.0	142.0	13.9	37,674	68,832	5,933	22,169	1,984	25	1,316	182	944	179	438	59	353	49	4,636	4,060	206	2,195
142.0	143.0	14.0	37,921	69,416	5,993	22,421	1,964	26	1,327	182	939	179	461	59	352	49	4,621	3,997	225	2,142
143.0	144.0	14.3	38,770	71,175	6,248	23,052	2,026	26	1,359	183	944	182	472	60	356	49	4,690	3,968	216	2,115
144.0	145.0	14.1	38,555	70,163	6,023	22,554	1,972	26	1,335	183	949	182	466	60	356	49	4,630	4,037	217	2,220
145.0	146.0	13.4	36,204	66,078	5,711	21,426	1,905	25	1,270	181	919	175	418	58	349	49	4,533	3,891	215	2,084
146.0	147.0	13.9	37,611	68,843	5,914	22,185	1,977	26	1,313	183	940	178	469	59	355	49	4,606	3,899	207	2,136
147.0	148.0	13.6	37,207	67,454	5,822	21,831	1,943	25	1,285	174	897	170	428	56	337	47	4,375	3,781	206	1,980
148.0	149.0	14.7	40,171	73,061	6,279	23,532	2,062	26	1,368	187	956	181	479	60	378	50	4,711	4,047	215	2,105
149.0	150.0	14.4	39,245	71,358	6,118	22,835	2,064	26	1,350	187	962	185	478	60	397	50	4,738	4,074	217	2,117
150.0	151.0	14.1	38,406	70,484	5,989	22,438	1,970	25	1,334	181	940	177	445	59	353	49	4,568	3,941	214	2,134
151.0	152.0	14.8	40,061	73,545	6,315	23,616	2,092	27	1,405	191	978	188	494	61	369	51	4,852	4,148	214	2,151
152.0	153.0	15.4	42,039	76,272	6,652	24,587	2,164	28	1,423	190	982	188	489	62	373	52	4,909	4,214	225	2,184
153.0	154.0	15.1	41,087	75,330	6,449	24,258	2,136	26	1,421	185	959	182	454	60	358	50	4,600	4,041	228	2,076
154.0	155.0	15.1	40,998	75,052	6,610	24,275	2,139	27	1,411	190	966	185	486	62	368	51	4,785	4,065	225	2,150
155.0	156.0	14.7	40,248	72,862	6,229	23,322	2,062	27	1,379	186	957	184	478	61	365	51	4,697	4,001	225	2,151
156.0	157.0	14.8	40,555	73,359	6,278	23,452	2,075	27	1,372	187	953	181	479	61	390	51	4,764	3,988	242	2,030
157.0	158.0	13.8	37,112	67,739	5,793	22,338	2,006	28	1,343	177	989	175	453	59	375	51	4,715	3,563	199	2,073
158.0	159.0	14.5	39,406	71,209	6,211	23,541	2,099	29	1,395	181	1,002	183	462	60	382	53	4,759	3,646	194	2,000
159.0	160.0	14.5	39,161	71,337	6,104	23,596	2,100	29	1,408	180	1,006	179	461	60	380	52	4,690	3,756	196	2,151
160.0	161.0	14.5	39,040	71,139	6,289	23,827	2,101	29	1,400	184	1,027	182	465	60	380	52	4,784	3,795	190	2,148
161.0	162.0	20.6	55,254	102,305	9,332	34,427	2,963	37	1,882	241	1,298	226	567	73	461	64	5,901	5,282	139	2,479
162.0	163.0	18.1	48,796	89,947	8,223	30,332	2,581	34	1,691	218	1,161	207	518	67	420	58	5,326	4,815	122	2,167
163.0	164.0	13.5	36,543	66,819	5,676	21,985	1,946	28	1,311	173	954	170	440	57	362	50	4,534	3,371	180	1,708

From (m)	To (m)	TREO (%)	La_2O_3 (ppm)	CeO_2 (ppm)	Pr_6O_{11} (ppm)	Nd_2O_3 (ppm)	Sm_2O_3 (ppm)	Eu_2O_3 (ppm)	Gd_2O_3 (ppm)	Tb_4O_7 (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)	Nb_2O_5 (ppm)	Sc_2O_3 (ppm)	U_3O_8 (ppm)
164.0	165.0	14.2	38,378	70,164	6,065	23,155	2,052	30	1,369	180	997	177	453	59	371	51	4,782	3,442	177	1,703
165.0	166.0	14.3	38,546	70,244	6,179	23,643	2,107	30	1,426	187	1,029	185	472	61	385	53	4,859	3,537	183	1,743
166.0	167.0	14.2	38,431	70,009	5,999	23,076	2,080	30	1,407	180	1,011	177	462	60	384	53	4,867	3,507	188	1,759
167.0	168.0	14.6	39,252	71,985	6,171	23,743	2,108	30	1,427	184	1,012	178	464	61	382	52	4,839	3,529	193	1,703
168.0	169.0	26.4	67,844	130,696	12,135	45,920	4,127	44	2,752	345	1,958	336	907	105	699	86	8,338	7,305	123	2,925
169.0	170.0	30.7	78,586	151,357	13,969	54,372	4,801	49	3,158	412	2,259	395	1,066	123	828	99	9,594	8,659	130	3,583
170.0	171.0	30.5	78,274	150,953	13,922	53,860	4,735	47	3,094	383	2,224	369	1,002	116	780	94	9,122	8,424	123	3,398
171.0	172.0	29.1	75,395	143,893	13,259	50,941	4,481	47	2,914	381	2,052	357	970	112	763	91	8,867	8,275	127	3,257
172.0	173.0	30.9	80,793	152,331	14,103	54,201	4,738	49	3,087	387	2,140	373	1,009	117	791	96	9,184	8,523	121	3,312
173.0	174.0	28.2	73,394	138,890	12,862	49,104	4,267	47	2,781	368	1,944	351	953	110	740	90	8,809	8,125	117	3,104
174.0	175.0	26.9	70,266	133,070	12,275	46,120	4,082	44	2,680	341	1,874	327	883	102	685	85	8,266	7,614	130	2,813
175.0	176.0	28.1	73,821	139,359	12,737	48,298	4,256	47	2,760	357	1,913	337	912	106	710	89	8,406	7,828	132	2,974
176.0	177.0	28.1	74,155	138,984	12,626	48,068	4,183	47	2,710	350	1,895	329	885	103	686	87	8,157	7,680	135	2,803
177.0	178.0	30.1	79,652	148,646	13,628	51,938	4,447	48	2,871	354	2,002	339	908	105	709	89	8,395	7,875	138	2,852
178.0	179.0	29.5	78,295	145,970	13,352	51,260	4,397	47	2,781	342	1,936	321	856	99	666	84	8,124	7,626	126	2,713
179.0	180.0	31.4	83,794	155,155	14,156	54,138	4,546	51	2,924	369	2,004	342	928	107	719	91	8,482	8,290	134	2,907
180.0	181.0	28.4	75,585	140,290	12,998	49,091	4,179	46	2,692	335	1,856	313	838	97	606	82	7,943	7,398	132	2,646
181.0	182.0	26.9	70,903	133,368	12,217	46,358	3,995	44	2,560	328	1,774	312	837	97	650	82	7,721	7,340	130	2,656
182.0	183.0	30.3	80,556	150,154	13,915	52,298	4,442	49	2,860	356	1,975	335	900	105	692	88	8,423	7,986	134	2,856
183.0	184.0	29.4	77,603	144,977	13,346	51,425	4,395	49	2,807	366	1,953	341	916	107	720	90	8,561	8,051	130	2,947
184.0	184.7	19.8	52,850	98,020	8,954	33,230	2,898	36	1,911	251	1,388	242	624	79	490	67	6,340	5,149	127	2,510
189.0	190.0	1.9	4,810	9,080	843	3,263	300	8	208	27	148	26	72	9	58	8	720	471	26	228
190.0	191.0	10.0	27,224	49,873	4,374	15,537	1,559	21	970	121	662	117	316	40	245	33	3,211	2,467	68	1,175
191.0	192.0	6.0	15,717	29,657	2,558	9,630	862	13	582	77	429	77	209	26	164	22	2,158	1,616	29	752
192.0	193.0	0.9	2,432	4,536	416	1,574	146	6	102	13	71	13	34	4	28	4	339	154	15	97
193.0	193.8	1.4	3,508	6,556	613	2,439	224	7	155	19	100	17	44	5	32	4	467	152	31	110
193.8	194.4	2.2	5,614	10,592	969	3,751	352	8	249	34	195	35	98	13	83	11	1,001	715	90	245
194.4	195.0	6.8	18,631	33,910	2,917	10,730	948	15	664	85	471	83	226	29	186	26	2,326	1,889	158	601
195.0	195.8	5.5	15,040	27,570	2,311	8,513	746	13	503	66	367	65	177	22	140	19	1,848	1,517	64	906
195.8	196.5	9.5	26,225	47,059	3,962	14,487	1,371	21	887	109	612	108	298	39	246	34	3,212	2,278	69	1,150
196.5	197.1	1.9	4,768	8,951	840	3,296	306	8	219	29	161	29	79	10	62	8	810	297	12	230
197.1	198.0	5.4	14,950	27,476	2,290	8,311	712	13	475	62	333	58	152	19	122	17	1,624	1,286	58	724
200.0	201.0	1.9	4,945	9,252	846	3,270	297	8	201	26	141	25	65	8	53	8	645	448	40	228
201.0	202.0	4.5	10,963	23,805	1,994	7,156	622	12	430	57	316	57	155	20	128	17	1,669	1,211	66	547
202.0	203.2	1.5	3,698	7,044	659	2,572	244	6	172	23	127	23	62	8	50	7	621	273	40	155
203.2	204.3	23.4	60,710	115,307	10,780	40,237	3,631	39	2,426	304	1,733	296	797	96	586	78	7,638	6,487	94	2,889
204.3	205.1	1.0	2,365	4,581	441	1,729	178	5	134	18	103	19	52	7	43	6	520	158	21	95
205.1	206.0	11.7	30,729	56,726	4,981	19,505	1,911	26	1,308	157	931	158	429	54	322	42	4,551	2,414	82	1,087
211.6	212.6	29.0	75,093	142,009	13,235	50,946	4,484	46	2,914	372	2,073	359	978	115	758	93	9,453	8,178	125	3,345
212.6	213.3	4.2	10,101	21,878	1,876	6,935	602	10	406	53	290	51	139	18	111	15	1,448	1,235	27	560

From (m)	To (m)	TREO (%)	La_2O_3 (ppm)	CeO_2 (ppm)	Pr_6O_{11} (ppm)	Nd_2O_3 (ppm)	Sm_2O_3 (ppm)	Eu_2O_3 (ppm)	Gd_2O_3 (ppm)	Tb_4O_7 (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)	Nb_2O_5 (ppm)	Sc_2O_3 (ppm)	U_3O_8 (ppm)
SDD0003: 5.4m at 18.7% TREO from 0m																				
0.0	1.0	21.0	51,500	104,500	9,740	26,000	3,454	45	2,280	319	1,600	310	857	104	626	87	8,848	12,325	180	2,194
1.0	2.0	23.7	57,100	122,900	11,170	28,300	3,600	39	2,260	291	1,600	254	697	84	509	64	7,651	12,324	106	2,221
2.0	3.0	20.7	47,100	113,300	8,820	23,100	3,000	35	1,870	230	1,300	218	603	73	443	56	6,450	9,986	59	2,757
3.0	4.0	26.2	64,600	133,100	12,690	32,100	4,100	45	2,670	341	1,900	319	808	98	590	74	8,684	12,683	160	2,823
4.0	4.7	6.7	7,583	51,400	1,360	3,689	464	9	339	44	260	47	135	17	103	13	1,447	1,353	27	653
4.7	5.4	6.0	6,520	47,400	1,280	3,316	406	7	261	33	188	32	88	11	71	9	876	1,248	41	615
SDD0007: 2m at 1.8% TREO from 60m																				
60.0	61.0	1.7	3,958	7,550	729	2,377	361	7	279	43	258	49	139	19	114	15	1,404	796	105	433
61.0	62.0	1.8	4,105	8,033	779	2,589	396	7	309	47	283	54	154	21	125	17	1,510	861	123	433
SDD0007: 5.1m at 3.8% TREO from 93.4m																				
93.4	94.0	15.6	40,240	76,006	7,068	19,584	2,513	31	1,638	208	1,189	198	551	68	428	56	5,935	4,709	114	2,489
94.0	95.0	1.7	4,229	8,181	785	2,278	301	6	217	30	180	32	92	12	75	10	906	747	79	506
95.0	96.0	0.7	1,704	3,164	279	790	110	4	79	11	62	11	32	4	26	3	329	211	24	89
96.0	97.0	4.0	10,414	19,318	1,722	5,417	653	11	447	61	323	61	158	21	129	19	1,522	1,431	30	634
97.0	97.8	2.4	5,758	11,398	1,152	3,244	411	8	298	42	230	43	110	15	87	12	1,051	733	80	336
97.8	98.5	2.3	5,725	11,158	1,105	3,053	371	8	255	35	185	35	91	12	72	11	867	740	39	325
SDD0007: 1m at 25% TREO from 112.5m																				
112.5	113.5	25.0	63,844	122,259	11,448	32,317	4,059	46	2,656	360	1,921	357	870	115	686	96	8,742	7,533	179	3,093
SDD0011: 13m at 8.7% TREO from 15m																				
15.0	15.7	3.5	5,295	24,063	1,018	2,658	339	6	230	31	177	32	84	11	67	9	872	887	13	185
15.7	16.5	19.2	46,212	97,496	9,115	24,023	3,007	45	1,895	259	1,318	253	673	85	489	64	7,112	12,272	166	1,419
16.5	17.5	10.9	27,663	54,947	5,212	13,418	1,663	23	964	131	723	130	350	45	266	36	3,911	6,236	89	773
17.5	18.5	11.9	29,039	59,760	5,296	14,360	1,807	33	1,355	174	962	177	481	62	371	51	5,224	6,932	169	887
18.5	19.5	9.9	24,877	49,424	4,503	12,078	1,528	25	1,003	138	755	139	379	48	288	39	4,098	6,166	126	752
19.5	20.5	10.5	25,824	53,836	4,574	12,182	1,514	25	980	132	739	137	376	49	290	40	4,166	5,551	135	813
20.5	22.5	11.6	29,051	59,564	5,088	13,362	1,693	25	1,075	145	790	145	388	50	293	39	4,282	6,750	154	807
22.5	23.1	10.7	26,669	50,355	4,653	13,150	1,846	32	1,440	200	1,126	207	567	73	436	59	6,152	7,506	202	930
23.1	24.2	11.6	29,281	57,987	5,122	13,811	1,770	27	1,271	153	853	156	421	54	326	44	4,633	6,450	148	936
24.2	25.0	2.7	5,742	15,256	1,040	2,755	361	8	255	35	189	33	86	11	66	9	896	672	25	168
25.0	26.0	1.3	1,033	11,148	187	541	78	2	64	9	54	9	25	3	21	3	218	154	21	94
26.0	27.0	0.9	1,438	6,466	258	717	93	2	61	9	46	8	22	3	17	2	217	371	15	79
27.0	28.0	5.3	2,735	46,858	546	1,406	194	4	132	18	100	18	48	6	41	5	447	750	61	422
SDD0011: 2.9m at 19.2% TREO from 83.9m																				
83.9	84.5	11.2	28,720	55,116	5,169	14,375	1,736	19	1,164	134	729	129	364	46	281	37	3,683	3,517	152	1,255
84.5	85.1	23.6	61,188	116,183	10,944	31,240	3,637	36	2,379	283	1,705	272	696	87	532	71	7,082	6,809	184	2,404
85.1	86.0	18.5	47,525	91,448	8,534	24,161	2,797	28	1,873	202	1,354	195	545	68	418	56	5,591	5,335	193	1,971
86.0	86.9	22.4	58,393	110,491	10,288	29,246	3,401	34	2,220	257	1,607	240	636	80	489	65	6,624	6,417	185	2,400

From (m)	To (m)	TREO (%)	La_2O_3 (ppm)	CeO_2 (ppm)	Pr_6O_{11} (ppm)	Nd_2O_3 (ppm)	Sm_2O_3 (ppm)	Eu_2O_3 (ppm)	Gd_2O_3 (ppm)	Tb_4O_7 (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)	Nb_2O_5 (ppm)	Sc_2O_3 (ppm)	U_3O_8 (ppm)
SDD0011: 3.7m at 16.2% TREO from 94m																				
94.0	95.0	9.0	24,040	45,251	4,218	9,882	1,375	16	793	105	573	101	280	35	217	29	3,013	2,655	67	985
95.0	96.0	27.2	72,207	134,606	12,220	34,712	3,879	46	2,454	320	1,717	292	743	93	581	78	7,881	8,243	110	2,682
96.0	97.0	14.9	39,736	73,302	6,730	18,447	2,107	26	1,389	159	866	155	436	56	349	47	4,728	4,312	189	2,214
97.0	97.7	12.7	33,832	63,043	5,753	15,606	1,857	21	1,216	133	723	128	362	46	285	39	3,866	3,525	123	1,828

APPENDIX D: Monte Alto drillhole information and significant saprolite/monazite intercepts

Hole ID	X	Y	Elevation	Depth	Dip	Azimuth	From (m)	To (m)	Interval (m)	TREO (%)	NdPr (ppm)	DyTb (ppm)	Nb_2O_5 (ppm)	Sc_2O_3 (ppm)	U_3O_8 (ppm)
MA_DD_0001	432,875	8,524,478	591	120.6	64.4	333.8	0.0	24.9	24.9	3.9	7,737	279	732	9	265
MA_DD_0002	432,877	8,524,477	591	250.6	62.9	218.6	8.0	24.0	16.0	3.7	10,535	322	36	3	74
MA_DD_0005	432,816	8,524,520	597	125.1	65.5	298.6	9.0	14.0	5.0	1.7	3,172	337	437	88	218
MA_DD_0022	432,637	8,524,077	592	150.1	65.0	130.0	20.3	27.0	6.7	1.3	2,482	153	294	15	97
MA_DD_0043	432,648	8,524,236	651	150.3	55.1	101.1	30.0	38.0	8.0	2.7	5,549	225	37	37	117
	and						50.0	57.0	7.0	2.7	5,161	274	666	33	130
	and						78.0	85.2	7.2	1.4	2,665	181	173	17	92
MA_DD_0045	432,680	8,524,356	672	150.2	55.5	131.1	44.0	47.0	3.0	1.2	2,229	79	98	5	174
SDD0003	432,880	8,524,480	597	53.9	85.0	322.0	6.5	26.2	19.7	3.5	9,019	331	58	3	129
SDD0011	432,718	8,524,385	660	150.0	88.9	228.4	2.0	5.0	3.0	2.1	1,060	67	1,226	30	205
	and						28.0	36.0	8.0	2.1	1,352	77	300	12	225
	and						44.0	48.1	4.1	5.2	10,333	523	1,287	17	574

APPENDIX E: JORC Table

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 1m samples from which 3kg was pulverised to produce a 30g 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.*	The reported drill results are obtained from diamond core drilling. Diamond drill holes were drilled with 3m run lengths in fresh rock and 1.5m run length in saprolite. Drill core was collected directly from a core barrel and placed in pre-labelled core trays. Run interval depths were measured and recorded. Drill core was transported to the BRE's exploration facility where it was measured for recovery, geologically logged, photographed, and marked up for sampling. Selected sample intervals considered lithological boundaries (i.e. sample was to, and not across, major contacts). Diamond core was HQ or NQ size. The diamond core sample intervals were a minimum of 0.5m and a maximum of 3m. Diamond drill core was cut using a core saw into two quarter core samples with one summited for assay and the other retained for archive. The remaining half core remained in the core tray for further testing. Cuts were made along a line drawn to ensure samples were not influenced by the distribution of mineralisation within the drill core (i.e. the cut line bisected mineralized zones). The split for assay was placed in pre-numbered sample bags for shipment to the laboratory for ICPMS analysis. All drilling provided a continuous sample of mineralized zone. All mineralisation that is material to this report has been directly determined through quantitative laboratory analytical techniques that are detailed in the sections below.
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 drilling was conducted by BRE using a Royal Eijkelkamp CompactRotoSonic XL170 MAX DUO rig to drill vertical holes with an operational depth limit of 200m and an average depth of 112m; and using an I-800 DKVIII-12 rig to drill angled holes with an operational depth limit of 500m and an average depth of 160m. Drill core was recovered from surface to the target depth. All diamond drill holes utilized a 3.05m long single wall barrel and were collared with HQ and were transitioned to NQ once non-weathered and unoxidized bedrock was encountered. Water is used as a drilling fluid as necessary and to aid in extruding material from the core barrel. Oriented core was collected on selected angled drill holes using the REFLEX ACT III tool by a qualified geologist at the drill rig. The orientation data is currently being evaluated.

Criteria	JORC Code explanation	Commentary
Drill sample recovery	• *Method of recording and assessing core and chip sample recoveries and results assessed.* • *Measures taken to maximise sample recovery and ensure representative nature of the samples.* • *Whether a relationship exists between sample recovery and grade and whether sample bias may have occurred due to preferential loss/gain of fine/coarse material.*	The sonic and diamond core was transported from the drill site to the logging facility in covered boxes with the utmost care. Once at the logging facility, broken core was re-aligned to its original position as closely as possible. The recovered drill core was measured, and the length was divided by the interval drilled and expressed as a percentage. This recovery data was recorded in the database. Recoveries for all core drilling are consistently good. There does not appear to be a relationship between sample recovery and grade or sample bias due to preferential loss or gain of fine or coarse material with these drilling and sampling methods.
Logging	• *Whether core and chip samples have been geologically and geotechnically logged to a level of detail to support appropriate Mineral Resource estimation, mining studies and metallurgical studies.* • *Whether logging is qualitative or quantitative in nature. Core (or costean, channel, etc) photography.* • *The total length and percentage of the relevant intersections logged.*	Data was collected in sufficient detail to support Mineral Resource estimation studies. All drill core was logged at the Company's exploration facility by the logging geologist. Core was photographed wet in core boxes immediately before sampling. Core photos show sample numbers, drill run lengths for material in the core box. Logging included qualitive determinations of primary and secondary lithology units, weathering profile unit (mottled zone, lateritic zone, saprock, saprolite, etc.) as well as colour and textural characteristics of the rock. GPS coordinates as well as geological logging data for all drillholes were captured in a Microsoft Excel spreadsheet and uploaded to the project database in MXDeposit. Data was collected in sufficient detail to support Mineral Resource estimation. All drill holes reported in this news release were logged entirely.
Sub-sampling techniques and sample preparation	• *If core, whether cut or sawn and whether quarter, half or all core taken.* • *If non-core, whether riffled, tube sampled, rotary split, etc and whether sampled wet or dry.* • *For all sample types, the nature, quality and appropriateness of the sample preparation technique.* • *Quality control procedures adopted for all sub-sampling stages to maximise representivity of samples.* • *Measures taken to ensure that the sampling is representative of the in-situ material collected, including for instance results for field duplicate/second-half sampling.* • *Whether sample sizes are appropriate to the grain size of the material being sampled.*	Core from diamond drilling was split to obtain quarter core sub-samples for assaying. Reported diamond core sample intervals were typically 1m in length with a minimum of 0.5m and a maximum of 3m. Interval lengths considered lithological boundaries (i.e. sample was to, and not across, major contacts). To avoid selection bias, the right of core was consistently sampled and the bottom half retained in the core tray for archiving. Field duplicates were completed at frequency 1:20 samples to evaluate the sample collection procedures to ensure representativeness and show good reproducibility. Duplicate analyses of coarse crush and pulp material were provided by SGS. Core sub-samples submitted for assaying had an average weight of 1 kg. Auger and sonic sub-samples submitted for assaying had an average weight of 1.2 kg. Grab samples had an average weight of 0.65 kg. Submitted samples of all types have appropriate mass to represent the material collected which includes mega-enclaves of cumulate REE-Nb-Sc-U mineralisation, microparticle to sand sized monazite grains, and ionic clay REE mineralisation.

<table>
<tr><th>Criteria</th><th>JORC Code explanation</th><th>Commentary</th></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 (i.e. lack of bias) and precision have been established.

</td>
<td>
Drill core samples collected by the Company were assayed by SGS Geosol in Vespasiano, Minas Gerais, Brazil, which is considered the Primary laboratory.
Samples were initially dried at 105 degrees Celsius for 24 hours. Samples were crushed to 75% passing the 3mm fraction and the weight was recorded. The sample was reduced on a rotary splitter and then 250g to 300g of the sample was pulverized to 95% passing 75 µm. Residues were stored for check analysis or further exploration purposes.
The assay technique used for REE was Lithium Borate Fusion ICP-MS (SGS Geosol code IMS95A). This is a total analysis of the REE. Elements analysed at ppm levels were as follows:
<table>
<tr><td>Ce</td><td>Co</td><td>Cs</td><td>Cu</td><td>Dy</td><td>Er</td><td>Eu</td><td>Ga</td></tr>
<tr><td>Gd</td><td>Hf</td><td>Ho</td><td>La</td><td>Lu</td><td>Mo</td><td>Nb</td><td>Nd</td></tr>
<tr><td>Ni</td><td>Pr</td><td>Rb</td><td>Sm</td><td>Sn</td><td>Ta</td><td>Tb</td><td>Th</td></tr>
<tr><td>Tl</td><td>Tm</td><td>U</td><td>W</td><td>Y</td><td>Yb</td><td></td><td></td></tr>
</table>
Overlimit samples were analysed at percentage levels using SGS Geosol analysis code IMS95RS
The assay technique used for major oxides and components was Lithium Borate Fusion ICP-OES (SGS Geosol code ICP95A). This is a total analysis for the elements analysed % and ppm (Ba, V, Sr, Zn, Zr) levels as listed below:
<table>
<tr><td>Al_2O_3</td><td>Ba</td><td>CaO</td><td>Cr_2O_3</td></tr>
<tr><td>Fe_2O_3</td><td>K_2O</td><td>MgO</td><td>MnO</td></tr>
<tr><td>Na_2O</td><td>P_2O_5</td><td>SiO_2</td><td>Sr</td></tr>
<tr><td>TiO_2</td><td>V</td><td>Zn</td><td>Zr</td></tr>
</table>
Analysis for Scandium (Sc) was made by 4-Acid ICP-AES Analysis (SGS Geosol code ICM40-FR).
Accuracy was monitored through submission of certified reference materials (CRMs) supplied by OREAS North America Inc. CRM materials (25a, 106, 147, 460 and 465) cover a range of REE grades encountered on the project. CRM 465 has an equivalent grade of approximately 10% TREO and supports reliable analysis of high grade REEE-Nb-Sc mineralisation detailed in this report. CRM were inserted within batches of core, sonic and auger drill samples, and grab samples, at a frequency of 1:20 samples.
CRMs were submitted as “blind” control samples not identifiable by the laboratory and were alternated to span the range of expected grades within a group of 100 samples.
</td>
</tr>
</table>

Criteria	JORC Code explanation	Commentary
		Contamination was monitored by insertion of blank samples of coarse quartz fragments. Blanks were inserted within batches of sonic and auger drill samples, and grab samples, at a frequency of 1:40 samples. Blanks pass through the entire sample preparation stream to test for cross contamination at each stage. No laboratory contamination or bias were noticed. Precision and sampling variance was monitored by the collection 'Field duplicate' samples, predominantly from mineralised intervals, at the rate of 1:20 samples. Half core was split into two ¼ core samples to make field duplicate pairs that are analysed sequentially. The adopted QA/QC protocols are acceptable for this stage of exploration. Examination of the QA/QC sample data indicates satisfactory performance of field sampling protocols and assay laboratory procedures. Levels of precision and accuracy are sufficient to allow disclosure of analysis results and their use for Mineral Resource estimation.
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 intersections was undertaken. Nineteen closely spaced twin holes were drilled using a sonic drill rig to verify the auger drilling and sampling methods. There does not appear to be a systematic bias associated with auger drill method. Mean assay values obtained by augering are not likely to be higher or lower than values obtained by sonic drilling. All assay results are checked by the company's Principal Geologist. Logging for drillholes was directly uploaded to the project database hosed in the MXDeposit system. Assay data and certificates in digital format from the laboratory are directly uploaded to the project database. Rare earth oxide is the industry-accepted form for reporting rare earth elements. 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 MREO calculations. 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 . MREO (Magnet Rare Earth Oxide) = Nd_2O_3 + $Pr_6O_{11}Pr_6O_{11}$ + Tb_4O_7 + Dy_2O_3 + Gd_2O_3 + Ho_2O_3 + Sm_2O_3 + Y_2O_3 . LREO (Light Rare Earth Oxide) = La_2O_3 + CeO_2 + Pr_6O_{11} + Nd_2O_3 .

<table>
<tr><th>Criteria</th><th>JORC Code explanation</th><th>Commentary</th></tr>
<tr><td></td><td></td><td>NdPr = $Nd_2O_3 + Pr_6O_{11}$.

NdPr% of TREO = $Nd_2O_3 + Pr_6O_{11}$/TREO x 100.

HREO% of TREO = HREO/TREO x 100.

Conversion of elemental analysis (REE) to stoichiometric oxide (REO) was undertaken by spreadsheet using defined conversion factors.

<table>
<tr><th>Element</th><th>Factor</th><th>Oxide</th></tr>
<tr><td>La</td><td>1.1728</td><td>La_2O_3</td></tr>
<tr><td>Ce</td><td>1.2284</td><td>Ce_2O_3</td></tr>
<tr><td>Pr</td><td>1.2082</td><td>Pr_6O_{11}</td></tr>
<tr><td>Nd</td><td>1.1664</td><td>Nd_2O_3</td></tr>
<tr><td>Sm</td><td>1.1596</td><td>Sm_2O_3</td></tr>
<tr><td>Eu</td><td>1.1579</td><td>Eu_2O_3</td></tr>
<tr><td>Gd</td><td>1.1526</td><td>Gd_2O_3</td></tr>
<tr><td>Tb</td><td>1.1762</td><td>Tb_4O_7</td></tr>
<tr><td>Dy</td><td>1.1477</td><td>Dy_2O_3</td></tr>
<tr><td>Ho</td><td>1.1455</td><td>Ho_2O_3</td></tr>
<tr><td>Er</td><td>1.1435</td><td>Er_2O_3</td></tr>
<tr><td>Tm</td><td>1.1421</td><td>Tm_2O_3</td></tr>
<tr><td>Yb</td><td>1.1387</td><td>Yb_2O_3</td></tr>
<tr><td>Lu</td><td>1.1372</td><td>Lu_2O_3</td></tr>
<tr><td>Y</td><td>1.2699</td><td>Y_2O_3</td></tr>
</table>
The process of converting elemental analysis of rare earth elements (REE) to stoichiometric oxide (REO) was carried out using predefined conversion factors on a spreadsheet. (Source: https://www.jcu.edu.au/advanced-analytical-centre/services-and-resources/resources-and-extras/element-to-stoichiometric-oxide-conversion-factors)</td></tr>
<tr><td>Location of data points</td><td>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.</td><td>Diamond drill collars are located by a surveyor using RTK-GPS with centimetre scale accuracy.

Drill hole surveying was performed on each diamond hole using a REFLEX EZ-Trac multi-shot instrument. Readings were taken every 10 to 25 meters and recorded depth, azimuth, and inclination. Projected drill hole traces show little deviation from planned orientations.

The accuracy of projected exploration data locations is sufficient for this stage of exploration and to support mineral resource estimation studies.</td></tr>
</table>

Criteria	JORC Code explanation	Commentary
		The gird datum used is SIRGAS 2000 UTM 24S.Topographic control is provided by an airborne LIDAR lateral resolution of $3m^2$.
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.*	For selected areas at Monte Alto that host fresh rock REE-Nb-Sc-U mineralisation, the drill spacing is generally 40m to 200m along strike and down dip. This spacing is sufficient to determine continuity in geology and grade with sufficient resolution to support early-stage exploration and targeting. At all target areas laterally extensive REE enriched horizons are present in the regolith. These areas are tested by auger and sonic drilling at spacings ranging from approximately 80m to 400m in the north-south and east west directions. At Monte Alto, REE are predominantly hosted in the regolith by sand sized monazite grains distributed within a central high-grade zone. This zone is tested by auger and sonic drilling at 80 m grid spacings. For all regolith mineralisation styles, the drill spacing is sufficient to establish geology and grade continuity in accordance with Inferred classification criteria. Composite sample grades are calculated by generating length weighted averages of assay values.
Orientation of data in relation to geological structure	• *Whether the orientation of sampling achieves unbiased sampling of possible structures and the extent to which this is known, considering the deposit type.* • *If the relationship between the drilling orientation and the orientation of key mineralised structures is considered to have introduced a sampling bias, this should be assessed and reported if material.*	The distribution of REE in the regolith horizons is largely controlled by vertical changes within the profile. Vertical drill holes intersect these horizons perpendicularly and obtain representative samples that reflect the true width of horizontal mineralisation. In regolith, auger and sonic drill hole orientations do not result in geometrically biased interval thickness. The distribution of mineralisation in fresh rock at Monte Alto is controlled by steeply dipping to sub vertical mega-enclaves of monazite cumulate that strike northwest. The angled drill holes were designed and oriented with inclinations ranging from -30 to -80 degrees to intersect these bodies as perpendicular as possible within the limitations of the drill rig. Vertical SSD series holes tend to intersect mineralisation at a highly oblique angle. Grab samples are collected from single location points on outcropping material, or boulders/corestones, and do not represent a continuous sample along any length of the mineralised system.
Sample security	• *The measures taken to ensure sample security.*	After collection in the field, the auger and grab samples were placed in sealed plastic bags that were then placed into larger polyweave bags labelled with the sample IDs inside and transported to the Company's secure warehouse. Drill core samples were transported in their core boxes. A local courier transported the samples submitted for analysis to the laboratory. A copy of all waybills related to the sample forwarding was secured from the expediter. An electronic copy of each submission was forwarded to the laboratory to inform them of the incoming sample shipment.

Criteria	JORC Code explanation	Commentary
		Once the samples arrived at the laboratory, the Company was notified by the laboratory manager and any non-compliance is reported. The laboratory did not report any issues related to the samples received.
Audits or reviews	• *The results of any audits or reviews of sampling techniques and data.*	The Company engaged the services of Telemark Geosciences to review the sampling and analysis techniques used at the Project, and to establish a "Standard Operating Procedures" manual to guide exploration. CSA Global Associate Principal Consultant, Peter Siegfried has toured the Company's exploration sites and facilities and conducted reviews of sampling techniques and data. The Company has addressed recommendations and feedback provided by CSA Global.

Section 2 Reporting of Exploration Results

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 Project is 100% owned by, or to be acquired by, subsidiaries of Brazilian Rare Earths Limited (BRE), an Australian registered company. Located in the State of Bahia, Northeastern Brazil, the BRE Property consists of 262 granted exploration permits covering a land area of approximately 4,222 km2. Permits are registered at Brazil's National Mining Agency The Project also includes four applications for mining permits and two disponibilidades, as well as an option (described in the prospectus as the Amargosa Option Agreement) to acquire three additional granted exploration permits. All exploration permits are held by the Company's Brazilian subsidiaries directly or are to be acquired through agreements with third parties as detailed in the BRE prospectus and in the Company's ASX Announcement "BRE Expands Control over Rocha da Rocha Rare Earth Province" dated January 22, 2024 All mining permits in Brazil are subject to state and landowner royalties, pursuant to article 20, § 1, of the Constitution and article 11, "b", of the Mining Code. In Brazil, the Financial Compensation for the Exploration of Mineral Resources (Compensação Financeira por Exploração Mineral - CFEM) is a royalty to be paid to the Federal Government at rates that can vary from 1% up to 3.5%, depending on the substance. It is worth noting that CFEM rates for mining rare earth elements are 2%. CFEM shall be paid (i) on the first sale of the mineral product; or (ii) when there is mineralogical mischaracterization or in the industrialization of the substance, which is which is considered

Criteria	JORC Code explanation	Commentary
		"consume" of the product by the holder of the mining tenement; or (iii) when the products are exported, whichever occurs first. The basis for calculating the CFEM will vary depending on the event that causes the payment of the royalty. The landowners royalties could be subject of a transaction, however, if there's no agreement to access the land or the contract does not specify the royalties, article 11, §1, of the Mining Code sets forth that the royalties will correspond to half of the amounts paid as CFEM. The exploration permits in the BRE Tenements section of Table 3 (but excluding exploration permit 871.929/2022 and 871.931/2022, and also excluding the application for exploration permit 871.928/2022) are subject to an additional 2.5% royalty agreement in favour of Brazil Royalty Corp. Participações e Investimentos Ltda (BRRCP). Outside of the ESEC, a further 35 tenements contain approximately 165 km that falls within a State Nature Reserve (APA Caminhos Ecológicos da Boa Esperança), in which mining activities are allowed if authorized by the local environmental agency. In the Brazilian legal framework, mining activities within sustainable use areas are not explicitly prohibited at federal, state, or municipal levels, despite that, the zone's management authority may prohibit mining, if it deems necessary, in the zone's management plan. Activities in these areas must reconcile economic development with environmental preservation. Mining operations impacting these areas require licensing approval from the respective zone's management authority. This authorization is contingent upon conducting thorough Environmental Impact Assessment (EIA) studies. These prescribed areas do not limit mining elsewhere on the Property. The tenements are secure and in good standing with no known impediments to obtaining a licence to operate in the area.
Exploration done by other parties	• *Acknowledgment and appraisal of exploration by other parties.*	On the BRE Property, no previous exploration programs conducted by other parties for REEs. Between 2007 and 2011 other parties conducted exploration that is detailed in the company's prospectus and included exploratory drilling amounting to 56,919 m in 4,257 drill holes. On the Sulista Property, between 2013 and 2019 the project Vendors conducted exploration on the Licences that included drilling of approximately 5,000m of across 499 auger holes and approximately 1,000m of core holes. As of the effective date of this report, BRE is appraising the exploration data collected by other parties.
Geology	• *Deposit type, geological setting and style of mineralisation.*	The Company's tenements contain REE deposits interpreted as analogies to Ion Adsorption ionic Clay ("IAC") deposits, and regolith hosted deposits of monazite mineral grains, and primary in-situ REEE-Nb-Sc mineralisation. The Project is hosted by the Jequié Complex, a terrain of the north-eastern São Francisco Craton, that includes the Volta do Rio Plutonic Suite of high-K ferroan ("A-type") granitoids, subordinate

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		mafic to intermediate rocks; and thorium rich monazitic leucogranites with associated REE. The region is affected by intense NE-SW regional shearing which may be associated with a REE enriched hydrothermal system. Exploration completed by the Company has focused on the bedrock and regolith profile. Bedrock mineralisation is characterized by steeply dipping to sub vertical mega-enclaves of REE-Nb-Sc-U monazite cumulate mineralisation. Local bedrock controls to mineralisation, such as faults or dykes, are not well understood. The company has initiated mapping of the limited bedrock exposures at property and proposes to undertake deeper drilling to create a model of the local geological setting. The regolith mineralisation is characterised by a REE enriched lateritic zone at surface underlain by a depleted mottled zone grading into a zone of REE-accumulation in the saprolite part of the profile.
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 details related to all the diamond core drill holes presented in this Report are detailed in Appendix B and D.
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*	Downhole length weighted averaging is used to aggregate assay data from multiple samples within a reported intercept. No grade truncations or cut-off grades were applied. No metal equivalents values are used.

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	should be clearly stated.	
Relationship between mineralisation widths and intercept lengths	• *These relationships are particularly important in the reporting of Exploration Results.* • *If the geometry of the mineralisation with respect to the drill hole angle is known, its nature should be reported.* • *If it is not known and only the down hole lengths are reported, there should be a clear statement to this effect (eg. 'down hole length, true width not known').*	In the weathered profile all intercepts reported are down hole lengths. The geometry of mineralisation is interpreted to be flat. The drilling is vertical and perpendicular to mineralisation. In the weathered profile down hole lengths correspond to true widths. Significant diamond drill hole intercepts in the fresh rock are reported in down hole lengths and true thickness. The distribution of mineralisation in fresh rock at Monte Alto is controlled by steeply dipping to sub vertical mega-enclaves of monazite cumulate that strike northwest. The angled drill holes have inclinations ranging from -50 to -75 degrees and will tend to intersect mineralisation at moderate angle. For these holes true thickness will typically be 30%-90% of down hole thickness. In the northern and central parts of Monte Alto vertical SDD series holes tend to intersect steep to moderately dipping mineralisation at an oblique angle, for these holes true thickness will typically be 50% of down hole thickness. In the southern parts of Monte Alto vertical SDD series holes tend to intersect mineralisation perpendicularly, for these holes true thickness will typically be 90% of down hole thickness. Significant results in Appendix B are reported using both down hole and true thickness values.
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.*	Diagrams, tables, and any graphic visualization are presented in the body of the report.
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 avoiding misleading reporting of Exploration Results.*	The report presents all drilling results that are material to the project and 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.*	Detailed walking radiometer surveys have been completed on the target areas using a RS-230 Portable Gamma Spectrometer. In survey mode, the total Count of gamma particles Per Second ("CPS") is recorded in real time. In survey mode, the total count of radioactive elements is recorded in real time. Readings are taken at waist height (approximately 1 m from the surface), the sensor can capture values in a radius of up to 1 m^2. High CPS occur in the presence of gamma releasing minerals. Throughout the Rocha da Rocha Critical Mineral Province, BRE has observed a positive correlation between CPS and thorium and REE bearing monazite. BRE has determined that gamma spectrometry is an effective method for determining the presence of REE mineralisation that is material to this report

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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.*	To further develop the Monte Alto target and develop a hard-rock REE-Nb-Sc-U Mineral Resource, the Company will complete additional step-out and infill diamond and sonic core drilling to establish geological and grade continuity. Upcoming works aim to validate the historic drilling and assess whether or not the project may become economically feasible including metallurgical recovery, process flowsheet and optimisation. Further resource definition through additional drilling and sampling, geological mapping, and regional exploration through additional land acquisition are also planned. No forecast is made of such matters.