ASX ANNOUNCEMENT

9 May 2025

REVISED RELEASE - CHILWA CONFIRM SWARM OF CARBONATITES WITH SIGNIFICANT RARE EARTH ELEMENT MINERALISATION

Chilwa Minerals Limited (ASX: CHW) ("Chilwa" or the "Company") refers to the announcement under the above heading lodged with ASX on 1 May 2025. A revision of that announcement is attached, which includes additional information in relation to the visual observations of the rock chip and drill core samples reported in that announcement, including:

- the nature of the occurrence and minerals observed;
- estimate the abundances of the minerals observed;
- the anticipated timing for the release of assay results in respect of the minerals observed; and,
- clarification that the Competent Person's statement applies in relation to the soil and rock samples reported.

A cautionary statement in the usual form regarding the reliance on visual estimates has also been added.

-ENDS-

This Announcement has been authorised by the Company Secretary.

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CHILWA MINERALS

ASX ANNOUNCEMENT

9 May 2025

CHILWA CONFIRM SWARM OF CARBONATITES WITH SIGNIFICANT RARE EARTH ELEMENT MINERALISATION

KEY POINTS

- **Surface soil sampling and analysis of a further 19 anomalous targets have now been completed. One hundred and twenty-one (121) samples were analysed for low-level multi-element geochemistry. In addition, 24 rock-chip samples were tested using XRF for whole rock geochemistry and REE content.**
- **This is a follow-up on an initial batch of 101 soil samples collected from 11 targets announced on 13 January 2025. This now makes 30 targets tested out of a total of 47 rare earth element (REE) targets generated by detailed aeromagnetic and radiometric surveys conducted in mid-2024.**
- **It is now clear soil results can be described in two categories: Niobium plus light REE's, and Yttrium plus heavy REE's.**
- **Phase 1 and 2 sampling has successfully identified carbonatite/Rare Earth Element (REE) 'mineral system elements' including elevated REEs and important pathfinders Niobium (Nb), Barium (Ba), Neodymium (Nd), Samarium (Sm), Strontium (Sr), Zirconium (Zr) and Yttrium (Y).**
- **Well defined multi-element soil anomalies correlate closely with most geophysical target areas, demonstrating element zoning commonly reported above carbonatites and related to mineralisation, alteration and geology in the immediate vicinity of the project, as well as regionally and globally.**
- **Heavy REE (HREE) are considered 'critical' metals, of high economic importance. Mposa's soil results highlight geophysical targets also enriched in HREE, where the diamond drill rig is current drilling.**
- **The Company's focus remains on REE enriched, alkaline intrusion (carbonatite style targets) to evaluate and prioritise drilling targets.**
- **Chilwa has a twin, parallel strategy for the Chilwa Critical Minerals Project, with dedicated teams focused on both the mineral sands and rare earth element potential.**

OVERVIEW

Chilwa Minerals Limited (ASX: CHW) ("**Chilwa**" or "**the "Company**") is pleased to announce a further set of results from the field assessment of the rare earth element ("**REE**") anomalies generated in 2024. A further 19 anomalies identified in the airborne radiometric and magnetic geophysics study, carried out in the second half of 2024 are reported here. Anomalies were identified as Thorium, Potassium, magnetic and zoned intrusive targets for ground truthing (mapping, soil geochemistry and rock-chip sampling and potentially follow up diamond drilling.

Ionic soil results continue to reinforce anomalies highlighted by the geophysics program with 10 to 500 times background (TREO in this sample set) on sampling lines straddling anomalies. Mineral groupings and ratios

are being used to further analyse the data set, for comparison to similar local deposits, and international rare earth bearing carbonatite systems.

Chilwa Minerals' Managing Director, Cadell Buss, commented:

"The geochemistry from this additional 19 targets further complements the results of the first 11 targets (30 of 47 targets), confirming academic research and the Company's belief that a significant carbonatite system exists within the project area. A range of robust drilling targets have been identified throughout the licence area, particularly in the Mposa anomalous target, where the diamond rig is currently drilling. These results are expected in the next 4-6 weeks.

"Drill core retrieved by the diamond program has demonstrated carbonate veining near surface, further indicating a carbonatite and rare earth source for these soil and geophysical anomalies.

"We look forward to developing and reporting on the rare earths aspect of the license area, in a region with multiple exploration and near-term production rare earths projects, alongside our other key focus in mineral sands."

PROGRAM BACKGROUND

Chilwa Minerals launched its soil sampling program in November 2024 on licence EL0670-22, located at the western and northern shores of Lake Chilwa in Southern Malawi, after initial geophysical survey interpretations identified magnetic and radiometric anomalies potentially linked with REE carbonatite mineralisation. Results from sampling at eleven (11) geophysical anomaly zones were reported in January 2025, with a further 19 anomalies tested since that time. A number of anomalies in the south of the licence remain to be tested, with several in locations currently water-logged, and it is the Company's intention to complete the program in the next three to four.

Figure 1 Diamond core, weathered nepheline syenite at 87m with carbonate veining. See further commentary in Appendix 4.

Figure 2 Diamond drill rig in operation

Figure 3 Diamond core. Lithology is predominantly nepheline syenite with a pervasive carbonate veining from around 75m to end of hole at 122m (see Appendix 4).

Assay results are expected in around 4 – 6 weeks. Visual estimates of mineral abundance should never be considered a proxy or substitute for laboratory analyses where concentrations or grades are the factor of principal economic interest. Visual estimates also potentially provide no information regarding impurities or deleterious physical properties relevant to valuations..

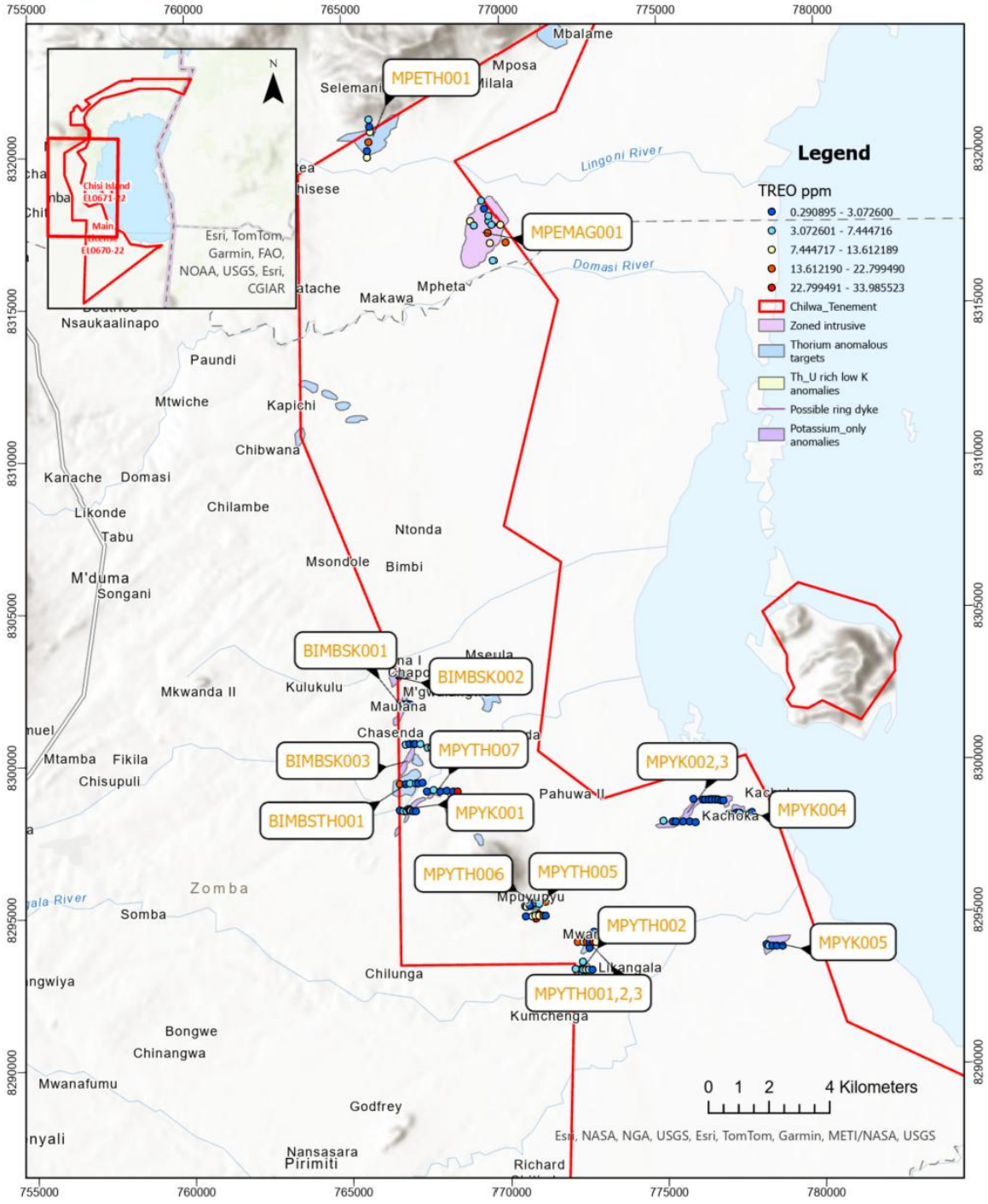

Figure 4: Anomalies tested in the current batch of soil samples.

Soil sampling activity entailed staking out anomaly area-sizes and shapes, and grid sampling at approximately 200m sample spacing across the anomalies. 30cm diameter holes were excavated using shovels down to

approximately 25cm depth, with basal material then scooped using hand trowels from the hole and sieved through -5mm size fraction and placed into sample bags with IDs and weighed with all weights recorded.

The analysis method used is the ALS ME-MS-23, with low detection limits allowing characterisation of background for greater confidence in subtle anomalies.

Results for REE elemental values were recorded in ppb units. Values are reported both in parts per billion (ppb) as well as parts per million (ppm) after being converted from elemental to stoichiometric oxide form.

The assay results recorded results for 61 elements including 15 of these belonging to the REE suite: Ce, Dy, Er, Eu, Gd, Ho, La, Lu, Nd, Pr, Sm, Tb, Tm, Y, Yb with Nb also included in the analysis.

Only these 15 REE elements have been considered in this report.

RESULTS

Each of the individual target areas soil sampling has continued to demonstrate:

- Highly anomalous element responses (plus 10 to >500 times background, for this dataset) for key 'mineral system elements' including REE's,
- The responses also occur as coincident, coherent discrete multi-element anomalies (element indices) along individual target lines,
- The multi-element indices are not always coincident, and show metal zoning within each target, and identify clear geochemical compositional variations between the targets.
- Compositional variations noted regionally and internationally have been found to reflect metal and REE mineralisation, alteration and specific geological settings associated with alkaline intrusive bodies, including carbonatites.
- The rare earth element data distinctly partition into Light (LREE), Medium (MREE) and Heavy (HREE) groups. The three REE groups reported are not always coincident and show distinct concentration variation across the target areas.

The preliminary review has identified the following element indices:

Table 1: Element Indices

Light REE	Medium REE	Heavy REE	Carbonatite	Alteration
La, Ce, Pr, Nd, Ge	Gd, Eu, Sm, Tb, Ge	Y, Dy, Er, Ho, Lu, Tm, Yb	Nb, Ge, Pr, Nd	Rb, Cs, Ti

Geology	Geology/Mineralisation	Geology	Geology/Alteration	Mineralisation
Zr, Hf	U, Th, Nb, Ta	Ti, Cr	Ca, Ba, Mg, Sr	Ag, Cu, Mo, W

Mineralisation	Mineralisation	Geology
Cu, Au	Zn, Cd	Zr, Hf, W

Importantly, Lake Chilwa, Kangankunde and Songwe carbonatites, all located in Malawi, are all atypical with respect to their elevated Heavy REE content.

The study has demonstrated that ultra-low-level detection of ionic species in surface soils can be measured through the licence area, identifying the geophysical targets at surface and geochemically mapping target areas.

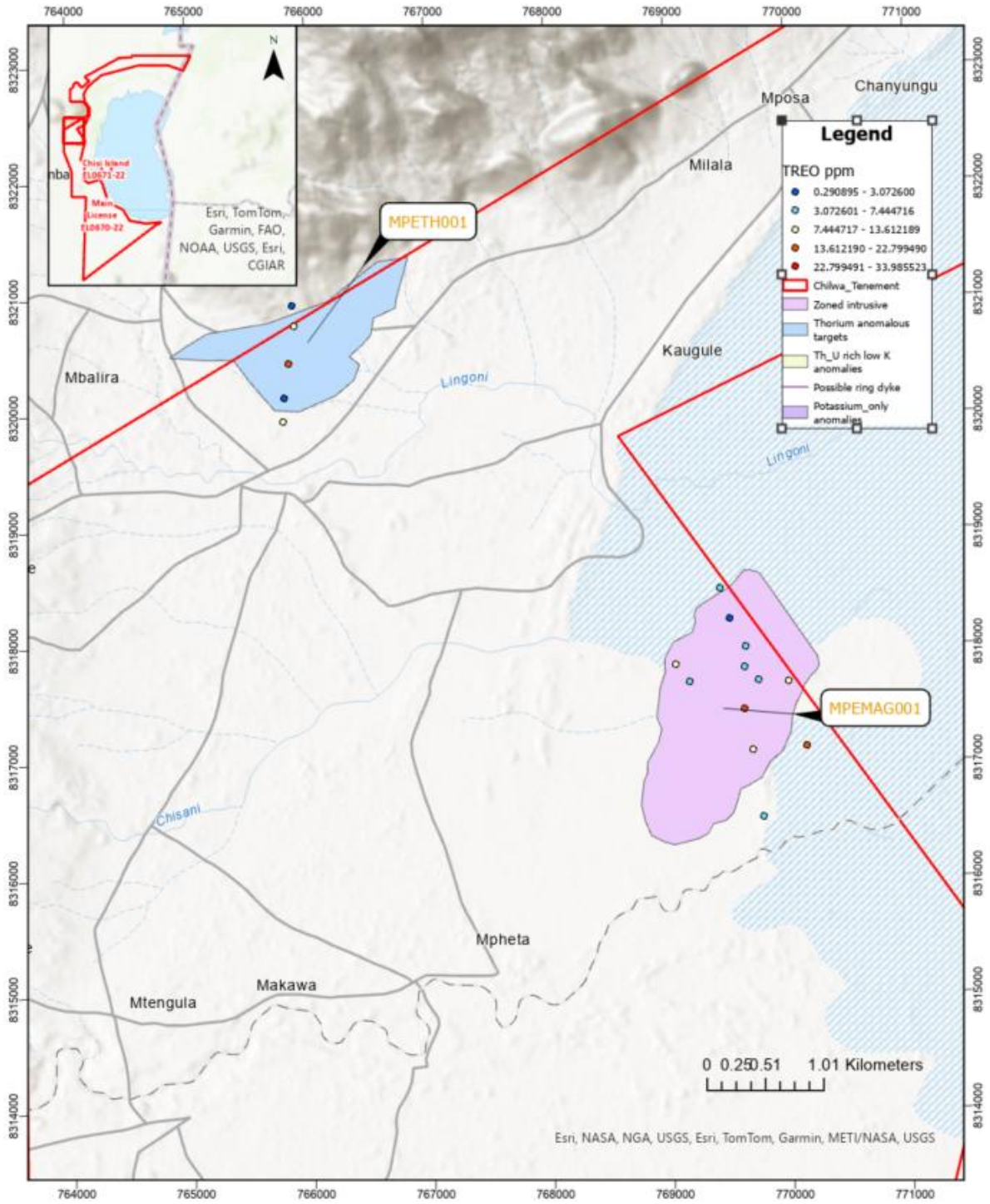

Figure 5: Mposa Magnetic anomaly and Mpheta Thorium anomaly REE soil results

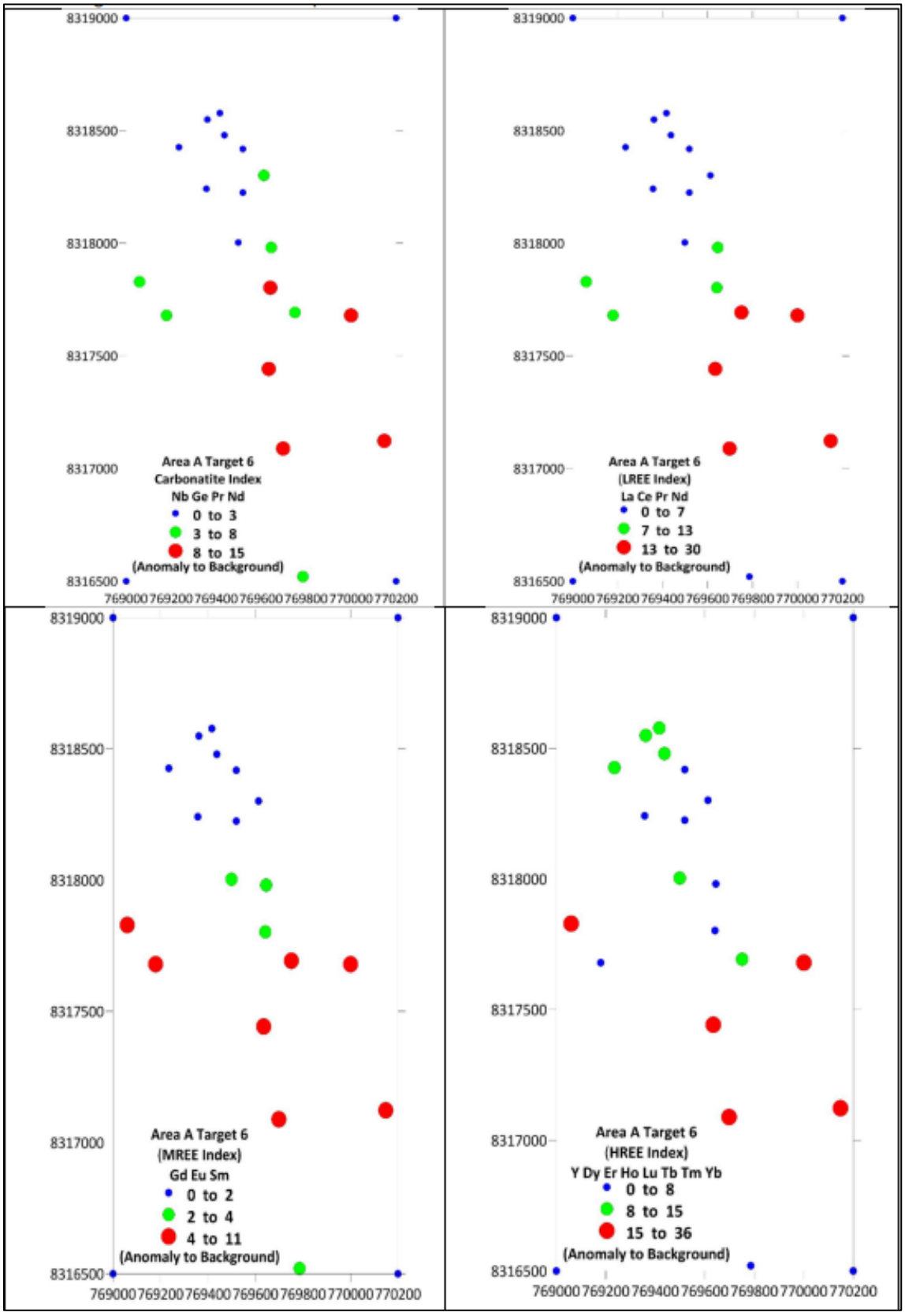

Figure 6 Anomaly to background analysis of the MPEMAG anomaly (Figure 2) by category or index; Carbonatite, LREE,MREE and HREE)

REE FOCUSSED DIAMOND DRILLING

Figure 3 below demonstrates the location of three diamond drillholes in progress at the Mposa anomaly (MPEMAG001 in Figure 2 above).

The Company's focus has been on the southern side of the anomaly, targeting magnetic highs and high contrast in interpreted magnetic structures within this zoned intrusive body. Initial geological interpretations have shown evidence of carbonate veining and a centimetre-scale carbonate stockwork in nepheline syenite. An update on REE-targeted diamond drilling will follow on receipt of assay results.

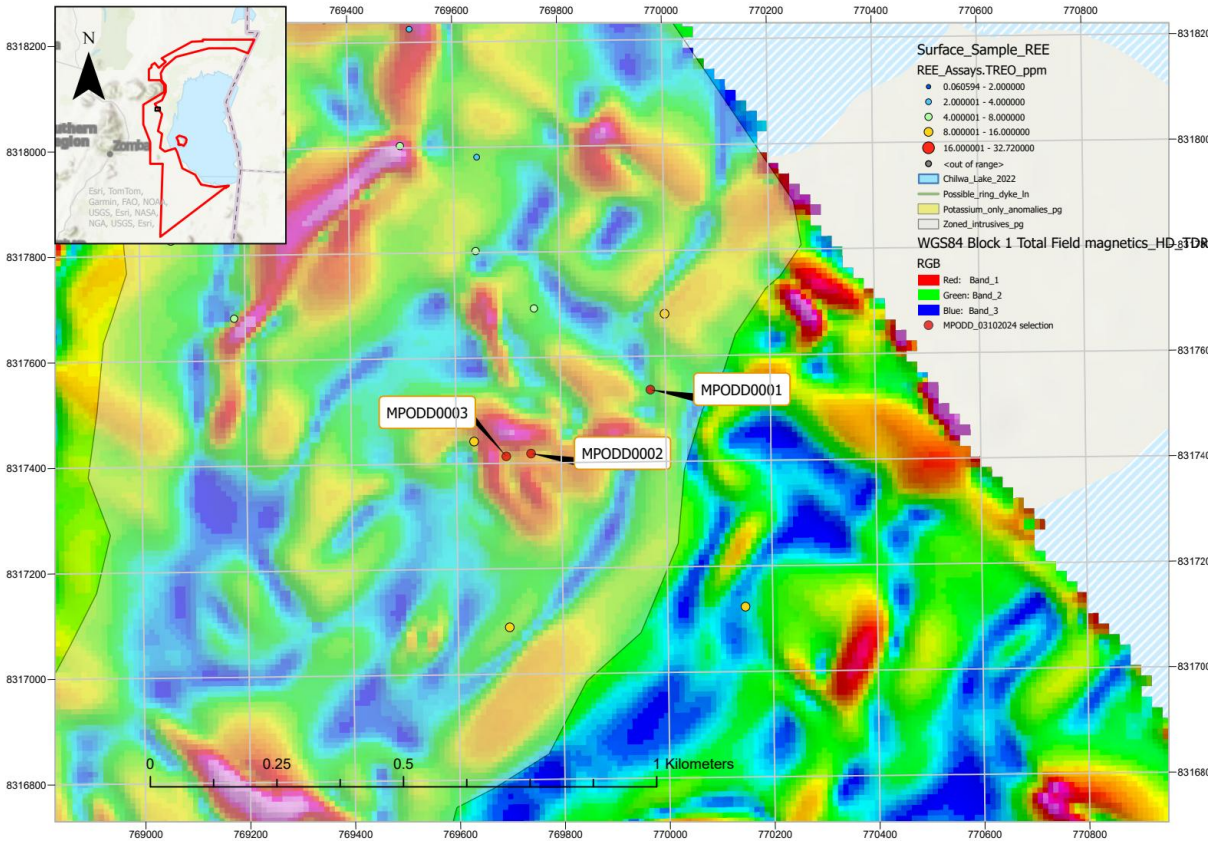

Figure 7: Mposa magnetic anomaly overlain by REE soil samples. Diamond drilling locations shown as MPODD001,2,3.

Figure 8: Mposa magnetic anomaly diamond drilling pad at MPOD003.

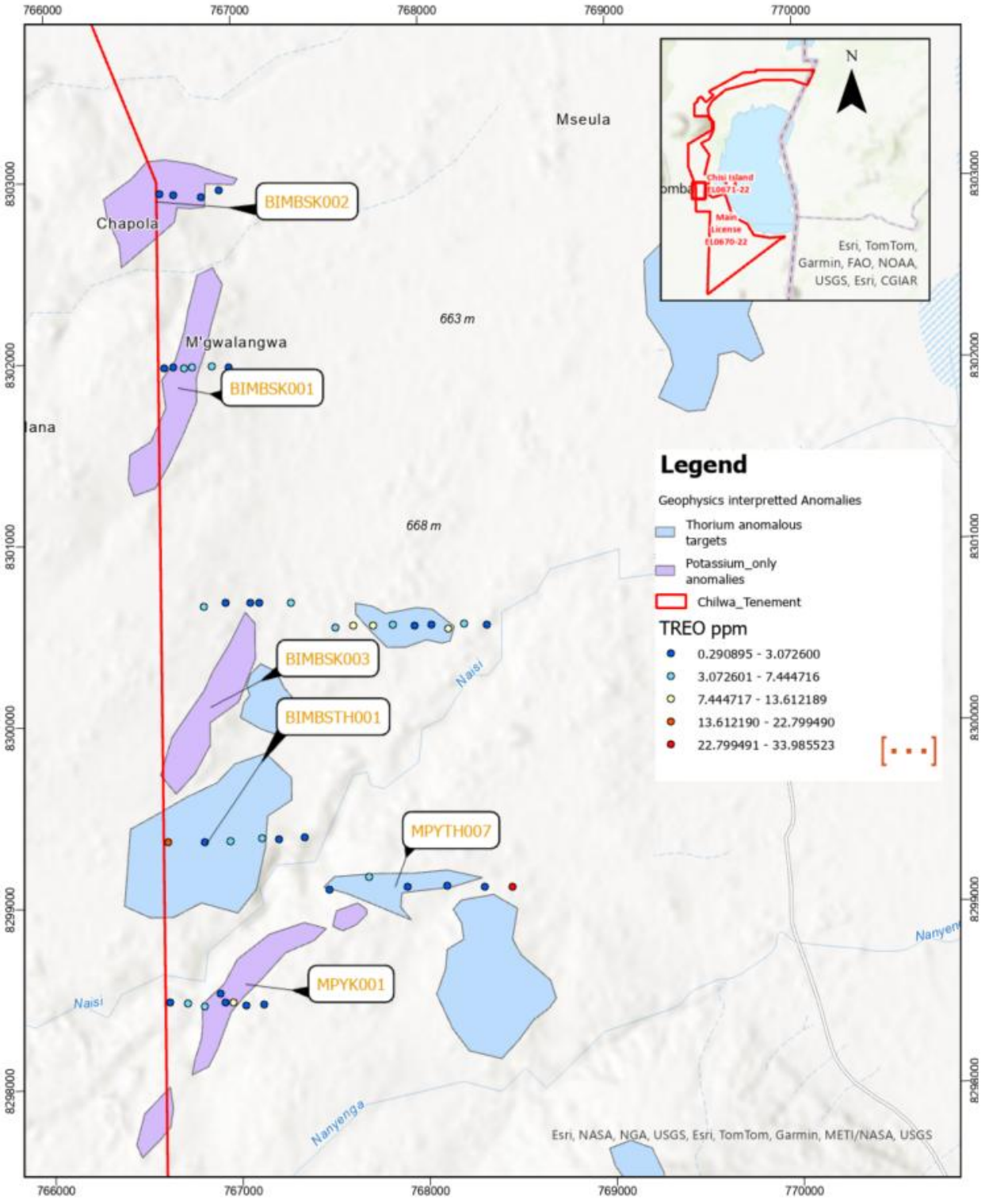

Figure 9: Bimbi South Potassium and Mpyupyu Thorium soil REE results

CHILWA CONFIRM SWARM OF CARBONATITES WITH SIGNIFICANT RARE EARTH ELEMENT MINERALISATION

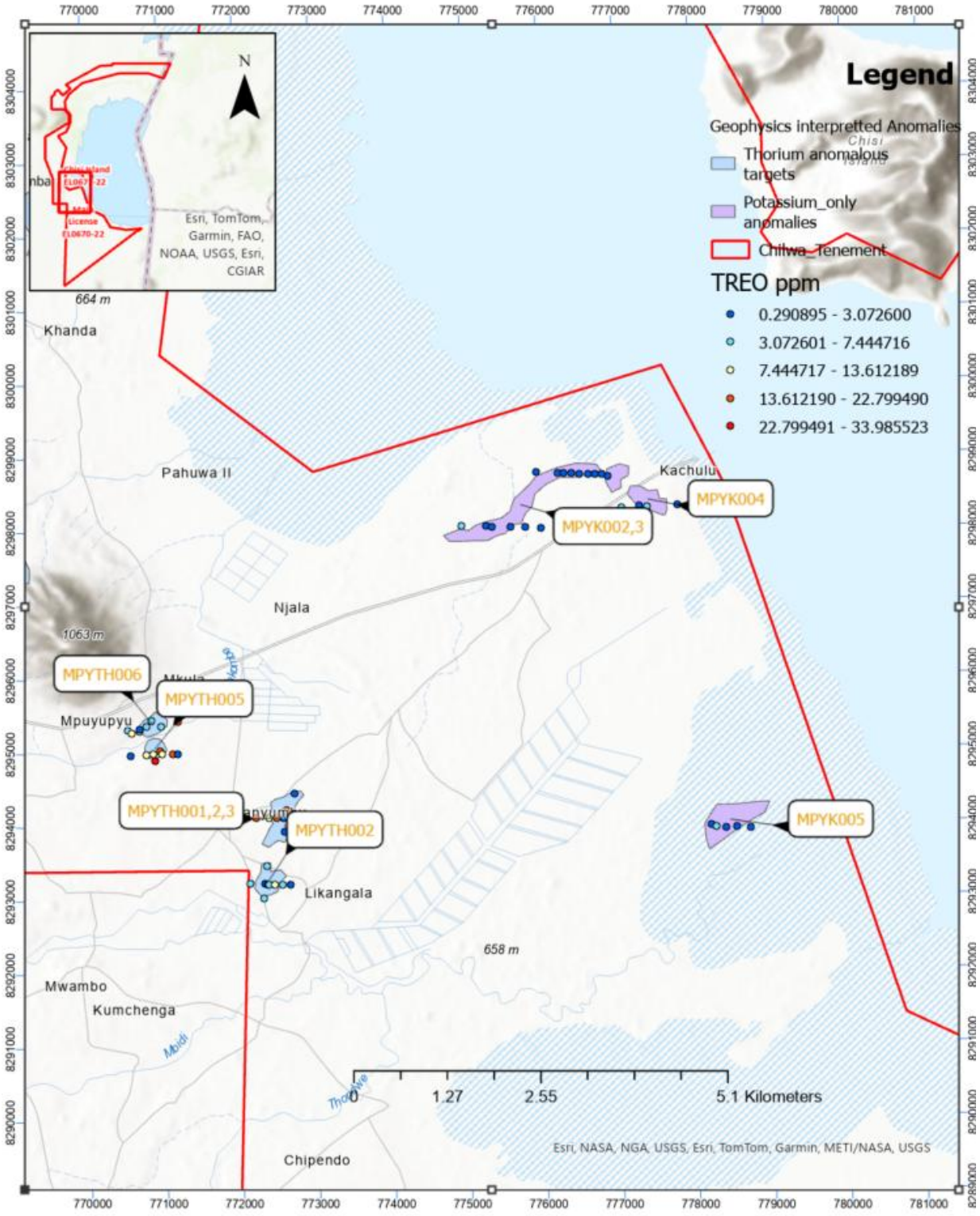

Figure 10: Mpyupyu Thorium and Potassium anomaly REE soil results

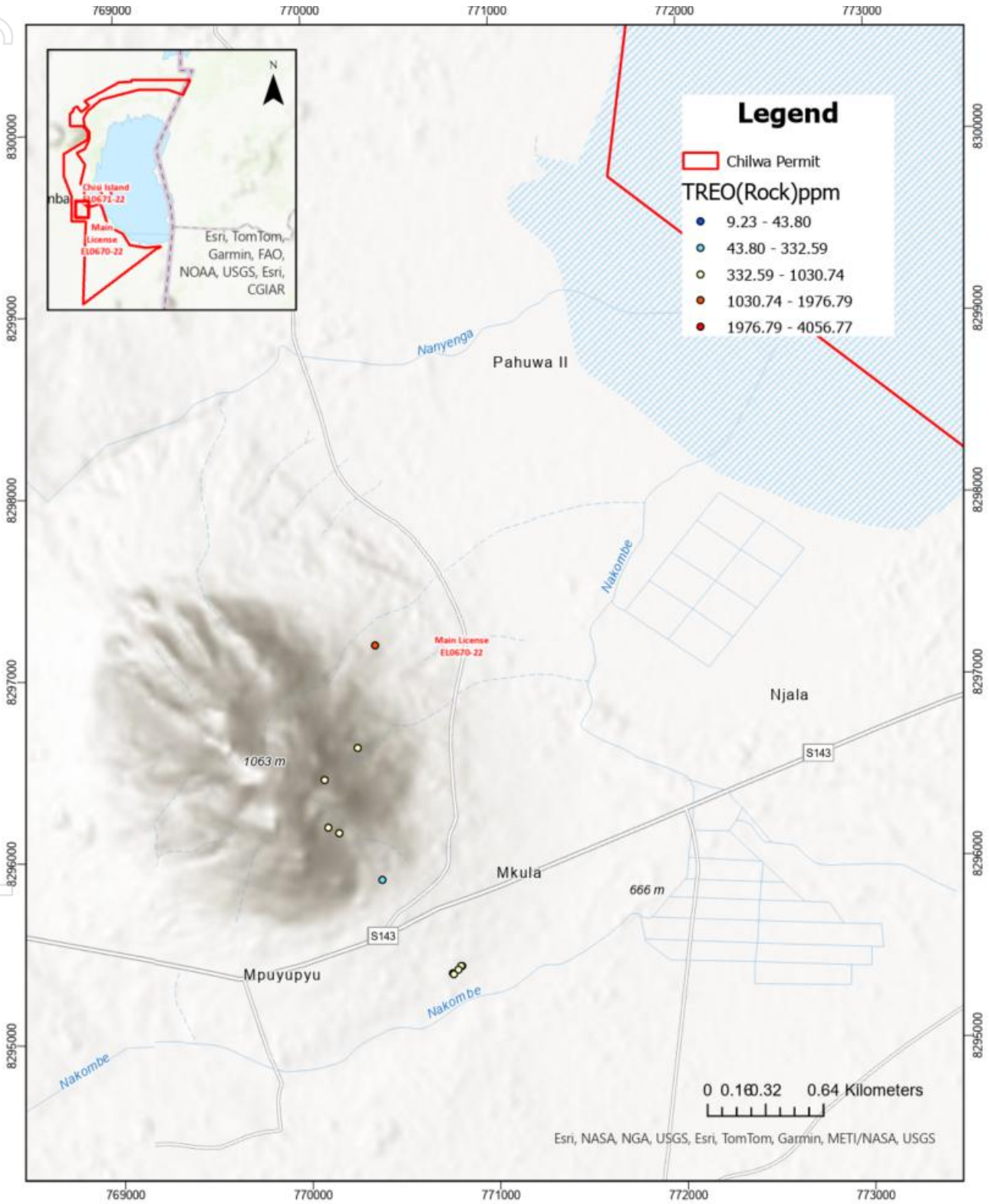

Figure 11: Results from rock-chip sampling Mpyupyu Area.

FURTHER WORK PROGRAMME

1. Targets with elevated Heavy REE soil geochemical responses are being prioritised for drilling.
2. Key element functions using available published litho-geochemistry data from within the Chilwa alkaline intrusive swarm to be developed to 'fingerprint' the element associations and mineralogy representing critical zoning controlling the distribution of REE in carbonatites, for application to the soils data, and future litho- geochemistry (rock) mapping.
3. The Company intends to sample and submit for assay the remaining 18 **priority REE targets** currently being assessed with soil sampling. Results for the remainder of the program are expected in H1 2025.
4. Diamond drilling of targets to continue and progress through all targets in the license area and with the company's own preparation lab now operational at the Zalewa site, turnaround time for results should be improved.

AUTHORISATION STATEMENT

This update has been authorised to be given to ASX by the Board of Chilwa Minerals Limited

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-ENDS-

Compliance Statement

The information in this announcement that relates to Mineral Resource estimates were prepared and first disclosed under JORC Code 2012. The information was extracted from the Company's previous ASX announcements Project Mineral Resource estimate: 3 July 2023 'Prospectus' (dated 5 April 2023).

The announcement is available to view on the Company's website https://www.chilwaminerals.com.au/. The Company confirms that it is not aware of any new information or data that materially affects the information included in the original announcements, and, in the case of reporting of Ore Reserves and Mineral Resources, that all material assumptions and technical parameters underpinning the estimates in the relevant market announcements continue to apply and have not materially changed. The Company confirms that the form and context in which any Competent Person's findings are presented have not been materially modified from the original market announcement.

Competent Person Statement

The information in this report that relates to the REE soil and rock-chip sampling exploration results is based on, and fairly represents, information and supporting documentation prepared by Mr Russell Birrell, who is a Fellow of the Geological Society of London and a Chartered Geologist. Mr Birrell is an employee of Globex Solutions Pty Ltd and has sufficient experience relevant to the style of mineralisation and type of deposit under consideration to qualify as a Competent Person as defined in the 2012 Edition of the 'Australasian Code for Reporting of Exploration Results, Mineral Resources and Ore Reserves'. Mr Birrell confirms there is no potential for a conflict of interest in acting as a Competent

Person and has provided his prior written consent to the inclusion in the report of the matters based on his information in the form and context in which it appears.

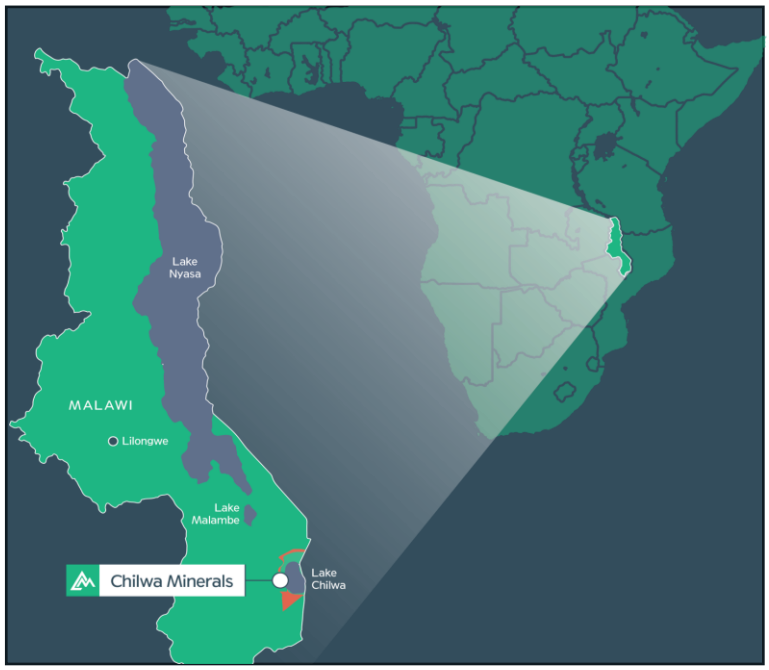
ABOUT CHILWA MINERALS

Chilwa Minerals Limited (ASX:CHW) is exploring the Lake Chilwa mineral system in southern Malawi.

The Lake Chilwa Critical Minerals Project hosts significant mineral sands mineralisation, with sonic drilling underway to expand and increase the quality of the existing mineral resources.

Since listing, drilling at Mposa has intersected thicker sequences with higher grades, with a high-quality assemblage of value minerals.

Rare earth mineralisation has also been identified within the clay profile, with a dedicated team recruited to assess the REE potential of the Project, which is located in an area of well-known carbonatite-hosted REE mineralisation.



References

1 - ***Rare earth mobility as a result of multiple phases of fluid activity in fenite around the Chilwa Island Carbonatite, Malawi***
Emma Dowman 1,2,3. **Frances Wall** 2,3. **Peter J. Treloar** 1 and **Andrew H Rankin** 1

1 Department of Geography and Geology, Kingston University, Kingston-upon-Thames, KT1 2EE, UK
2 Camborne School of Mines, University of Exeter, Penryn Campus, Penryn, TR10 9FE, UK
3 The Natural History Museum, Cromwell Road, London, SW7 5BD, UK

2 - ***REE minerals at the Songwe Hill carbonatite, Malawi: HREE-enrichment in late-stage apatite***
Sam Broom-Fendley 1,2. **Aoife E. Brady** 3. **Frances Wall** 1. **Gus Gunnb, William Dawes** 3.

1 Camborne School of Mines, University of Exeter, Penryn Campus, Penryn, Cornwall TR10 9FE, UK
2 British Geological Survey, Keyworth, Nottinghamshire NG12 5GG, UK
3 Mkango Resources Ltd., 706 27 Avenue NW, Calgary, Alberta, T2M 2J3, C

Appendix 1 - Individual sample REE oxide values in soils with TREO values recorded in ppb/ppm

Area	Anomaly Type	Anomaly Size(km)	Anomaly number	Anomaly name for press	Spacial Order	Sample ID	Location utmE	Location utmN	Location RL	Sample Type	Weight kg	Ce ppb	CeO_2 ppb	CeO_2 ppm	Dy ppb	Dy_2O_3	Dy_2O_3 ppm	Er ppb	Er_2O_3 ppb	Er_2O_3 ppm	Eu ppb	Eu_2O_3 ppb	Eu_2O_3 ppm	Gd ppb	Gd_2O_3 ppb	Gd_2O_3 ppm	Ho ppb	Ho_2O_3 ppb	Ho_2O_3 ppm	La ppb	La_2O_3 ppb	La_2O_3 ppm	Lu ppb	Lu_oxides ppb	Lu_2O_3 ppm	Nd ppb	Nd_2O_3 ppb	Nd_2O_3 ppm	Pr ppb	Pr_6O_{11} ppb	Pr_6O_{11} ppm	Sm ppb	Sm_2O_3 ppb	Sm_2O_3 ppm	Tb ppb	Tb_4O_7	Tb_4O_7 ppm	Tm ppb	Tm_2O_3	Tm_2O_3 ppm	Y ppb	Y_2O_3	Y_2O_3 ppm	Yb ppb	Yb_2O_3	Yb_2O_3 ppm	TREO ppm	Nb ppb
					1	BIMBSK009	766633	8301976	675.9	Original	0.2	58.2	71.49	0.1	103	118.2	0.12	53	60.4	0.1	21	24	0	132	151.6	0.15	20	23.4	0.02	46	54.1	0.05	5.47	6.21994	0	278	324	0.32	34.1	41.2	0.04	87	101	0.1	16	19	0	6.56	7.49	0.01	515	654	0.7	34	38.4	0.04	1.694	0.3
		East-West		BIMBSK001	2	BIMBSK010	766681	8301983	674.4	Original	0.2	344	422.6	0.4	156	178.5	0.18	77	87.9	0.1	33	38	0	198	227.6	0.23	31	35.2	0.04	98	115	0.12	7.48	8.50551	0	500	583	0.58	67	80.9	0.08	140	162	0.16	25	29	0	9.77	11.2	0.01	723	918.1	0.9	50	57	0.06	2.955	1
Bimbi	Potassium	1.2 x 0.15	1		3	BIMBSK011	766736	8301974	672.3	Original	0.2	428	525.8	0.5	193	221.5	0.22	91	104	0.1	41	48	0	253	291.6	0.29	36	41.5	0.04	152	178	0.18	8.31	9.4493	0	766	893	0.89	106.5	129	0.13	204	237	0.24	31	37	0	11.1	12.7	0.01	866	1100	1.1	56	64.1	0.06	3.891	0.8
					4	BIMBSK012	766782	8301979	670.2	Original	0.2	237	291.1	0.3	196	224.9	0.22	103	117	0.1	32	37	0	226	260.5	0.26	40	45.4	0.05	106	124	0.12	10.2	11.5984	0	505	589	0.59	67.5	81.6	0.08	156	181	0.18	30	35	0	13.3	15.1	0.02	947	1203	1.2	69	78	0.08	3.294	0.6
					5	BIMBSK013	766885	8301986	664.2	Original	0.2	412	506.1	0.5	242	277.7	0.28	134	153	0.2	42	48	0	266	306.6	0.31	49	56.2	0.06	162	189	0.19	13.6	15.4077	0	622	726	0.73	88.7	107	0.11	179	207	0.21	35	41	0	17.4	19.8	0.02	1240	1575	1.6	90	102	0.1	4.330	0.6
					6	BIMBSK014	766978	8301979	660.8	Original	0.2	221	271.5	0.3	105	120.5	0.12	47	53.3	0.1	25	28	0	140	160.8	0.16	20	22.8	0.02	85	99.1	0.1	4.37	4.96913	0	402	469	0.47	54	65.2	0.07	108	125	0.13	17	20	0	5.71	6.52	0.01	511	648.9	0.6	29	32.9	0.03	2.129	0.5
		East-West			7	BIMBSK015	766619	8302935	665.3	Original	0.2	73.6	90.41	0.1	171	195.7	0.2	88	101	0.1	25	28	0	183	210.3	0.21	35	39.6	0.04	44	51.1	0.05	8.01	9.10817	0	273	318	0.32	32.7	39.5	0.04	102	118	0.12	25	29	0	10.8	12.3	0.01	823	1045	1	54	61.7	0.06	2.350	0.2
Bimbi	Potassium	0.7 x 0.45	2	BIMBSK002	8	BIMBSK016	766690	8302931	662.2	Original	0.2	25.5	31.32	0	92.6	106.3	0.11	52	59.6	0.1	14	17	0	104	119.3	0.12	19	21.5	0.02	31	36.5	0.04	6.88	7.82325	0	152	177	0.18	19.8	23.9	0.02	57	65.5	0.07	14	16	0	7.02	8.02	0.01	474	601.9	0.6	40	45.7	0.05	1.337	0.1
					9	BIMBSK017	766837	8302919	653.0	Original	0.2	31.1	38.2	0	117	133.7	0.13	47	53.6	0.1	25	28	0	163	187.9	0.19	21	23.8	0.02	29	34.2	0.03	4.06	4.61663	0	231	269	0.27	24.9	30.1	0.03	103	119	0.12	20	23	0	5.34	6.1	0.01	610	774.6	0.8	27	30.9	0.03	1.759	0
					10	BIMBSK018	766933	8302953	653.5	Original	0.2	72.7	89.3	0.1	139	159	0.16	64	73	0.1	27	31	0	165	189.6	0.19	26	29.6	0.03	35	41.3	0.04	6.43	7.31155	0	228	266	0.27	25.8	31.2	0.03	101	117	0.12	22	26	0	7.78	8.89	0.01	660	838.1	0.8	41	46.2	0.05	1.953	0.2
					11	BIMBSK019	766826	8300660	674.1	Original	0.2	215	264.1	0.3	267	306.4	0.31	163	186	0.2	51	59	0.1	265	305.4	0.31	58	66.2	0.07	117	137	0.14	20.6	23.4243	0	506	590	0.59	70.1	84.7	0.08	166	192	0.19	37	44	0	22.4	25.6	0.03	1375	1746	1.7	127	144	0.14	4.174	0.6
		East-West			12	BIMBSK020	766945	8300682	668.6	Original	0.2	153	187.9	0.2	153	175.6	0.18	78	89.1	0.1	29	34	0	169	194.2	0.19	30	34.8	0.03	71	83.2	0.08	8.21	9.33559	0	282	329	0.33	37.1	44.8	0.04	99	114	0.11	23	27	0	9.55	10.9	0.01	720	914.3	0.9	51	57.8	0.06	2.306	0.2
Bimbi	Potassium		3	BIMBSK003	13	BIMBSK021	767078	8300679	661.4	Original	0.2	34.9	42.87	0	47.8	54.86	0.05	19	22.1	0	14	16	0	65.4	75.38	0.08	8.4	9.63	0.01	34	39.9	0.04	1.93	2.1946	0	165	192	0.19	21.2	25.6	0.03	52	59.8	0.06	7.7	9.1	0	2.27	2.59	0	218	276.8	0.3	12	13.2	0.01	0.842	0.2
					14	BIMBSK022	767122	8300680	659.5	Original	0.2	62	76.16	0.1	110	125.7	0.13	55	63	0.1	22	25	0	121	138.9	0.14	22	24.7	0.02	44	51	0.05	5.73	6.51558	0	193	225	0.22	24.3	29.4	0.03	69	79.9	0.08	17	19	0	6.8	7.77	0.01	551	699.7	0.7	37	41.8	0.04	1.614	0.2
					15	BIMBSK023	767293	8300678	655.9	Original	0.2	216	265.3	0.3	227	260.5	0.26	106	121	0.1	62	72	0.1	274	315.8	0.32	43	48.8	0.05	193	226	0.23	10.6	11.9964	0	952	1110	1.11	138	167	0.17	233	270	0.27	35	41	0	13.2	15.1	0.02	1040	1321	1.3	69	79	0.08	4.324	0.7
					16	BIMBSTH011	766622	8299367	674.9	Original	0.2	3470	4263	4.3	644	739.1	0.74	297	340	0.3	212	245	0.2	771	888.7	0.89	118	135	0.14	####	1900	1.9	33.5	38.0929	0	4590	5354	5.35	853	1031	1.03	830	962	0.96	101	118	0.1	40.2	45.9	0.05	2810	3568	3.6	217	247	0.25	19.875	8.5
		East-West			17	BIMBSTH012	766818	8299364	673.2	Original	0.2	18.5	22.73	0	29.4	33.74	0.03	11	12.9	0	13	15	0	54.2	62.47	0.06	5.2	5.98	0.01	32	38	0.04	1.02	1.15984	0	134	156	0.16	17.1	20.7	0.02	41	47.8	0.05	5.5	6.4	0	1.27	1.44	0	156	197.5	0.2	6.3	7.21	0.01	0.629	0.3
Bimbi	Thorium	0.73 x 0.7	4	BIMBSTH001	18	BIMBSTH013	766957	8299371	669.4	Original	0.2	740	909	0.9	185	211.8	0.21	79	90.3	0.1	63	73	0.1	262	302	0.3	33	37.9	0.04	337	395	0.4	9.14	10.3931	0	1055	1231	1.23	166.5	201	0.2	236	274	0.27	30	35	0	9.97	11.4	0.01	738	937.2	0.9	53	60.2	0.06	4.779	0.6
					19	BIMBSTH014	767126	8299385	664.6	Original	0.2	534	656	0.7	242	277.7	0.28	122	139	0.1	46	53	0.1	277	319.3	0.32	47	54.1	0.05	241	283	0.28	12	13.6452	0	739	862	0.86	113.5	137	0.14	203	235	0.24	36	42	0	15.2	17.4	0.02	1185	1505	1.5	78	89.3	0.09	4.683	0.2
					20	BIMBSTH015	767214	8299375	663.0	Original	0.2	445	546.6	0.5	122	140	0.14	56	64.4	0.1	21	25	0	145	167.1	0.17	23	26.2	0.03	151	177	0.18	5.08	5.77647	0	487	568	0.57	77.4	93.5	0.09	119	137	0.14	19	22	0	7.32	8.36	0.01	501	636.2	0.6	37	41.7	0.04	2.659	0.3
					21	BIMBSTH016	767355	8299387	657.5	Original	0.2	106	130.2	0.1	89.9	103.2	0.1	43	48.7	0	13	16	0	99.5	114.7	0.11	17	19.8	0.02	58	67.8	0.07	3.76	4.2755	0	214	250	0.25	31.4	37.9	0.04	65	75	0.08	14	16	0	5.18	5.92	0.01	423	537.2	0.5	26	29.7	0.03	1.455	0.3
					22	BIMBSTH019	767530	8300540	652.8	original	0.2	362	444.7	0.4	217	249.1	0.25	112	128	0.1	53	61	0.1	251	289.3	0.29	42	48.6	0.05	207	243	0.24	11.8	13.3609	0	720	840	0.84	107	129	0.13	189	219	0.22	32	38	0	14.2	16.2	0.02	1015	1289	1.3	77	87.3	0.09	4.095	0.8
		East-West			23	BIMBSTH020	767627	8300552	651.6	original	0.2	1085	1333	1.3	367	421.2	0.42	182	208	0.2	107	123	0.1	417	480.6	0.48	70	80.1	0.08	640	751	0.75	19.4	22.0029	0	1815	2117	2.12	318	384	0.38	378	438	0.44	56	66	0.1	24.7	28.2	0.03	1780	2260	2.3	131	149	0.15	8.862	6.7
					24	BIMBSTH021	767730	8300550	650.6	original	0.2	932	1145	1.1	361	414.3	0.41	173	197	0.2	113	131	0.1	422	486.4	0.49	69	78.5	0.08	591	693	0.69	17.7	20.1267	0	1870	2181	2.18	311	376	0.38	392	455	0.45	56	66	0.1	23.4	26.7	0.03	1720	2184	2.2	122	138	0.14	8.592	6.2
Bimbi	Thorium	0.53 x 0.2	5		25	BIMBSTH022	767839	8300554	649.1	original	0.2	704	864.8	0.9	188	215.2	0.22	85	97.2	0.1	63	72	0.1	223	257	0.26	34	39.3	0.04	343	402	0.4	7.94	9.02857	0	1060	1236	1.24	183	221	0.22	215	249	0.25	29	34	0	11.4	13	0.01	847	1076	1.1	58	65.8	0.07	4.853	5.4
				BIMBSTH002	26	BIMBSTH023	767952	8300544	648.0	original	0.2	70.5	86.6	0.1	122	139.4	0.14	56	64.2	0.1	39	45	0	163	187.3	0.19	23	26.5	0.03	86	101	0.1	4.89	5.56042	0	401	468	0.47	52.8	63.8	0.06	122	141	0.14	20	23	0	6.66	7.61	0.01	579	735.3	0.7	33	37.2	0.04	2.131	0.9
					27	BIMBSTH024	768041	8300549	647.0	original	0.2	34.5	42.38	0	22.1	25.36	0.03	9.7	11.1	0	7.8	9	0	33.9	39.07	0.04	4.2	4.77	0	22	25.7	0.03	0.9	1.02794	0	88.6	103	0.1	11.6	14	0.01	25	28.9	0.03	3.8	4.4	0	1.14	1.3	0	126	159.4	0.2	5.8	6.58	0.01	0.476	0.5
					28	BIMBSTH025	768133	8300529	644.1	original	0.2	546	670.7	0.7	699	802.2	0.8	456	521	0.5	95	110	0.1	529	609.7	0.61	160	183	0.18	211	247	0.25	51.2	58.2195	0.1	925	1079	1.08	128.5	155	0.16	298	346	0.35	87	102	0.1	63.1	72.1	0.07	3960	5029	5	340	387	0.39	10.373	0.1
					29	BIMBSTH026	768216	8300556	643.6	original	0.2	1110	1364	1.4	296	339.7	0.34	162	185	0.2	63	73	0.1	317	365.4	0.37	60	69.1	0.07	496	582	0.58	18.2	20.6952	0	956	1115	1.12	171.5	207	0.21	224	260	0.26	43	51	0.1	22.1	25.2	0.03	1555	1975	2	120	136	0.14	6.767	0.5
					30	BIMBSTH027	768339	8300545	641.1	original	0.2	83.6	102.7	0.1	217	249.1	0.25	147	168	0.2	32	37	0	184	211.5	0.21	49	56.2	0.06	72	84.3	0.08	20.7	23.538	0	305	356	0.36	41.3	49.9	0.05	101	117	0.12	27	32	0	20.4	23.3	0.02	1015	1289	1.3	121	138	0.14	2.936	0.1
					31	BIMBSTH028	768339	8300545	641.1	duplicate	0.2	85.2	104.7	0.1	221	253.6	0.25	146	166	0.2	33	38	0	186	214.4	0.21	50	57.6	0.06	71	83.3	0.08	21.4	24.3339	0	303	353	0.35	40.5	48.9	0.05	104	120	0.12	28	33	0	21.1	24.1	0.02	1030	1308	1.3	124	141	0.14	2.971	0.1
					32	MPEMAG008	769641	8317803	628.7	original	0.2	721	885.7	0.9	189	216.3	0.22	110	126	0.1	42	48	0	188	216.1	0.22	39	44.8	0.04	357	419	0.42	16.5	18.7053	0	612	714	0.71	114.5	138	0.14	142	164	0.16	26	31	0	16.2	18.4	0.02	784	995.6	1	98	111	0.11	4.147	1.3
					33	MPEMAG009	769060	8317829	629.9	original	0.2	785	964.3	1	810	929.6	0.93	756	864	0.9	73	85	0.1	321	370	0.37	220	252	0.25	199	233	0.23	115	130.767	0.1	812	947	0.95	132	159	0.16	206	239	0.24	74	87	0.1	122	139	0.14	4650	5905	5.9	732	834	0.83	12.139	0.3
		Random			34	MPEMAG010	770148	8317123	628.9	original	0.2	1225	1505	1.5	908	1042	1.04	674	771	0.8	73	84	0.1	508	585.5	0.59	225	258	0.26	424	497	0.5	84.8	96.4261	0.1	1325	1545	1.55	220	266	0.27	333	386	0.39	99	117	0.1	95.9	110	0.11	5330	6769	6.8	531	605	0.6	14.635	0.3
					35	MPEMAG011	770000	8317680	628.5	original	0.2	1120	1376	1.4	727	834.4	0.83	525	600	0.6	65	75	0.1	534	615.5	0.62	176	202	0.2	422	495	0.49	53.9	61.2897	0.1	1200	1400	1.4	238	288	0.29	335	388	0.39	83	97	0.1	57.6	65.8	0.07	3990	5067	5.1	393	448	0.45	12.012	0.1
Mposa	Magnetic		6		36	MPEMAG012	769179	8317680	629.6	original	0.2	339	416.4	0.4	204	234.1	0.23	88	100	0.1	50	58	0.1	355	409.2	0.41	38	43.1	0.04	227	266	0.27	6.97	7.92559	0	734	856	0.86	123	149	0.15	259	300	0.3	35	41	0	7.97	9.1	0.01	1010	1283	1.3	49	55.7	0.06	4.228	0.3
		2.2 x 1.1		MPEMAG001	37	MPEMAG013	769751	8317693	629.1	original	0.2	943	1158	1.2	361	414.3	0.41	216	247	0.2	51	59	0.1	389	448.4	0.45	80	91.5	0.09	408	479	0.48	19.4	22.0029	0	834	973	0.97	167.5	202	0.2	250	290	0.29	50	58	0.1	21.9	25	0.03	1710	2172	2.2	139	158	0.16	6.797	0.2
					38	MPEMAG014	769786	8316520	632.0	original	0.2	78.8	96.8	0.1	273	313.3	0.31	153	175	0.2	33	38	0	266	306.6	0.31	58	66.7	0.07	131	154	0.15	11.7	13.3041	0	394	460	0.46	69.6	84.1	0.08	146	169	0.17	36	42	0	15	17.1	0.02	1395	1772	1.8	92	105	0.11	3.812	0.2
					39	MPEMAG015	769698	8317089	629.8	original	0.2	983	1208	1.2	831	953.7	0.95	527	603	0.6	81	94	0.1	667	768.8	0.77	190	217	0.22	417	489	0.49	43.2	49.1227	0	1215	1417	1.42	229	277	0.28	394	457	0.46	99	117	0.1	52.7	60.2	0.06	4100	5207	5.2	338	385	0.38	12.301	0.2
					40	MPEMAG016	769634	8317442	628.5	original	0.2	1680	2064	2.1	897	1029	1.03	587	671	0.7	118	136	0.1	767	884	0.88	204	234	0.23	693	813	0.81	56.4	64.1324	0.1	1665	1942	1.94	330	399	0.4	514	596	0.6	110	129	0.1	63.5	72.5	0.07	4020	5105	5.1	419	477	0.48	14.615	0.2
					41	MPEMAG017	769645	8317981	628.9	original	0.2	460	565.1	0.6	207	237.6	0.24	152	174	0.2	33	38	0	158	182.1	0.18	49	55.8	0.06	183	214	0.21	17.8	20.2404	0	392	457	0.46	83.2	101	0.1	112	129	0.13	24	28	0	17.7	20.2	0.02	1025	1302	1.3	129	146	0.15	3.670	0.5
					42	MPEMAG018	769519	8318225	629.4	original	0.2	200	245.7	0.2	198	227.2	0.23	162	185	0.2	16	19	0	79.8	91.98	0.09	51	58.5	0.06	57	67	0.07	18	20.4109	0	184	215	0.21	39.9	48.2	0.05	52	59.7	0.06	18	22	0	19.2	21.9	0.02	1130	1435	1.4	137	156	0.16	2.872	0.2
					43	MPEMAG019	769437	8318480	629.7	original	0.2	93.5	114.9	0.1	270	309.9	0.31	271	310	0.3	13	16	0	71.4	82.3	0.08	77	88.5	0.09	21	24	0.02	32.2	36.6146	0	102	118	0.12	18.75	22.7	0.02	36	41.6	0.04	21	24	0	33.5	38.3	0.04	1485	1886	1.9	243	277	0.28	3.389	0.1
					44	MPEMAG026	765804	8319954	644.3	original	0.2	91.2	112	0.1	837	960.6	0.96	734	839	0.8	100	116	0.1	463	533.7	0.53	221	253	0.25	235	276	0.28	78.7	89.4898	0.1	920	1073	1.07	171.5	207	0.21	289	335	0.34	85	100	0.1	86.7	99	0.1	4430	5626	5.6	604	688	0.69	11.307	0.3
		North South			45	MPEMAG021	765807	8320153	645.4	original	0.2	127	156	0.2	148	169.3	0.17	72	82	0.1	55	64	0.1	233	268.6	0.27	29	33.2	0.03	113	132	0.13	6.87	7.81188	0	453	528	0.53	73.9	89.3	0.09	156	180	0.18	24	29	0	7.1	8.11	0.01	692	878.8	0.9	47	52.9	0.05	2.679	0.2
	Thorium	1.6 x 0.7	7	MPETH001	46	MPEMAG022	765853	8320457	646.7	original	0.2	2690	3304	3.3	764	876.8	0.88	523	598	0.6	220	255	0.3	860	991.2	0.99	172	197	0.2	####	1513	1.51	61.8	70.2728	0.1	2840	3313	3.31	620	749	0.75	714	828	0.83	103	121	0.1	62.2	71	0.07	4040	5130	5.1	447	509	0.51	18.526	1.2
					47	MPEMAG023	765902	8320772	658.1	original	0.2	202	248.1	0.2	603	692.1	0.69	450	515	0.5	86	100	0.1	373	429.9	0.43	146	167	0.17	193	226	0.23	49.6	56.4002	0.1	809	944	0.94	153	185	0.18	247	286	0.29	66	77	0.1	53.4	61	0.06	3390	4305	4.3	371	422	0.42	8.714	0.5
					48	MPEMAG024	765886	8320954	656.7	original	0.2	88	108.1	0.1	127	145.2	0.15	90	103	0.1	27	31	0	114	130.8	0.13	29	33.3	0.03	55	64.5	0.06	9.49	10.7911	0	195	227	0.23	34.4	41.6	0.04	73	84.1	0.08	16	19	0	10.2	11.6	0.01	668	848.3	0.8	72	81.8	0.08	1.940	0.6
					49	MPEMAG025	765876	8321185	656.3	original	0.2	124	151.7	0.2	397	455.6	0.46	291	333	0.3	69	79	0.1	298	343.5	0.34	95	109	0.11	185	217	0.22	29.5	33.5445	0	588	686	0.69	112.5	136	0.14	195	226	0.23	46	54	0.1	32.7	37.3	0.04	2280	2895	2.9	223	254	0.25	6.011	0.5
					50	MPYK001	766621	8298486	666.1	Original	0.2	76.1	93.48	0.1	106	121.7	0.12	58	66.4	0.1	22	25	0	138	158.5	0.16	22	25.2	0.03	47	54.5	0.05	5.15	5.85607	0	208	243	0.24	32.6	39.4	0.04	79	91.8	0.09	16	18	0	5.59	6.38	0.01	472	599.4	0.6	37	42	0.04	1.591	0.1
		East-West			51	MPYK002	766718	8298480	664.4	Original	0.2	604	742	0.7	392	449.9	0.45	232	265	0.3	69	80	0.1	421	485.2	0.49	85	97.1	0.1	220	258	0.26	19	21.548	0	815	951	0.95	145.5	176	0.18	276	320	0.32	53	62	0.1	23.3	26.6	0.03	1755	2229	2.2	147	167	0.17	6.330	0.1
Mpyupyu	Potassium	1.7 x 0.19			52	MPYK003	766810	8298459	661.7	Original	0.2	397	487.7	0.5	385	441.9	0.44	211	241	0.2	45	53	0.1	396	456.4	0.46	80	91.6	0.09	203	238	0.24	15.3	17.3408	0	743	867	0.87	133	161	0.16	258	299	0.3	53	62	0.1	21	24	0.02	1620	2057	2.1	129	146	0.15	5.643	0.2
					53	MPYK004	766895	8298533	670.9	Original	0.2	12.9	15.85	0	77	88.37	0.09	33	38.2	0	13	15	0	106	121.6	0.12	15	17.3	0.02	26	30.6	0.03	1.97	2.2344	0	145	169	0.17	19.8	23.9	0.02	62	71.9	0.07	12	14	0	2.87	3.28	0	339	430.5	0.4	16	18.7	0.02	1.060	0
			8	MPYK001	54	MPYK005	766917	8298481	672.0	Original	0.2	63.7	78.25	0.1	79.5	91.24	0.09	42	47.9	0	13	15	0	88.4	101.9	0.1	17	18.9	0.02	28	32.5	0.03	2.91	3.30896	0	124	144	0.14	20	24.2	0.02	51	59.1	0.06	11	13	0	3.97	4.53	0	366	464.8	0.5	24	27.4	0.03	1.126	0.2
					55	MPYK006	766964	8298480	673.7	Original	0.2	2150	2641	2.6	637	731.1	0.73	354	405	0.4	127	146	0.1	695	801.1	0.8	129	147	0.15	561	658	0.66	30.9	35.1364	0	1985	2315	2.32	377	455	0.46	551	639	0.64	90	106	0.1	37.7	43.1	0.04	2460	3124	3.1	254	289	0.29	12.537	5.5
					56	MPYK007	767028	8298467	675.0	Original	0.2	8.72	10.71	0	34.1	39.14	0.04	16	17.9	0	5.9	6.8	0	42.4	48.87	0.05	6.5	7.48	0.01	7.6	8.89	0.01	0.94	1.07229	0	41.1	47.9	0.05	5.65	6.83	0.01	20	23.7	0.02	4.9	5.7	0	1.28	1.46	0	139	175.9	0.2	7.4	8.47	0.01	0.411	0
					57	MPYK008	767127	8298471	675.2	Original	0.2	232	285	0.3	177	202.6	0.2	97	110	0.1	49	57	0.1	244	281.2	0.28	37	42.3	0.04	102	120	0.12	9.37	10.6546	0	443	517	0.52	68.5	82.8	0.08	163	189	0.19	27	32	0	9.88	11.3	0.01	793	1007	1	64	72.8	0.07	3.020	0.1
					58	MPYK009	767127	8298471	675.2	Duplicate	0.2	214	262.9	0.3	108	124	0.12	63	72.4	0.1	23	27	0	122	140	0.14	23	26.7	0.03	97	114	0.11	5.82	6.61792	0	243	283	0.28	43.9	53	0.05	79	92.1	0.09	15	17	0	6.49	7.41	0.01	396	502.9	0.5	43	48.4	0.05	1.777	0.2
					59	MPYK048	774953	8298050	626.6	original	0.2	300	368.5	0.4	147	168.1	0.17	75	85.6	0.1	53	62	0.1	213	245.5	0.25	32	36.4	0.04	131	153	0.15	8.6	9.77906	0	525	612	0.61	77.2	93.3	0.09	159	184	0.18	26	31	0	10.2	11.6	0.01	935	1187	1.2	54	60.9	0.06	3.309	0
		East-West			60	MPYK010	775264	8298036	626.7	original	0.2	6.22	7.641	0	159	182.5	0.18	61	69.4	0.1	50	58	0.1	259	298.5	0.3	28	32.4	0.03	66	77.5	0.08	3.52	4.00259	0	373	435	0.44	50	60.4	0.06	164	190	0.19	27	32	0	4.85	5.54	0.01	636	807.7	0.8	27	30.4	0.03	2.290	0.1
Mpyupyu	Potassium	2.4 x 0.23	9		61	MPYK011	775347	8298028	626.6	original	0.2	215	264.1	0.3	121	138.9	0.14	53	60.4	0.1	36	42	0	182	209.8	0.21	23	26	0.03	84	98.3	0.1	3.59	4.08219	0	406	474	0.47	62.4	75.4	0.08	139	161	0.16	20	23	0	4.87	5.56	0.01	512	650.2	0.7	29	32.7	0.03	2.265	0.1
				MPYK002	62	MPYK012	775596	8298024	626.7	original	0.2	229	281.3	0.3	80.6	92.5	0.09	37	42.8	0	23	26	0	112	128.5	0.13	15	17.6	0.02	94	110	0.11	2.77	3.14977	0	274	320	0.32	48.6	58.7	0.06	88	102	0.1	13	15	0	3.6	4.11	0	350	444.5	0.4	21	24.4	0.02	1.671	0.5
					63	MPYK013	775788	8298016	627.1	original	0.2	539	662.1	0.7	93.7	107.5	0.11	50	56.9	0.1	25	29	0	121	138.9	0.14	19	21.8	0.02	220	258	0.26	4.41	5.01461	0	381	444	0.44	82.2	99.3	0.1	96	112	0.11	14	16	0	5.05	5.77	0.01	391	496.5	0.5	33	37.5	0.04	2.491	1.3
					64	MPYK014	775986	8298002	628.2	original	0.2	22.3	27.39	0	180	206	0.21	68	77.5	0.1	60	69	0.1	285	328.5	0.33	31	35.9	0.04	128	150	0.15	4.21	4.78719	0	623	727	0.73	95.7	116	0.12	220	255	0.26	30	35	0	5.69	6.5	0.01	786	998.1	1	32	36.9	0.04	3.073	0.2
					65	MPYK015	775935	8298762	625.9	original	0.2	167	205.1	0.2	145	165.8	0.17	58	66.1	0.1	47	55	0.1	217	250.1	0.25	26	29.3	0.03	120	141	0.14	3.43	3.90025	0	579	675	0.68	96.6	117	0.12	181	209	0.21	24	29	0	4.88	5.57	0.01	628	797.5	0.8	27	30.7	0.03	2.780	0.5
		East-West			66	MPYK016	776217	8298748	626.0	original	0.2	7.71	9.471	0	36.3	41.66	0.04	17	19.3	0	9.1	11	0	45.7	52.67	0.05	7.2	8.24	0.01	17	19.4	0.02	0.81	0.91878	0	90.8	106	0.11	14	16.9	0.02	33	38.2	0.04	5.6	6.5	0	1.45	1.65	0	177	224.1	0.2	7	7.91	0.01	0.563	0.1
			10		67	MPYK017	776296	8298746	626.1	original	0.2	12	14.68	0	77.3	88.72	0.09	33	37.7	0	20	23	0	102	117.6	0.12	15	16.7	0.02	31	35.9	0.04	1.35	1.53509	0	198	231	0.23	28.6	34.6	0.03	74	85.2	0.09	12	14	0	2.76	3.15	0	364	462.2	0.5	13	15	0.01	1.181	0.2
Mpyupyu	Potassium	0.4 x 0.3			68	MPYK018	776401	8298746	626.3	original	0.2	28.2	34.64	0	124	141.7	0.14	65	74	0.1	28	33	0	142	163.7	0.16	25	28.5	0.03	38	44.3	0.04	3.94	4.48017	0	314	366	0.37	47.8	57.8	0.06	108	125	0.13	18	21	0	5.91	6.75	0.01	664	843.2	0.8	34	38.4	0.04	1.983	0.4

				MPYK003	69	MPYK019	776508	8298738	626.4	original	0.2	30	36.85	0	77.9	89.41	0.09	35	39.6	0	22	26	0	114	131.4	0.13	15	17	0.02	42	49.5	0.05	2.6	2.95646	0	209	244	0.24	30.3	36.6	0.04	81	94.4	0.09	13	15	0	3.07	3.51	0	338	429.2	0.4	19	21.5	0.02	1.236	0.3
					70	MPYK020	776617	8298733	626.3	original	0.2	638	783.7	0.8	64.9	74.49	0.07	33	38.1	0	23	26	0	74.6	85.98	0.09	14	15.5	0.02	172	202	0.2	3.57	4.05945	0	387	451	0.45	79.9	96.5	0.1	76	88.2	0.09	11	13	0	4.84	5.53	0.01	360	457.2	0.5	26	29.2	0.03	2.370	2.6
					71	MPYK021	776712	8298733	626.1	original	0.2	693	851.3	0.9	46.1	52.91	0.05	22	25.2	0	18	21	0	57.8	66.62	0.07	9.4	10.8	0.01	214	251	0.25	2.02	2.29694	0	388	453	0.45	92.4	112	0.11	66	76.6	0.08	8	9.4	0	3.17	3.62	0	258	327.6	0.3	15	17.5	0.02	2.280	1
					72	MPYK022	776807	8298722	626.0	original	0.2	86.1	105.8	0.1	40.8	46.83	0.05	19	22.2	0	14	16	0	50.9	58.67	0.06	8.4	9.56	0.01	52	60.8	0.06	1.63	1.84779	0	227	265	0.26	41.6	50.3	0.05	49	56.8	0.06	7	8.2	0	2.56	2.92	0	276	350.5	0.4	13	14.3	0.01	1.069	0.4
					73	MPYK023	776880	8298704	627.0	original	0.2	24.2	29.73	0	22.5	25.82	0.03	12	13.8	0	6.5	7.6	0	25.4	29.28	0.03	4.9	5.56	0.01	19	22.5	0.02	1.01	1.14279	0	90.5	106	0.11	14.45	17.5	0.02	23	26.7	0.03	3.6	4.2	0	1.52	1.74	0	140	177.2	0.2	7.3	8.34	0.01	0.477	0.3
		East-West			74	MPYK029	777054	8298271	626.7	original	0.2	928	1140	1.1	75	86.08	0.09	36	41.6	0	27	31	0	86.2	99.35	0.1	16	17.9	0.02	308	361	0.36	3.59	4.08219	0	516	602	0.6	121.5	147	0.15	94	109	0.11	13	15	0	5.07	5.79	0.01	404	513	0.5	27	31.2	0.03	3.204	2.6
Mpyupyu	Potassium	0.62 x 0.26	11	MPYK004	75	MPYK030	777282	8298301	626.2	original	0.2	113	138.8	0.1	69.8	80.11	0.08	36	41.6	0	23	26	0	88.3	101.8	0.1	15	17.7	0.02	65	76.5	0.08	3.01	3.42267	0	350	408	0.41	58.7	70.9	0.07	81	94.2	0.09	12	14	0	4.78	5.46	0.01	517	656.5	0.7	22	25.5	0.03	1.761	0.5
					76	MPYK031	777386	8298286	626.2	original	0.2	339	416.4	0.4	127	145.8	0.15	55	62.4	0.1	53	61	0.1	200	229.9	0.23	25	29.1	0.03	162	190	0.19	4.4	5.00324	0	694	809	0.81	105.5	127	0.13	183	212	0.21	24	29	0	6.7	7.65	0.01	775	984.2	1	32	36.7	0.04	3.346	0.2
					77	MPYK032	777788	8298305	626.7	original	0.2	85.1	104.5	0.1	6.79	7.793	0.01	3	3.38	0	2.3	2.7	0	7.89	9.094	0.01	1.3	1.51	0	31	36.1	0.04	0.23	0.25698	0	46.3	54	0.05	12.05	14.6	0.01	8.8	10.2	0.01	1.2	1.4	0	0.38	0.43	0	35.5	45.08	0	2	2.23	0	0.293	0.7
		East-West			78	MPYK037	778188	8293960	627.5	original	0.2	45.1	55.4	0.1	48.5	55.66	0.06	23	25.8	0	12	14	0	61.6	71	0.07	11	12.2	0.01	24	27.8	0.03	1.97	2.2344	0	89.9	105	0.1	12.55	15.2	0.02	35	40.9	0.04	8.3	9.7	0	2.78	3.18	0	332	421.6	0.4	14	15.4	0.02	0.875	0.1
			12		79	MPYK038	778261	8293928	627.0	original	0.2	1160	1425	1.4	136	156.1	0.16	66	75	0.1	46	54	0.1	188	216.1	0.22	29	33.6	0.03	327	384	0.38	6.46	7.34567	0	647	755	0.75	120.5	146	0.15	160	186	0.19	24	28	0	8.88	10.1	0.01	785	996.9	1	44	49.9	0.05	4.521	0.6
Mpyupyu	Potassium	1.06 x 0.4		MPYK005	80	MPYK039	778390	8293917	626.7	original	0.2	6.52	8.009	0	22.3	25.59	0.03	11	12.8	0	5.7	6.6	0	28.6	32.96	0.03	4.9	5.66	0.01	5	5.86	0.01	1.2	1.36452	0	28.2	32.9	0.03	3.46	4.18	0	15	17.5	0.02	3.7	4.4	0	1.38	1.57	0	165	209.5	0.2	8	9.12	0.01	0.378	0
					81	MPYK040	778528	8293928	626.6	original	0.2	242	297.3	0.3	86.3	99.05	0.1	36	41.4	0	33	39	0	141	161.9	0.16	18	20.1	0.02	108	126	0.13	3.18	3.61598	0	378	441	0.44	56.1	67.8	0.07	114	132	0.13	16	19	0	4.35	4.97	0	462	586.7	0.6	22	24.5	0.02	2.064	0.2
					82	MPYK041	778704	8293918	626.0	original	0.2	41.7	51.22	0.1	86.5	99.28	0.1	51	58.8	0.1	17	20	0	87.5	100.9	0.1	21	23.9	0.02	21	24.3	0.02	6.74	7.66405	0	103	120	0.12	12.95	15.6	0.02	45	52.2	0.05	13	15	0	7.35	8.39	0.01	600	761.9	0.8	40	45.7	0.05	1.405	0
					83	MPYTH020	770831	8295446	652.0	original	0.2	467	573.7	0.6	186	212.9	0.21	80	91.9	0.1	26	30	0	252	290.5	0.29	33	37.6	0.04	324	380	0.38	9.31	10.5864	0	735	857	0.86	135	163	0.16	188	217	0.22	29	34	0	10.7	12.2	0.01	740	939.7	0.9	52	58.6	0.06	3.910	1.8
		North-South		MPYTH001	84	MPYTH021	770764	8295367	650.9	original	0.2	77.2	94.83	0.1	207	237.6	0.24	88	100	0.1	42	48	0	370	426.5	0.43	40	46.2	0.05	849	996	1	9.09	10.3362	0	1900	2216	2.22	360	435	0.43	395	458	0.46	40	47	0	11.6	13.2	0.01	1155	1467	1.5	59	67.1	0.07	6.662	0.4
			13		85	MPYTH022	770947	8295037	645.2	original	0.2	5600	6879	6.9	474	544	0.54	282	322	0.3	80	93	0.1	533	614.3	0.61	112	128	0.13	####	2897	2.9	26.7	30.3606	0	2990	3488	3.49	764	923	0.92	530	615	0.61	76	89	0.1	38.9	44.4	0.04	3100	3937	3.9	189	215	0.21	20.818	1.8
Mpyupyu	Thorium	0.35 x 0.45			86	MPYTH023	770884	8294901	648.2	original	0.2	6960	8550	8.5	765	878	0.88	415	475	0.5	253	293	0.3	935	1078	1.08	167	191	0.19	####	2463	2.46	52.3	59.4703	0.1	4950	5774	5.77	1050	1269	1.27	957	1110	1.11	129	151	0.2	62.3	71.2	0.07	4170	5295	5.3	353	402	0.4	28.058	8.3
					87	MPYTH024	772714	8294441	636.7	original	0.2	10.5	12.84	0	15.6	17.9	0.02	7.5	8.6	0	4.4	5.1	0	20.3	23.4	0.02	3.3	3.75	0	7.4	8.64	0.01	0.65	0.73912	0	37	43.2	0.04	4.76	5.75	0.01	14	16.1	0.02	2.7	3.1	0	0.95	1.08	0	107	135.2	0.1	4.9	5.53	0.01	0.291	0.1
					88	MPYTH025	772607	8294208	635.0	original	0.2	2080	2555	2.6	827	949.1	0.95	573	655	0.7	142	164	0.2	669	771.1	0.77	213	244	0.24	579	679	0.68	61	69.3631	0.1	1510	1761	1.76	271	327	0.33	429	497	0.5	113	132	0.1	82.4	94.1	0.09	5140	6527	6.5	423	482	0.48	15.908	0.1
		North-South		MPYTH002,3	89	MPYTH026	772572	8293920	637.5	original	0.2	10.8	13.21	0	20.8	23.87	0.02	11	12.1	0	5.6	6.5	0	26.4	30.43	0.03	4.7	5.35	0.01	7.9	9.3	0.01	0.97	1.10754	0	37.8	44.1	0.04	5.08	6.14	0.01	17	19.1	0.02	3.4	4	0	1.38	1.57	0	145	184.1	0.2	7	7.95	0.01	0.369	0
			14		90	MPYTH027	772336	8293454	642.7	original	0.2	765	939.7	0.9	118	135.4	0.14	53	60.5	0.1	44	51	0.1	160	184.4	0.18	24	27.4	0.03	203	238	0.24	5.37	6.10623	0	735	857	0.86	133.5	161	0.16	164	190	0.19	21	25	0	7.2	8.22	0.01	656	833.1	0.8	36	41.3	0.04	3.758	0.8
					91	MPYTH028	772313	8293213	645.5	original	0.2	127	155.4	0.2	136	155.5	0.16	62	70.7	0.1	47	55	0.1	199	228.8	0.23	28	32.3	0.03	144	169	0.17	5.51	6.26542	0	508	593	0.59	76.1	91.9	0.09	153	177	0.18	24	29	0	7.54	8.61	0.01	718	911.8	0.9	37	41.6	0.04	2.724	0.1
					92	MPYTH029	772298	8293021	646.2	original	0.2	668	820.6	0.8	195	223.2	0.22	90	102	0.1	76	87	0.1	319	367.7	0.37	40	46.3	0.05	300	352	0.35	10.5	11.9396	0	929	1084	1.08	151	182	0.18	260	301	0.3	37	43	0	11.7	13.3	0.01	951	1208	1.2	62	70.5	0.07	4.913	0.1
					93	MPYTH030	772119	8293219	646.0	Original	0.2	582	714.9	0.7	170	194.5	0.19	87	99.8	0.1	52	60	0.1	226	260.5	0.26	37	42.7	0.04	296	347	0.35	8.3	9.43793	0	637	743	0.74	116.5	141	0.14	165	191	0.19	30	35	0	11.4	13	0.01	1045	1327	1.3	58	65.6	0.07	4.244	0.4
		East- West			94	MPYTH031	772350	8293205	645.4	Original	0.2	2980	3661	3.7	385	441.9	0.44	199	228	0.2	126	146	0.1	458	527.9	0.53	81	92.8	0.09	907	1064	1.06	23.3	26.4944	0	2260	2636	2.64	458	553	0.55	469	544	0.54	65	76	0.1	29.4	33.6	0.03	2190	2781	2.8	157	178	0.18	12.989	3.9
Mpyupyu	Thorium	0.35 x 0.45		MPYTH002	95	MPYTH032	772355	8293207	645.3	Original	0.2	635	780	0.8	151	173.3	0.17	71	81.3	0.1	57	66	0.1	215	247.8	0.25	31	36	0.04	268	314	0.31	6.68	7.59583	0	808	942	0.94	140	169	0.17	202	234	0.23	27	32	0	9.43	10.8	0.01	792	1006	1	47	53.2	0.05	4.154	1.1
			15		96	MPYTH033	772433	8293203	644.8	Original	0.2	1960	2408	2.4	391	448.8	0.45	205	234	0.2	138	160	0.2	507	584.4	0.58	83	95.5	0.1	887	1040	1.04	23.9	27.1767	0	2200	2566	2.57	421	509	0.51	489	567	0.57	67	78	0.1	29.1	33.2	0.03	2100	2667	2.7	160	182	0.18	11.600	2.1
					97	MPYTH034	772533	8293203	644.3	Original	0.2	967	1188	1.2	299	343.2	0.34	149	170	0.2	106	122	0.1	417	480.6	0.48	64	73.2	0.07	496	582	0.58	15.9	18.023	0	1445	1685	1.69	247	298	0.3	365	423	0.42	53	62	0.1	19.9	22.7	0.02	1445	1835	1.8	103	117	0.12	7.420	1
					98	MPYTH035	772648	8293202	642.6	Original	0.2	467	573.7	0.6	93.1	106.9	0.11	40	45.9	0	38	44	0	142	163.1	0.16	18	21	0.02	176	206	0.21	3.44	3.91162	0	626	730	0.73	105.5	127	0.13	144	167	0.17	17	21	0	4.87	5.56	0.01	499	633.7	0.6	24	27.7	0.03	2.877	0.5
					99	MPYTH041	772200	8294105	635.5	Original	0.2	3740	4594	4.6	980	1125	1.12	430	492	0.5	306	354	0.4	1170	1349	1.35	177	202	0.2	####	1648	1.65	45.1	51.2832	0.1	3020	3523	3.52	583	704	0.7	897	1040	1.04	146	171	0.2	56.2	64.2	0.06	3000	3810	3.8	264	301	0.3	19.427	0.9
		East-West			100	MPYTH036	772368	8294109	635.3	Original	0.2	1370	1683	1.7	751	861.9	0.86	491	561	0.6	148	171	0.2	663	764.2	0.76	189	216	0.22	465	545	0.55	51.6	58.6744	0.1	1415	1650	1.65	245	296	0.3	435	504	0.5	107	125	0.1	69.8	79.7	0.08	4480	5689	5.7	356	405	0.41	13.612	0
Mpyupyu		0.65 x 0.29	16	MPYTH003	101	MPYTH037	772474	8294101	635.6	Original	0.2	3890	4778	4.8	435	499.2	0.5	232	265	0.3	137	159	0.2	549	632.8	0.63	97	111	0.11	####	1425	1.42	24.4	27.7452	0	2060	2403	2.4	432	522	0.52	465	539	0.54	74	87	0.1	32.4	37	0.04	2350	2984	3	164	186	0.19	14.656	1.6
					102	MPYTH038	772562	8294102	636.0	Original	0.2	24.9	30.59	0	26.9	30.87	0.03	13	14.9	0	7.4	8.6	0	35.9	41.38	0.04	5.8	6.68	0.01	9.9	11.6	0.01	1.15	1.30767	0	44.9	52.4	0.05	5.57	6.73	0.01	20	23	0.02	4.6	5.4	0	1.57	1.79	0	191	242.6	0.2	7.2	8.24	0.01	0.486	0
					103	MPYTH039	772672	8294109	635.2	Original	0.2	9050	11117	11	898	1031	1.03	525	600	0.6	268	310	0.3	1085	1251	1.25	204	234	0.23	####	3882	3.88	60.4	68.6808	0.1	5120	5972	5.97	1160	1402	1.4	997	1156	1.16	146	171	0.2	75.3	86	0.09	4780	6070	6.1	401	457	0.46	33.807	0.3
Mpyupyu					104	MPYTH040	772768	8294106	635.1	Original	0.2	1780	2187	2.2	344	394.8	0.39	192	220	0.2	93	107	0.1	431	496.8	0.5	80	91.8	0.09	779	914	0.91	19.7	22.4009	0	1350	1575	1.57	258	312	0.31	319	370	0.37	57	67	0.1	25.3	28.9	0.03	2300	2921	2.9	128	146	0.15	9.851	0
					105	MPYTH042	770554	8294966	648.4	Original	0.2	151	185.5	0.2	98.4	112.9	0.11	38	43.3	0	36	42	0	149	171.2	0.17	17	19.4	0.02	75	87.8	0.09	3.75	4.26413	0	293	342	0.34	41.5	50.1	0.05	103	119	0.12	16	19	0	4.65	5.31	0.01	402	510.5	0.5	21	23.7	0.02	1.736	0.1
		East -West			106	MPYTH043	770763	8294978	649.4	Original	0.2	2430	2985	3	442	507.3	0.51	229	262	0.3	115	133	0.1	489	563.6	0.56	85	97.7	0.1	600	704	0.7	27.5	31.2703	0	1350	1575	1.57	261	315	0.32	371	430	0.43	62	73	0.1	31.7	36.2	0.04	1845	2343	2.3	155	176	0.18	10.232	0.8
			17	MPYTH005	107	MPYTH044	770852	8294992	647.6	Original	0.2	1695	2082	2.1	332	381	0.38	150	171	0.2	94	108	0.1	425	489.9	0.49	60	68.8	0.07	529	620	0.62	17.5	19.8424	0	1305	1522	1.52	241	291	0.29	347	402	0.4	51	60	0.1	19.9	22.7	0.02	1230	1562	1.6	100	114	0.11	7.915	7.4
Mpyupyu		0.3 x 0.3			108	MPYTH045	770974	8294987	644.9	Original	0.2	2840	3489	3.5	570	654.2	0.65	272	311	0.3	164	190	0.2	681	784.9	0.78	103	118	0.12	755	885	0.89	34.1	38.7751	0	2040	2379	2.38	373	451	0.45	550	638	0.64	85	100	0.1	38	43.4	0.04	2260	2870	2.9	193	220	0.22	13.172	2.8
					109	MPYTH047	771119	8294983	641.9	Original	0.2	2340	2874	2.9	1550	1779	1.78	987	1129	1.1	212	245	0.2	1060	1222	1.22	338	387	0.39	673	789	0.79	114	129.061	0.1	2080	2426	2.43	375	453	0.45	670	777	0.78	177	208	0.2	143	163	0.16	7430	9435	9.4	687	782	0.78	22.799	0.3
					110	MPYTH046	771173	8294989	641.4	Original	0.2	13	15.91	0	20.8	23.87	0.02	8.7	9.98	0	6.4	7.4	0	28.7	33.08	0.03	3.6	4.16	0	5.8	6.77	0.01	1	1.13483	0	32.7	38.1	0.04	3.79	4.58	0	16	19.1	0.02	3.3	3.9	0	1.09	1.24	0	103	130.2	0.1	5.1	5.77	0.01	0.305	0
					111	MPYTH048	770526	8295312	656.5	Original	0.2	96.9	119	0.1	437	501.5	0.5	177	202	0.2	58	67	0.1	631	727.3	0.73	75	85.9	0.09	580	680	0.68	19.3	21.946	0	1625	1895	1.9	264	319	0.32	474	550	0.55	71	83	0.1	21.8	24.9	0.02	1615	2051	2.1	103	117	0.12	7.445	0.9
					112	MPYTH049	770579	8295276	654.1	Original	0.2	367	450.8	0.5	430	493.5	0.49	164	188	0.2	73	84	0.1	647	745.7	0.75	70	80.5	0.08	924	1084	1.08	18.6	21.0932	0	2130	2484	2.48	385	465	0.47	550	638	0.64	71	83	0.1	20.8	23.8	0.02	1525	1937	1.9	100	114	0.11	8.892	1.6
	Thorium	East- West			113	MPYTH050	770682	8295301	650.7	Original	0.2	1250	1536	1.5	456	523.4	0.52	187	214	0.2	59	69	0.1	658	758.4	0.76	78	89.1	0.09	940	1102	1.1	23.1	26.267	0	2120	2473	2.47	386	466	0.47	560	649	0.65	73	86	0.1	24.3	27.8	0.03	1615	2051	2.1	121	137	0.14	10.208	1
Mpyupyu		0.4 x .25	18	MPYTH001	114	MPYTH051	770682	8295321	651.4	Original	0.2	4.63	5.687	0	44.2	50.73	0.05	17	19.4	0	7.6	8.8	0	66.7	76.88	0.08	7.4	8.42	0.01	29	33.9	0.03	1.25	1.41569	0	111	129	0.13	14.65	17.7	0.02	42	48.9	0.05	7.5	8.8	0	2.05	2.34	0	210	266.7	0.3	8.3	9.45	0.01	0.688	0.1
					115	MPYTH052	770967	8295365	644.3	Original	0.2	1155	1419	1.4	275	315.6	0.32	114	130	0.1	45	52	0.1	406	468	0.47	47	53.4	0.05	556	652	0.65	13.3	15.1234	0	1320	1540	1.54	233	282	0.28	343	398	0.4	45	52	0.1	15.3	17.4	0.02	982	1247	1.2	73	83	0.08	6.724	0.9
					116	MPYTH053	771077	8295407	643.1	Duplicate	0.2	3070	3771	3.8	1245	1429	1.43	556	636	0.6	175	203	0.2	1395	1608	1.61	222	254	0.25	####	1419	1.42	57.4	65.2695	0.1	3130	3651	3.65	564	681	0.68	970	1125	1.12	184	216	0.2	73.1	83.5	0.08	4860	6172	6.2	336	383	0.38	21.696	0.2
					117	MPYTH054	771180	8295433	642.1	Original	0.2	1470	1806	1.8	1185	1360	1.36	691	790	0.8	175	202	0.2	984	1134	1.13	242	277	0.28	540	633	0.63	86.7	98.5866	0.1	1800	2100	2.1	296	358	0.36	598	693	0.69	147	172	0.2	97.8	112	0.11	5170	6565	6.6	491	559	0.56	16.860	0.3
					118	MPYTH055	771180	8295433	642.1	Original	0.2	1535	1886	1.9	1170	1343	1.34	682	780	0.8	176	203	0.2	983	1133	1.13	244	280	0.28	552	647	0.65	86.9	98.814	0.1	1820	2123	2.12	302	365	0.36	612	710	0.71	147	173	0.2	98.6	113	0.11	5050	6413	6.4	484	551	0.55	16.817	0.1
					119	MPYTH057	767481	8299096	660.0	Original	0.2	118	144.3	0.1	150	172.2	0.17	74	84.5	0.1	42	48	0	201	231.7	0.23	29	32.8	0.03	61	72	0.07	10.8	12.2238	0	328	383	0.38	43.9	53	0.05	118	137	0.14	23	26	0	9.94	11.4	0.01	643	816.5	0.8	52	59.1	0.06	2.284	0.1
		East-West			120	MPYTH058	767694	8299165	661.0	Original	0.2	292	358.7	0.4	219	251.3	0.25	102	117	0.1	53	62	0.1	268	308.9	0.31	41	46.5	0.05	167	196	0.2	9.06	10.3021	0	478	558	0.56	76.9	92.9	0.09	161	187	0.19	33	38	0	12.2	13.9	0.01	994	1262	1.3	54	61	0.06	3.563	0.4
				MPYTH007	121	MPYTH059	767897	8299109	661.3	Original	0.2	68.6	84.27	0.1	75.8	87	0.09	31	35.7	0	27	31	0	106	121.6	0.12	14	15.5	0.02	49	57.6	0.06	2.92	3.32033	0	209	244	0.24	29.7	35.9	0.04	75	86.6	0.09	12	14	0	3.99	4.56	0	318	403.8	0.4	17	19.8	0.02	1.244	0.1
Mpyupyu	Thorium	0.88 x 0.15	19		122	MPYTH060	768112	8299113	655.9	Original	0.2	125	152.9	0.2	74.8	85.85	0.09	43	49.6	0	20	24	0	90.5	104.3	0.1	15	17.4	0.02	56	65.4	0.07	7.36	8.36906	0	166	193	0.19	25.6	30.9	0.03	56	64.5	0.06	10	12	0	6.22	7.1	0.01	386	490.2	0.5	35	40	0.04	1.345	0.1
					123	MPYTH061	768312	8299103	651.4	Original	0.2	99	121.6	0.1	135	154.4	0.15	43	48.9	0	44	51	0.1	234	269.7	0.27	21	23.6	0.02	69	80.5	0.08	3.37	3.83203	0	317	370	0.37	40.7	49.2	0.05	141	164	0.16	24	28	0	4.55	5.2	0.01	553	702.3	0.7	19	22.1	0.02	2.094	<0.02
					124	MPYTH062	768460	8299103	652.9	Original	0.2	6.45	7.923	0	72.6	83.32	0.08	25	28.7	33	26	30	0	138	158.5	0.16	12	13.8	0.01	58	67.91	0.07	2.03	2.30831	0	197	230	0.23	25	30.2	0.03	78	90.1	0.09	13	15	0	2.61	2.98	0	332	421.6	0.4	10	11.9	0.01	33.986	<0.02

APPENDIX 2 - Individual sample REE oxide values in rock-chip with TREO values recorded in ppb/ppm

Area	Anomaly Type	ORDER	Sample ID	utmE	utmN	RL	Type		Weight kg	SAMPLE	Ce	CeO_2	Dy	Dy_2O_3	Er	Er_2O_3	Eu	Eu_2O_3	Gd	Gd_2O_3	Ho	Ho_2O_3	La	La_2O_3	Lu	Lu_2O_3	Nd	Nd_2O_3	Pr	Pr_6O_{11}	Sc	Sc_2O_3	Sm	Sm_2O_3	Tb	Tb_4O_7	Tm	Tm_2O_3	Y	Y_2O_3	Yb	Yb_2O_3	TREO	Nb
											ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Chisi Island			CHIRG001	779573	8301630	659.0	original	Fenite	0.2	CHIRG001	36.8	45.205	4.39	5.0384	2.12	2.4242	1.04	1.2042	3.91	4.5067	0.87	0.9966	20.2	23.691	0.22	0.250162	13.9	16.213	3.78	4.567	5.2	7.97576	2.67	3.0961	0.8	0.941	0.26	0.296946	24.1	30.605	1.45	1.6511	140.69	**218**
Chisi Island	Magnetic		CHIRG002	780022	8302056	651.0	original	Fenite	0.2	CHIRG002	53.7	65.965	14.25	16.355	6.94	7.9359	3.34	3.8674	12.25	14.119	2.73	3.1272	23.8	27.913	0.57	0.648147	24.7	28.81	6.22	7.515	0.8	1.22704	7.76	8.9985	2.3	2.7053	0.82	0.936522	76.5	97.147	4.24	4.8281	290.87	**>2500**
Chisi Island			CHIRG003	780041	8302151	671.0	original	Carbonatite	0.2	CHIRG003	1480	1818	32	36.726	12.25	14.008	23.5	27.211	59.7	68.81	5.42	6.2086	760	891.33	1.3	1.47823	591	689.34	170	205.39	4.3	6.59534	83	96.247	7.43	8.7392	1.54	1.758834	143	181.6	8.69	9.8953	**4056.77**	**606**
Mposa	Thorium	1	CHKRG001	765902	8320836	709.0	original	Nepheline Synite	0.25	CHKRG001	190	233.4	6.57	7.5404	4.15	4.7455	2.83	3.2769	7.43	8.5638	1.34	1.535	99.5	116.69	0.7	0.79597	61.9	72.2	19.3	23.318	2.8	4.29464	9.16	10.622	1.11	1.3056	0.69	0.788049	37.6	47.748	4.1	4.6687	537.20	**134.5**
Mposa		2	CHKRG002	765870	8321180	709.0	original	Nepheline Synite	0.25	CHKRG002	179.5	220.5	6.12	7.0239	3.53	4.0366	2.68	3.1032	7.31	8.4255	1.25	1.4319	93.9	110.13	0.56	0.636776	57.7	67.301	18.25	22.05	2.8	4.29464	8.62	9.9958	1.08	1.2703	0.5	0.57105	33.8	42.923	3.53	4.0196	503.41	**109**
Blank Material			MPYK042				Blank	Rck	0.25	MPYK042	5.8	7.1247	0.13	0.1492	0.06	0.0686	0.1	0.1158	0.35	0.4034	0.02	0.0229	2.5	2.932	0.01	0.011371	3.1	3.6158	0.75	0.9062	0.5	0.7669	0.69	0.8001	0.03	0.0353	0.01	0.011421	0.7	0.8889	0.03	0.0342	17.12	**0.83**
Blank Material			MPYK043				Blank	Rck	0.25	MPYK043	4.4	5.405	0.14	0.1607	0.08	0.0915	0.08	0.0926	0.25	0.2882	0.04	0.0458	1.6	1.8765	0.01	0.011371	1.9	2.2162	0.55	0.6645	0.9	1.38042	0.36	0.4175	0.02	0.0235	0.02	0.022842	0.8	1.0159	0.09	0.1025	12.43	**0.54**
Blank Material			MPYK044				Blank	Rck	0.25	MPYK044	7.6	9.3358	0.74	0.8493	0.44	0.5031	0.26	0.3011	0.88	1.0143	0.14	0.1604	2.3	2.6974	0.07	0.079597	4.9	5.7154	1.11	1.3411	0.5	0.7669	1.15	1.3335	0.12	0.1411	0.08	0.091368	3.4	4.3177	0.53	0.6035	28.48	**3.07**
Blank Material			MPYK045				Blank	Rck	0.25	MPYK045	5.1	6.2648	0.34	0.3902	0.17	0.1944	0.07	0.0811	0.31	0.3573	0.05	0.0573	2.4	2.8147	0.03	0.034113	2.3	2.6827	0.52	0.6283	1	1.5338	0.4	0.4638	0.06	0.0706	0.02	0.022842	2	2.5398	0.17	0.1936	16.80	**0.5**
Blank Material			MPYK046				Blank	Rck	0.25	MPYK046	2.8	3.4395	0.15	0.1722	0.09	0.1029	0.04	0.0463	0.15	0.1729	0.05	0.0573	1.4	1.6419	0.02	0.022742	1.1	1.283	0.36	0.435	0.6	0.92028	0.31	0.3595	0.03	0.0353	0.01	0.011421	1.1	1.3969	0.05	0.0569	9.23	**0.38**
Blank Material			MPYK047				Blank	Rck	0.25	MPYK047	13.2	16.215	0.74	0.8493	0.38	0.4345	0.45	0.5211	1.1	1.2679	0.16	0.1833	5.5	6.4504	0.05	0.056855	6.6	7.6982	1.72	2.0781	1.5	2.3007	1.09	1.264	0.17	0.2	0.05	0.057105	4.8	6.0955	0.38	0.4327	43.80	**0.79**
Mpyupyu		3	MPYTHRG001	770388	8295890	698.7	original	Agglomerates	0.25	MPYTHRG00	107	131.44	5.5	6.3124	2.93	3.3505	0.64	0.7411	5.89	6.7888	1.1	1.2601	55.6	65.208	0.53	0.602663	44.4	51.788	12.65	15.284	1.1	1.68718	7.78	9.0217	0.93	1.0939	0.45	0.513945	28.3	35.938	2.85	3.2453	332.59	**94.6**
Mpyupyu		4	MPYTHRG002	770365	8297180	673.6	original	Nepheline Synite	0.25	MPYTHRG00	767	942.18	23.1	26.512	10.95	12.521	0.76	0.88	37	42.646	4.25	4.8684	238	279.13	1.39	1.580569	321	374.41	83.4	100.76	0.5	0.7669	52.2	60.531	4.77	5.6105	1.56	1.781676	88.7	112.64	9.42	10.727	**1976.79**	**49.6**
Mpyupyu	Magnetic	5	MPYTHRG003	770161	8296153	797.4	original	Agglomerates	0.25	MPYTHRG00	204	250.59	9.08	10.421	5.49	6.2778	2.01	2.3274	11.55	13.313	1.96	2.2452	95.6	112.12	0.83	0.943793	79.3	92.496	23	27.789	8	12.2704	13.6	15.771	1.71	2.0113	0.83	0.947943	51.8	65.781	5.43	6.1831	609.22	**139.5**
Mpyupyu		6	MPYTHRG004	770102	8296182	828.0	original	Nepheline Synite	0.25	MPYTHRG00	167	205.14	7.78	8.9291	4.27	4.8827	0.87	1.0074	9.19	10.592	1.69	1.9359	77.8	91.244	0.62	0.705002	65	75.816	18.6	22.473	4.1	6.28858	10.65	12.35	1.48	1.7408	0.66	0.753786	41.4	52.574	4.15	4.7256	494.87	**126.5**
Mpyupyu		7	MPYTHRG005	770087	8296442	891.8	original	Nepheline Synite	0.25	MPYTHRG00	122.5	150.48	9.87	11.328	5.2	5.9462	2.55	2.9526	11.8	13.601	1.98	2.2681	76.5	89.719	0.76	0.864196	75.4	87.947	19.95	24.104	5.8	8.89604	13.4	15.539	1.74	2.0466	0.76	0.867996	53.8	68.321	4.7	5.3519	481.33	**94.3**
Mpyupyu		8	MPYTHRG006	770266	8296618	780.5	original	Agglomerates	0.25	MPYTHRG00	337	413.97	17.55	20.142	9.94	11.366	1.5	1.7369	18.5	21.323	3.48	3.9863	161.5	189.41	1.75	1.989925	143	166.8	41.8	50.503	0.5	0.7669	25.2	29.222	2.96	3.4816	1.59	1.815939	81.1	102.99	10.55	12.013	**1030.74**	**237**
Mpyupyu		9	MPYTHRG007	770807	8295412	651.6	original	Aegirine-Rebeikite Dyke	0.25	MPYTHRG00	124	152.32	20.4	23.413	19.35	22.127	0.75	0.8684	10.8	12.448	5.38	6.1628	64.3	75.411	5.05	5.742355	37.5	43.74	11.5	13.894	0.5	0.7669	9.13	10.587	2.81	3.3051	3.93	4.488453	92.9	117.97	28.5	32.453	524.94	**884**
Mpyupyu		10	MPYTHRG008	770805	8295411	651.8	original	Aegirine-Rebeikite Dyke	0.25	MPYTHRG00	159	195.32	20.2	23.184	18.9	21.612	0.61	0.7063	9.24	10.65	5.21	5.9681	82.7	96.991	4.36	4.957756	40.3	47.006	14.1	17.036	0.5	0.7669	8.44	9.787	2.5	2.9405	3.79	4.328559	78.4	99.56	28.1	31.997	572.04	**977**
Mpyupyu	Thorium	11	MPYTHRG009	770789	8295395	651.9	original	Aegirine-Rebeikite Dyke	0.25	MPYTHRG00	185.5	227.87	15.7	18.019	14.35	16.409	0.68	0.7874	8.13	9.3706	3.84	4.3987	97.1	113.88	3.85	4.377835	48	55.987	17.5	21.144	0.9	1.38042	8.92	10.344	2.06	2.423	2.81	3.209301	69	87.623	21.6	24.596	600.44	**886**
Mpyupyu		12	MPYTHRG010	770758	8295372	651.9	original	Aegirine-Rebeikite Dyke	0.25	MPYTHRG01	230	282.53	22.8	26.168	20.8	23.785	0.64	0.7411	10.7	12.333	5.45	6.243	130.5	153.05	4.96	5.640016	65.7	76.632	22.1	26.701	0.5	0.7669	13.35	15.481	2.72	3.1993	3.99	4.556979	118	149.85	31.4	35.755	822.67	**1270**
Mpyupyu		13	MPYTHRG011	770764	8295367	650.9	original	Aegirine-Rebeikite Dyke	0.25	MPYTHRG01	153	187.95	9.88	11.339	6.49	7.4213	2.3	2.6632	8.64	9.9585	2.15	2.4628	97.9	114.82	1.08	1.228068	58	67.651	19.1	23.077	0.5	0.7669	9.84	11.41	1.63	1.9172	1.2	1.37052	54.3	68.956	7.71	8.7794	521.00	**117**
Mpyupyu		14	MPYTHRG012	766840	8298605	659.9	original	Gn	0.25	MPYTHRG01	43.1	52.944	6.81	7.8158	4.25	4.8599	1.12	1.2968	6.29	7.2499	1.32	1.5121	17	19.938	0.62	0.705002	23.2	27.06	5.5	6.6451	3.4	5.21492	6.27	7.2707	1.09	1.2821	0.61	0.696681	39.3	49.907	4.04	4.6003	193.78	**74.4**
Mpyupyu		15	MPYTHRG013	766840	8298605	659.9	original	Dyk	0.25	MPYTHRG01	133	163.38	8.43	9.6751	4.57	5.2258	4.71	5.4537	11.1	12.794	1.64	1.8786	60.2	70.603	0.52	0.591292	64.8	75.583	16.3	19.694	22.4	34.35712	12.1	14.031	1.56	1.8349	0.54	0.616734	42.1	53.463	3.26	3.7122	438.53	**50.3**
Mpyupyu		16	MPYTHRG014	766840	8298605	659.9	original	Gn	0.25	MPYTHRG01	251	308.33	9.81	11.259	5.11	5.8433	4.1	4.7474	12.25	14.119	1.88	2.1535	117	137.22	0.77	0.875567	99	115.47	28.3	34.192	6.9	10.58322	16.7	19.365	1.88	2.2113	0.76	0.867996	52.5	66.67	4.76	5.4202	728.74	**93.3**
Mpyupyu	Thorium	17	MPYTHRG015	766840	8298605	659.9	original	Dyk	0.25	MPYTHRG01	135	165.83	7.89	9.0554	4.04	4.6197	4.57	5.2916	11.5	13.255	1.62	1.8557	60.3	70.72	0.44	0.500324	66.3	77.332	16.8	20.298	21.1	32.36318	12.25	14.205	1.45	1.7055	0.6	0.68526	41.9	53.209	3.38	3.8488	442.42	**49.8**
Mpyupyu		18	MPYTHRG016	766840	8298605	659.9	original	Dyk	0.25	MPYTHRG01	129.5	159.08	8.03	9.216	3.85	4.4025	4.87	5.639	10.45	12.045	1.58	1.8099	58.5	68.609	0.49	0.557179	63.8	74.416	16.1	19.452	20.8	31.90304	11.55	13.393	1.54	1.8113	0.52	0.593892	40.1	50.923	3.11	3.5414	425.49	**47.7**
Mpyupyu		19	MPYTHRG017	766840	8298605	659.9	original	Gn	0.25	MPYTHRG01	47.6	58.472	4.42	5.0728	2.66	3.0417	2.14	2.4779	5.64	6.5007	0.94	1.0768	21.8	25.567	0.39	0.443469	23.6	27.527	5.7	6.8867	6	9.2028	5.1	5.914	0.84	0.988	0.4	0.45684	24.9	31.621	2.29	2.6076	178.65	**13.4**
Mpyupyu		20	MPYTHRG019	768225	8299115	652.8	original	Fenite	0.25	MPYTHRG01	278	341.5	26.2	30.07	17.15	19.611	0.33	0.3821	21.2	24.435	5.79	6.6324	135.5	2.71	3.081541	92.9	108.36	29.2	35.279	0.5	0.7669	19.55	4.15	4.8812	2.75	3.140775	155.5	197.47	17.85	20.326	795.16	**528**
Mpyupyu		21	MPYTHRG020	768225	8299114	652.7	original	Gn	0.25	MPYTHRG02	78.7	96.675	4.69	5.3827	2.6	2.9731	1.79	2.0726	5.62	6.4776	0.85	0.9737	41.3	0.26	0.295646	32.6	38.025	9.32	11.26	0.9	1.38042	6.35	0.83	0.9762	0.34	0.388314	22.7	28.827	1.94	2.2091	196.54	**7.31**

APPENDIX 3 – JORC TABLE 1

Section 1 Sampling Techniques and Data

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

Criteria	JORC Code explanation	Commentary
Sampling techniques	*Nature and quality of sampling (eg cut channels, random chips, or specific specialised industry standard measurement tools appropriate to the minerals under investigation, such as down hole gamma sondes, or handheld XRF instruments, etc). These examples should not be taken as limiting the broad meaning of sampling.* *Include reference to measures taken to ensure sample representivity and the appropriate calibration of any measurement tools or systems used.* *Aspects of the determination of mineralisation that are Material to the Public Report.* *In cases where 'industry standard' work has been done this would be relatively simple (eg 'reverse circulation drilling was used to obtain 1 m samples from which 3 kg was pulverised to produce a 30 g charge for fire assay'). In other cases, more explanation may be required, such as where there is coarse gold that has inherent sampling problems. Unusual commodities or mineralisation types (eg submarine nodules) may warrant disclosure of detailed information.*	Soil samples of a weight of about 250 grams were taken from a depth of about 15-20 cm below surface. All samples were sieved on site through a 5mm plastic sieve and stored in double snap lock bags. The aim of the study was to test already identified airborne geophysics anomalies and determine if a corresponding geochemical anomaly can be outlined at the same location. A single north-south or east-west profile was undertaken from outside the anomaly, through the centre and out the other side. Sample collection, preparation and ionic leach testing at ALS labs Ireland was to industry standard. Rock-chip samples were recovered from outcrop using a geological hammer, with an attempt made to sample from less weathered material. Samples were bagged and labelled on site for later sample preparation.
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).*	The Company's Diamond Drilling program uses a Boart Longyear LF90D diamond rig equipped for P,H and NQ diameters with core orientation. Full drilling results from the diamond drilling program to be part of a subsequent announcement.
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*	Full drilling results from the diamond drilling program, including core recovery to be part of a subsequent announcement.

Criteria	JORC Code explanation	Commentary
	have occurred due to preferential loss/gain of fine/coarse material.	
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.*	Full drilling results from the diamond drilling program, to be part of a subsequent announcement. Core recovered to date has been logged on site aswell as in detail at the Company's dedicated facility in Zalewa, Malawi. Wet and Dry core photographs are captured and stored utilising Imago software.
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.*	Full drilling results from the diamond drilling program, to be part of a subsequent announcement. With respect to REE soil sampling: Sample was sieved on site to required weight (not dried) with no further splitting. A single traverse of points is appropriate for the current level of work, with further detailed soil geochemistry grids to be determined later. A soil sampling grid may be determined for anomalies in a later phase of testing. The sample taken is representative of the medium being tested. Up to 200g as advised by testing laboratory. With respect to Rock-chip samples; Rock chips were prepared at the Company's on-site laboratory in Zalewa, Malawi where the samples were dried, crushed and pulverised before testing according to ALS method ME-MS81 – lithium borate fused bead XRF.
Quality of assay data and laboratory tests	*The nature, quality and appropriateness of the assaying and laboratory procedures used and whether the technique is considered partial or total.* *For geophysical tools, spectrometers, handheld XRF instruments, etc, the parameters used in determining the analysis including instrument make and model, reading times, calibrations factors applied and their derivation, etc.*	Soil samples submitted to ALS Laboratories in Johannesburg and Ireland ionic leach testing method (ME-MS23, ph controlled) 61 elements including: Ag, Au, Bi, Cd, Co, Cr, Cs, Cu, Li, Mo, Ni, Pb, Pd, Pt, Sn, Ta, W, Zn and REE Ce, La, Tb, Dy, Pm, Pr, Nd, Sm, Gd, Eu, Ho, Er, Tm, Lu, Yb and Rb. No instrumentation used in the collection of the sample. Rock-chip samples were submitted to ALS laboratories in Johannesburg and Ireland for whole rock geochemistry (ALS code ME-ICP06) and Lithium-Borate fusion ICP-MS (ALS code ME-MS81)

Criteria	JORC Code explanation	Commentary
	Nature of quality control procedures adopted (eg standards, blanks, duplicates, external laboratory checks) and whether acceptable levels of accuracy (ie lack of bias) and precision have been established.	2 duplicate samples were provided for analysis within the soil sample stream. 6 Blank samples were provided within the rock-chip sample stream Full drilling results from the diamond drilling program, including assays, to be part of a subsequent announcement.
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.*	Not undertaken, to be considered in later stages of soil geochemistry program as appropriate. No twinned holes are yet considered required as part of the diamond program for REE. Data has been received, reviewed and examined in Excel and ARCGIS. No adjustments required
Location of data points	*Accuracy and quality of surveys used to locate drill holes (collar and down-hole surveys), trenches, mine workings and other locations used in Mineral Resource estimation.* *Specification of the grid system used.* *Quality and adequacy of topographic control.*	Handheld GPS WGS 84 Zone 36S High resolution LIDAR available throughout the license area.
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.*	With respect to REE soil sampling: Samples are predominantly evenly spaced, with several samples taken up to 300m outside of the anomaly to be tested and a series of evenly spaced samples taken from within the anomaly, to pass out the opposite side. Data not intended for mineral resource estimate No compositing of samples. Rock chip samples are taken as outcrop presents in field, in an area, outside of hillsides, with outcrop generally limited to riverbeds.

Criteria	JORC Code explanation	Commentary
		Full drilling results from the diamond drilling program, to be part of a subsequent announcement.
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.*	For soil sampling, a single transect of each anomaly reported has been taken in the initial phase of testing, predominantly East-West or North-South (circular anomalies). Several anomalies were tested by a transect oriented perpendicular to a clear trend. For REE diamond drilling, direction of drilling has been guided by any indication of strike of the anomaly. Geophysics information has also been interpreted with an attempt made to intersect magnetic highs, and high contrast in magnetic imaging. Full drilling results from the diamond drilling program, including orientation of any interpreted mineralogy to be part of a subsequent announcement.
Sample security	*The measures taken to ensure sample security.*	Samples taken by Chilwa Minerals field personnel and maintained securely until delivery to ALS custody.
Audits or reviews	*The results of any audits or reviews of sampling techniques and data.*	Not considered necessary at this point

Section 2 Reporting of Exploration Results

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

Criteria	JORC Code explanation	Commentary
Mineral tenement and land tenure status	*Type, reference name/number, location and ownership including agreements or material issues with third parties such as joint ventures, partnerships, overriding royalties, native title interests, historical sites, wilderness or national park and environmental settings.* *The security of the tenure held at the time of reporting along with any known impediments to obtaining a licence to operate in the area.*	On 27 September 2022, Chilwa Minerals Africa Limited (Chilwa) was granted Exploration Licence EL 0670/2 allowing them to explore for HMS deposits (and other minerals) over an area of 865.896km^2. The licence is valid for three years, with an option to extend the term in accordance with Section 119 of the (Malawian) Mines and Minerals Act (Act number 8 of 2019). Chilwa engaged Savjani and Company (Savjani), a Malawian legal firm, who have their chambers in Blantyre, Malawi, to review the tenement status. AMC has had sight of the legal opinion as provided by Savjani, who noted that the ELs are in good standing and that there are no known impediments to operate in the area.
Exploration done by other parties	*Acknowledgment and appraisal of exploration by other parties.*	Academic research into the deposition of the HMS deposits around Lake Chilwa have been undertaken since the 1980's. Exploration of the HMS mineralisation in the lake Chilwa area has been undertaken by various

Criteria	JORC Code explanation	Commentary
		government concerns and companies, commencing with Claus Brinkmann between 1991 and 1993 as part of an initiative by the German Government to aid mineral development in Malawi. Millennium Mining Limited (MML) concluded exploration work in the area, focusing on the northern deposits of Halala and Namanja during the early 2000s. In 2014, Tate Minerals (Tate) undertook a desktop review of the work undertaken by Claus Brinkmann and entered into a Joint Venture agreement with Mota-Engil Investments (Malawi) Limited (MEIML) to explore EL 0572/20, an EL that contains the current target area. In August 2015, MEIML commenced a drilling programme on the Mpyupyu, Halala, Mposa, and Bimbi targets. This work was completed in November 2015. Systematic exploration for REE mineralisation and Carbonatites has not been undertaken within the tenement, however, has been conducted in the immediate regional area (eg Tundulu and Songwe hills).
Geology	*Deposit type, geological setting and style of mineralisation.*	Potential REE mineralisation within and beneath previously identified Heavy Mineral Sands deposits. As well as potential separate REE deposits within or resulting from Alkaline magmatic activity (Carbonatites) in the area, a component of the Cretaceous age Chilwa Alkaline province.
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* – *downhole 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*	No drilling assay results reported in this announcement A full table of soil and rock-chip sampling results are provided in Appendices. Details of the physicals for the drill core pictured in Figure 2 are also provided in appendices, will complete reporting on this drill hole, following receipt of assays to follow in a subsequent announcement.

Criteria	JORC Code explanation	Commentary
	the report, the Competent Person should clearly explain why this is the case.	
Data aggregation methods	*In reporting Exploration Results, weighting averaging techniques, maximum and/or minimum grade truncations (eg cutting of high grades) and cut-off grades are usually Material and should be stated.* *Where aggregate intercepts incorporate short lengths of high-grade results and longer lengths of low-grade results, the procedure used for such aggregation should be stated and some typical examples of such aggregations should be shown in detail.* *The assumptions used for any reporting of metal equivalent values should be clearly stated.*	No drilling assay results reported in this announcement
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').*	No intercept or mineralisation widths discussed in these results.
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.*	Maps, sections and plan view are provided in the accompanying press release.
Balanced reporting	*Where comprehensive reporting of all Exploration Results is not practicable, representative reporting of both low and high grades and/or widths should be practiced to avoid misleading reporting of Exploration Results.*	All relevant information has been included in this press release and is considered to represent a balanced report.
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.*	See previous Company announcements for further reference.
Further work	*The nature and scale of planned further work (eg tests for lateral extensions or depth extensions or large-scale step-out drilling).*	Planned further work recommendations include, and are not limited to:

Criteria	JORC Code explanation	Commentary
	Diagrams clearly highlighting the areas of possible extensions, including the main geological interpretations and future drilling areas, provided this information is not commercially sensitive.	Further soil geochemistry. Diamond Drilling of geophysics and soil geochemistry anomalies. Field mapping including rock chip sampling.

Appendix 4,

All intervals with observed Carbonate veining in drill core.

METER INTERVAL		VEINING	VEINS/M	DENSITY/ INTENSITY *	VEIN THICKNESS (MM)
FROM	TO				
74.6	74.8	Carbonate			
82.2	90.6	Carbonate	1	2	2
90.6	94.9	Carbonate	1	2	3
94.9	113.1	Carbonate	1	2	3
113.1	116.73	Carbonate	8	1	3
116.73	116.93	Carbonate			
116.93	119.2	Carbonate	8	1	3
119.2	121.44	Carbonate	20	1	3
121.44	122.2	Carbonate	10	1	3
122.2	122.7	Carbonate			

*Where 1 represents veinlets (<cm) only; 2 represents approximate Veins (>cm) or many veinlets, and 3 represents Large Veins or Hydrothermal Breccias.

Appendix 5,

Information relevant to drill holes for the Diamond REE program.

WGS 84 / UTM zone 36S						
DRILL HOLE	EASTING	NORTHING	Z VALUE	DIP	AZIMUTH	DEPTH
MPOSD001	769964	8317506	727	-50	217	122