# AuKing to Acquire Machinga Heavy Rare Earths Project, Malawi

## Highlights

- AuKing to acquire 100% of the Machinga Heavy Rare Earths Project in south-eastern Malawi, **located 40km east of Lindian Resources' Kangankunde Project,** comprising 200.4km$^2$ across two exploration licences in an emerging rare earths district.
- **Exceptional heavy rare earth enrichment** - Machinga hosts an average HREO content of approximately **28–30%,** comparable to or exceeding many ionic clay deposits, while delivering hard-rock grades of approximately 0.6–1.4% TREO—more than **10 times higher** than the typical ~0.05–0.08% TREO grades mined from ionic clay deposits.
- Historical drilling returned multiple high-grade rare earth intercepts, including[1]:
  - **MDD007 — 15.1m @ 1.01% TREO**, 0.36% $Nb_2O_5$, **27.70% HREO from 23.9m (3.71% Dy+Tb/TREO)**
    **Including — 4m @ 1.75% TREO**, 0.63% $Nb_2O_5$, **28.25% HREO from 33m (3.8% Dy+Tb/TREO)**
  - **MDD008 — 9m @ 1.11% TREO**, 0.41% $Nb_2O_5$, **27.58% HREO from 41m (3.72% Dy+Tb/TREO)**
    **Including — 3m @ 1.56% TREO**, 0.49% $Nb_2O_5$, **30.98% HREO from 45m (4.1% Dy+Tb/TREO)**
  - **MDD006 — 9m @ 0.70% TREO**, 0.30% $Nb_2O_5$, **28.53% HREO from 3m (3.84% Dy+Tb/TREO)**
    **And — 5.2m @ 1.61% TREO**, 0.66% $Nb_2O_5$, **30.66% HREO from 41.4m (3.99% Dy+Tb/TREO)**
  - **MR011 — 7m @ 1.42% TREO**, 0.49% $Nb_2O_5$, **28.99% HREO from 65m (3.8% Dy+Tb/TREO)**
  - **MR024 — 11m @ 0.74% TREO**, 0.29% $Nb_2O_5$, **27.73% HREO from surface (3.8% Dy+Tb/TREO)**
    **Including — 2m @ 1.36% TREO**, 0.49% $Nb_2O_5$, **29.04% HREO from 6m (4% Dy+Tb/TREO)**
  - **MR005 — 16m @ 1.01% TREO**, 0.36% $Nb_2O_5$, **28.22% HREO from 78m (3.6% Dy+Tb/TREO)**
  - **MR019 — 13m @ 0.65% TREO**, 0.25% $Nb_2O_5$, **25.21% HREO from surface (3.63% Dy+Tb/TREO)**
- Machinga is hosted in an analagous peralkaline igneous system as Bokan-Dotson Ridge (Alaska), a globally significant heavy rare earth deposit. While the Bokan-Dotson Ridge deposit (5.15Mt @ 0.58% TREO, ~22% TREO/HREO[2]) is proposed to be mined underground, Machinga's mineralisation is exposed from surface and demonstrates strong potential for lower-cost open-pit mining. The opportunity **to recover niobium as a valuable by-product, further enhances Machinga's strategic importance and rarity.**
- Compelling valuation benchmark – Ucore Rare Metals, owner of the Bokan-Dotson Ridge heavy rare earth project and listed on the TSX-V (UCU.V), currently has a market capitalisation of approximately A$320 million. By comparison, AuKing currently trades at a substantially lower valuation, providing scope for meaningful valuation uplift as Machinga advances through exploration, resource definition and development studies.[3]

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[1] *Diamond and RC drilling programs conducted by DY6 Metals Ltd (now Tusker Minerals Limited – ASX:TSK) with results reported to ASX on 3 October, 26 October and 29 December 2023. (Refer cautionary statement on page 9 of this Release regarding these historical drilling results).*

[2] *Ucore Rare Metals Inc. press release dated April 14, 2026*

[3] *See note on page 9 in relation to comparable project statements*

- With historical near-surface mineralisation, strong heavy rare earth enrichment and numerous untested targets, Machinga presents a compelling opportunity for a large-scale, shallow mining development in Malawi, a proven and cost-competitive mining jurisdiction.
- AuKing is fully-funded to bring exploration immediately to Machinga, while also advancing its Tundulu rare earths project in the same region of southern Malawi.

**AuKing's Managing Director Paul Williams** *said: "The proposed acquisition of the Machinga Heavy Rare Earths Project represents another important step in AuKing's strategy to build a portfolio of high-quality critical minerals projects in Malawi.*

*"Historical exploration, together with the more recent work undertaken by DY6 Metals/Tusker Minerals, has confirmed Machinga as a highly prospective heavy rare earth and niobium project. With near-surface HREO% results from that 2023 drilling reported in the order of 30% and bearing the similar peralkaline geology, Machinga has the potential to become comparable to the large Strange Lake and Bokan Mountain REE deposits in North America. Covering more than 200km$^2$, Machinga has potential to become a district-scale rare earths project and is easily accessible by road just north of the city of Zomba in southern Malawi. AuKing intends to commence exploration activities immediately following completion of the acquisition."*

**AuKing Mining Limited (ASX: AKN) ("AuKing" or "the Company")** is pleased to announce that it has agreed to acquire a 100% interest in the Machinga Heavy Rare Earth Elements (HREE) Project in southern Malawi (Proposed Acquisition). The acquisition of Machinga provides AuKing with an additional high-quality rare earth project in Malawi at a time when heavy rare earths, particularly dysprosium and terbium, are attracting increasing strategic interest in the United States and globally amid efforts to strengthen resilient, diversified supply chains for critical minerals.

## Machinga Project Overview

The Machinga HREE Project comprises two exploration licences (EL 0529 and EL 0705) covering approximately 200.4km$^2$ in southern Malawi. The project is located approximately 20km north of the city of Zomba and is readily accessible via the main north-south highway connecting Zomba and Lilongwe.

Machinga is situated within the Mesozoic Chilwa Alkaline Province, a well-recognised rare earth mineral province that hosts several significant rare earth projects, including Lindian Resources' Kangankunde Project and Mkango Minerals' Songwe Hill Project. The project area is positioned along the north-eastern margin of the Zomba-Malosa intrusive complex, where alkaline intrusive rocks have generated favourable geological conditions for rare earth element mineralisation.

The Chilwa Alkaline Province comprises a series of alkaline intrusive complexes, including nepheline syenites, syenites and alkaline granites, which occur in ring-shaped intrusive bodies typically ranging from approximately 5km to 10km in diameter. These geological settings are recognised globally as favourable hosts for rare earth element mineralisation.

The Machinga Project is located along the north-eastern edge of the Zomba-Malosa pluton, which intruded the Precambrian basement gneiss. The intrusive complex comprises a range of syenitic lithologies,

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including quartz syenite grading into alkaline granite along its eastern margin.

Mineralisation at Machinga has been defined over a strike length of 2 km and comprises **niobium**, **tantalum**, **zirconium**, **uranium** and **rare earth element (REE)** anomalies. REE mineralisation is hosted within eudialyte, a zirconosilicate mineral characteristically associated with peralkaline magmatic complexes such as those within the Zomba-Malosa pluton and the surrounding Chilwa Alkaline Province. Eudialyte is commonly enriched in zirconium and hafnium and is also recognised as an important source of neodymium and heavy rare earth elements (gadolinium to lutetium). This peralkaline geological setting is very similar to the well-known HREE deposits in North America Strange Lake (in northern Quebec) and Bokan Mountain (in south-eastern Alaska).

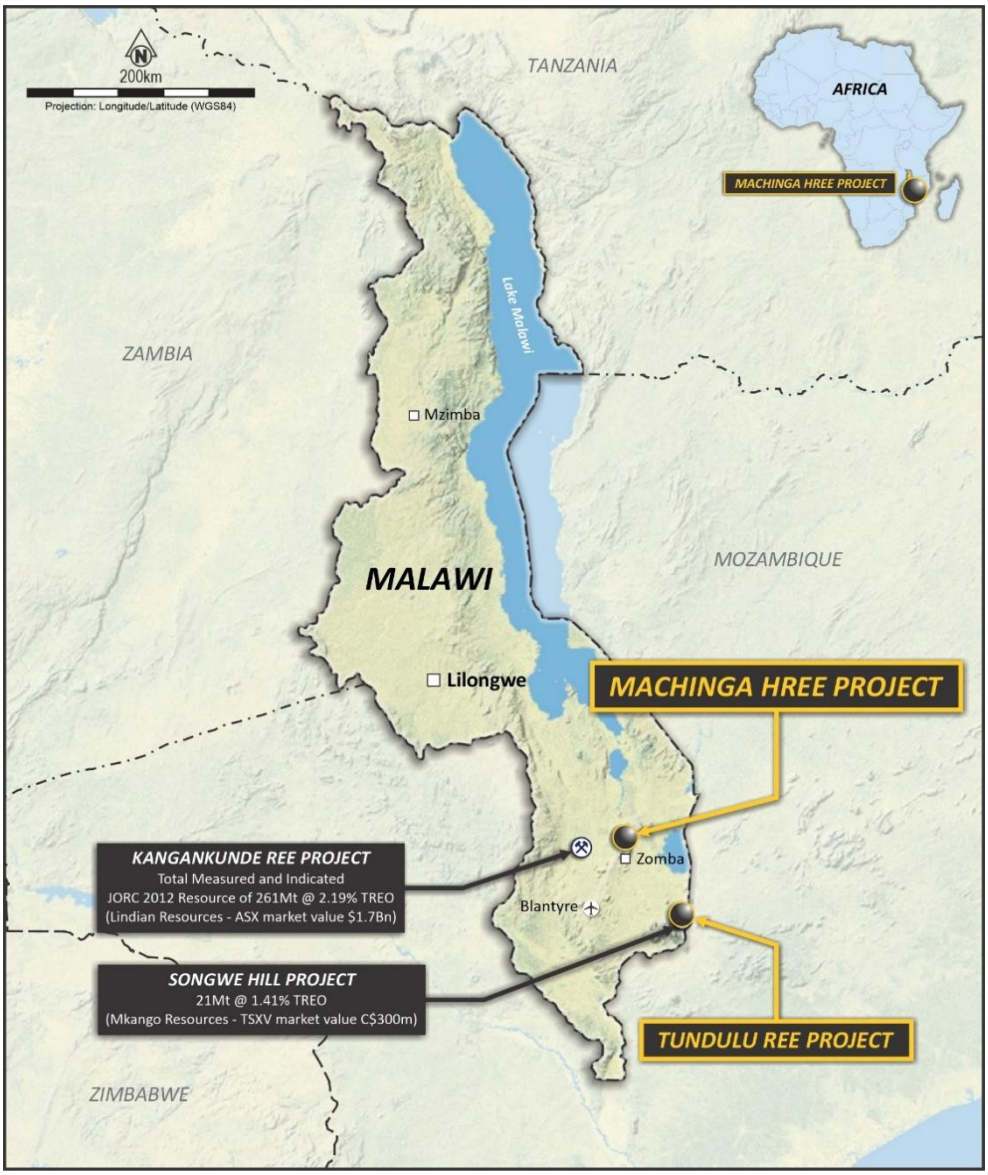



*Figure 1 – Machinga Project location*

*(Note references in this Figure to resource estimates as published by Lindian Resources (ASX:LIN on 2 May 2024 and Mkango Resources Ltd (AIM/TSXV:MKA) on 4 February 2019)*

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## Exploration History

Throughout the 1950s to 1970s, a series of geophysical, geochemical and (to a lesser extent) drilling campaigns were undertaken by groups from the Geological Survey of Great Britain and other government organisations in the pre-independence era. The work focused on three outcropping pegmatites located near radiometric anomalies found in the basement gneisses. The anomalies detected through the early geophysical surveys were noted to underly fine-grained epidotised rocks, their pegmatite equivalents, and an alkaline granite ring dyke. The early drillholes were analysed by geologists on behalf of the Atomic Energy Division of the Geological Society of Britain and were found to intersect radioactive granites and pegmatite veins. Much of the data and records from the early surveys of the project area are unavailable.

In 1986, the United Nations Development Program sponsored an airborne magnetic and radiometric survey undertaken by Huntington Geology and Geophysics Limited. Interpretation was completed by Paterson, Grant & Watson Limited in 1987. The survey identified numerous uranium anomalies across the Zomba region, and (as can be seen in Figure 2 below) identifies anomalies in the Machinga area which have formed the basis of exploration activities since that time.

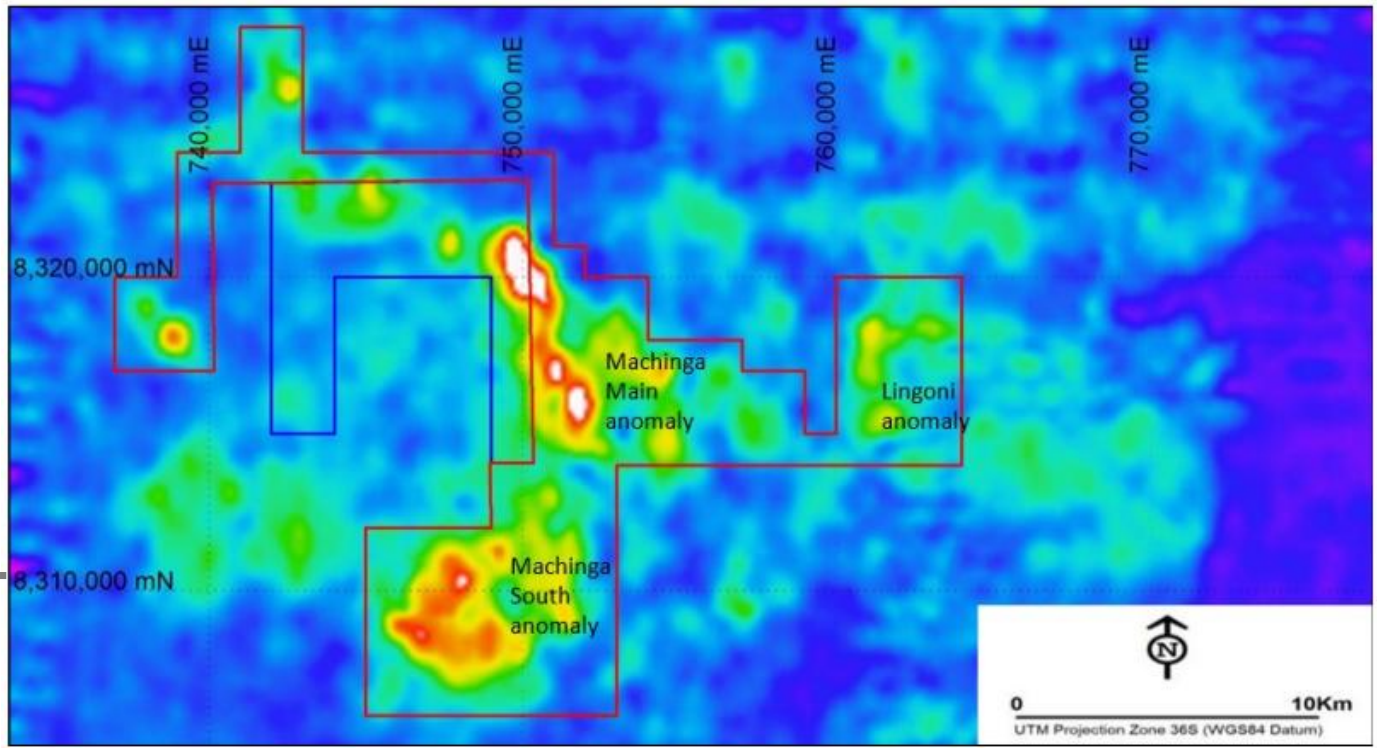



*Figure 2 – Historical uranium anomaly map covering the Machinga Project licence areas (Source: CSA Global Independent Technical Assessment Report p34, included in DY6 Metals dated 3 April 2023.)*

A summary of the more recent exploration activities conducted at Machinga (and generally, focussed on the northern section of the Main Machinga Anomaly) includes the following:

- In 2009 Resource Star Limited (RSL) completed an orientation soil sampling program over the Machinga Main Anomaly, 149 samples were collected.
- Globe Metals and Mining Ltd (ASX: GBE) undertook a trenching program 1,635m in total length which yielded 281 samples.
- GBE also completed two RC drilling programs in 2010-12 comprising 36 RC holes for 4,045 metres. (See Appendix D)
- DY6/Tusker undertook a combined RC and diamond drilling program in late 2023. A total of 35 RC holes

(MR001 – 035) were drilled for 3,543 metres and 8 diamond drill holes (MDD001 – 008) were completed for 900 metres. (See Appendix C)

- DY6/Tusker have also completed several programs of rock chip and soil sampling which continue to highlight areas of interest. (See Appendices E and F)

The recent exploration activities of DY6/Tusker will form the basis of AuKing's exploration planning if the Machinga acquisition proceeds and accordingly, the highlights from TSK's activities are as follows:

## 2023 RC/Diamond Drilling

The initial focus of DY6 with this maiden drilling program was to test the known strike of the confirmed historic drill results in the northern anomalous zone at Machinga. Results from the program confirmed a strong mineralised hydrothermal breccia system striking NW-SE and dipping shallowly ~ 35 degrees to the north-east. Very high-grade zones were intersected from the diamond drill holes, as well as the suggestion of the mineralised zones thickening at depth and continuous into the other licence area to the north-east of the drilling. Significant intercepts (see ASX announcement dated 29 December 2023) included:

- **MDD007 — 15.1m @ 1.01% TREO**, 0.36% $Nb_2O_5$, 27.70% HREO from 23.9m (3.71% Dy+Tb/TREO)
  **Including — 4m @ 1.75% TREO**, 0.63% $Nb_2O_5$, 28.25% HREO from 33m (3.8% Dy+Tb/TREO)

- **MDD006 — 9m @ 0.70% TREO**, 0.30% $Nb_2O_5$, 28.53% HREO from 3m (3.84% Dy+Tb/TREO)
  **Including — 2m @ 1.20% TREO**, 0.58% $Nb_2O_5$, 23.24% HREO from 6m (3.64% Dy+Tb/TREO)
  **Also — 5.2m @ 1.61% TREO**, 0.66% $Nb_2O_5$, 30.66% HREO from 41.4m (3.99% Dy+Tb/TREO)
  **Including — 1m @ 2.67% TREO**, 1.01% $Nb_2O_5$, 29.21% HREO from 44m (3.9% Dy+Tb/TREO)

- **MR004 — 6.1m @ 1.09% TREO**, 0.4% $Nb_2O_5$ from 22.5m (3.78% Dy+Tb/TREO)

- **MDD008 — 9m @ 1.11% TREO**, 0.41% $Nb_2O_5$, 27.58% HREO from 41m (3.72% Dy+Tb/TREO)
  **Including — 3m @ 1.56% TREO**, 0.49% $Nb_2O_5$, 30.98% HREO from 45m (4.1% Dy+Tb/TREO)

*(Results returned an average of 29% HREO:TREO and 3.6% DyTb:TREO at a cutoff grade of >0.25% TREO)*

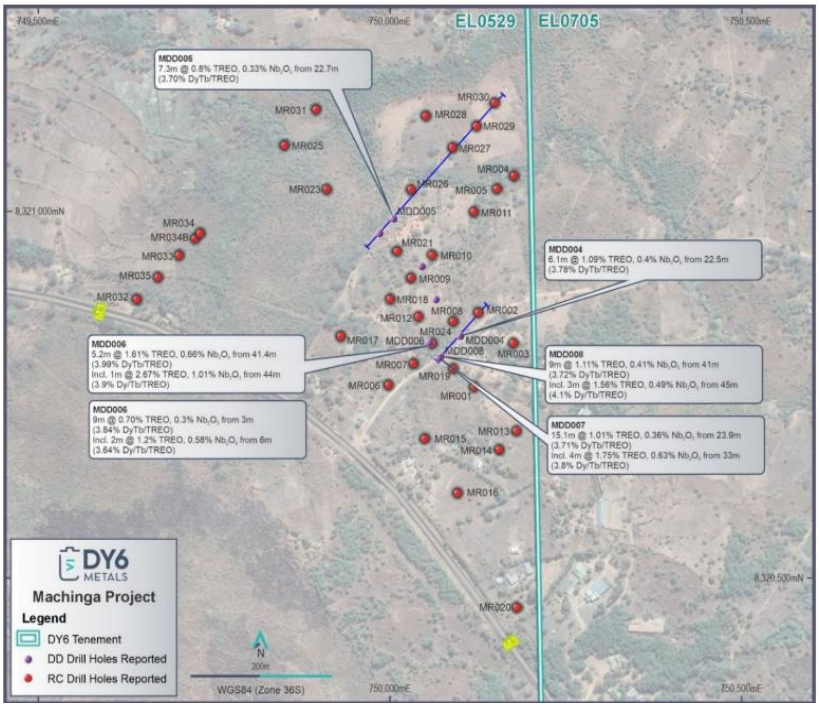



*Figure 3 – Historical DY6 drill hole collar locations at the Machinga North Prospect*

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The diamond drilling program consisted of five holes drilled to depths of ~150m and three holes drilled to depths of 50m. The program was designed to determine the structural setting and geology of the Machinga deposit, obtain material for mineralogical investigations and commence preliminary metallurgical test work. Mineralogical analysis of the 15.1m intersection in drill hole MDD007 identified a high proportion of heavy rare earth oxides (HREO) at 27.7% HREO/TREO and 3.7% Dy+Tb/TREO, together with 15.2% NdPr oxide.

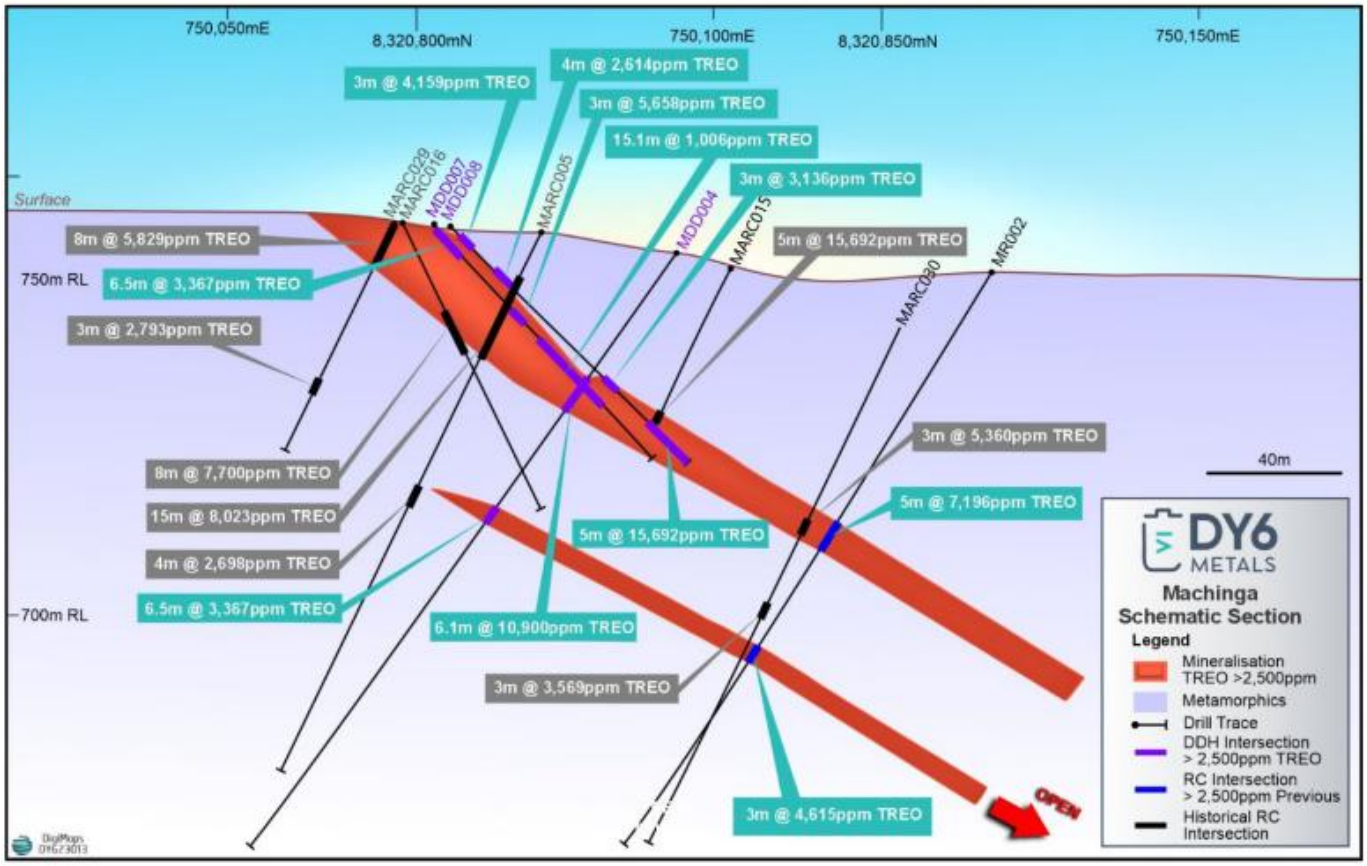



*Figure 4 – Drill section showing historical DY6 Metals diamond drill holes MDD004, MDD007, MDD008, RC hole MR002 (reported to ASX on 23 January 2024), and historical GBE drill holes MARC005, MARC015, MARC016, MARC029 and MARC030.*

*( Full details of the historical DY6 and GBE drillhole details are provided in Appendices C and D)*

## 2024/25 Rock Chip and Soil Sampling

In early 2024 DY6 conducted a comprehensive geochemical sampling program over the Machinga licences, initially targeting the western side of the maiden drilling areas in EL0529 before moving to the anomalous soil responses in the southern region of the main Machinga prospect in EL0705. Significant rock chip samples assay results included:

- **2.26% TREO**, 0.19% $Nb_2O_5$ (MEX061)
- **1.60% TREO**, 0.60% $Nb_2O_5$ (MEX098)
- **3.22% TREO**, 0.75% $Nb_2O_5$ (MEX141)
- **1.00% TREO**, 0.11% $Nb_2O_5$ (MEX270)

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- **1.16% TREO**, 0.41% $Nb_2O_5$ (MEX510)

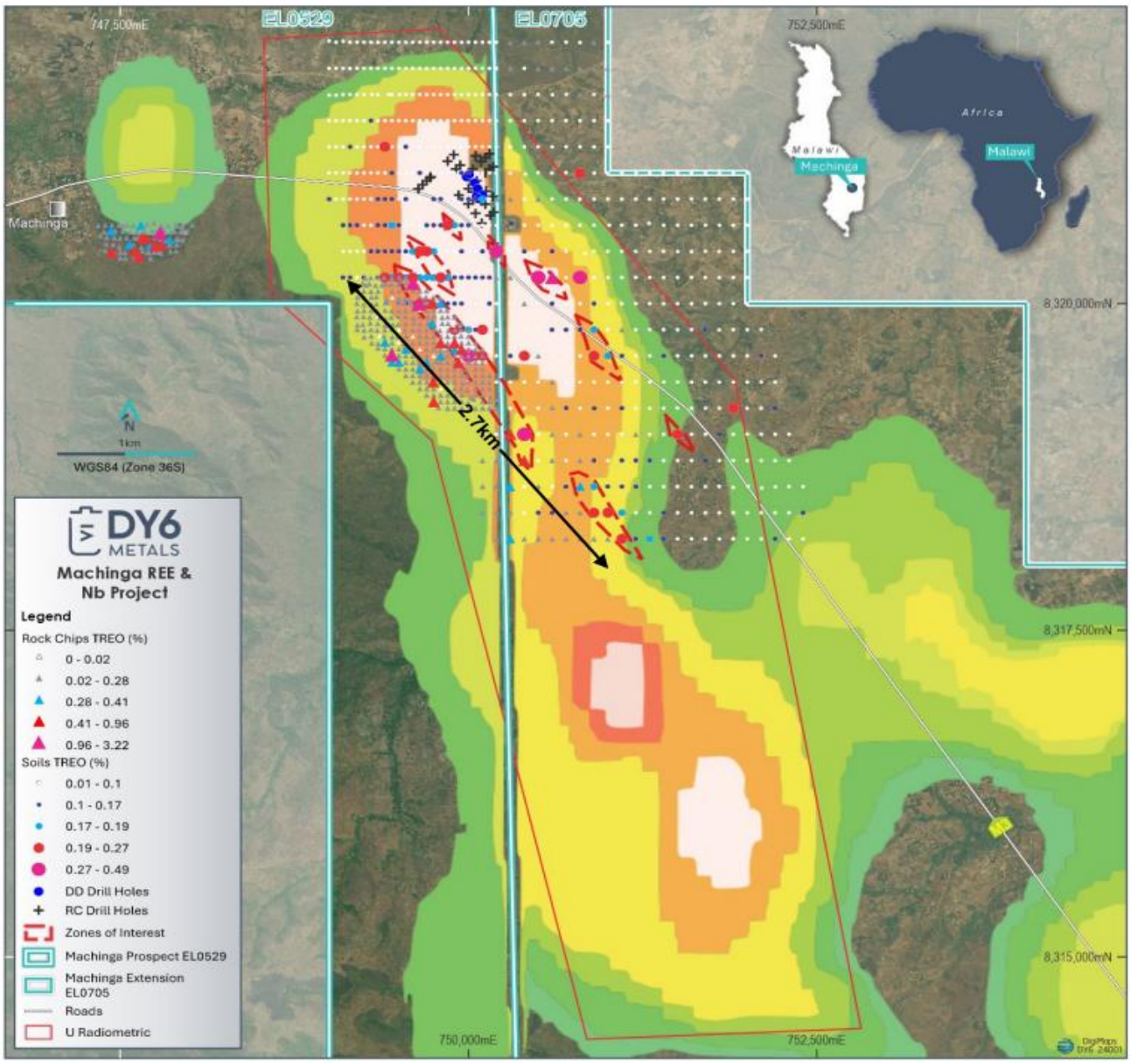



*Figure 5 – Historical soil and rock chip TREO (%) results across the Machinga Project, showing historical uranium radiometric anomalies and DY6 drill hole locations.*

DY6 reported that the results indicate multiple parallel zones consistent with the drilling results (Figure 5). The area of drilling and to the southeast tend to show patchy results due to extensive soil cover derived from up slope to the west, but clearly anomalism is not being dispersed. The two western anomalies where sample density is higher show a much more continuous character of greater TREO results, highlighting the scale potential of REE mineralisation in this area of the licence. This zone was only partially tested by the first phase of drilling as no drilling was completed west of the main road.

Previous drilling primarily focused on the north-east region of Machinga main northern anomaly near the licence border and where GBE initially explored. These rock chip results indicated significant potential exists for further drilling to the west and south of the initial focus of drilling activity within the large 2.7km long soil NW to SE oriented geochemical anomaly (Figure 5).

On 19 December 2025, TSK announced the results of a follow-up soil and rock chip sampling program designed to test the continuity of mineralisation southeast of the previous drilling and soil/rock chip

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sampling programs. A total of 116 samples, comprising 77 rock chips samples and 39 soil samples collected on a 400m by 200m grid spacing, returned strong gallium results together with encouraging REE and niobium values, supporting further exploration across this area.

## Next Steps

Applying modern exploration techniques, AuKing intends to commence exploration activities as soon as soon as practicable following completion of the acquisition. Initial work will focus on integrating the extensive historical drilling, geochemical and radiometric datasets with modern airborne (drone-based) magnetic and LiDAR surveys to refine the structural controls on mineralisation and identify priority drill targets across the project.

The initial exploration program is expected to focus on extending known mineralisation along strike and at depth, together with testing several large radiometric anomalies that remain largely unexplored. Particular emphasis will be placed on evaluating the western and southern extensions to the historically drilled Machinga North Prospect, where historical drilling and recent rock chip and soil sampling have highlighted significant exploration potential.

## Transaction Structure

The Proposed Acquisition comprises the following staged consideration:

### Exclusivity Payment

A non-refundable A$5,000 cash payment (already paid) to secure a 40-day exclusivity period, during which:

a) AuKing has completed satisfactory legal and technical due diligence;

b) AuKing and TSK having obtained ASX clearance under Chapter 11 of the ASX Listing Rules; and

c) Binding transaction documentation has been finalised and signed by the parties.

Each of the actions in (a), (b), and (c) above have now been completed.

### On Completion

A$750,000 cash and:

a) A$750,000 in fully paid ordinary AKN shares (30,000,000 shares) issued (subject to voluntary restriction as set out below) at an issue price of $0.025 per share;

b) A$1,250,000 in performance shares, subject to milestone-based consideration set out below. A total of 50,000,000 performance shares will be issued at a price of $0.025 per security.

Each of the shares listed above will be issued by the Company pursuant to its existing capacity under ASX Listing Rule 7.1.

TSK will agree to voluntarily escrow the shares in para (a) above for a 12-month period, pursuant to a suitable deed to that effect.

On or before 12 months after Completion, AuKing will pay a further A$1,250,000 cash to TSK.

The performance shares will convert into fully paid ordinary shares upon satisfaction of a defined performance milestone (Performance Hurdle), being the reporting of a JORC-compliant Mineral Resource of at least 10Mt at 0.65% TREO at the Machinga Project within three (3) years from the issue of the

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performance shares.

The performance shares shall be satisfied by AuKing issuing that number of ordinary shares at the 90-day VWAP as at the date of satisfaction of the Performance Hurdle subject to a maximum of 1 ordinary share for each performance share. In other words, each performance share will convert based on the formula $0.025/(90-day VWAP) subject to a maximum conversion rate of 1 ordinary share for each performance share.

Completion of the Proposed Acquisition is subject to approval for the transfer of the Machinga licences to AuKing's nominated Malawi subsidiary by the Mining and Minerals Regulatory Authority (MMRA) in accordance with the Malawi Mines and Minerals Act 2023.

## Cautionary Statement Regarding Historical Exploration Results

The historical exploration referred to in this release was prepared and reported in accordance with the JORC Code 2012. A Competent Person completed sufficient work to disclose the exploration results in accordance with the JORC Code 2012.

It is possible that, following further evaluation and/or exploration work, confidence in the historical results may be reduced.

Nothing has come to the attention of AuKing that causes it to question the accuracy or reliability of the former owners' exploration results. However, AuKing has not independently validated those exploration results and therefore does not adopt, endorse or report them as JORC 2012 compliant.

## Note – Proximate Statements

This announcement contains references to REE Projects derived by other parties either nearby or proximate to or in similar geological settings to the Machinga Project. It is important to note that such discoveries or geological similarities do not in any way guarantee that the Company will have any success or similar successes in delineating a JORC compliant Mineral Resource on the Machinga Project, if at all.

## AuKing's Diversified Exploration Portfolio

The proposed Machinga acquisition is consistent with AuKing's strategy of building a portfolio of high-quality exploration projects focused on critical and other commodities. Upon completion of the acquisition, the Company's portfolio will include:

- Tundulu Rare Earths Project, southern Malawi;
- Koongie Park Copper-Zinc-Silver Project, Western Australia (49% joint venture with Cobalt Blue Holdings Ltd);
- Mkuju Uranium Project, southern Tanzania; and
- Big Wilson Tin-Tungsten Project, north-western Tasmania.

AuKing intends to continue advancing exploration activities across its portfolio, with an immediate focus on progressing its rare earths projects in Malawi while continuing to evaluate and advance opportunities across its uranium, base metals and tin assets.

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## ASX Disclosure Regarding Historical Exploration Results

This ASX release contains information derived from public disclosures of former owners and explorers of the Machinga project area. In accordance with ASX disclosure requirements the following additional matters need to be noted:

- The historical exploration results reported in this release were made by companies other than AuKing, including DY6 Metals Ltd/Tusker Minerals Ltd (TSK) and Globe Metals and Mining Limited (GBE), which are both listed on the ASX;
- Copies of the historical exploration results are available as publicly available reports on the ASX platform;
- AuKing's Competent Person believes that, due to these historical exploration results relating to early-stage activities and being confirmed by competent technical persons from the respective companies, it is reasonable to rely on these results in the manner presented in this release;
- AuKing intends (from now on) to report its own exploration results after the conduct of planned activities in accordance with the JORC Code 2012, utilising the historical exploration results as a general background rather than the basis for future reporting;
- Details of the proposed future exploration activities that need to be completed before exploration results can be reported in accordance with the JORC Code 2012 comprise mostly AuKing's initial drilling program, intended to commence as soon as possible after completion of the Proposed Transaction – proposed for later in 2026, subject to drilling rig availability and weather conditions;
- Funding of the exploration activities will be from AuKing's existing cash reserves;
- A statement by Ian Hodkinson, Competent Person, is set out below;
- A cautionary statement in relation to the historical exploration results included in this release is set out above; and
- AuKing has no other reason to suspect that the historical exploration results as reported in this release are misleading.

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Approved by the Board of AuKing Mining Limited.

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## Abbreviations

- TREO = Total Rare Earth Oxides – $La_2O_3$, $CeO_2$, $Pr_6O_{11}$, $Nd_2O_3$, $Sm_2O_3$, $Eu_2O_3$, $Gd_2O_3$, $Tb_4O_7$, $Dy_2O_3$, $Ho_2O_3$, $Er_2O_3$, $Tm_2O_3$, $Yb_2O_3$, $Lu_2O_3$, $Y_2O_3$ ($Pm_2O_3$ excluded by tradition)
- HREO = Heavy Rare Earth Oxides – $Tb_4O_7$, $Dy_2O_3$, $Ho_2O_3$, $Er_2O_3$, $Tm_2O_3$, $Yb_2O_3$, $Lu_2O_3$, $Y_2O_3$
- HREO% = HREO/TREO x 100
- MREE = Nd, Pr, Dy, Tb
- NDPR% = (Nd + Pr)/TREO

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## Competent Persons' Statement

The information in this report that relates to historical exploration results at the Machinga Heavy Rare Earths Project is based on information reviewed by Mr Ian Hodkinson who is a member of the Australian Institute of Geoscientists. Mr Hodkinson is a consultant to AuKing Mining Limited and has sufficient experience which is relevant to the style of mineralisation and type of deposit under consideration and to the activity which they are undertaking 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 Hodkinson consents to the inclusion in the report of the matters based on his information in the form and context in which it appears.

## APPENDIX A – DY6 2023 drill collar locations

| Hole Id | Easting | Northing | Elevation | Azimuth | Dip | Total Depth |
|---|---|---|---|---|---|---|
| MR001 | 750120.3 | 8320756.9 | 761.7 | 214.3 | -60.0 | 120 |
| MR002 | 750128.0 | 8320862.7 | 751.4 | 217.4 | -60.0 | 120 |
| MR003 | 750173.6 | 8320819.7 | 756.1 | 222.6 | -60.0 | 120 |
| MR004 | 750179.6 | 8321045.6 | 739.1 | 228.1 | -60.0 | 120 |
| MR005 | 750151.7 | 8321030.3 | 739.8 | 221.5 | -60.0 | 120 |
| MR006 | 749997.2 | 8320760.5 | 764.5 | 228.0 | -60.0 | 120 |
| MR007 | 750031.5 | 8320791.8 | 759.8 | 228.2 | -60.0 | 120 |
| MR008 | 750083.3 | 8320853.2 | 751.8 | 230.1 | -60.0 | 120 |
| MR009 | 750033.9 | 8320909.0 | 754.0 | 225.7 | -60.0 | 120 |
| MR010 | 750061.4 | 8320940.6 | 750.8 | 225.7 | -60.0 | 120 |
| MR011 | 750116.8 | 8320995.6 | 744.3 | 223.9 | -60.0 | 120 |
| MR012 | 750041.4 | 8320854.4 | 755.2 | 224.3 | -60.0 | 80 |
| MR013 | 750182.5 | 8320702.3 | 764.6 | 223.9 | -60.0 | 120 |
| MR014 | 750144.6 | 8320683.0 | 768.8 | 226.7 | -60.0 | 120 |
| MR015 | 750044.3 | 8320684.8 | 768.1 | 227.7 | -60.0 | 120 |
| MR016 | 750096.3 | 8320612.6 | 771.6 | 225.7 | -60.0 | 120 |
| MR017 | 749918.6 | 8320827.1 | 764.4 | 215.3 | -60.0 | 82.27 |
| MR018 | 749982.0 | 8320880.1 | 760.9 | 227.4 | -60.0 | 120 |
| MR019 | 750088.5 | 8320786.7 | 759.1 | 217.7 | -60.0 | 80 |
| MR020 | 750177.5 | 8320462.6 | 765.0 | 233.6 | -60.0 | 120 |
| MR021 | 750007.7 | 8320938.0 | 754.2 | 228.6 | -60.0 | 80 |
| MR022 | 749939.5 | 8321059.3 | 743.9 | 221.6 | -60.0 | 120 |
| MR023 | 749905.8 | 8321021.2 | 751.1 | 223.3 | -60.0 | 112 |
| MR024 | 750056.1 | 8320825.6 | 756.2 | 224.4 | -60.0 | 120 |
| MR025 | 749834.1 | 8321078.0 | 742.0 | 226.2 | -60.0 | 40 |
| MR026 | 750051.6 | 8321014.4 | 745.6 | 221.6 | -60.0 | 104 |
| MR027 | 750087.2 | 8321088.3 | 743.3 | 225.6 | -60.0 | 120 |
| MR028 | 750054.5 | 8321128.9 | 748.1 | 226.3 | -60.0 | 80 |
| MR029 | 750121.2 | 8321116.8 | 745.5 | 225.3 | -60.0 | 80 |
| MR030 | 750149.3 | 8321144.2 | 746.6 | 230.7 | -60.0 | 80 |
| MR031 | 749893.3 | 8321136.8 | 745.8 | 231.2 | -60.0 | 94 |
| MR032 | 749656.5 | 8320862.1 | 764.4 | 222.4 | -60.0 | 80 |
| MR033 | 749696.0 | 8320941.8 | 752.9 | 202.7 | -60.0 | 79 |
| MR034 | 749723.1 | 8320971.5 | 750.4 | 227.5 | -60.0 | 25 |
| MR034B | 749714.6 | 8320962.4 | 751.0 | 224.8 | -60.0 | 67 |
| MR035 | 749666.2 | 8320903.0 | 757.1 | 227.0 | -60.0 | 80 |

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## APPENDIX B – GBE 2010-2012 drill collar locations

| Hole ID | Depth (m) | Easting (m) | Northing (m) | RL (m) | Dip | Azimuth |
|---|---|---|---|---|---|---|
| MARC001 | 88 | 749985 | 8320958 | 753 | -55° | 270° |
| MARC002 | 142 | 750045 | 8320958 | 751 | -55° | 270° |
| MARC003 | 85 | 750061 | 8320878 | 753 | -55° | 270° |
| MARC004 | 141 | 750095 | 8320880 | 750 | -55° | 270° |
| MARC005 | 102 | 750096 | 8320799 | 757 | -55° | 270° |
| MARC006 | 121 | 750151 | 8320762 | 760 | -55° | 270° |
| MARC007 | 100 | 750341 | 8320460 | 756 | -55° | 270° |
| MARC008 | 103 | 749739 | 8320885 | 754 | -55° | 270° |
| MARC009 | 86 | 750106 | 8320799 | 757 | 90 | 000° |
| MARC010 | 129 | 749949 | 8320687 | 769 | -55° | 270° |
| MARC011 | 80 | 749996 | 8320556 | 777 | -55° | 270° |
| MARC012 | 100 | 750091 | 8320460 | 770 | -55° | 270° |
| MARC013 | 136 | 749718 | 8320652 | 787 | -55° | 090° |
| MARC014 | 100 | 751146 | 8319592 | 763 | -55° | 270° |
| MARC015 | 100 | 750095 | 8320839 | 752 | -55° | 270° |
| MARC016 | 75 | 750066 | 8320799 | 758 | -55° | 090° |
| MARC017 | 75 | 749926 | 8320460 | 787 | -55 | 270° |
| MARC018 | 102 | 750010 | 8320459 | 777 | -55 | 270° |
| MARC019 | 150 | 749934 | 8320617 | 776 | -55 | 270° |
| MARC020 | 156 | 749915 | 8320661 | 772 | -55 | 270° |
| MARC021 | 120 | 749812 | 8320656 | 774 | -55 | 270° |
| MARC022A | 124 | 749740 | 8320738 | 770 | -55 | 270° |
| MARC022 | 20 | 749740 | 8320738 | 770 | -55 | 270° |
| MARC023 | 130 | 750060 | 8320837 | 755 | -55 | 270° |
| MARC024 | 115 | 750022 | 8320877 | 756 | -55 | 270° |
| MARC025 | 142 | 750032 | 8320920 | 754 | -55 | 270° |
| MARC026 | 140 | 750087 | 8320962 | 748 | -55 | 270° |
| MARC027 | 141 | 749946 | 8321041 | 745 | -55 | 270° |
| MARC028 | 128 | 749986 | 8321005 | 748 | -55 | 270° |
| MARC029 | 124 | 750064 | 8320799 | 758 | -55 | 270° |
| MARC030 | 110 | 750141 | 8320838 | 754 | -55 | 270° |
| MARC031 | 120 | 750190 | 8320739 | 762 | -55 | 270° |
| MARC032 | 100 | 749701 | 8320879 | 760 | -55 | 270° |
| MARC033 | 100 | 749718 | 8320838 | 763 | -55 | 270° |
| MARC034 | 100 | 749881 | 8320744 | 767 | -55 | 270° |
| MARC035 | 80 | 749783 | 8320841 | 755 | -55 | 270° |
| MARC036 | 80 | 749780 | 8320879 | 754 | -55 | 270° |

**Grid is WGS 84, Zone 36S*

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## APPENDIX C – DY6 2023 significant drilling intersections (see DY6 ASX releases dated 3 and 10 October and 29 December 2023 for full assay details)

***[Note – results below are based on 2,500ppm TREO cutoff, minimum 3m width and maximum 2m internal dilution]***

| Hole ID | | From | To | Length | TREO | MREO | MREO/TREO | $La_2O_3$ | $CeO_2$ | $Pr_6O_{11}$ | $Nd_2O_3$ | $Tb_4O_7$ | $Dy_2O_3$ | $Lu_2O_3$ | $Y_2O_3$ | NB2O5 | Ta2O5 | $Nd_2O_3$+Pr6O11 | HREO |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| MR001 | | 0 | 3 | 3 | 3472 | 457 | 13% | 261 | 1438 | 77 | 239 | 16 | 124 | 16 | 818 | 1646 | 89 | 317 | 1239 |
| MR001 | | 7 | 10 | 3 | 5637 | 1118 | 20% | 698 | 2051 | 211 | 704 | 29 | 175 | 10 | 954 | 2102 | 106 | 914 | 1413 |
| | Including | 8 | 9 | 1 | 13059 | 2554 | 20% | 1599 | 4827 | 480 | 1592 | 67 | 415 | 25 | 2184 | 4990 | 267 | 2072 | 3273 |
| MR001 | | 46 | 50 | 4 | 2972 | 600 | 20% | 373 | 1062 | 114 | 384 | 14 | 87 | 5 | 516 | 985 | 43 | 499 | 741 |
| MR001 | | 81 | 85 | 4 | 5405 | 1040 | 19% | 682 | 1842 | 197 | 647 | 27 | 169 | 14 | 1033 | 2550 | 116 | 843 | 1509 |
| MR002 | | 44 | 49 | 5 | 7196 | 1331 | 18% | 923 | 2452 | 247 | 804 | 36 | 244 | 17 | 1396 | 2706 | 148 | 1051 | 2068 |
| | Including | 45 | 46 | 1 | 16533 | 2970 | 18% | 2068 | 5583 | 544 | 1769 | 82 | 575 | 45 | 3368 | 6437 | 378 | 2313 | 4990 |
| MR002 | | 66 | 69 | 3 | 4615 | 885 | 19% | 541 | 1563 | 168 | 554 | 22 | 142 | 9 | 969 | 1554 | 43 | 722 | 1349 |
| | Including | 66 | 67 | 1 | 10513 | 1993 | 19% | 1220 | 3541 | 379 | 1249 | 48 | 317 | 22 | 2276 | 3514 | 87 | 1628 | 3136 |
| MR003 | | 62 | 67 | 5 | 3728 | 722 | 19% | 500 | 1296 | 141 | 453 | 17 | 111 | 8 | 661 | 1468 | 62 | 594 | 964 |
| MR004 | | 96 | 101 | 5 | 2932 | 595 | 20% | 374 | 1009 | 114 | 374 | 15 | 92 | 5 | 520 | 927 | 38 | 488 | 757 |
| MR005 | | 78 | 94 | 16 | 5399 | 1015 | 19% | 707 | 1830 | 190 | 618 | 28 | 179 | 12 | 1029 | 2106 | 107 | 807 | 1512 |
| | Including | 87 | 90 | 3 | 16289 | 2996 | 18% | 2116 | 5480 | 556 | 1782 | 90 | 568 | 37 | 3190 | 6979 | 373 | 2338 | 4731 |
| MR006 | | 117 | 120 | 3 | 3293 | 618 | 19% | 415 | 1192 | 129 | 400 | 13 | 76 | 9 | 617 | 3235 | 150 | 529 | 861 |
| MR007 | | 0 | 7 | 7 | 2825 | 522 | 18% | 322 | 1050 | 100 | 326 | 14 | 83 | 6 | 544 | 1649 | 78 | 426 | 778 |
| MR007 | 3m Composite | 21 | 24 | 3 | 2782 | 516 | 19% | 361 | 958 | 98 | 319 | 14 | 86 | 7 | 530 | 1423 | 73 | 417 | 771 |
| MR008 | | 24 | 27 | 3 | 7189 | 1332 | 19% | 910 | 2443 | 246 | 806 | 40 | 240 | 16 | 1410 | 2340 | 117 | 1052 | 2079 |
| | including | 26 | 27 | 1 | 13901 | 2559 | 18% | 1761 | 4741 | 473 | 1542 | 77 | 467 | 30 | 2739 | 4288 | 220 | 2015 | 4028 |
| MR008 | | 107 | 112 | 5 | 3608 | 671 | 19% | 454 | 1298 | 129 | 423 | 16 | 103 | 9 | 658 | 1749 | 74 | 553 | 966 |
| MR009 | | 23 | 28 | 5 | 6175 | 1110 | 18% | 674 | 1917 | 202 | 666 | 31 | 210 | 22 | 1511 | 2385 | 122 | 869 | 2152 |
| MR010 | | 24 | 29 | 5 | 3568 | 681 | 19% | 453 | 1257 | 131 | 428 | 16 | 105 | 7 | 671 | 1234 | 57 | 559 | 951 |

| Hole ID | | From | To | Length | TREO | MREO | MREO/TREO | $La_2O_3$ | $CeO_2$ | $Pr_6O_{11}$ | $Nd_2O_3$ | $Tb_4O_7$ | $Dy_2O_3$ | $Lu_2O_3$ | $Y_2O_3$ | NB2O5 | Ta2O5 | $Nd_2O_3$+Pr6O11 | HREO |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| MR010 | | 40 | 43 | 3 | 6391 | 1262 | 20% | 748 | 2250 | 243 | 808 | 30 | 181 | 10 | 1253 | 2334 | 83 | 1051 | 1714 |
| MR010 | | 99 | 102 | 3 | 3251 | 623 | 19% | 391 | 1138 | 119 | 393 | 15 | 96 | 8 | 628 | 1404 | 58 | 512 | 895 |
| MR011 | | 65 | 72 | 7 | 14231 | 2631 | 18% | 1796 | 4807 | 490 | 1595 | 72 | 474 | 34 | 2835 | 4928 | 276 | 2085 | 4126 |
| | including | 66 | 71 | 5 | 16950 | 3107 | 18% | 2151 | 5715 | 579 | 1873 | 86 | 569 | 41 | 3392 | 5857 | 338 | 2452 | 4949 |

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| Hole ID | | From | To | Length | TREO | MREO | HREO/ TREO | $La_2O_3$ | $CeO_2$ | $Pr_6O_{11}$ | $Nd_2O_3$ | $Tb_4O_7$ | $Dy_2O_3$ | $Lu_2O_3$ | $Y_2O_3$ | $Nd_2O_3$+ $Pr_6O_{11}$ | HREO | $Nb_2O_5$ | $Ta_2O_5$ |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| MR012 | | 11 | 15 | 4 | 7328 | 1306 | 35% | 1130 | 2281 | 239 | 780 | 37 | 250 | 28 | 1769 | 1019 | 2542 | 2301 | 107 |
| | including | 14 | 15 | 1 | 10495 | 1892 | 31% | 1784 | 3444 | 356 | 1150 | 51 | 335 | 34 | 2250 | 1506 | 3261 | 3321 | 161 |
| | | | | | | | | | | | | | | | | | | | |
| **MR013** | | **41** | **44** | **3** | **11055** | **2085** | 29% | **1950** | **3750** | **387** | **1253** | **57** | **387** | **29** | **2112** | **1641** | **3167** | **5685** | **290** |
| | including | 42 | 44 | 2 | 13428 | 2550 | 28% | 2405 | 4587 | 472 | 1533 | 69 | 477 | 33 | 2515 | 2004 | 3773 | 7184 | 374 |
| | | | | | | | | | | | | | | | | | | | |
| MR013 | | 77 | 80 | 3 | 7482 | 1483 | 27% | 1344 | 2575 | 277 | 917 | 38 | 251 | 14 | 1358 | 1194 | 1983 | 2424 | 116 |
| | including | 77 | 78 | 1 | 18245 | 3557 | 28% | 3254 | 6136 | 654 | 2162 | 97 | 644 | 35 | 3476 | 2816 | 5090 | 6021 | 298 |
| | | | | | | | | | | | | | | | | | | | |
| MR014 | | 2 | 11 | 9 | 3206 | 621 | 26% | 522 | 1190 | 118 | 393 | 15 | 96 | 6 | 574 | 511 | 822 | 1141 | 44 |
| | | | | | | | | | | | | | | | | | | | |
| MR014 | | 54 | 57 | 3 | 2949 | 590 | 23% | 548 | 1090 | 116 | 382 | 13 | 80 | 5 | 464 | 497 | 668 | 1037 | 46 |
| | | | | | | | | | | | | | | | | | | | |
| MR015 | | 27 | 32 | 5 | 3152 | 622 | 25% | 517 | 1150 | 121 | 403 | 13 | 85 | 6 | 565 | 524 | 796 | 1461 | 56 |
| | | | | | | | | | | | | | | | | | | | |
| MR015 | | 76 | 79 | 3 | 3639 | 716 | 27% | 602 | 1261 | 135 | 455 | 18 | 109 | 9 | 683 | 590 | 986 | 1313 | 62 |
| | | | | | | | | | | | | | | | | | | | |
| MR015 | | 93 | 96 | 3 | 4780 | 912 | 28% | 778 | 1664 | 178 | 586 | 20 | 127 | 13 | 938 | 764 | 1323 | 2565 | 65 |
| | including | 93 | 94 | 1 | 11843 | 2252 | 28% | 1929 | 4119 | 442 | 1451 | 49 | 309 | 34 | 2338 | 1894 | 3274 | 6198 | 143 |
| | | | | | | | | | | | | | | | | | | | |
| MR015 | | 101 | 107 | 6 | 2653 | 474 | 27% | 459 | 977 | 98 | 307 | 9 | 60 | 11 | 477 | 405 | 712 | 4042 | 201 |
| | | | | | | | | | | | | | | | | | | | |
| MR016 | | 2 | 5 | 3 | 4754 | 931 | 25% | 796 | 1755 | 177 | 600 | 22 | 132 | 8 | 832 | 777 | 1184 | 1958 | 88 |
| | | | | | | | | | | | | | | | | | | | |
| MR016 | | 41 | 44 | 3 | 2776 | 571 | 24% | 490 | 981 | 110 | 369 | 13 | 79 | 4 | 474 | 479 | 677 | 925 | 43 |
| | | | | | | | | | | | | | | | | | | | |
| MR016 | | 100 | 103 | 3 | 3692 | 697 | 25% | 660 | 1352 | 144 | 451 | 14 | 87 | 12 | 631 | 596 | 920 | 4304 | 214 |
| | | | | | | | | | | | | | | | | | | | |
| MR017 | | 61 | 64 | 3 | 3672 | 739 | 25% | 606 | 1306 | 148 | 488 | 15 | 89 | 9 | 655 | 635 | 929 | 2230 | 71 |

| Hole ID | | From | To | Length | TREO | MREO | HREO/ TREO | $La_2O_3$ | $CeO_2$ | $Pr_6O_{11}$ | $Nd_2O_3$ | $Tb_4O_7$ | $Dy_2O_3$ | $Lu_2O_3$ | $Y_2O_3$ | $Nd_2O_3$+ $Pr_6O_{11}$ | HREO | $Nb_2O_5$ | $Ta_2O_5$ |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | | | | | | | | | | | |
| MR018 | | 0 | 3 | 3 | 5635 | 891 | 20% | 689 | 2886 | 176 | 563 | 20 | 131 | 10 | 744 | 740 | 1105 | 2837 | 105 |
| | | | | | | | | | | | | | | | | | | | |
| MR018 | | 23 | 27 | 4 | 3509 | 704 | 25% | 603 | 1263 | 138 | 457 | 15 | 93 | 7 | 621 | 596 | 876 | 1717 | 54 |
| | | | | | | | | | | | | | | | | | | | |
| MR018 | | 89 | 92 | 3 | 2785 | 545 | 2% | 482 | 968 | 104 | 342 | 14 | 86 | 7 | 508 | 1082 | 52 | 446 | 742 |
| | | | | | | | | | | | | | | | | | | | |
| **MR019** | | **0** | **13** | **13** | **6470** | **1231** | 25% | **1001** | **2536** | **232** | **764** | **29** | **205** | **13** | **1072** | **996** | **1612** | **2544** | **111** |
| | including | 7 | 8 | 1 | 10572 | 2102 | 26% | 1819 | 3741 | 392 | 1304 | 52 | 355 | 22 | 1835 | 1696 | 2751 | 3657 | 181 |
| | including | 9 | 10 | 1 | 12838 | 2494 | 27% | 2298 | 4394 | 471 | 1512 | 64 | 447 | 27 | 2322 | 1984 | 3494 | 4215 | 222 |
| | | | | | | | | | | | | | | | | | | | |
| MR019 | | 35 | 38 | 3 | 4165 | 825 | 26% | 726 | 1475 | 160 | 519 | 19 | 128 | 8 | 724 | 678 | 1071 | 1856 | 90 |
| | | | | | | | | | | | | | | | | | | | |
| MR019 | | 72 | 75 | 3 | 3041 | 567 | 28% | 521 | 1047 | 113 | 359 | 12 | 84 | 12 | 576 | 471 | 866 | 2654 | 136 |
| | | | | | | | | | | | | | | | | | | | |
| MR020 | | 49 | 52 | 3 | 4472 | 712 | 32% | 776 | 1540 | 152 | 436 | 14 | 111 | 25 | 945 | 587 | 1431 | 6733 | 395 |
| | | | | | | | | | | | | | | | | | | | |
| **MR021** | | **17** | **21** | **4** | **14739** | **2875** | 28% | **2456** | **5092** | **529** | **1814** | **72** | **460** | **34** | **2804** | **2343** | **4107** | **6244** | **253** |
| | including | 17 | 20 | 3 | 17708 | 3450 | 28% | 2939 | 6112 | 635 | 2172 | 86 | 557 | 41 | 3383 | 2807 | 4962 | 7499 | 304 |
| | | | | | | | | | | | | | | | | | | | |
| MR022 | | 33 | 36 | 3 | 4952 | 933 | 33% | 769 | 1569 | 162 | 558 | 27 | 186 | 16 | 1084 | 720 | 1628 | 2857 | 148 |
| | including | 33 | 34 | 1 | 12813 | 2394 | 33% | 1987 | 4036 | 413 | 1422 | 71 | 488 | 42 | 2837 | 1836 | 4274 | 7784 | 405 |

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| Hole ID | | From | To | Length | TREO | MREO | HREO/TREO | $La_2O_3$ | $CeO_2$ | $Pr_6O_{11}$ | $Nd_2O_3$ | $Tb_4O_7$ | $Dy_2O_3$ | $Lu_2O_3$ | $Y_2O_3$ | $Nd_2O_3$+$Pr_6O_{11}$ | HREO | $Nb_2O_5$ | $Ta_2O_5$ |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| MR023 | | 0 | 3 | 3 | 4196 | 563 | 31.38% | 444 | 1896 | 102 | 303 | 17 | 142 | 14 | 878 | 405 | 1317 | 2888 | 113 |
| MR023 | | 5 | 8 | 3 | 3651 | 663 | 32.40% | 602 | 1182 | 123 | 391 | 18 | 131 | 14 | 786 | 514 | 1183 | 1909 | 104 |
| | including | 6 | 7 | 1 | 10104 | 1821 | 32.57% | 1664 | 3275 | 339 | 1069 | 49 | 364 | 38 | 2182 | 1407 | 3291 | 5429 | 296 |
| MR024 | | 0 | 11 | 11 | 7419 | 1367 | 27.55% | 1109 | 2818 | 256 | 828 | 37 | 246 | 20 | 1355 | 1084 | 2044 | 2917 | 149 |
| | Including | 6 | 8 | 2 | 13616 | 2518 | 29.03% | 2095 | 4911 | 467 | 1506 | 71 | 474 | 42 | 2591 | 1973 | 3952 | 4853 | 260 |
| MR026 | | 43 | 49 | 6 | 5511 | 1019 | 32.50% | 904 | 1752 | 181 | 611 | 28 | 200 | 18 | 1199 | 791 | 1791 | 1807 | 95 |
| MR026 | | 99 | 102 | 3 | 3539 | 618 | 35.30% | 569 | 1079 | 110 | 372 | 16 | 119 | 17 | 836 | 483 | 1249 | 1760 | 89 |
| MR027 | | 81 | 87 | 6 | 3934 | 777 | 28.46% | 653 | 1327 | 141 | 487 | 19 | 129 | 9 | 767 | 629 | 1120 | 1405 | 57 |
| MR027 | | 98 | 101 | 3 | 3327 | 653 | 28.59% | 552 | 1125 | 119 | 401 | 18 | 115 | 7 | 638 | 520 | 951 | 1021 | 54 |
| MR028 | | 103 | 108 | 5 | 5647 | 1096 | 27.80% | 960 | 1938 | 204 | 681 | 29 | 182 | 12 | 1070 | 885 | 1570 | 1998 | 97 |
| MR032 | | 0 | 3 | 3 | 3672 | 613 | 29.95% | 518 | 1409 | 119 | 373 | 16 | 106 | 12 | 752 | 491 | 1100 | 3706 | 170 |
| MR033 | | 0 | 4 | 4 | 4784 | 722 | 32.59% | 623 | 1867 | 137 | 417 | 20 | 148 | 17 | 1071 | 554 | 1559 | 3637 | 195 |
| MR033 | | 34 | 37 | 3 | 2822 | 520 | 27.68% | 492 | 986 | 105 | 328 | 11 | 75 | 9 | 537 | 433 | 781 | 1585 | 91 |
| MR034 | | 0 | 3 | 3 | 3445 | 635 | 30.46% | 530 | 1194 | 124 | 393 | 15 | 103 | 12 | 714 | 517 | 1049 | 1666 | 94 |
| MR034 | | 16 | 20 | 4 | 5764 | 1119 | 25.99% | 1016 | 2037 | 216 | 708 | 26 | 169 | 13 | 1022 | 924 | 1498 | 1453 | 85 |
| MR034B | | 6 | 18 | 12 | 3867 | 742 | 32.11% | 616 | 1225 | 133 | 444 | 22 | 143 | 9 | 874 | 577 | 1242 | 1082 | 59 |
| MR035 | | 0 | 3 | 3 | 3905 | 696 | 37.02% | 531 | 1216 | 125 | 403 | 20 | 149 | 16 | 992 | 527 | 1446 | 3312 | 150 |
| MR035 | | 26 | 30 | 4 | 3648 | 700 | 25.62% | 647 | 1303 | 137 | 449 | 15 | 99 | 9 | 649 | 586 | 934 | 2191 | 97 |

| Hole ID | From | To | Length | TREO | TREO % | MREO | HREO/TREO | $La_2O_3$ | $CeO_2$ | $Pr_6O_{11}$ | $Nd_2O_3$ | $Tb_4O_7$ | $Dy_2O_3$ | $Lu_2O_3$ | $Y_2O_3$ | $Nd_2O_3$ +$Pr_6O_{11}$ | HREO | $Nb_2O_5$ | $Ta_2O_5$ |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| MDD001 | 0 | 7 | 7 | 3324 | | 626 | 26.06% | 574 | 1207 | 120 | 393 | 15 | 98 | 7 | 601 | 513 | 866 | 1194 | 64 |
| MDD001 | 12 | 15.2 | 3.2 | 3469 | | 645 | 31.07% | 545 | 1155 | 120 | 395 | 17 | 114 | 11 | 737 | 514 | 1078 | 1450 | 58 |
| MDD001 | 27 | 30.4 | 3.4 | 5824 | | 1042 | 34.21% | 954 | 1794 | 188 | 615 | 30 | 209 | 23 | 1326 | 803 | 1992 | 2744 | 142 |
| MDD002 | 30 | 34.6 | 4.6 | 5921 | | 1035 | 34.53% | 961 | 1834 | 185 | 607 | 32 | 210 | 23 | 1379 | 792 | 2044 | 2300 | 120 |
| MDD002 | 94 | 97 | 3 | 4344 | | 827 | 27.06% | 786 | 1484 | 155 | 517 | 22 | 134 | 9 | 813 | 671 | 1176 | 1237 | 68 |
| MDD003 | 8.7 | 12.5 | 3.8 | 8313 | | 1465 | 32.99% | 1312 | 2755 | 263 | 862 | 42 | 298 | 26 | 1854 | 1125 | 2742 | 4152 | 181 |
| MDD003 | 98.7 | 101.8 | 3.1 | 3697 | | 727 | 31.76% | 549 | 1184 | 136 | 457 | 18 | 117 | 11 | 826 | 593 | 1174 | 1415 | 57 |
| **MDD004** | **22.5** | **28.6** | **6.1** | **10901** | **1.09%** | **2078** | **28.91%** | **1895** | **3643** | **389** | **1278** | **55** | **357** | **26** | **2157** | **1666** | **3151** | **4032** | **194** |
| MDD004 | 46 | 49 | 3 | 2555 | | 514 | 21.21% | 483 | 967 | 103 | 334 | 10 | 67 | 4 | 366 | 437 | 542 | 741 | 34 |
| MDD004 | 138 | 141.2 | 3.2 | 2470 | | 457 | 34.33% | 354 | 779 | 86 | 292 | 10 | 69 | 14 | 570 | 378 | 848 | 1978 | 89 |
| MDD005 | 22.7 | 30 | 7.3 | 8006 | | 1537 | 27.48% | 1405 | 2754 | 288 | 953 | 39 | 258 | 17 | 1496 | 1241 | 2200 | 3330 | 138 |
| MDD005 | 65.2 | 68 | 2.8 | 2820 | | 537 | 30.86% | 443 | 935 | 101 | 336 | 12 | 87 | 9 | 604 | 437 | 870 | 1353 | 50 |
| MDD005 | 96 | 99 | 3 | 3685 | | 685 | 27.16% | 620 | 1341 | 137 | 430 | 15 | 103 | 14 | 669 | 567 | 1001 | 5777 | 222 |
| MDD005 | 126.5 | 132.5 | 6 | 2639 | | 515 | 27.25% | 449 | 913 | 98 | 324 | 12 | 81 | 6 | 494 | 422 | 719 | 1136 | 50 |
| MDD006 | 3 | 12 | 9 | 7046 | | 1142 | 28.61% | 912 | 2929 | 201 | 670 | 33 | 237 | 25 | 1274 | 872 | 2016 | 2973 | 163 |
| **MDD006** | **41.4** | **46.6** | **5.2** | **16061** | **1.61%** | **2953** | **30.49%** | **2721** | **5333** | **541** | **1772** | **80** | **560** | **48** | **3249** | **2313** | **4897** | **6583** | **337** |
| MDD007 | 0 | 6.5 | 6.5 | 6368 | | 877 | 33.85% | 662 | 2669 | 152 | 481 | 30 | 214 | 24 | 1457 | 633 | 2156 | 3207 | 138 |
| MDD007 | 18 | 21 | 3 | 5658 | | 956 | 24.28% | 843 | 2417 | 183 | 579 | 26 | 168 | 14 | 880 | 762 | 1374 | 2680 | 121 |
| **MDD007** | **23.9** | **39** | **15.1** | **10064** | **1.01%** | **1900** | **27.69%** | **1786** | **3439** | **363** | **1164** | **51** | **322** | **23** | **1879** | **1527** | **2787** | **3587** | **174** |
| MDD008 | 2 | 5 | 3 | 4159 | | 791 | 29.93% | 717 | 1337 | 157 | 495 | 19 | 120 | 13 | 859 | 652 | 1245 | 1135 | 58 |
| MDD008 | 9 | 13 | 4 | 2615 | | 514 | 22.51% | 428 | 1028 | 103 | 337 | 11 | 63 | 5 | 405 | 441 | 588 | 1113 | 39 |
| MDD008 | 32 | 35 | 3 | 3136 | | 615 | 26.62% | 532 | 1104 | 120 | 387 | 15 | 93 | 6 | 577 | 507 | 835 | 1118 | 47 |
| **MDD008** | **41** | **50** | **9** | **11074** | **1.11%** | **2112** | **27.54%** | **1926** | **3835** | **404** | **1295** | **57** | **355** | **25** | **2053** | **1699** | **3050** | **4099** | **197** |

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## APPENDIX D – GBE 2010-2012 significant drilling results

## (See DY6 release to ASX on 6 July 2023 for a complete list of these assay results)

| Hole ID | From | To | Width | $Dy_2O_3$ ppm | $Nd_2O_3$ ppm | $Pr_6O_{11}$ ppm | $Tb_4O_7$ ppm | Nb2O5 ppm | TREO ppm |
|---|---|---|---|---|---|---|---|---|---|
| **MARC001** | **12** | **14** | **2** | **492.9** | **1710.2** | **543.1** | **74.7** | **6202.0** | **14835.0** |
| MARC002 | 31 | 32 | 1 | 529.3 | 1470.4 | 488.3 | 77.4 | 5039.7 | 14108.7 |
| MARC002 | 40 | 41 | 1 | 165.0 | 642.5 | 203.4 | 25.7 | 2191.5 | 5395.2 |
| MARC002 | 85 | 86 | 1 | 212.2 | 652.5 | 207.7 | 30.0 | 4437.4 | 6357.4 |
| MARC002 | 90 | 91 | 1 | 186.0 | 648.6 | 207.3 | 27.8 | 2515.2 | 5903.8 |
| **MARC003** | **24** | **30** | **6** | **184.9** | **577.0** | **180.7** | **29.4** | **1712.3** | **5849.0** |
| MARC003 | 57 | 58 | 1 | 261.7 | 829.4 | 260.6 | 39.0 | 2836.7 | 7608.4 |
| **MARC004** | **36** | **37** | **4** | **228.2** | **780.8** | **247.9** | **34.5** | **2389.6** | **7153.3** |
| **MARC005** | **12** | **23** | **11** | **330.2** | **1064.7** | **1127.6** | **47.9** | **3107.3** | **9872.1** |
| MARC006 | 29 | 30 | 1 | 142.3 | 656.6 | 199.1 | 22.1 | 1632.2 | 5325.7 |
| MARC006 | 59 | 60 | 1 | 255.5 | 902.1 | 279.8 | 38.6 | 3328.8 | 7934.3 |
| **MARC007** | **53** | **59** | **6** | **204.1** | **733.0** | **220.0** | **30.2** | **1982.9** | **6479.5** |
| MARC008 | 28 | 29 | 2 | 188.8 | 777.6 | 234.1 | 28.4 | 5138.4 | 6790.8 |
| MARC008 | 29 | 30 | 1 | 211.1 | 838.2 | 254.6 | 31.6 | 5061.1 | 7326.3 |
| MARC008 | 54 | 55 | 1 | 177.7 | 578.8 | 171.6 | 25.3 | 2610.7 | 5344.8 |
| MARC008 | 76 | 77 | 1 | 84.0 | 287.4 | 91.8 | 11.0 | 5784.9 | 3012.2 |
| MARC009 | 54 | 55 | 1 | 334.4 | 1293.0 | 386.3 | 49.6 | 4730.7 | 10871.9 |
| **MARC010** | **66** | **68** | **2** | **172.7** | **805.4** | **246.4** | **25.6** | **7947.9** | **6579.0** |
| MARC010 | 124 | 125 | 1 | 276.1 | 1175.3 | 333.1 | 44.5 | 1902.6 | 8986.6 |
| **MARC011** | **11** | **14** | **3** | **91.5** | **433.9** | **140.4** | **11.9** | **8048.9** | **4000.6** |
| MARC012 | 66 | 67 | 1 | 101.1 | 725.2 | 232.1 | 14.1 | 3968.2 | 5980.1 |
| MARC013 | 108 | 109 | 1 | 160.1 | 4082.5 | 1505.6 | 39.1 | 52.9 | 40504.8 |
| MARC014 | 11 | 12 | 1 | 169.1 | 740.3 | 229.5 | 22.4 | 2473.3 | 6543.2 |
| **MARC015** | **26** | **31** | **6** | **595.7** | **1765.5** | **509.0** | **83.6** | **5398.4** | **15692.1** |
| MARC015 | 87 | 88 | 1 | 221.9 | 667.6 | 198.6 | 29.7 | 5312.9 | 6297.8 |
| **MARC016** | **19** | **24** | **5** | **354.1** | **1134.8** | **335.4** | **51.4** | **3259.3** | **9993.6** |
| MARC016 | 69 | 70 | 1 | 243.2 | 832.8 | 240.7 | 34.9 | 2730.8 | 7174.1 |
| MARC017 | 4 | 5 | 1 | 159.3 | 665.5 | 199.6 | 23.3 | 2504.8 | 5185.7 |
| **MARC018** | **12** | **15** | **3** | **68.9** | **326.9** | **115.0** | **8.5** | **6915.5** | **3282.9** |
| MARC019 | 4 | 5 | 1 | 71.5 | 415.9 | 147.0 | 9.2 | 7563.1 | 3831.2 |
| MARC019 | 104 | 105 | 1 | 29.4 | 337.6 | 122.2 | 4.6 | 9517.1 | 2750.8 |
| MARC020 | 7 | 8 | 1 | 94.9 | 449.1 | 141.5 | 14.5 | 5049.7 | 3893.9 |
| MARC020 | 45 | 46 | 1 | 77.5 | 403.7 | 134.8 | 11.4 | 7777.6 | 3740.2 |
| MARC020 | 148 | 149 | 1 | 50.3 | 309.2 | 107.4 | 6.9 | 5626.2 | 2616.5 |
| **MARC021** | **16** | **18** | **2** | **128.4** | **771.0** | **214.5** | **21.4** | **4297.2** | **5589.1** |
| MARC021 | 51 | 52 | 1 | 69.2 | 617.0 | 204.2 | 11.2 | 1004.2 | 5809.6 |
| **MARC021** | **108** | **110** | **2** | **216.6** | **1223.1** | **340.5** | **34.6** | **4375.2** | **9279.7** |
| **MARC022** | **42** | **44** | **2** | **182.3** | **1388.1** | **475.9** | **28.1** | **3932.4** | **11091.0** |

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| Hole ID | From | To | Width | $Dy_2O_3$ ppm | $Nd_2O_3$ ppm | $Pr_6O_{11}$ ppm | $Tb_4O_7$ ppm | Nb2O5 ppm | TREO ppm |
|---|---|---|---|---|---|---|---|---|---|
| MARC022 | 85 | 86 | 1 | 19.7 | 253.3 | 90.7 | 2.6 | 6626.1 | 2039.9 |
| **MARC023** | **11** | **16** | **5** | **288.1** | **853.8** | **273.7** | **43.3** | **2667.9** | **8003.4** |
| MARC023 | 100 | 101 | 1 | 54.3 | 241.4 | 84.5 | 6.8 | 5179.8 | 2492.7 |
| **MARC024** | **13** | **15** | **2** | **391.9** | **1519.4** | **484.6** | **62.6** | **4285.1** | **12243.6** |
| MARC024 | 110 | 111 | 1 | 133.8 | 566.1 | 182.5 | 18.2 | 5890.8 | 5073.1 |
| **MARC025** | **26** | **29** | **3** | **217.9** | **549.7** | **163.7** | **29.4** | **2471.5** | **5652.7** |
| MARC025 | 97 | 98 | 1 | 135.9 | 665.9 | 192.7 | 20.9 | 2726.5 | 5082.9 |
| MARC025 | 126 | 127 | 1 | 49.1 | 292.4 | 95.1 | 6.8 | 5434.5 | 2513.5 |
| MARC026 | 48 | 49 | 1 | 469.5 | 1483.5 | 451.9 | 68.4 | 5899.4 | 13280.4 |
| **MARC026** | **63** | **65** | **2** | **201.4** | **720.0** | **214.6** | **30.3** | **2441.9** | **5986.9** |
| MARC027 | 0 | 1 | 1 | 341.2 | 781.6 | 239.2 | 41.3 | 5577.5 | 9845.8 |
| **MARC027** | **32** | **34** | **2** | **449.3** | **1321.1** | **379.7** | **61.3** | **9055.1** | **11828.1** |
| **MARC027** | **86** | **91** | **5** | **118.8** | **501.3** | **149.3** | **17.5** | **2345.4** | **4074.9** |
| MARC027 | 134 | 135 | 1 | 153.8 | 718.6 | 217.3 | 23.2 | 1938.3 | 5685.8 |
| MARC028 | 20 | 21 | 1 | 183.6 | 662.7 | 205.2 | 26.6 | 2514.8 | 5786.8 |
| MARC028 | 29 | 30 | 1 | 314.6 | 1240.9 | 378.9 | 46.6 | 3413.2 | 10233.1 |
| **MARC029** | **0** | **2** | **2** | **156.0** | **395.4** | **122.9** | **20.5** | **4048.3** | **5496.1** |
| **MARC029** | **6** | **8** | **2** | **366.2** | **1415.0** | **422.0** | **55.5** | **4982.4** | **11165.5** |
| MARC029 | 30 | 31 | 1 | 177.0 | 787.1 | 244.0 | 28.0 | 2230.1 | 6232.3 |
| **MARC030** | **48** | **51** | **3** | **181.8** | **591.9** | **182.9** | **26.6** | **1959.8** | **5359.5** |
| MARC030 | 64 | 65 | 1 | 339.0 | 1035.9 | 313.8 | 49.3 | 4268.6 | 9565.0 |
| MARC031 | 55 | 56 | 1 | 810.3 | 2420.0 | 732.9 | 113.3 | 8043.7 | 21679.8 |
| MARC031 | 78 | 79 | 1 | 208.2 | 981.8 | 298.8 | 32.8 | 2593.5 | 7352.8 |
| MARC032 | 33 | 34 | 1 | 127.3 | 618.8 | 194.8 | 20.5 | 2197.2 | 5031.9 |
| **MARC032** | **90** | **92** | **2** | **84.2** | **1020.9** | **312.4** | **14.6** | **4091.9** | **7098.2** |
| **MARC033** | **66** | **69** | **3** | **338.5** | **3286.1** | **9531.7** | **63.2** | **4896.1** | **22304.5** |
| ***Including*** | ***67*** | ***68*** | ***1*** | **670.4** | **7667.9** | **2219.2** | **128.9** | ***5936.6*** | ***50949.5*** |
| MARC033 | 90 | 91 | 1 | 45.4 | 209.4 | 68.0 | 5.8 | 5677.7 | 2026.7 |
| **MARC034** | **27** | **29** | **2** | **228.4** | **808.8** | **248.9** | **34.0** | **2775.9** | **6922.8** |

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## APPENDIX E – DY6 2024 rock chip and soil results

| SAMPLE ID | East | North | Ce | Dy | Er | Eu | Gd | Ho | La | Lu | Nb | Nd | Pr | Sm | Tb | Th | Tm | U | Y | Yb | TREO % | $Nb_2O_5$ % | Nd+Pr | NDPR% |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| MEX001 | 747907 | 8320451 | 223.7 | 14.8 | 10.4 | 1.6 | 16.5 | 3.2 | 173.8 | 2.4 | 134.7 | 118.7 | 36.4 | 19.5 | 2.8 | 17.3 | 1.6 | 4.0 | 87.2 | 13.8 | 0.09 | 0.02 | 182.43 | 20.94 |
| MEX002 | 747907 | 8320451 | 338.6 | 28.7 | 20.5 | 1.7 | 21.5 | 6.0 | 131.9 | 4.4 | 450.3 | 108.8 | 33.2 | 23.0 | 4.0 | 58.7 | 3.4 | 12.5 | 174.0 | 26.0 | 0.11 | 0.06 | 167.02 | 14.93 |
| MEX003 | 747854 | 8320449 | 601.7 | 30.5 | 19.1 | 3.0 | 33.9 | 6.0 | 370.2 | 3.2 | 331.1 | 230.2 | 70.7 | 39.2 | 5.2 | 55.0 | 2.7 | 11.0 | 196.3 | 19.9 | 0.20 | 0.05 | 353.93 | 18.02 |
| MEX004 | 747800 | 8320448 | 832.2 | 116.4 | 47.4 | 17.9 | 194.3 | 18.6 | 2269 | 5.2 | 310.3 | 1603.1 | 466.4 | 244.0 | 24.0 | 42.0 | 5.7 | 9.6 | 617.8 | 34.4 | **0.77** | 0.04 | 2433.36 | 31.53 |
| MEX005 | 747749 | 8320444 | 532.7 | 81.5 | 35.3 | 11.7 | 132.5 | 14.0 | 1876.9 | 3.7 | 252.2 | 1136.5 | 345.7 | 168.0 | 16.7 | 36.0 | 4.3 | 8.6 | 530.8 | 25.6 | **0.58** | 0.04 | 1743.29 | 29.84 |
| MEX006 | 747714 | 8320443 | 675.1 | 48.2 | 21.3 | 7.5 | 73.1 | 8.1 | 848.8 | 2.8 | 157.7 | 642.9 | 199.3 | 100.2 | 10.0 | 23.9 | 2.8 | 5.7 | 261.4 | 18.0 | 0.35 | 0.02 | 990.67 | 28.43 |
| MEX007 | 747653 | 8320431 | 240.9 | 27.6 | 19.4 | 1.5 | 17.3 | 6.5 | 34.2 | 3.3 | 486.8 | 50.4 | 13.8 | 15.1 | 3.6 | 42.4 | 2.9 | 11.1 | 171.2 | 20.4 | 0.08 | 0.07 | 75.46 | 9.88 |
| MEX008 | 747596 | 8320450 | 331.1 | 16.7 | 11.1 | 1.6 | 17.6 | 3.0 | 191.5 | 2.0 | 206.5 | 134 | 42.7 | 21.5 | 2.6 | 25.9 | 1.7 | 6.1 | 93.8 | 10.7 | 0.11 | 0.03 | 207.89 | 19.61 |
| MEX009 | 747567 | 8320453 | 910 | 29.6 | 15.0 | 3.9 | 45.3 | 5.5 | 605.2 | 2.6 | 188.1 | 433.6 | 135.1 | 63.7 | 6.0 | 28.2 | 1.9 | 5.9 | 130.5 | 16.0 | 0.29 | 0.03 | 668.98 | 23.22 |
| MEX010 | 747496 | 8320434 | 219.9 | 9.9 | 5.5 | 1.3 | 11.6 | 1.7 | 109.5 | 1.1 | 113.9 | 98.6 | 29.7 | 16.2 | 1.7 | 13.1 | 0.8 | 3.2 | 45.9 | 6.5 | 0.07 | 0.02 | 150.89 | 22.44 |
| MEX011 | 747449 | 8320453 | 299.5 | 18.3 | 10.2 | 2.2 | 22.4 | 3.5 | 181.2 | 1.6 | 177 | 152.1 | 44.0 | 25.1 | 3.3 | 18.9 | 1.7 | 4.1 | 97.0 | 10.9 | 0.10 | 0.03 | 230.57 | 21.99 |
| MEX012 | 747403 | 8320457 | 262.3 | 12.4 | 7.7 | 1.2 | 14.5 | 2.6 | 138.2 | 1.5 | 156.6 | 108 | 31.2 | 18.2 | 2.2 | 15.0 | 1.1 | 4.0 | 69.2 | 8.1 | 0.08 | 0.02 | 163.67 | 20.06 |
| MEX013 | 747902 | 8320406 | 204.3 | 10.3 | 7.5 | 1.1 | 12.4 | 2.2 | 128.4 | 1.2 | 145 | 87.9 | 26.5 | 14.8 | 1.7 | 23.2 | 1.0 | 3.9 | 61.9 | 7.8 | 0.07 | 0.02 | 134.54 | 19.68 |
| MEX014 | 747861 | 8320401 | 552.4 | 35.4 | 22.6 | 4.1 | 39.3 | 7.0 | 732.4 | 3.9 | 513.7 | 380.6 | 125.5 | 56.8 | 6.3 | 81.8 | 3.3 | 17.7 | 208.7 | 23.9 | 0.26 | 0.07 | 595.56 | 22.63 |
| MEX015 | 747793 | 8320387 | 58.5 | 7.4 | 6.2 | 0.4 | 5.4 | 1.8 | 36.6 | 1.7 | 144.8 | 24.9 | 7.6 | 3.9 | 1.1 | 16.7 | 1.3 | 3.7 | 56.8 | 9.4 | 0.03 | 0.02 | 38.23 | 14.19 |
| MEX016 | 747775 | 8320395 | 228.6 | 12.5 | 7.7 | 1.4 | 14.4 | 2.5 | 155.8 | 1.7 | 177 | 113.1 | 34.1 | 18.1 | 2.3 | 22.8 | 1.2 | 4.7 | 73.0 | 9.3 | 0.08 | 0.03 | 173.12 | 21.34 |
| MEX017 | 747744 | 8320394 | 364.8 | 28.0 | 15.6 | 4.2 | 39.9 | 5.7 | 489.8 | 2.2 | 253.7 | 289.8 | 87.4 | 42.0 | 5.1 | 19.0 | 2.3 | 15.9 | 177.8 | 12.7 | 0.19 | 0.04 | 443.62 | 23.68 |
| MEX018 | 747708 | 8320396 | 347.4 | 28.4 | 15.9 | 4.2 | 40.0 | 5.4 | 759.5 | 2.5 | 207.9 | 458.2 | 144.9 | 59.0 | 5.6 | 20.0 | 2.4 | 5.3 | 239.3 | 15.5 | 0.25 | 0.03 | 709.51 | 27.97 |
| MEX019 | 747699 | 8320392 | 241.6 | 10.2 | 8.3 | 0.7 | 8.3 | 2.1 | 72.7 | 1.7 | 150.2 | 57.9 | 18.1 | 10.2 | 1.6 | 28.3 | 1.4 | 3.5 | 65.9 | 8.5 | 0.06 | 0.02 | 89.40 | 14.51 |
| MEX020 | 747661 | 8320405 | 380.3 | 19.2 | 12.1 | 2.0 | 24.0 | 4.1 | 263 | 2.5 | 220.2 | 199.2 | 62.4 | 32.6 | 3.8 | 27.6 | 1.9 | 6.0 | 107.3 | 16.0 | 0.14 | 0.03 | 307.74 | 22.70 |
| MEX021 | 747605 | 8320403 | 513.7 | 45.3 | 19.6 | 8.4 | 84.2 | 7.7 | 2006 | 2.7 | 140 | 1002.7 | 340.7 | 130.5 | 9.5 | 25.7 | 2.6 | 3.4 | 403.3 | 15.5 | **0.55** | 0.02 | 1581.18 | 29.00 |
| MEX024 | 747535 | 8320392 | 332.4 | 13.5 | 7.4 | 1.8 | 19.4 | 2.2 | 193 | 1.1 | 104.6 | 157.6 | 45.0 | 25.1 | 2.6 | 13.5 | 1.0 | 2.6 | 70.0 | 7.0 | 0.11 | 0.01 | 238.19 | 22.57 |
| MEX025 | 747503 | 8320395 | 297.3 | 26.6 | 20.0 | 1.6 | 19.9 | 6.0 | 108.6 | 3.1 | 364.4 | 93.2 | 26.9 | 19.8 | 3.9 | 13.1 | 3.0 | 3.5 | 167.9 | 18.6 | 0.10 | 0.05 | 141.21 | 14.30 |
| MEX026 | 747466 | 8320383 | 259 | 15.4 | 13.0 | 1.2 | 10.5 | 3.6 | 47.5 | 2.4 | 265 | 43 | 12.9 | 11.0 | 2.3 | 30.9 | 1.9 | 5.9 | 110.9 | 14.4 | 0.07 | 0.04 | 65.74 | 9.85 |
| MEX027 | 747446 | 8320397 | 450.7 | 27.7 | 13.0 | 3.6 | 35.7 | 4.6 | 202.9 | 1.9 | 190.5 | 237.5 | 64.4 | 43.3 | 5.4 | 22.7 | 1.8 | 5.0 | 123.4 | 11.5 | 0.15 | 0.03 | 354.83 | 24.07 |
| MEX028 | 747442 | 8320395 | 799.7 | 81.3 | 32.7 | 14.5 | 126.9 | 12.9 | 792.4 | 4.3 | 229.4 | 1010.3 | 272.9 | 174.4 | 16.5 | 29.5 | 4.4 | 6.3 | 317.4 | 30.2 | 0.44 | 0.03 | 1508.13 | 34.30 |
| MEX029 | 747435 | 8320397 | 87.9 | 5.7 | 3.0 | 0.7 | 6.7 | 1.2 | 40.9 | 0.5 | 60.7 | 40 | 11.1 | 7.1 | 1.0 | 8.4 | 0.5 | 2.2 | 32.7 | 2.6 | 0.03 | 0.01 | 60.07 | 20.65 |
| MEX030 | 747391 | 8320408 | 233.1 | 13.2 | 7.0 | 2.0 | 17.8 | 2.4 | 157.6 | 1.0 | 122.6 | 133.4 | 37.1 | 21.3 | 2.4 | 16.9 | 0.9 | 3.0 | 69.1 | 5.4 | 0.08 | 0.02 | 200.42 | 23.75 |
| MEX031 | 747719 | 8320347 | 348.3 | 18.1 | 12.6 | 1.5 | 14.6 | 3.5 | 140.4 | 2.1 | 254.6 | 108.7 | 34.3 | 19.7 | 2.8 | 25.9 | 1.8 | 7.6 | 110.7 | 13.1 | 0.10 | 0.04 | 168.23 | 16.75 |
| MEX032 | 747609 | 8320348 | 333.8 | 21.4 | 15.2 | 1.8 | 22.8 | 4.4 | 179.5 | 4.7 | 211.4 | 158.9 | 44.5 | 29.3 | 3.5 | 17.1 | 2.9 | 5.7 | 123.5 | 22.1 | 0.12 | 0.03 | 239.11 | 20.55 |
| MEX033 | 747636 | 8320360 | 565.4 | 73.4 | 29.8 | 12.6 | 126.9 | 11.6 | 2049.4 | 4.1 | 214.5 | 1286.3 | 394.9 | 172.7 | 15.4 | 19.9 | 3.7 | 6.0 | 435.9 | 24.5 | **0.62** | 0.03 | 1977.46 | 32.02 |
| MEX034 | 747536 | 8320349 | 146 | 7.1 | 4.1 | 0.9 | 8.0 | 1.1 | 75 | 1.0 | 104.8 | 68.4 | 21.2 | 11.4 | 1.2 | 5.6 | 0.7 | 1.9 | 31.7 | 5.7 | 0.05 | 0.01 | 105.40 | 22.89 |
| MEX035 | 747500 | 8320353 | 161.3 | 6.7 | 4.9 | 0.7 | 8.9 | 1.5 | 82.1 | 1.1 | 146.9 | 63 | 19.7 | 10.5 | 1.2 | 15.0 | 0.8 | 3.1 | 40.2 | 5.5 | 0.05 | 0.02 | 97.28 | 19.82 |
| MEX036 | 747455 | 8320548 | 146.9 | 10.8 | 6.4 | 1.7 | 15.8 | 2.1 | 118.1 | 1.0 | 89.3 | 101.3 | 29.2 | 16.6 | 2.0 | 7.3 | 0.8 | 1.7 | 68.2 | 5.1 | 0.06 | 0.01 | 153.44 | 24.33 |

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| SAMPLE ID | East | North | Ce | Dy | Er | Eu | Gd | Ho | La | Lu | Nb | Nd | Pr | Sm | Tb | Th | Tm | U | Y | Yb | TREO % | $Nb_2O_5$ % | Nd+Pr | NDPR% |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| MEX037 | 748017 | 8320602 | 587.3 | 15.8 | 11.3 | 1.9 | 15.2 | 3.2 | 207.4 | 2.3 | 672.9 | 133.5 | 42.6 | 22.8 | 2.6 | 44.1 | 1.8 | 26.9 | 69.7 | 13.8 | 0.14 | 0.10 | 207.18 | 15.18 |
| MEX038 | 747943 | 8320589 | 530.8 | 10.1 | 8.7 | 0.8 | 9.4 | 2.4 | 250.4 | 2.0 | 668.3 | 103.5 | 34.5 | 13.8 | 1.6 | 34.1 | 1.3 | 40.7 | 66.6 | 11.2 | 0.13 | 0.10 | 162.41 | 12.86 |
| MEX039 | 747947 | 8320601 | 321.6 | 9.2 | 6.3 | 0.7 | 8.3 | 1.7 | 227.8 | 1.5 | 139 | 77.4 | 27.2 | 10.4 | 1.4 | 26.6 | 1.2 | 3.1 | 48.1 | 9.5 | 0.09 | 0.02 | 123.14 | 13.62 |
| MEX040 | 747911 | 8320595 | 192.9 | 5.5 | 4.1 | 0.4 | 4.4 | 1.2 | 142.2 | 1.2 | 111.4 | 44.7 | 15.6 | 5.5 | 0.7 | 14.4 | 0.7 | 2.5 | 29.7 | 6.7 | 0.05 | 0.02 | 70.99 | 12.97 |
| MEX041 | 747900 | 8320603 | 187.2 | 10.1 | 8.4 | 0.7 | 8.3 | 2.2 | 105.1 | 2.1 | 207.5 | 53.2 | 16.6 | 10.7 | 1.4 | 22.6 | 1.6 | 4.7 | 58.9 | 10.6 | 0.06 | 0.03 | 82.11 | 14.29 |
| MEX042 | 747845 | 8320597 | 332.1 | 13.1 | 12.3 | 0.8 | 11.1 | 3.1 | 177.2 | 2.8 | 361.2 | 80.8 | 26.3 | 13.1 | 2.1 | 60.6 | 2.0 | 7.1 | 81.3 | 17.1 | 0.09 | 0.05 | 126.02 | 13.49 |
| MEX043 | 747798 | 8320593 | 1169.3 | 26.1 | 18.1 | 2.4 | 27.9 | 5.2 | 530 | 3.9 | 425.9 | 270.2 | 91.2 | 39.6 | 4.3 | 44.5 | 2.8 | 13.9 | 143.4 | 21.8 | 0.28 | 0.06 | 425.35 | 14.98 |
| MEX044 | 747745 | 8320616 | 105.2 | 14.2 | 11.7 | 0.6 | 8.0 | 3.4 | 38 | 2.3 | 280.5 | 35.2 | 10.0 | 7.9 | 1.7 | 42.5 | 2.0 | 5.6 | 97.9 | 14.4 | 0.04 | 0.04 | 53.14 | 12.44 |
| MEX045 | 747691 | 8320607 | 752.7 | 15.8 | 9.3 | 2.0 | 20.3 | 2.8 | 296.5 | 1.8 | 183 | 176.5 | 57.3 | 28.3 | 2.9 | 19.0 | 1.4 | 7.2 | 75.8 | 11.2 | 0.18 | 0.03 | 275.10 | 15.68 |
| MEX046 | 747649 | 8320598 | 1275.8 | 34.8 | 24.2 | 2.8 | 35.5 | 7.3 | 688.4 | 3.6 | 545 | 361.2 | 120.1 | 47.5 | 5.5 | 106.9 | 3.5 | 11.8 | 210.4 | 25.2 | 0.34 | 0.08 | 566.41 | 16.53 |
| MEX047 | 747594 | 8320599 | 335.4 | 15.4 | 9.9 | 1.5 | 16.2 | 3.3 | 164.2 | 1.9 | 231.5 | 121.8 | 37.1 | 19.4 | 2.4 | 22.3 | 1.9 | 7.5 | 90.9 | 11.0 | 0.10 | 0.03 | 186.89 | 18.65 |
| MEX048 | 747549 | 8320603 | 158.4 | 6.1 | 3.8 | 0.7 | 8.1 | 1.2 | 77 | 0.9 | 51.7 | 61.9 | 18.4 | 10.4 | 1.3 | 6.3 | 0.6 | 1.0 | 37.7 | 4.5 | 0.05 | 0.01 | 94.43 | 20.07 |
| MEX049 | 747521 | 8320595 | 429.3 | 30.1 | 18.4 | 4.1 | 33.8 | 5.8 | 330 | 3.2 | 276.2 | 247.3 | 74.6 | 43.4 | 5.5 | 43.6 | 2.8 | 8.0 | 155.2 | 19.9 | 0.17 | 0.04 | 378.58 | 22.50 |
| MEX050 | 747493 | 8320602 | 804.2 | 32.2 | 17.6 | 4.2 | 41.5 | 5.7 | 549.4 | 2.5 | 226 | 367.4 | 116.8 | 57.5 | 5.9 | 50.9 | 2.5 | 5.7 | 162.3 | 17.3 | 0.26 | 0.03 | 569.65 | 21.71 |
| MEX051 | 747442 | 8320604 | 194.3 | 13.6 | 10.7 | 1.0 | 13.2 | 2.9 | 97.7 | 2.0 | 243.5 | 83.4 | 25.3 | 15.6 | 2.1 | 29.5 | 1.4 | 7.3 | 84.0 | 12.6 | 0.07 | 0.03 | 127.85 | 18.96 |
| MEX052 | 747393 | 8320602 | 404.1 | 18.1 | 9.5 | 2.0 | 21.9 | 2.9 | 219.2 | 1.8 | 206 | 163.5 | 50.6 | 26.3 | 3.3 | 28.1 | 1.4 | 7.0 | 85.4 | 9.9 | 0.12 | 0.03 | 251.84 | 20.55 |
| MEX053 | 747341 | 8320599 | 637.6 | 29.6 | 16.7 | 3.2 | 37.7 | 5.2 | 374 | 2.5 | 232.7 | 293.8 | 87.8 | 50.3 | 5.5 | 30.5 | 2.3 | 6.5 | 145.3 | 14.5 | 0.20 | 0.03 | 448.77 | 21.91 |
| MEX054 | 747981 | 8320556 | 392.1 | 13.9 | 11.2 | 1.0 | 10.9 | 3.0 | 176.5 | 2.1 | 381.1 | 102.1 | 33.2 | 15.6 | 2.1 | 40.5 | 1.7 | 11.5 | 73.4 | 13.0 | 0.10 | 0.05 | 159.20 | 15.51 |
| MEX055 | 747966 | 8320545 | 127.7 | 0.8 | 0.8 | 0.1 | 0.7 | 0.2 | 8.7 | 0.5 | 24.6 | 7.2 | 2.0 | 1.7 | 0.2 | 0.7 | 0.2 | 0.2 | 4.4 | 2.0 | 0.02 | 0.00 | 10.81 | 5.64 |
| MEX056 | 747954 | 8320550 | 319.8 | 9.6 | 8.3 | 0.8 | 8.8 | 2.2 | 220.8 | 1.7 | 204.6 | 81 | 27.1 | 11.2 | 1.6 | 26.9 | 1.4 | 3.9 | 51.8 | 10.9 | 0.09 | 0.03 | 127.22 | 13.99 |
| MEX057 | 747937 | 8320553 | 300.9 | 6.5 | 5.8 | 0.5 | 5.6 | 1.5 | 253.5 | 1.2 | 121.5 | 70 | 25.3 | 7.0 | 1.0 | 20.6 | 1.0 | 2.7 | 39.0 | 8.3 | 0.09 | 0.02 | 112.22 | 12.86 |
| MEX058 | 747890 | 8320553 | 409 | 20.2 | 16.1 | 1.1 | 12.1 | 4.4 | 91.1 | 2.3 | 613.7 | 63.6 | 19.1 | 14.5 | 2.4 | 45.5 | 2.8 | 20.4 | 118.6 | 17.5 | 0.10 | 0.09 | 97.26 | 10.08 |
| MEX059 | 747865 | 8320549 | 302.5 | 12.5 | 8.8 | 1.0 | 9.9 | 2.6 | 64.1 | 1.6 | 150.1 | 55.7 | 16.5 | 11.9 | 1.9 | 25.0 | 1.4 | 3.3 | 73.0 | 10.4 | 0.07 | 0.02 | 84.90 | 12.21 |
| MEX060 | 747816 | 8320558 | 452.4 | 10.0 | 5.5 | 1.1 | 12.5 | 1.7 | 230.9 | 1.3 | 96.7 | 131.4 | 41.6 | 17.5 | 1.8 | 8.9 | 1.0 | 1.1 | 56.0 | 6.8 | 0.12 | 0.01 | 203.53 | 17.41 |
| MEX061 | 747788 | 8320543 | 9149 | 52.7 | 28.5 | 8.8 | 95.5 | 9.5 | 6226.6 | 5.3 | 1345.2 | 2004.6 | 742.3 | 189.5 | 10.8 | 196.6 | 4.1 | 18.9 | 252.7 | 33.1 | 2.26 | 0.19 | 3235.01 | 14.31 |
| MEX064 | 747757 | 8320551 | 506.1 | 25.2 | 16.1 | 2.1 | 20.0 | 4.9 | 201 | 2.2 | 659.8 | 134 | 42.2 | 23.0 | 3.9 | 67.6 | 2.3 | 26.3 | 153.8 | 17.8 | 0.14 | 0.09 | 207.28 | 14.86 |
| MEX065 | 747730 | 8320556 | 613.8 | 40.3 | 28.4 | 2.0 | 27.7 | 8.5 | 199.1 | 4.2 | 706 | 137.9 | 43.9 | 27.9 | 5.6 | 64.4 | 4.4 | 23.6 | 241.8 | 29.0 | 0.17 | 0.10 | 213.89 | 12.49 |
| MEX066 | 747672 | 8320551 | 484.2 | 13.9 | 9.8 | 1.3 | 16.0 | 3.1 | 178.5 | 1.8 | 185.5 | 137.2 | 40.6 | 21.1 | 2.5 | 27.2 | 1.6 | 5.9 | 76.9 | 11.7 | 0.12 | 0.03 | 209.08 | 17.34 |
| MEX067 | 747622 | 8320553 | 562.7 | 22.5 | 12.1 | 3.2 | 29.0 | 4.1 | 495.8 | 2.3 | 132.5 | 297.6 | 91.8 | 41.3 | 4.1 | 17.3 | 1.8 | 2.9 | 118.5 | 13.7 | 0.20 | 0.02 | 458.03 | 22.50 |
| MEX068 | 747569 | 8320547 | 430 | 9.3 | 7.1 | 1.0 | 12.3 | 1.9 | 235.9 | 1.4 | 288.4 | 142.1 | 45.2 | 20.2 | 2.0 | 28.5 | 1.2 | 11.3 | 54.6 | 9.4 | 0.12 | 0.04 | 220.36 | 18.83 |
| MEX069 | 747518 | 8320555 | 204.9 | 14.3 | 11.0 | 1.2 | 12.2 | 3.2 | 107.4 | 2.1 | 296.9 | 77 | 24.9 | 15.0 | 2.4 | 32.1 | 1.8 | 11.2 | 91.0 | 13.5 | 0.07 | 0.04 | 119.90 | 17.10 |
| MEX070 | 747463 | 8320560 | 166.5 | 14.6 | 8.8 | 1.2 | 10.1 | 2.9 | 56 | 1.4 | 177.6 | 55.3 | 16.0 | 10.4 | 2.1 | 32.7 | 1.9 | 4.4 | 79.1 | 11.1 | 0.05 | 0.03 | 83.83 | 15.86 |
| MEX071 | 747434 | 8320558 | 1607.8 | 30.2 | 16.3 | 3.9 | 41.3 | 5.4 | 881.3 | 2.8 | 365.9 | 456.8 | 148.7 | 60.1 | 5.8 | 71.8 | 2.5 | 7.9 | 150.7 | 17.3 | 0.41 | 0.05 | 712.47 | 17.27 |
| MEX072 | 747385 | 8320551 | 189.1 | 11.7 | 7.5 | 1.4 | 12.9 | 2.5 | 132.5 | 1.4 | 205.2 | 96.5 | 28.8 | 16.1 | 2.1 | 18.1 | 1.2 | 3.9 | 72.6 | 8.4 | 0.07 | 0.03 | 147.35 | 20.98 |
| MEX073 | 747950 | 8320487 | 127.2 | 8.4 | 7.2 | 0.3 | 4.0 | 2.0 | 36.2 | 1.7 | 221.6 | 23.5 | 7.1 | 4.5 | 1.0 | 29.1 | 1.1 | 5.8 | 59.7 | 8.9 | 0.04 | 0.03 | 35.99 | 10.13 |
| MEX074 | 747919 | 8320489 | 222.7 | 9.1 | 8.6 | 0.5 | 4.0 | 2.1 | 52.3 | 2.1 | 231.1 | 30.1 | 10.0 | 5.2 | 1.0 | 24.8 | 1.4 | 5.6 | 62.5 | 12.5 | 0.05 | 0.03 | 47.19 | 9.17 |
| MEX075 | 747906 | 8320495 | 304.7 | 8.5 | 6.1 | 0.6 | 7.2 | 1.6 | 217 | 1.3 | 105.1 | 70.5 | 24.2 | 8.8 | 1.3 | 18.9 | 1.1 | 1.7 | 52.3 | 8.6 | 0.09 | 0.02 | 111.47 | 12.98 |

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| SAMPLE ID | East | North | Ce | Dy | Er | Eu | Gd | Ho | La | Lu | Nb | Nd | Pr | Sm | Tb | Th | Tm | U | Y | Yb | TREO % | $Nb_2O_5$ % | Nd+Pr | NDPR% |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| MEX076 | 747855 | 8320490 | 1239.7 | 44.5 | 33.8 | 2.6 | 34.7 | 9.7 | 389.4 | 4.7 | 571.9 | 217.5 | 69.1 | 36.9 | 6.4 | 93.1 | 5.0 | 10.3 | 312.5 | 36.2 | 0.30 | 0.08 | 337.18 | 11.39 |
| MEX077 | 747832 | 8320480 | 420.4 | 13.5 | 8.2 | 2.1 | 18.6 | 2.6 | 243.7 | 1.8 | 158.7 | 178.4 | 54.7 | 26.7 | 2.7 | 10.5 | 1.2 | 5.0 | 61.8 | 11.3 | 0.13 | 0.02 | 274.17 | 21.81 |
| MEX078 | 747796 | 8320491 | 507 | 27.3 | 16.9 | 2.4 | 26.4 | 5.3 | 439.1 | 2.6 | 388.9 | 230 | 73.3 | 34.4 | 4.5 | 51.8 | 2.3 | 12.2 | 167.9 | 16.0 | 0.19 | 0.06 | 356.83 | 19.12 |
| MEX079 | 747792 | 8320494 | 384.2 | 25.8 | 14.2 | 2.5 | 27.2 | 4.9 | 285.5 | 2.6 | 265.7 | 200.4 | 60.0 | 34.6 | 4.5 | 42.0 | 2.0 | 7.3 | 140.9 | 15.0 | 0.14 | 0.04 | 306.24 | 21.19 |
| MEX080 | 747748 | 8320504 | 600.2 | 21.6 | 15.3 | 1.2 | 17.8 | 4.7 | 290 | 2.3 | 433 | 150.3 | 50.3 | 21.9 | 3.3 | 72.9 | 2.4 | 14.5 | 129.2 | 17.9 | 0.16 | 0.06 | 236.08 | 14.73 |
| MEX081 | 747690 | 8320497 | 1459.1 | 69.5 | 28.3 | 10.7 | 113.9 | 11.9 | 1882.5 | 4.5 | 180.5 | 1164.1 | 360.3 | 159.1 | 14.9 | 20.5 | 3.8 | 2.7 | 307.8 | 30.2 | **0.67** | 0.03 | 1793.12 | 26.76 |
| MEX082 | 747661 | 8320505 | 1536.2 | 63.5 | 26.4 | 7.7 | 92.5 | 10.7 | 954.3 | 3.0 | 151.4 | 742.7 | 214.5 | 117.2 | 12.5 | 24.8 | 3.1 | 5.2 | 269.8 | 19.9 | 0.49 | 0.02 | 1125.44 | 23.04 |
| MEX083 | 747653 | 8320503 | 871.5 | 25.8 | 14.7 | 2.8 | 30.5 | 5.1 | 368.2 | 2.0 | 354.7 | 274.2 | 82.0 | 40.5 | 4.6 | 44.8 | 1.9 | 9.3 | 132.2 | 13.9 | 0.23 | 0.05 | 418.90 | 18.60 |
| MEX084 | 747627 | 8320503 | 428 | 20.8 | 13.9 | 1.8 | 19.3 | 4.1 | 205.9 | 2.5 | 231.1 | 137.9 | 41.4 | 23.6 | 3.5 | 31.9 | 2.0 | 5.8 | 116.6 | 17.3 | 0.13 | 0.03 | 210.87 | 16.85 |
| MEX085 | 747603 | 8320505 | 145.7 | 10.1 | 7.7 | 0.5 | 7.6 | 2.3 | 40.3 | 1.1 | 174.6 | 36.5 | 11.2 | 8.3 | 1.5 | 32.2 | 1.2 | 5.1 | 67.7 | 8.4 | 0.04 | 0.02 | 56.11 | 13.22 |
| MEX086 | 747547 | 8320504 | 709 | 23.6 | 13.3 | 4.2 | 30.9 | 4.3 | 388 | 2.9 | 240.4 | 279.9 | 84.7 | 44.8 | 4.5 | 63.4 | 2.1 | 6.5 | 121.7 | 16.5 | 0.21 | 0.03 | 428.81 | 20.63 |
| MEX087 | 747500 | 8320502 | 402.1 | 17.7 | 13.2 | 1.2 | 12.4 | 4.2 | 113.1 | 2.4 | 262.7 | 70.6 | 22.4 | 14.0 | 2.6 | 55.4 | 2.2 | 7.0 | 111.7 | 15.0 | 0.10 | 0.04 | 109.41 | 11.22 |
| MEX088 | 747460 | 8320504 | 193.8 | 18.6 | 13.4 | 1.4 | 14.2 | 4.1 | 55.2 | 2.8 | 346.2 | 61.5 | 17.7 | 15.2 | 2.9 | 56.8 | 2.2 | 8.9 | 108.3 | 16.0 | 0.06 | 0.05 | 93.12 | 14.60 |
| MEX089 | 747403 | 8320507 | 656.7 | 23.6 | 10.8 | 3.0 | 33.7 | 4.0 | 364.3 | 1.8 | 130.3 | 284.1 | 84.2 | 46.6 | 4.5 | 16.4 | 1.6 | 3.4 | 94.1 | 11.9 | 0.19 | 0.02 | 433.10 | 22.22 |
| MEX090 | 747360 | 8320520 | 217.7 | 11.4 | 7.1 | 1.6 | 13.7 | 2.2 | 134.5 | 1.4 | 175.1 | 118.1 | 34.6 | 19.6 | 2.1 | 27.0 | 1.0 | 5.3 | 63.5 | 8.3 | 0.08 | 0.03 | 179.56 | 23.50 |
| MEX091 | 749258 | 8320196 | 428 | 24.8 | 23.1 | 1.1 | 14.3 | 6.0 | 160 | 5.1 | 631 | 83.5 | 28.8 | 13.9 | 3.2 | 112.0 | 4.2 | 26.0 | 182.0 | 32.5 | 0.12 | 0.09 | 132.17 | 10.80 |
| MEX092 | 749299 | 8320200 | 99.7 | 5.1 | 4.1 | 0.3 | 3.2 | 1.1 | 26.3 | 1.5 | 157 | 15.7 | 5.1 | 3.2 | 0.7 | 10.5 | 0.9 | 6.0 | 32.5 | 7.5 | 0.03 | 0.02 | 24.50 | 9.77 |
| MEX093 | 749352 | 8320200 | 200 | 6.6 | 6.0 | 0.3 | 4.3 | 1.6 | 97.7 | 1.7 | 218 | 32.1 | 11.8 | 4.3 | 1.0 | 13.4 | 1.1 | 7.0 | 43.1 | 9.2 | 0.05 | 0.03 | 51.64 | 10.17 |
| MEX094 | 749393 | 8320200 | 188 | 11.1 | 7.6 | 0.7 | 9.8 | 2.4 | 71.4 | 1.9 | 175 | 45.2 | 13.9 | 9.6 | 1.8 | 30.4 | 1.5 | 7.0 | 65.9 | 11.5 | 0.05 | 0.03 | 69.54 | 13.01 |
| MEX095 | 749449 | 8320190 | 460 | 18.7 | 10.9 | 1.8 | 19.7 | 3.3 | 312 | 2.2 | 840 | 171 | 54.1 | 26.8 | 3.1 | 45.3 | 2.0 | 32.0 | 68.3 | 14.5 | 0.14 | 0.12 | 264.81 | 18.90 |
| MEX096 | 749501 | 8320202 | 393 | 10.6 | 8.8 | 0.6 | 9.5 | 2.3 | 186 | 1.9 | 2609 | 107 | 37.6 | 13.3 | 1.6 | 21.5 | 1.5 | 70.0 | 62.8 | 11.0 | 0.10 | 0.37 | 170.22 | 16.67 |
| MEX097 | 749551 | 8320199 | 535 | 11.1 | 6.8 | 1.1 | 13.0 | 2.0 | 245 | 1.5 | 1913 | 146 | 48.9 | 19.2 | 1.9 | 31.0 | 1.1 | 56.0 | 38.7 | 8.4 | 0.13 | 0.27 | 229.39 | 17.66 |
| MEX098 | 749603 | 8320157 | 6182 | 256.0 | 163.0 | 19.1 | 259.0 | 50.6 | 2532 | 21.0 | 4183 | 1433 | 447.0 | 294.0 | 42.2 | 702.0 | 25.6 | 100.0 | 1348.0 | 165.0 | **1.60** | **0.60** | 2211.52 | 13.84 |
| MEX099 | 749593 | 8320161 | 322 | 20.1 | 12.8 | 1.1 | 15.5 | 4.2 | 167 | 2.7 | 443 | 86.5 | 27.6 | 16.2 | 3.1 | 56.7 | 1.8 | 18.0 | 118.0 | 11.2 | 0.10 | 0.06 | 134.23 | 13.73 |
| MEX100 | 749557 | 8320158 | 113 | 6.8 | 7.0 | 0.3 | 4.2 | 1.8 | 65.1 | 1.6 | 415 | 27.7 | 9.9 | 4.3 | 0.9 | 36.4 | 1.4 | 18.0 | 41.7 | 10.1 | 0.04 | 0.06 | 44.32 | 12.44 |
| MEX101 | 749518 | 8320172 | 147 | 5.6 | 5.2 | 0.3 | 4.0 | 1.3 | 66.9 | 1.5 | 654 | 36.8 | 12.9 | 4.5 | 0.8 | 10.5 | 1.0 | 20.0 | 35.7 | 7.3 | 0.04 | 0.09 | 58.49 | 14.66 |
| MEX102 | 749496 | 8320148 | 142 | 2.9 | 2.4 | 0.3 | 2.4 | 0.7 | 38.3 | 0.7 | 176 | 17 | 5.8 | 2.9 | 0.5 | 8.6 | 0.5 | 7.0 | 15.5 | 3.6 | 0.03 | 0.03 | 26.87 | 9.42 |
| MEX103 | 749446 | 8320146 | 520 | 43.7 | 46.1 | 1.6 | 21.0 | 12.0 | 252 | 5.6 | 785 | 137 | 48.1 | 22.3 | 4.9 | 78.2 | 7.3 | 35.0 | 244.0 | 43.2 | 0.17 | 0.11 | 217.85 | 12.81 |
| MEX104 | 749408 | 8320149 | 121 | 4.4 | 3.4 | 0.3 | 3.6 | 1.0 | 60.5 | 0.8 | 610 | 33.5 | 11.6 | 4.6 | 0.7 | 13.1 | 0.6 | 22.0 | 24.3 | 4.5 | 0.03 | 0.09 | 53.08 | 16.04 |
| MEX105 | 749380 | 8320143 | 92.4 | 5.9 | 5.0 | 0.3 | 4.0 | 1.3 | 66 | 1.4 | 241 | 26.4 | 9.1 | 3.7 | 0.7 | 13.2 | 0.9 | 8.0 | 39.6 | 7.0 | 0.03 | 0.03 | 41.76 | 13.15 |
| MEX106 | 749333 | 8320140 | 153 | 15.5 | 10.8 | 0.7 | 12.3 | 3.3 | 71.3 | 2.1 | 316 | 54.1 | 15.9 | 10.8 | 2.3 | 38.5 | 1.7 | 10.0 | 114.0 | 12.4 | 0.06 | 0.05 | 82.32 | 14.16 |
| MEX107 | 749289 | 8320153 | 215 | 16.5 | 12.8 | 1.0 | 12.1 | 3.7 | 156 | 2.9 | 540 | 83 | 27.8 | 13.0 | 2.3 | 58.7 | 2.2 | 18.0 | 103.0 | 16.6 | 0.08 | 0.08 | 130.41 | 16.23 |
| MEX108 | 749264 | 8320141 | 334 | 32.1 | 20.0 | 2.2 | 31.9 | 6.5 | 194 | 3.3 | 555 | 142 | 40.3 | 30.4 | 5.2 | 45.0 | 3.1 | 19.0 | 208.0 | 21.5 | 0.13 | 0.08 | 214.32 | 16.54 |
| MEX109 | 749241 | 8320155 | 334 | 29.8 | 23.6 | 1.0 | 15.5 | 6.9 | 157 | 4.0 | 1020 | 78.6 | 26.9 | 13.0 | 3.6 | 30.5 | 3.8 | 36.0 | 228.0 | 26.5 | 0.12 | 0.15 | 124.17 | 10.75 |
| MEX110 | 749698 | 8320099 | 592 | 38.8 | 21.9 | 3.7 | 47.8 | 6.9 | 389 | 3.9 | 901 | 274 | 80.2 | 54.2 | 7.1 | 114.0 | 3.6 | 27.0 | 164.0 | 24.5 | 0.21 | 0.13 | 416.49 | 20.29 |
| MEX111 | 749652 | 8320098 | 532 | 19.2 | 12.9 | 1.7 | 21.0 | 3.8 | 241 | 2.5 | 1105 | 150 | 47.9 | 26.0 | 3.2 | 45.7 | 2.2 | 36.0 | 109.0 | 14.8 | 0.14 | 0.16 | 232.87 | 16.27 |
| MEX112 | 749605 | 8320099 | 332 | 15.2 | 11.3 | 0.9 | 12.6 | 3.3 | 132 | 2.2 | 806 | 72.3 | 23.5 | 12.1 | 2.3 | 30.0 | 1.9 | 23.0 | 112.0 | 13.7 | 0.09 | 0.12 | 112.76 | 12.47 |

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| SAMPLE ID | East | North | Ce | Dy | Er | Eu | Gd | Ho | La | Lu | Nb | Nd | Pr | Sm | Tb | Th | Tm | U | Y | Yb | TREO % | $Nb_2O_5$ % | Nd+Pr | NDPR% |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| MEX113 | 749551 | 8320105 | 148 | 7.2 | 4.9 | 0.5 | 6.2 | 1.5 | 71 | 0.9 | 373 | 36.4 | 12.2 | 6.0 | 1.1 | 17.0 | 0.7 | 12.0 | 44.7 | 5.3 | 0.04 | 0.05 | 57.14 | 13.66 |
| MEX114 | 749501 | 8320097 | 260 | 12.1 | 9.8 | 0.5 | 7.0 | 2.7 | 66.2 | 1.7 | 288 | 36.5 | 12.6 | 6.5 | 1.6 | 18.9 | 1.6 | 11.0 | 78.2 | 11.3 | 0.06 | 0.04 | 57.77 | 9.36 |
| MEX116 | 749451 | 8320093 | 170 | 28.2 | 30.4 | 0.7 | 11.1 | 7.9 | 68.9 | 5.4 | 563 | 43.2 | 14.4 | 9.5 | 3.1 | 75.6 | 5.5 | 23.0 | 211.0 | 36.2 | 0.08 | 0.08 | 67.79 | 8.65 |
| MEX117 | 749351 | 8320096 | 327 | 22.0 | 15.8 | 1.1 | 16.5 | 4.8 | 166 | 2.9 | 505 | 90.3 | 28.6 | 15.2 | 3.1 | 42.9 | 2.5 | 17.0 | 177.0 | 17.8 | 0.11 | 0.07 | 139.82 | 12.97 |
| MEX118 | 749300 | 8320093 | 372 | 35.0 | 19.1 | 2.4 | 37.0 | 6.7 | 263 | 2.9 | 412 | 180 | 51.3 | 32.2 | 5.9 | 33.2 | 2.7 | 12.0 | 251.0 | 17.7 | 0.15 | 0.06 | 271.96 | 17.64 |
| MEX119 | 749249 | 8320095 | 354 | 13.7 | 12.4 | 0.9 | 8.8 | 3.4 | 143 | 1.8 | 469 | 72.6 | 25.8 | 10.8 | 1.6 | 70.6 | 2.0 | 17.0 | 91.5 | 12.8 | 0.09 | 0.07 | 115.82 | 12.69 |
| MEX120 | 749204 | 8320098 | 215 | 10.1 | 7.8 | 0.5 | 6.1 | 2.3 | 74.8 | 1.8 | 373 | 41.1 | 13.9 | 6.3 | 1.3 | 57.9 | 1.3 | 13.0 | 68.0 | 9.6 | 0.06 | 0.05 | 64.72 | 11.62 |
| MEX121 | 749204 | 8320049 | 127 | 13.4 | 13.2 | 0.4 | 6.3 | 3.6 | 72.1 | 2.4 | 425 | 40.6 | 13.7 | 6.1 | 1.6 | 42.4 | 2.3 | 16.0 | 96.1 | 15.8 | 0.05 | 0.06 | 63.85 | 12.74 |
| MEX122 | 749250 | 8320049 | 251 | 27.3 | 16.6 | 2.7 | 33.4 | 5.2 | 381 | 3.1 | 376 | 224 | 70.2 | 37.4 | 4.8 | 38.6 | 2.6 | 13.0 | 201.0 | 18.8 | 0.15 | 0.05 | 346.11 | 22.60 |
| MEX123 | 749304 | 8320049 | 133 | 8.5 | 6.8 | 0.5 | 6.2 | 1.9 | 71.5 | 2.0 | 784 | 37.9 | 12.3 | 6.7 | 1.2 | 43.0 | 1.4 | 25.0 | 47.3 | 10.4 | 0.04 | 0.11 | 59.12 | 14.12 |
| MEX124 | 749340 | 8320053 | 136 | 6.6 | 5.7 | 0.2 | 3.6 | 1.6 | 21.9 | 1.4 | 311 | 14.7 | 4.5 | 3.1 | 0.8 | 32.6 | 1.1 | 8.0 | 44.7 | 7.9 | 0.03 | 0.04 | 22.57 | 7.31 |
| MEX125 | 749410 | 8320031 | 275 | 17.1 | 14.3 | 1.0 | 14.6 | 4.0 | 183 | 3.5 | 589 | 94.7 | 30.5 | 14.6 | 2.5 | 37.3 | 2.6 | 17.0 | 131.0 | 19.9 | 0.10 | 0.08 | 147.25 | 15.12 |
| MEX126 | 749452 | 8320048 | 73.7 | 3.9 | 2.1 | 0.3 | 4.2 | 0.7 | 52.1 | 0.6 | 147 | 26.5 | 8.2 | 4.4 | 0.7 | 8.4 | 0.4 | 7.0 | 19.6 | 2.6 | 0.02 | 0.02 | 40.85 | 17.01 |
| MEX127 | 749500 | 8320040 | 344 | 56.1 | 34.6 | 5.6 | 64.9 | 10.7 | 437 | 5.2 | 691 | 316 | 91.8 | 70.6 | 9.9 | 79.5 | 5.4 | 27.0 | 318.0 | 36.4 | 0.22 | 0.10 | 479.43 | 22.17 |
| MEX128 | 749544 | 8320039 | 192 | 22.5 | 11.1 | 2.9 | 34.4 | 3.7 | 207 | 1.7 | 264 | 180 | 51.4 | 43.0 | 4.6 | 34.8 | 1.9 | 10.0 | 103.0 | 11.6 | 0.10 | 0.04 | 272.05 | 26.17 |
| MEX129 | 749578 | 8320026 | 355 | 7.5 | 3.8 | 0.7 | 10.3 | 1.3 | 183 | 1.0 | 2111 | 102 | 36.0 | 13.0 | 1.5 | 13.2 | 0.7 | 60.0 | 42.6 | 4.8 | 0.09 | 0.30 | 162.52 | 17.69 |
| MEX130 | 749651 | 8320050 | 309 | 27.5 | 16.0 | 1.8 | 27.1 | 5.3 | 151 | 2.4 | 391 | 103 | 30.1 | 23.7 | 4.5 | 68.4 | 2.5 | 15.0 | 147.0 | 15.9 | 0.10 | 0.06 | 156.54 | 14.97 |
| MEX131 | 749695 | 8320050 | 301 | 15.2 | 10.5 | 1.2 | 14.3 | 3.2 | 148 | 2.3 | 287 | 90.3 | 29.1 | 17.0 | 2.5 | 45.9 | 1.9 | 8.0 | 96.8 | 13.7 | 0.09 | 0.04 | 140.50 | 15.60 |
| MEX132 | 749695 | 8320050 | 67.5 | 7.8 | 8.7 | 0.3 | 4.6 | 2.1 | 22 | 2.9 | 131 | 18.6 | 5.7 | 4.1 | 1.0 | 14.5 | 1.8 | 5.0 | 71.1 | 15.3 | 0.03 | 0.02 | 28.62 | 10.11 |
| MEX133 | 749748 | 8320048 | 887 | 21.2 | 15.0 | 1.8 | 27.2 | 4.2 | 459 | 3.3 | 2578 | 246 | 82.6 | 34.6 | 3.7 | 42.5 | 2.7 | 95.0 | 128.0 | 20.1 | 0.23 | 0.37 | 386.76 | 16.59 |
| MEX134 | 749793 | 8320043 | 280 | 36.5 | 25.1 | 1.5 | 29.2 | 7.8 | 129 | 3.4 | 456 | 121 | 32.9 | 26.2 | 5.3 | 77.9 | 3.8 | 13.0 | 227.0 | 24.5 | 0.12 | 0.07 | 180.84 | 15.70 |
| MEX135 | 749802 | 8320001 | 929 | 99.1 | 73.5 | 4.1 | 71.1 | 22.0 | 402 | 10.9 | 1974 | 304 | 87.9 | 61.7 | 13.5 | 263.0 | 11.6 | 67.0 | 667.0 | 75.9 | 0.34 | 0.28 | 460.80 | 13.44 |
| MEX136 | 749777 | 8319994 | 433 | 33.3 | 19.3 | 1.9 | 35.6 | 6.5 | 336 | 2.9 | 398 | 205 | 60.8 | 33.5 | 5.4 | 29.0 | 2.8 | 14.0 | 239.0 | 18.0 | 0.17 | 0.06 | 312.51 | 18.12 |
| MEX137 | 749741 | 8320003 | 1351 | 138.0 | 88.7 | 6.5 | 113.0 | 28.1 | 667 | 12.3 | 2622 | 501 | 148.0 | 106.0 | 21.1 | 583.0 | 13.9 | 87.0 | 717.0 | 89.9 | 0.48 | 0.38 | 763.18 | 15.82 |
| MEX138 | 749706 | 8320006 | 604 | 24.8 | 20.1 | 1.2 | 17.0 | 5.7 | 274 | 3.2 | 918 | 140 | 48.3 | 19.0 | 3.3 | 71.5 | 3.3 | 37.0 | 143.0 | 21.9 | 0.16 | 0.13 | 221.65 | 13.82 |
| MEX139 | 749685 | 8320007 | 334 | 23.4 | 16.7 | 1.1 | 16.5 | 5.1 | 161 | 3.7 | 358 | 90.7 | 28.7 | 15.8 | 3.3 | 59.2 | 3.1 | 12.0 | 117.0 | 23.0 | 0.10 | 0.05 | 140.48 | 13.82 |
| MEX141 | 749645 | 8319999 | 9594 | 740.0 | 542.0 | 33.5 | 522.0 | 167.0 | 4686 | 50.8 | 5245 | 2768 | 775.0 | 507.0 | 102.0 | >1000 | 78.1 | 280.0 | 5622.0 | 446.0 | **3.22** | **0.75** | 4164.95 | 12.92 |
| MEX142 | 749593 | 8320007 | 191 | 12.6 | 10.4 | 0.6 | 7.4 | 2.9 | 64.1 | 1.8 | 249 | 42.6 | 12.6 | 7.2 | 1.6 | 74.9 | 1.6 | 8.0 | 77.3 | 10.9 | 0.05 | 0.04 | 64.94 | 12.06 |
| MEX143 | 749541 | 8320003 | 76.4 | 6.9 | 6.9 | 0.3 | 4.0 | 1.8 | 51.4 | 2.2 | 124 | 21.9 | 6.8 | 3.6 | 0.8 | 31.2 | 1.3 | 4.0 | 50.5 | 9.8 | 0.03 | 0.02 | 33.80 | 11.46 |
| MEX144 | 749502 | 8320005 | 186 | 27.9 | 23.3 | 0.7 | 12.9 | 6.8 | 66.7 | 3.8 | 205 | 44.5 | 12.6 | 8.2 | 3.4 | 81.4 | 3.7 | 12.0 | 210.0 | 25.2 | 0.08 | 0.03 | 67.15 | 8.68 |
| MEX145 | 749417 | 8320009 | 181 | 13.5 | 8.7 | 0.9 | 12.4 | 2.8 | 133 | 1.9 | 233 | 84.2 | 23.5 | 13.1 | 2.1 | 35.0 | 1.4 | 7.0 | 92.0 | 9.8 | 0.07 | 0.03 | 126.65 | 18.13 |
| MEX146 | 749403 | 8320005 | 327 | 16.7 | 10.2 | 1.1 | 18.3 | 3.3 | 233 | 1.8 | 216 | 135 | 36.9 | 18.2 | 2.7 | 24.6 | 1.5 | 8.0 | 116.0 | 10.6 | 0.11 | 0.03 | 202.01 | 18.02 |
| MEX147 | 749339 | 8319998 | 208 | 43.9 | 39.1 | 1.1 | 20.2 | 11.3 | 125 | 4.8 | 476 | 76.5 | 22.4 | 15.6 | 5.0 | 73.0 | 5.7 | 18.0 | 424.0 | 34.6 | 0.13 | 0.07 | 116.28 | 9.19 |
| MEX148 | 749303 | 8319993 | 377 | 15.7 | 11.2 | 1.4 | 16.5 | 3.3 | 258 | 2.4 | 413 | 143 | 41.8 | 20.6 | 2.6 | 53.0 | 2.1 | 17.0 | 92.0 | 15.0 | 0.12 | 0.06 | 217.32 | 18.05 |
| MEX149 | 749249 | 8319993 | 318 | 19.4 | 10.2 | 1.9 | 24.6 | 3.6 | 223 | 1.7 | 204 | 164 | 44.9 | 25.1 | 3.7 | 25.8 | 1.6 | 7.0 | 123.0 | 10.3 | 0.12 | 0.03 | 245.53 | 20.96 |
| MEX150 | 749199 | 8320003 | 118 | 11.9 | 9.6 | 0.7 | 8.7 | 2.8 | 94.3 | 2.0 | 229 | 58.4 | 16.9 | 8.8 | 1.6 | 34.9 | 1.6 | 8.0 | 94.9 | 10.9 | 0.05 | 0.03 | 88.57 | 16.65 |
| MEX151 | 749203 | 8319945 | 343 | 23.9 | 13.5 | 1.8 | 26.5 | 4.6 | 252 | 2.2 | 223 | 169 | 45.0 | 26.2 | 4.1 | 29.3 | 1.9 | 8.0 | 175.0 | 13.0 | 0.13 | 0.03 | 251.50 | 18.97 |

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| SAMPLE ID | East | North | Ce | Dy | Er | Eu | Gd | Ho | La | Lu | Nb | Nd | Pr | Sm | Tb | Th | Tm | U | Y | Yb | TREO % | $Nb_2O_5$ % | Nd+Pr | NDPR% |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| MEX152 | 749250 | 8319949 | 399 | 19.4 | 13.1 | 1.2 | 19.8 | 3.8 | 358 | 3.0 | 1153 | 193 | 58.0 | 24.3 | 3.1 | 59.4 | 2.3 | 49.0 | 125.0 | 16.6 | 0.15 | 0.16 | 295.18 | 19.86 |
| MEX153 | 749302 | 8319948 | 222 | 16.1 | 11.9 | 0.9 | 12.4 | 3.5 | 82.7 | 3.2 | 219 | 67.9 | 17.9 | 11.2 | 2.3 | 31.6 | 2.0 | 7.0 | 127.0 | 14.4 | 0.07 | 0.03 | 100.81 | 13.98 |
| MEX154 | 749344 | 8319945 | 274 | 10.4 | 7.5 | 0.8 | 9.1 | 2.2 | 140 | 1.4 | 985 | 72.1 | 24.3 | 9.7 | 1.6 | 57.3 | 1.3 | 28.0 | 73.3 | 7.6 | 0.08 | 0.14 | 113.44 | 14.80 |
| MEX155 | 749401 | 8319950 | 274 | 6.8 | 5.4 | 0.4 | 5.7 | 1.4 | 180 | 1.4 | 188 | 58.5 | 19.3 | 6.5 | 1.0 | 20.9 | 0.9 | 6.0 | 48.0 | 6.7 | 0.07 | 0.03 | 91.58 | 12.34 |
| MEX156 | 749447 | 8319946 | 238 | 12.2 | 9.8 | 0.6 | 8.3 | 2.9 | 144 | 2.1 | 298 | 68 | 20.6 | 9.2 | 1.6 | 149.0 | 1.7 | 12.0 | 86.0 | 12.3 | 0.07 | 0.04 | 104.22 | 14.00 |
| MEX157 | 749499 | 8319948 | 246 | 12.1 | 10.6 | 0.5 | 6.9 | 3.0 | 92.5 | 2.2 | 339 | 40.9 | 12.8 | 5.8 | 1.5 | 33.0 | 1.9 | 12.0 | 99.2 | 13.2 | 0.07 | 0.05 | 63.22 | 9.49 |
| MEX158 | 749546 | 8319948 | 159 | 18.1 | 18.0 | 0.5 | 8.1 | 4.9 | 113 | 3.3 | 541 | 50.5 | 16.1 | 7.0 | 2.1 | 48.7 | 3.1 | 21.0 | 157.0 | 22.2 | 0.07 | 0.08 | 78.31 | 11.10 |
| MEX159 | 749600 | 8319950 | 622 | 16.7 | 8.7 | 1.6 | 23.5 | 2.7 | 403 | 1.8 | 491 | 220 | 65.7 | 28.1 | 3.2 | 45.1 | 1.4 | 13.0 | 104.0 | 10.1 | 0.18 | 0.07 | 336.00 | 18.49 |
| MEX160 | 749649 | 8319951 | 63.2 | 3.0 | 3.2 | 0.2 | 1.9 | 0.8 | 21.9 | 1.2 | 172 | 15.1 | 4.1 | 2.2 | 0.4 | 21.5 | 0.7 | 5.0 | 26.2 | 5.2 | 0.02 | 0.02 | 22.61 | 12.52 |
| MEX161 | 749701 | 8319947 | 303 | 21.1 | 13.1 | 1.1 | 15.7 | 4.0 | 173 | 2.4 | 1073 | 109 | 33.6 | 16.7 | 3.0 | 32.9 | 2.0 | 33.0 | 132.0 | 14.7 | 0.10 | 0.15 | 167.72 | 16.47 |
| MEX162 | 749750 | 8319952 | 407 | 22.1 | 22.0 | 1.0 | 15.1 | 5.5 | 152 | 4.7 | 932 | 100 | 28.4 | 15.9 | 3.0 | 46.6 | 4.0 | 30.0 | 180.0 | 29.7 | 0.12 | 0.13 | 150.94 | 12.59 |
| MEX163 | 749800 | 8319949 | 248 | 23.8 | 16.0 | 1.0 | 20.3 | 5.1 | 139 | 2.6 | 370 | 107 | 28.7 | 18.3 | 3.6 | 53.5 | 2.5 | 10.0 | 171.0 | 16.4 | 0.10 | 0.05 | 159.48 | 16.44 |
| MEX164 | 749845 | 8319949 | 215 | 25.1 | 18.6 | 1.1 | 20.9 | 5.5 | 137 | 3.2 | 341 | 104 | 27.7 | 18.9 | 3.7 | 20.9 | 3.0 | 10.0 | 175.0 | 20.9 | 0.09 | 0.05 | 154.72 | 16.45 |
| MEX166 | 749198 | 8319899 | 472 | 25.4 | 15.4 | 1.3 | 26.2 | 5.0 | 318 | 2.5 | 384 | 180 | 50.8 | 26.2 | 4.3 | 64.6 | 2.5 | 10.0 | 189.0 | 16.4 | 0.16 | 0.05 | 271.32 | 16.87 |
| MEX167 | 749246 | 8319901 | 140 | 10.5 | 8.6 | 0.6 | 7.9 | 2.4 | 121 | 1.8 | 235 | 63.1 | 18.5 | 8.8 | 1.5 | 25.3 | 1.6 | 8.0 | 78.1 | 11.5 | 0.06 | 0.03 | 95.94 | 16.76 |
| MEX168 | 749292 | 8319896 | 250 | 14.1 | 11.2 | 0.6 | 10.2 | 3.4 | 173 | 2.4 | 319 | 75.3 | 23.6 | 9.8 | 2.1 | 39.4 | 1.9 | 10.0 | 109.0 | 14.0 | 0.08 | 0.05 | 116.28 | 13.77 |
| MEX169 | 749348 | 8319897 | 33.9 | 2.0 | 2.1 | 0.1 | 2.1 | 0.5 | 26.9 | 1.2 | 53 | 18 | 4.8 | 2.5 | 0.3 | 3.5 | 0.5 | 1.0 | 18.0 | 5.1 | 0.01 | 0.01 | 26.76 | 18.90 |
| MEX170 | 749362 | 8319895 | 221 | 11.9 | 7.6 | 0.8 | 11.6 | 2.4 | 148 | 1.8 | 146 | 77.3 | 21.9 | 11.4 | 1.9 | 23.1 | 1.3 | 4.0 | 81.9 | 10.2 | 0.07 | 0.02 | 116.61 | 15.85 |
| MEX171 | 749403 | 8319884 | 75 | 5.6 | 4.7 | 0.3 | 4.1 | 1.3 | 37.8 | 1.4 | 64 | 24.1 | 6.7 | 4.1 | 0.8 | 16.2 | 0.9 | 3.0 | 39.6 | 7.2 | 0.03 | 0.01 | 36.22 | 14.06 |
| MEX172 | 749445 | 8319895 | 160 | 6.1 | 4.7 | 0.4 | 4.9 | 1.3 | 103 | 1.2 | 145 | 40.7 | 12.5 | 5.0 | 0.9 | 18.2 | 0.8 | 5.0 | 45.1 | 6.4 | 0.05 | 0.02 | 62.59 | 13.22 |
| MEX173 | 749495 | 8319901 | 306 | 5.7 | 4.8 | 0.4 | 5.0 | 1.3 | 149 | 1.2 | 250 | 54.1 | 17.4 | 6.1 | 0.9 | 23.1 | 0.9 | 7.0 | 38.2 | 6.7 | 0.07 | 0.04 | 84.10 | 11.66 |
| MEX174 | 749548 | 8319901 | 145 | 5.5 | 3.6 | 0.4 | 5.6 | 1.1 | 107 | 0.9 | 116 | 45.2 | 13.7 | 6.2 | 0.9 | 18.8 | 0.7 | 4.0 | 38.6 | 5.2 | 0.05 | 0.02 | 69.21 | 15.17 |
| MEX175 | 749605 | 8319892 | 239 | 10.2 | 6.5 | 0.7 | 9.7 | 1.9 | 110 | 1.3 | 1281 | 73.9 | 22.8 | 11.4 | 1.7 | 30.8 | 1.0 | 60.0 | 61.8 | 7.8 | 0.07 | 0.18 | 113.70 | 16.85 |
| MEX176 | 749648 | 8319898 | 119 | 3.3 | 2.6 | 0.3 | 3.3 | 0.7 | 42.7 | 1.0 | 310 | 29.7 | 8.6 | 4.2 | 0.6 | 8.3 | 0.5 | 10.0 | 19.6 | 4.7 | 0.03 | 0.04 | 44.97 | 15.48 |
| MEX177 | 749709 | 8319897 | 523 | 30.8 | 20.1 | 1.7 | 27.0 | 6.4 | 329 | 2.9 | 592 | 162 | 47.6 | 25.6 | 4.7 | 48.5 | 3.0 | 19.0 | 200.0 | 19.2 | 0.17 | 0.08 | 246.42 | 14.57 |
| MEX178 | 749753 | 8319903 | 463 | 31.0 | 22.1 | 2.3 | 30.2 | 6.5 | 392 | 3.3 | 709 | 237 | 68.1 | 35.9 | 4.8 | 85.9 | 3.6 | 23.0 | 186.0 | 23.9 | 0.18 | 0.10 | 358.65 | 19.80 |
| MEX179 | 749811 | 8319896 | 331 | 11.7 | 7.0 | 0.8 | 11.0 | 2.2 | 193 | 1.7 | 1367 | 100 | 33.7 | 13.4 | 1.7 | 24.9 | 1.3 | 52.0 | 73.4 | 9.4 | 0.10 | 0.20 | 157.34 | 16.52 |
| MEX180 | 749851 | 8319898 | 399 | 25.1 | 15.4 | 1.3 | 24.4 | 5.0 | 195 | 2.8 | 441 | 148 | 40.6 | 24.8 | 4.1 | 37.6 | 2.4 | 20.0 | 153.0 | 16.6 | 0.13 | 0.06 | 221.62 | 17.38 |
| MEX181 | 749899 | 8319897 | 391 | 12.8 | 8.2 | 0.8 | 15.3 | 2.4 | 228 | 1.9 | 804 | 145 | 42.0 | 20.7 | 2.2 | 58.7 | 1.4 | 48.0 | 64.0 | 10.5 | 0.11 | 0.12 | 219.91 | 19.35 |
| MEX182 | 749948 | 8319849 | 476 | 37.1 | 16.6 | 4.1 | 52.5 | 6.2 | 519 | 2.1 | 149 | 369 | 97.8 | 54.5 | 7.0 | 19.0 | 2.2 | 5.0 | 196.0 | 14.4 | 0.22 | 0.02 | 548.50 | 24.74 |
| MEX183 | 749926 | 8319847 | 201 | 11.8 | 7.0 | 2.4 | 13.5 | 2.3 | 132 | 1.1 | 172 | 84 | 23.0 | 13.0 | 2.0 | 22.3 | 1.1 | 5.0 | 79.7 | 7.0 | 0.07 | 0.02 | 125.75 | 17.99 |
| MEX184 | 749891 | 8319837 | 19.7 | 0.9 | 0.5 | 0.7 | 0.9 | 0.2 | 14.3 | 0.1 | 23 | 7.7 | 2.0 | 1.2 | 0.1 | 2.0 | 0.1 | 1.0 | 9.4 | 0.3 | 0.01 | 0.00 | 11.45 | 16.29 |
| MEX185 | 749853 | 8319848 | 449 | 16.2 | 15.8 | 0.9 | 13.9 | 3.9 | 207 | 3.7 | 1551 | 128 | 41.4 | 15.8 | 2.4 | 28.5 | 3.0 | 56.0 | 135.0 | 23.0 | 0.13 | 0.22 | 199.32 | 15.59 |
| MEX186 | 749811 | 8319849 | 272 | 17.1 | 12.5 | 1.0 | 16.1 | 3.5 | 156 | 2.6 | 383 | 113 | 30.4 | 18.0 | 2.7 | 42.5 | 2.3 | 17.0 | 95.5 | 16.5 | 0.09 | 0.05 | 168.53 | 18.46 |
| MEX187 | 749740 | 8319849 | 1127 | 20.6 | 14.8 | 1.2 | 19.7 | 4.4 | 781 | 3.0 | 910 | 217 | 75.2 | 21.5 | 3.3 | 112.0 | 2.5 | 41.0 | 142.0 | 18.6 | 0.30 | 0.13 | 343.92 | 11.66 |
| MEX188 | 749707 | 8319847 | 400 | 13.1 | 11.5 | 0.6 | 10.0 | 3.1 | 162 | 2.6 | 274 | 88.1 | 27.7 | 11.6 | 1.9 | 55.3 | 2.0 | 9.0 | 79.6 | 14.7 | 0.10 | 0.04 | 136.25 | 13.62 |
| MEX189 | 749654 | 8319845 | 403 | 11.6 | 6.9 | 0.7 | 10.7 | 2.3 | 199 | 1.5 | 1726 | 109 | 35.2 | 13.1 | 1.8 | 30.6 | 1.1 | 70.0 | 66.5 | 8.5 | 0.10 | 0.25 | 169.61 | 16.16 |

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| SAMPLE ID | East | North | Ce | Dy | Er | Eu | Gd | Ho | La | Lu | Nb | Nd | Pr | Sm | Tb | Th | Tm | U | Y | Yb | TREO % | $Nb_2O_5$ % | Nd+Pr | NDPR% |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| MEX191 | 749608 | 8319852 | 245 | 13.2 | 11.0 | 0.6 | 11.3 | 3.0 | 135 | 2.5 | 387 | 78.4 | 26.2 | 12.5 | 1.9 | 40.9 | 2.0 | 17.0 | 76.0 | 14.5 | 0.08 | 0.06 | 123.05 | 16.15 |
| MEX192 | 749550 | 8319846 | 659 | 26.7 | 22.2 | 1.3 | 18.3 | 6.1 | 282 | 4.3 | 2917 | 158 | 55.4 | 20.7 | 3.6 | 50.9 | 3.9 | 97.0 | 197.0 | 27.7 | 0.18 | 0.42 | 251.18 | 13.98 |
| MEX193 | 749495 | 8319842 | 151 | 5.7 | 5.1 | 0.2 | 2.9 | 1.4 | 93.6 | 1.4 | 152 | 24.7 | 9.4 | 2.9 | 0.7 | 18.8 | 0.9 | 6.0 | 43.3 | 7.0 | 0.04 | 0.02 | 40.16 | 9.50 |
| MEX194 | 749458 | 8319839 | 206 | 17.6 | 12.0 | 0.8 | 13.9 | 3.6 | 118 | 2.1 | 262 | 74.7 | 23.0 | 14.4 | 2.6 | 50.6 | 1.8 | 11.0 | 108.0 | 13.4 | 0.07 | 0.04 | 114.86 | 15.57 |
| MEX195 | 749430 | 8319838 | 98.7 | 6.5 | 5.7 | 0.2 | 3.4 | 1.6 | 66.3 | 1.4 | 158 | 24.1 | 8.5 | 2.7 | 0.8 | 22.7 | 1.1 | 6.0 | 44.1 | 7.8 | 0.03 | 0.02 | 38.42 | 11.67 |
| MEX196 | 749398 | 8319834 | 85.9 | 4.2 | 4.5 | 0.2 | 2.5 | 1.2 | 44.4 | 1.4 | 206 | 18.2 | 6.5 | 2.5 | 0.5 | 26.5 | 1.0 | 7.0 | 32.1 | 7.2 | 0.03 | 0.03 | 29.12 | 11.36 |
| MEX197 | 749349 | 8319847 | 390 | 9.2 | 5.8 | 0.6 | 11.0 | 1.8 | 222 | 1.4 | 147 | 101 | 33.6 | 13.8 | 1.7 | 18.7 | 0.9 | 4.0 | 57.4 | 6.6 | 0.10 | 0.02 | 158.44 | 15.36 |
| MEX198 | 749295 | 8319851 | 195 | 10.6 | 6.9 | 0.7 | 12.3 | 2.1 | 131 | 1.7 | 147 | 85.7 | 25.0 | 13.9 | 1.7 | 14.2 | 1.2 | 5.0 | 77.4 | 9.0 | 0.07 | 0.02 | 130.18 | 18.85 |
| MEX199 | 749241 | 8319842 | 286 | 36.3 | 17.8 | 3.5 | 53.8 | 6.4 | 522 | 2.7 | 198 | 361 | 99.2 | 57.9 | 6.9 | 16.9 | 2.5 | 7.0 | 280.0 | 16.1 | 0.21 | 0.03 | 540.89 | 25.82 |
| MEX200 | 749203 | 8319838 | 113 | 9.0 | 8.3 | 0.3 | 4.8 | 2.2 | 58.8 | 2.6 | 311 | 35.8 | 11.7 | 5.3 | 1.2 | 27.6 | 1.6 | 11.0 | 68.8 | 13.5 | 0.04 | 0.04 | 55.83 | 13.72 |
| MEX201 | 749201 | 8319802 | 192 | 13.9 | 9.0 | 1.2 | 16.7 | 2.5 | 180 | 2.5 | 300 | 125 | 39.7 | 21.0 | 2.3 | 28.2 | 1.6 | 10.0 | 88.0 | 13.3 | 0.08 | 0.04 | 193.72 | 22.82 |
| MEX202 | 749250 | 8319797 | 463 | 41.2 | 18.4 | 3.9 | 57.0 | 7.0 | 491 | 2.4 | 229 | 362 | 104.0 | 62.1 | 7.7 | 26.4 | 2.4 | 8.0 | 247.0 | 15.7 | 0.23 | 0.03 | 547.89 | 24.27 |
| MEX203 | 749300 | 8319801 | 261 | 15.9 | 8.3 | 1.4 | 19.7 | 2.9 | 181 | 1.3 | 142 | 129 | 37.4 | 22.1 | 2.8 | 13.7 | 1.2 | 5.0 | 96.4 | 8.1 | 0.09 | 0.02 | 195.63 | 20.65 |
| MEX204 | 749344 | 8319796 | 349 | 10.2 | 6.9 | 0.6 | 10.7 | 2.1 | 142 | 1.5 | 180 | 76.7 | 24.3 | 11.8 | 1.6 | 27.2 | 1.2 | 6.0 | 60.7 | 9.2 | 0.09 | 0.03 | 118.81 | 13.89 |
| MEX205 | 749399 | 8319800 | 358 | 23.0 | 14.6 | 1.3 | 24.4 | 4.6 | 268 | 3.0 | 423 | 171 | 53.9 | 28.2 | 3.7 | 47.3 | 2.5 | 14.0 | 138.0 | 17.9 | 0.13 | 0.06 | 264.55 | 19.81 |
| MEX206 | 749450 | 8319803 | 365 | 13.4 | 11.3 | 0.6 | 8.6 | 3.1 | 84.7 | 2.9 | 319 | 52.1 | 16.6 | 9.6 | 1.9 | 59.0 | 2.0 | 9.0 | 83.2 | 15.6 | 0.08 | 0.05 | 80.80 | 9.94 |
| MEX207 | 749502 | 8319802 | 92.9 | 1.7 | 1.4 | 0.1 | 1.3 | 0.4 | 51.6 | 0.7 | 67 | 15 | 5.2 | 1.6 | 0.2 | 8.6 | 0.4 | 2.0 | 12.2 | 2.9 | 0.02 | 0.01 | 23.80 | 10.52 |
| MEX208 | 749544 | 8319798 | 87.6 | 5.3 | 4.0 | 0.2 | 3.2 | 1.2 | 30.5 | 0.9 | 96 | 15.4 | 4.8 | 2.5 | 0.7 | 8.4 | 0.7 | 3.0 | 44.6 | 5.2 | 0.03 | 0.01 | 23.70 | 9.44 |
| MEX209 | 749600 | 8319799 | 482 | 4.6 | 4.2 | 0.2 | 3.1 | 1.1 | 54.5 | 1.2 | 377 | 22.4 | 8.6 | 3.4 | 0.7 | 22.0 | 0.7 | 11.0 | 41.2 | 5.9 | 0.08 | 0.05 | 36.51 | 4.72 |
| MEX210 | 749646 | 8319799 | 211 | 11.7 | 8.1 | 0.5 | 9.4 | 2.4 | 75.8 | 1.9 | 223 | 53.4 | 17.1 | 10.0 | 1.7 | 27.2 | 1.4 | 5.0 | 69.6 | 11.1 | 0.06 | 0.03 | 82.99 | 14.16 |
| MEX211 | 749698 | 8319798 | 512 | 28.8 | 16.8 | 2.5 | 36.6 | 5.4 | 536 | 3.1 | 914 | 325 | 104.0 | 46.7 | 5.1 | 103.0 | 2.7 | 31.0 | 171.0 | 20.1 | 0.22 | 0.13 | 504.73 | 23.23 |
| MEX212 | 749750 | 8319800 | 301 | 16.2 | 11.6 | 0.8 | 13.1 | 3.6 | 133 | 1.9 | 688 | 76.6 | 24.4 | 12.9 | 2.2 | 42.1 | 1.8 | 25.0 | 120.0 | 12.1 | 0.09 | 0.10 | 118.81 | 13.43 |
| MEX213 | 749794 | 8319794 | 309 | 39.5 | 17.4 | 4.8 | 64.2 | 6.5 | 845 | 3.1 | 278 | 514 | 159.0 | 79.2 | 7.9 | 23.0 | 2.5 | 9.0 | 289.0 | 18.5 | 0.28 | 0.04 | 791.63 | 28.17 |
| MEX214 | 749856 | 8319794 | 688 | 19.8 | 11.4 | 1.5 | 24.7 | 3.7 | 385 | 1.7 | 4272 | 230 | 78.2 | 31.4 | 3.5 | 35.5 | 1.7 | 122.0 | 103.0 | 11.2 | 0.19 | **0.61** | 362.74 | 18.92 |
| MEX216 | 749904 | 8319800 | 161 | 5.1 | 3.1 | 0.3 | 5.4 | 1.0 | 84.7 | 0.8 | 829 | 50.3 | 17.1 | 6.5 | 0.8 | 10.1 | 0.6 | 31.0 | 32.9 | 4.0 | 0.04 | 0.12 | 79.31 | 17.63 |
| MEX217 | 749945 | 8319800 | 204 | 10.5 | 7.4 | 0.7 | 10.2 | 2.3 | 123 | 1.4 | 466 | 73.7 | 23.7 | 11.2 | 1.6 | 43.0 | 1.2 | 17.0 | 70.9 | 9.0 | 0.07 | 0.07 | 114.63 | 17.28 |
| MEX218 | 750002 | 8319803 | 372 | 26.0 | 17.2 | 1.6 | 23.2 | 5.2 | 190 | 2.9 | 348 | 136 | 40.9 | 24.9 | 3.9 | 78.0 | 2.6 | 8.0 | 176.0 | 18.2 | 0.13 | 0.05 | 208.02 | 16.56 |
| MEX219 | 749251 | 8319745 | 343 | 17.3 | 9.4 | 1.4 | 21.6 | 3.3 | 167 | 1.4 | 190 | 119 | 33.8 | 21.4 | 3.1 | 21.6 | 1.3 | 7.0 | 118.0 | 9.0 | 0.10 | 0.03 | 179.68 | 17.12 |
| MEX220 | 749302 | 8319752 | 330 | 13.6 | 7.4 | 1.3 | 17.5 | 2.6 | 242 | 1.3 | 160 | 135 | 43.6 | 18.4 | 2.4 | 21.0 | 1.2 | 5.0 | 98.0 | 7.8 | 0.11 | 0.02 | 210.15 | 18.96 |
| MEX221 | 749363 | 8319754 | 47.8 | 1.9 | 2.0 | 0.2 | 2.1 | 0.5 | 14 | 1.1 | 58 | 13.7 | 3.7 | 2.6 | 0.3 | 2.4 | 0.4 | 1.0 | 14.2 | 4.6 | 0.01 | 0.01 | 20.47 | 15.56 |
| MEX222 | 749394 | 8319752 | 158 | 6.6 | 5.8 | 0.2 | 3.6 | 1.5 | 49.1 | 1.6 | 145 | 17.9 | 6.2 | 3.3 | 0.8 | 19.8 | 1.0 | 6.0 | 59.3 | 7.7 | 0.04 | 0.02 | 28.39 | 7.24 |
| MEX223 | 749452 | 8319745 | 434 | 19.2 | 11.7 | 1.2 | 22.1 | 3.6 | 261 | 2.6 | 366 | 158 | 49.3 | 24.9 | 3.3 | 37.1 | 2.0 | 11.0 | 121.0 | 14.4 | 0.14 | 0.05 | 243.87 | 17.97 |
| MEX224 | 749495 | 8319747 | 88.2 | 8.4 | 8.1 | 0.2 | 4.0 | 2.1 | 56.8 | 1.8 | 290 | 26.1 | 8.8 | 3.4 | 0.9 | 23.5 | 1.4 | 10.0 | 78.7 | 10.4 | 0.04 | 0.04 | 41.06 | 11.33 |
| MEX225 | 749552 | 8319749 | 128 | 4.2 | 3.2 | 0.3 | 4.1 | 0.9 | 90.9 | 1.0 | 54 | 36.6 | 12.7 | 5.0 | 0.7 | 7.6 | 0.6 | 1.0 | 28.9 | 4.9 | 0.04 | 0.01 | 57.99 | 14.98 |
| MEX226 | 749600 | 8319750 | 71.7 | 6.4 | 4.9 | 0.2 | 3.7 | 1.4 | 17.3 | 1.3 | 168 | 12.6 | 3.8 | 2.8 | 0.8 | 13.0 | 0.8 | 5.0 | 51.5 | 6.6 | 0.02 | 0.02 | 19.23 | 8.50 |
| MEX227 | 749650 | 8319750 | 95.3 | 8.5 | 5.6 | 0.5 | 7.7 | 1.8 | 77.7 | 1.3 | 151 | 46.8 | 14.6 | 8.1 | 1.3 | 10.9 | 1.0 | 5.0 | 63.9 | 6.9 | 0.04 | 0.02 | 72.18 | 17.58 |
| MEX228 | 749700 | 8319750 | 428 | 32.5 | 17.2 | 2.7 | 41.4 | 6.1 | 358 | 2.6 | 288 | 235 | 66.0 | 39.3 | 5.9 | 29.3 | 2.4 | 9.0 | 217.0 | 16.1 | 0.18 | 0.04 | 353.89 | 20.04 |

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| SAMPLE ID | East | North | Ce | Dy | Er | Eu | Gd | Ho | La | Lu | Nb | Nd | Pr | Sm | Tb | Th | Tm | U | Y | Yb | TREO % | $Nb_2O_5$ % | Nd+Pr | NDPR% |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| MEX229 | 749750 | 8319750 | 798 | 26.4 | 14.9 | 2.1 | 32.6 | 5.1 | 471 | 2.4 | 306 | 251 | 77.9 | 33.9 | 4.5 | 34.2 | 2.1 | 9.0 | 186.0 | 14.2 | 0.23 | 0.04 | 386.85 | 16.71 |
| MEX230 | 749800 | 8319750 | 235 | 7.0 | 5.0 | 0.5 | 6.9 | 1.4 | 91.4 | 1.3 | 1733 | 69.6 | 22.0 | 9.6 | 1.1 | 25.4 | 0.9 | 59.0 | 44.4 | 7.1 | 0.06 | 0.25 | 107.75 | 17.76 |
| MEX231 | 749850 | 8319750 | 178 | 18.1 | 13.3 | 0.7 | 12.5 | 3.8 | 75.9 | 1.9 | 225 | 54.4 | 15.9 | 11.1 | 2.6 | 73.0 | 2.1 | 9.0 | 106.0 | 14.2 | 0.06 | 0.03 | 82.64 | 13.39 |
| MEX232 | 749900 | 8319750 | 361 | 18.1 | 12.8 | 1.3 | 19.7 | 3.8 | 190 | 2.6 | 763 | 128 | 38.9 | 20.8 | 2.9 | 57.3 | 2.2 | 24.0 | 121.0 | 15.5 | 0.11 | 0.11 | 196.27 | 17.36 |
| MEX233 | 749947 | 8319753 | 717 | 36.3 | 19.4 | 2.4 | 46.3 | 6.5 | 607 | 3.2 | 489 | 355 | 108.0 | 51.2 | 6.3 | 71.9 | 3.0 | 18.0 | 230.0 | 21.0 | 0.27 | 0.07 | 544.56 | 20.52 |
| MEX234 | 750000 | 8319750 | 273 | 6.7 | 4.1 | 0.6 | 9.7 | 1.2 | 149 | 0.9 | 1071 | 93 | 30.1 | 12.6 | 1.2 | 24.9 | 0.8 | 37.0 | 34.6 | 5.9 | 0.07 | 0.15 | 144.89 | 19.34 |
| MEX235 | 749305 | 8319699 | 616 | 29.8 | 14.6 | 2.7 | 39.7 | 5.2 | 480 | 2.1 | 280 | 289 | 87.5 | 43.0 | 5.6 | 31.7 | 2.1 | 9.0 | 175.0 | 13.8 | 0.22 | 0.04 | 442.80 | 20.43 |
| MEX236 | 749350 | 8319695 | 189 | 22.0 | 9.3 | 2.8 | 31.6 | 3.4 | 311 | 1.4 | 196 | 259 | 81.0 | 43.8 | 4.3 | 16.9 | 1.3 | 5.0 | 93.8 | 9.7 | 0.13 | 0.03 | 399.93 | 31.61 |
| MEX237 | 749400 | 8319704 | 608 | 44.9 | 18.8 | 4.5 | 68.6 | 7.2 | 803 | 2.3 | 218 | 507 | 152.0 | 75.9 | 8.7 | 27.1 | 2.4 | 7.0 | 246.0 | 16.0 | 0.31 | 0.03 | 775.01 | 25.30 |
| MEX238 | 749450 | 8319701 | 420 | 29.9 | 10.8 | 3.7 | 46.8 | 4.3 | 652 | 1.5 | 161 | 427 | 136.0 | 63.3 | 6.1 | 15.2 | 1.5 | 5.0 | 129.0 | 9.9 | 0.23 | 0.02 | 662.37 | 28.65 |
| MEX239 | 749500 | 8319706 | 58.4 | 4.5 | 3.8 | 0.2 | 3.0 | 1.1 | 22.6 | 1.2 | 132 | 14.9 | 4.9 | 2.9 | 0.6 | 17.7 | 0.7 | 4.0 | 31.5 | 6.1 | 0.02 | 0.02 | 23.32 | 12.33 |
| MEX241 | 749544 | 8319695 | 220 | 12.0 | 8.1 | 0.7 | 10.5 | 2.6 | 69.1 | 2.0 | 211 | 50.3 | 15.3 | 9.4 | 2.0 | 31.4 | 1.4 | 8.0 | 72.4 | 10.7 | 0.06 | 0.03 | 77.14 | 13.11 |
| MEX242 | 749600 | 8319700 | 182 | 22.0 | 12.3 | 1.7 | 23.4 | 4.3 | 204 | 2.2 | 168 | 135 | 40.7 | 21.1 | 3.6 | 21.1 | 1.9 | 6.0 | 150.0 | 12.9 | 0.10 | 0.02 | 206.59 | 21.06 |
| MEX243 | 749650 | 8319700 | 168 | 21.3 | 12.1 | 1.7 | 21.7 | 4.1 | 194 | 2.1 | 176 | 124 | 38.2 | 19.9 | 3.4 | 21.5 | 1.8 | 6.0 | 146.0 | 12.2 | 0.09 | 0.03 | 190.75 | 20.62 |
| MEX244 | 749700 | 8319700 | 90 | 8.6 | 6.5 | 0.5 | 7.3 | 1.8 | 59 | 2.0 | 126 | 43.3 | 13.4 | 8.0 | 1.3 | 15.2 | 1.2 | 3.0 | 54.2 | 9.7 | 0.04 | 0.02 | 66.74 | 18.08 |
| MEX245 | 749750 | 8319700 | 1023 | 29.7 | 19.0 | 1.7 | 32.1 | 5.8 | 499 | 3.6 | 790 | 280 | 90.1 | 38.6 | 4.8 | 102.0 | 3.3 | 27.0 | 190.0 | 23.0 | 0.27 | 0.11 | 435.50 | 16.10 |
| MEX246 | 749800 | 8319700 | 2509 | 44.1 | 21.3 | 4.1 | 57.9 | 7.5 | 1532 | 2.2 | 505 | 532 | 190.0 | 68.9 | 8.3 | 179.0 | 2.9 | 17.0 | 246.0 | 16.3 | **0.63** | 0.07 | 850.08 | 13.47 |
| MEX247 | 749850 | 8319700 | 470 | 24.2 | 17.7 | 1.1 | 23.2 | 5.1 | 222 | 3.3 | 679 | 143 | 44.9 | 24.0 | 3.7 | 82.7 | 2.9 | 29.0 | 159.0 | 21.2 | 0.14 | 0.10 | 221.02 | 15.72 |
| MEX248 | 749900 | 8319700 | 2234 | 42.9 | 25.5 | 3.3 | 59.4 | 8.2 | 917 | 6.0 | 2246 | 533 | 174.0 | 74.7 | 8.6 | 83.4 | 4.5 | 99.0 | 223.0 | 34.8 | **0.52** | 0.32 | 831.92 | 15.87 |
| MEX249 | 749950 | 8319700 | 814 | 12.9 | 6.3 | 1.3 | 17.2 | 2.1 | 354 | 1.4 | 4409 | 210 | 75.1 | 25.6 | 2.4 | 28.4 | 1.0 | 122.0 | 57.2 | 7.5 | 0.19 | **0.63** | 335.68 | 17.55 |
| MEX250 | 750000 | 8319700 | 918 | 46.0 | 32.6 | 2.1 | 42.9 | 9.7 | 438 | 6.3 | 1206 | 282 | 88.9 | 44.6 | 7.2 | 138.0 | 5.5 | 54.0 | 303.0 | 40.3 | 0.27 | 0.17 | 436.37 | 15.96 |
| MEX251 | 750050 | 8319700 | 867 | 20.8 | 14.9 | 1.4 | 22.7 | 4.3 | 426 | 3.6 | 3097 | 214 | 74.9 | 26.8 | 3.5 | 41.3 | 2.6 | 75.0 | 137.0 | 20.1 | 0.22 | 0.44 | 340.09 | 15.34 |
| MEX252 | 749351 | 8319661 | 355 | 46.0 | 23.2 | 4.2 | 62.0 | 8.5 | 429 | 3.2 | 258 | 315 | 85.9 | 54.5 | 8.3 | 26.1 | 3.1 | 7.0 | 324.0 | 20.1 | 0.21 | 0.04 | 471.25 | 22.54 |
| MEX253 | 749400 | 8319653 | 760 | 13.8 | 6.0 | 1.5 | 22.4 | 2.1 | 411 | 1.5 | 99 | 211 | 69.7 | 27.0 | 2.8 | 10.8 | 0.9 | 1.0 | 69.0 | 7.8 | 0.19 | 0.01 | 330.30 | 17.09 |
| MEX254 | 749450 | 8319652 | 860 | 21.1 | 15.7 | 1.4 | 22.8 | 4.3 | 422 | 3.5 | 2891 | 212 | 74.6 | 27.1 | 3.7 | 34.0 | 2.6 | 74.0 | 136.0 | 19.7 | 0.22 | 0.41 | 337.42 | 15.33 |
| MEX255 | 749500 | 8319654 | 135 | 6.0 | 5.7 | 0.3 | 3.8 | 1.6 | 65.6 | 1.4 | 164 | 23.8 | 8.5 | 3.8 | 0.8 | 32.7 | 1.0 | 5.0 | 47.3 | 7.5 | 0.04 | 0.02 | 37.99 | 10.07 |
| MEX256 | 749550 | 8319650 | 1228 | 40.1 | 22.6 | 2.9 | 42.5 | 7.6 | 452 | 3.4 | 547 | 290 | 91.6 | 44.7 | 6.6 | 67.6 | 3.4 | 19.0 | 233.0 | 22.4 | 0.30 | 0.08 | 448.92 | 14.92 |
| MEX257 | 749600 | 8319650 | 597 | 6.6 | 4.3 | 0.7 | 9.8 | 1.1 | 364 | 1.8 | 409 | 146 | 53.4 | 13.6 | 1.3 | 13.4 | 0.9 | 12.0 | 34.4 | 9.0 | 0.15 | 0.06 | 234.81 | 15.71 |
| MEX258 | 749650 | 8319650 | 2.3 | 0.0 | 0.0 | 0.0 | 0.1 | 0.0 | 1.2 | 0.1 | 68 | 0.7 | 0.2 | 0.2 | 0.0 | 1.4 | 0.0 | 3.0 | 4.0 | 0.1 | 0.00 | 0.01 | 1.07 | 9.74 |
| MEX259 | 749700 | 8319650 | 361 | 11.8 | 6.4 | 1.0 | 15.7 | 2.3 | 306 | 1.4 | 680 | 125 | 42.5 | 16.2 | 2.1 | 36.7 | 1.0 | 23.0 | 67.9 | 7.6 | 0.12 | 0.10 | 197.20 | 16.98 |
| MEX260 | 749750 | 8319650 | 340 | 7.9 | 5.8 | 0.6 | 8.0 | 1.5 | 137 | 1.5 | 1371 | 83.1 | 29.4 | 11.2 | 1.3 | 32.5 | 1.1 | 58.0 | 34.7 | 8.7 | 0.08 | 0.20 | 132.47 | 16.36 |
| MEX261 | 749797 | 8319647 | 300 | 6.4 | 4.2 | 0.5 | 6.9 | 1.2 | 122 | 1.4 | 1020 | 69.2 | 23.7 | 8.8 | 1.0 | 25.0 | 0.9 | 34.0 | 29.6 | 7.3 | 0.07 | 0.15 | 109.37 | 15.56 |
| MEX262 | 749850 | 8319650 | 154 | 3.1 | 2.8 | 0.2 | 2.8 | 0.8 | 56.9 | 0.9 | 229 | 21.8 | 8.1 | 3.1 | 0.5 | 11.3 | 0.5 | 7.0 | 25.2 | 3.7 | 0.03 | 0.03 | 35.19 | 10.23 |
| MEX263 | 749900 | 8319650 | 1351 | 70.8 | 44.5 | 4.4 | 68.3 | 14.5 | 582 | 6.6 | 1307 | 380 | 116.0 | 71.7 | 11.7 | 191.0 | 7.1 | 48.0 | 422.0 | 47.1 | 0.39 | 0.19 | 583.38 | 15.11 |
| MEX264 | 749950 | 8319650 | 1199 | 140.0 | 122.0 | 6.9 | 110.0 | 32.9 | 610 | 20.9 | 2500 | 505 | 152.0 | 110.0 | 19.7 | 823.0 | 20.5 | 56.0 | 888.0 | 147.0 | 0.49 | 0.36 | 772.68 | 15.68 |
| MEX266 | 750000 | 8319650 | 472 | 47.4 | 41.7 | 1.4 | 26.2 | 11.3 | 133 | 12.5 | 1021 | 85.1 | 28.7 | 18.0 | 5.8 | 37.6 | 8.6 | 33.0 | 401.0 | 76.1 | 0.17 | 0.15 | 133.90 | 8.05 |
| MEX267 | 750050 | 8319650 | 480 | 19.5 | 15.2 | 1.5 | 21.7 | 4.3 | 298 | 3.7 | 1019 | 158 | 51.5 | 22.0 | 3.3 | 28.9 | 2.7 | 26.0 | 154.0 | 21.1 | 0.15 | 0.15 | 246.45 | 16.29 |

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| SAMPLE ID | East | North | Ce | Dy | Er | Eu | Gd | Ho | La | Lu | Nb | Nd | Pr | Sm | Tb | Th | Tm | U | Y | Yb | TREO % | $Nb_2O_5$ % | Nd+Pr | NDPR% |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| MEX268 | 750100 | 8319650 | 389 | 22.4 | 23.5 | 1.4 | 20.2 | 5.7 | 234 | 6.7 | 1884 | 146 | 48.4 | 20.8 | 3.1 | 17.8 | 4.7 | 49.0 | 227.0 | 38.1 | 0.14 | 0.27 | 228.77 | 15.92 |
| MEX269 | 749400 | 8319606 | 500 | 19.9 | 15.9 | 1.5 | 22.5 | 4.5 | 311 | 3.8 | 1034 | 166 | 53.5 | 23.1 | 3.4 | 26.1 | 2.9 | 28.0 | 152.0 | 22.2 | 0.16 | 0.15 | 258.25 | 16.47 |
| MEX270 | 749450 | 8319608 | 1186 | 135.0 | 45.6 | 17.8 | 253.0 | 19.1 | 3089 | 6.5 | 766 | 2044 | 622.0 | 311.0 | 30.1 | 53.2 | 6.0 | 28.0 | 693.0 | 41.9 | 1.01 | 0.11 | 3135.62 | 31.06 |
| MEX271 | 749500 | 8319603 | 77.4 | 5.5 | 4.5 | 0.3 | 4.8 | 1.2 | 38.4 | 1.4 | 137 | 26.4 | 8.2 | 4.7 | 0.8 | 16.8 | 0.9 | 4.0 | 42.9 | 6.6 | 0.03 | 0.02 | 40.68 | 15.04 |
| MEX272 | 749550 | 8319600 | 488 | 12.3 | 7.9 | 0.9 | 14.4 | 2.4 | 321 | 1.9 | 389 | 137 | 48.5 | 16.6 | 2.1 | 28.2 | 1.4 | 14.0 | 75.9 | 10.4 | 0.14 | 0.06 | 218.43 | 15.93 |
| MEX273 | 749600 | 8319600 | 127 | 8.9 | 7.2 | 0.4 | 5.8 | 2.0 | 31.9 | 2.5 | 144 | 22 | 7.0 | 4.8 | 1.3 | 15.9 | 1.3 | 5.0 | 63.7 | 9.7 | 0.04 | 0.02 | 34.12 | 9.51 |
| MEX274 | 749650 | 8319600 | 144 | 3.2 | 2.7 | 0.3 | 3.7 | 0.6 | 53.4 | 1.1 | 134 | 30.1 | 9.9 | 4.3 | 0.5 | 6.4 | 0.5 | 5.0 | 20.1 | 5.2 | 0.03 | 0.02 | 47.06 | 13.94 |
| MEX275 | 749700 | 8319600 | 347 | 13.1 | 9.2 | 1.0 | 13.0 | 2.8 | 166 | 2.1 | 667 | 92.8 | 30.6 | 14.2 | 2.2 | 33.5 | 1.6 | 25.0 | 82.3 | 11.6 | 0.10 | 0.10 | 145.16 | 15.25 |
| MEX276 | 749750 | 8319600 | 81.6 | 2.3 | 2.3 | 0.1 | 1.8 | 0.5 | 33.9 | 1.1 | 166 | 15.3 | 5.4 | 2.0 | 0.3 | 6.4 | 0.5 | 6.0 | 16.4 | 4.6 | 0.02 | 0.02 | 24.31 | 11.98 |
| MEX277 | 749800 | 8319600 | 978 | 45.0 | 25.9 | 3.4 | 54.3 | 8.4 | 768 | 3.9 | 803 | 400 | 129.0 | 58.2 | 8.0 | 80.1 | 4.0 | 31.0 | 303.0 | 26.6 | 0.34 | 0.11 | 622.42 | 18.40 |
| MEX278 | 749850 | 8319600 | 703 | 30.2 | 22.7 | 1.8 | 26.2 | 6.6 | 289 | 4.6 | 1834 | 169 | 54.7 | 26.0 | 4.6 | 62.2 | 3.9 | 53.0 | 226.0 | 28.1 | 0.19 | 0.26 | 263.15 | 13.63 |
| MEX279 | 749900 | 8319600 | 846 | 18.4 | 12.3 | 1.2 | 18.6 | 3.8 | 248 | 2.5 | 1759 | 150 | 51.2 | 22.1 | 3.0 | 65.4 | 2.0 | 67.0 | 109.0 | 15.5 | 0.18 | 0.25 | 236.77 | 13.01 |
| MEX280 | 749950 | 8319600 | 928 | 20.8 | 14.4 | 1.3 | 20.4 | 4.2 | 280 | 2.7 | 2010 | 163 | 56.4 | 24.2 | 3.5 | 76.5 | 2.3 | 73.0 | 122.0 | 16.6 | 0.20 | 0.29 | 258.23 | 12.86 |
| MEX281 | 750000 | 8319600 | 256 | 24.7 | 16.2 | 1.9 | 24.2 | 5.2 | 164 | 3.3 | 343 | 120 | 35.5 | 23.2 | 3.9 | 70.2 | 3.0 | 10.0 | 159.0 | 18.8 | 0.10 | 0.05 | 182.83 | 17.67 |
| MEX282 | 750050 | 8319600 | 224 | 10.4 | 11.2 | 0.5 | 9.6 | 2.7 | 138 | 3.5 | 1000 | 81 | 27.4 | 9.5 | 1.6 | 18.4 | 2.2 | 27.0 | 103.0 | 19.1 | 0.08 | 0.14 | 127.52 | 16.44 |
| MEX283 | 750100 | 8319600 | 302 | 22.6 | 31.8 | 0.6 | 10.7 | 7.0 | 133 | 9.6 | 1579 | 72.3 | 25.8 | 9.5 | 2.4 | 14.1 | 6.5 | 45.0 | 271.0 | 54.3 | 0.12 | 0.23 | 115.50 | 9.92 |
| MEX284 | 749450 | 8319554 | 941 | 41.3 | 16.8 | 4.3 | 58.8 | 6.7 | 582 | 2.4 | 218 | 398 | 123.0 | 61.6 | 8.0 | 28.1 | 2.3 | 5.0 | 226.0 | 15.5 | 0.30 | 0.03 | 612.84 | 20.50 |
| MEX285 | 749500 | 8319551 | 944 | 40.5 | 17.5 | 4.2 | 62.9 | 6.5 | 893 | 2.9 | 530 | 506 | 159.0 | 67.0 | 8.1 | 44.5 | 2.5 | 18.0 | 219.0 | 18.0 | 0.35 | 0.08 | 782.30 | 22.15 |
| MEX286 | 749550 | 8319550 | 268 | 12.8 | 10.3 | 0.9 | 13.0 | 2.9 | 165 | 2.6 | 239 | 96.3 | 32.0 | 15.2 | 2.1 | 39.9 | 1.9 | 7.0 | 90.1 | 15.1 | 0.09 | 0.03 | 150.97 | 17.23 |
| MEX287 | 749600 | 8319550 | 762 | 33.4 | 18.1 | 2.2 | 37.0 | 6.1 | 346 | 3.1 | 886 | 236 | 74.5 | 39.6 | 5.8 | 40.3 | 2.7 | 31.0 | 184.0 | 19.4 | 0.21 | 0.13 | 365.31 | 17.12 |
| MEX288 | 749650 | 8319550 | 684 | 30.3 | 23.2 | 1.8 | 26.5 | 6.6 | 279 | 4.8 | 1743 | 163 | 53.5 | 25.4 | 4.7 | 63.3 | 3.9 | 54.0 | 235.0 | 30.0 | 0.19 | 0.25 | 254.77 | 13.40 |
| MEX289 | 749700 | 8319550 | 853 | 37.1 | 16.6 | 3.7 | 58.1 | 6.0 | 805 | 2.8 | 526 | 455 | 146.0 | 61.2 | 7.5 | 43.5 | 2.3 | 17.0 | 211.0 | 17.3 | 0.32 | 0.08 | 707.11 | 22.01 |
| MEX291 | 749767 | 8319555 | 117 | 5.1 | 5.3 | 0.3 | 4.2 | 1.2 | 49.5 | 1.9 | 260 | 30.3 | 10.3 | 5.2 | 0.8 | 19.5 | 1.1 | 10.0 | 23.4 | 9.9 | 0.03 | 0.04 | 47.75 | 14.96 |
| MEX292 | 749800 | 8319550 | 649 | 22.5 | 15.3 | 1.6 | 20.9 | 4.5 | 301 | 3.6 | 1744 | 195 | 64.0 | 29.0 | 3.6 | 39.2 | 2.6 | 69.0 | 99.3 | 17.2 | 0.17 | 0.25 | 304.81 | 17.72 |
| MEX293 | 749850 | 8319550 | 387 | 7.6 | 6.9 | 0.4 | 5.3 | 1.7 | 69.1 | 2.4 | 405 | 40.5 | 13.9 | 6.2 | 1.1 | 27.6 | 1.4 | 12.0 | 37.3 | 12.0 | 0.07 | 0.06 | 64.08 | 8.91 |
| MEX294 | 749900 | 8319550 | 905 | 25.0 | 14.0 | 1.9 | 32.3 | 4.4 | 669 | 3.3 | 709 | 317 | 110.0 | 43.4 | 4.7 | 49.3 | 2.5 | 27.0 | 151.0 | 19.0 | 0.28 | 0.10 | 502.65 | 18.19 |
| MEX295 | 749928 | 8319550 | 2798 | 49.9 | 30.4 | 4.0 | 63.0 | 9.4 | 1426 | 5.1 | 2129 | 689 | 241.0 | 85.3 | 9.1 | 124.0 | 4.7 | 65.0 | 240.0 | 32.4 | 0.68 | 0.30 | 1094.83 | 15.99 |
| MEX296 | 750000 | 8319550 | 296 | 13.3 | 9.6 | 0.8 | 11.0 | 2.8 | 141 | 1.8 | 590 | 81.4 | 28.0 | 12.3 | 2.0 | 63.4 | 1.6 | 17.0 | 71.2 | 10.9 | 0.08 | 0.08 | 128.73 | 15.62 |
| MEX297 | 750050 | 8319550 | 617 | 46.5 | 19.7 | 4.5 | 73.8 | 7.4 | 341 | 3.3 | 533 | 271 | 71.1 | 72.0 | 9.9 | 58.2 | 2.8 | 19.0 | 163.0 | 20.1 | 0.21 | 0.08 | 402.01 | 19.45 |
| MEX298 | 750100 | 8319550 | 196 | 9.7 | 10.8 | 0.4 | 7.4 | 2.6 | 100 | 3.3 | 632 | 55.2 | 18.9 | 7.9 | 1.3 | 16.7 | 2.2 | 18.0 | 74.1 | 17.6 | 0.06 | 0.09 | 87.18 | 14.25 |
| MEX299 | 749500 | 8319501 | 509 | 25.4 | 10.7 | 2.6 | 36.0 | 4.2 | 291 | 1.6 | 176 | 222 | 63.0 | 35.3 | 4.9 | 19.4 | 1.5 | 5.0 | 117.0 | 9.9 | 0.16 | 0.03 | 335.11 | 20.91 |
| MEX300 | 749550 | 8319500 | 372 | 16.9 | 8.3 | 1.4 | 21.5 | 3.0 | 278 | 1.6 | 190 | 169 | 51.8 | 24.7 | 3.0 | 31.4 | 1.5 | 6.0 | 75.0 | 9.3 | 0.12 | 0.03 | 259.74 | 20.90 |
| MEX301 | 749600 | 8319500 | 305 | 5.5 | 4.0 | 0.4 | 6.4 | 1.1 | 188 | 1.4 | 116 | 74.7 | 26.2 | 8.6 | 0.9 | 24.7 | 0.8 | 3.0 | 31.3 | 6.8 | 0.08 | 0.02 | 118.76 | 14.94 |
| MEX302 | 749650 | 8319500 | 886 | 49.0 | 28.8 | 4.3 | 51.9 | 9.4 | 530 | 3.3 | 466 | 383 | 117.0 | 65.0 | 8.1 | 109.0 | 4.3 | 17.0 | 252.0 | 25.6 | 0.29 | 0.07 | 588.09 | 20.24 |
| MEX303 | 749700 | 8319500 | 199 | 3.2 | 3.0 | 0.2 | 2.6 | 0.7 | 52.2 | 1.2 | 400 | 25.4 | 10.5 | 3.4 | 0.5 | 11.8 | 0.6 | 15.0 | 20.1 | 5.5 | 0.04 | 0.06 | 42.34 | 10.65 |
| MEX304 | 749744 | 8319501 | 609 | 23.3 | 16.3 | 1.2 | 18.8 | 4.8 | 177 | 3.2 | 629 | 114 | 37.0 | 20.5 | 3.3 | 85.1 | 2.7 | 17.0 | 128.0 | 19.6 | 0.14 | 0.09 | 177.66 | 12.45 |
| MEX305 | 749800 | 8319500 | 345 | 4.9 | 3.6 | 0.3 | 3.6 | 0.9 | 73.7 | 1.0 | 328 | 28 | 11.2 | 3.7 | 0.7 | 16.9 | 0.6 | 12.0 | 24.3 | 5.1 | 0.06 | 0.05 | 46.24 | 7.51 |

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| SAMPLE ID | East | North | Ce | Dy | Er | Eu | Gd | Ho | La | Lu | Nb | Nd | Pr | Sm | Tb | Th | Tm | U | Y | Yb | TREO % | $Nb_2O_5$ % | Nd+Pr | NDPR% |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| MEX306 | 749850 | 8319500 | 1076 | 31.5 | 24.1 | 1.5 | 21.6 | 6.7 | 224 | 5.0 | 1008 | 141 | 47.9 | 23.9 | 4.5 | 98.7 | 4.2 | 31.0 | 144.0 | 31.1 | 0.22 | 0.14 | 222.36 | 10.26 |
| MEX307 | 749900 | 8319500 | 231 | 17.8 | 11.8 | 1.1 | 16.8 | 3.7 | 120 | 2.0 | 512 | 84.7 | 27.3 | 16.5 | 2.8 | 23.3 | 1.7 | 14.0 | 101.0 | 12.1 | 0.08 | 0.07 | 131.80 | 16.82 |
| MEX308 | 749950 | 8319500 | 312 | 17.5 | 12.6 | 1.1 | 14.5 | 3.6 | 152 | 2.7 | 595 | 103 | 32.4 | 17.4 | 2.6 | 47.3 | 2.1 | 20.0 | 99.0 | 15.3 | 0.09 | 0.09 | 159.28 | 16.78 |
| MEX309 | 749986 | 8319496 | 761 | 35.0 | 23.6 | 1.5 | 27.0 | 7.5 | 452 | 3.9 | 1001 | 186 | 65.4 | 25.6 | 5.1 | 123.0 | 3.8 | 33.0 | 222.0 | 25.8 | 0.22 | 0.14 | 295.93 | 13.30 |
| MEX310 | 750050 | 8319500 | 309 | 9.5 | 5.8 | 1.0 | 12.6 | 1.7 | 174 | 1.6 | 772 | 115 | 36.1 | 17.2 | 1.8 | 24.7 | 1.1 | 21.0 | 37.9 | 8.2 | 0.09 | 0.11 | 177.78 | 20.22 |
| MEX311 | 750100 | 8319500 | 313 | 6.1 | 4.0 | 0.5 | 7.1 | 1.1 | 168 | 1.3 | 1402 | 79.9 | 29.4 | 9.4 | 1.1 | 19.0 | 0.9 | 32.0 | 29.2 | 6.7 | 0.08 | 0.20 | 128.73 | 16.27 |
| MEX312 | 749550 | 8319450 | 361 | 18.3 | 9.1 | 2.2 | 26.6 | 3.2 | 247 | 1.4 | 211 | 186 | 54.8 | 30.6 | 3.6 | 19.0 | 1.3 | 7.0 | 87.6 | 8.9 | 0.12 | 0.03 | 283.17 | 22.68 |
| MEX313 | 749600 | 8319450 | 144 | 4.7 | 4.1 | 0.2 | 2.6 | 1.2 | 24.1 | 1.4 | 133 | 16.3 | 5.3 | 2.8 | 0.6 | 13.0 | 0.9 | 3.0 | 34.1 | 6.7 | 0.03 | 0.02 | 25.38 | 8.39 |
| MEX314 | 749650 | 8319450 | 313 | 18.4 | 9.8 | 1.4 | 21.6 | 3.3 | 206 | 1.6 | 276 | 152 | 46.2 | 24.8 | 3.3 | 21.8 | 1.5 | 8.0 | 89.3 | 10.1 | 0.11 | 0.04 | 233.11 | 21.53 |
| MEX316 | 749700 | 8319450 | 353 | 7.5 | 6.4 | 0.3 | 4.6 | 1.7 | 97.9 | 1.8 | 217 | 34.7 | 13.2 | 4.7 | 1.0 | 18.1 | 1.1 | 7.0 | 51.8 | 9.3 | 0.07 | 0.03 | 56.45 | 7.90 |
| MEX317 | 749750 | 8319450 | 272 | 11.9 | 9.0 | 0.6 | 9.1 | 2.5 | 91.8 | 2.4 | 532 | 59.4 | 19.0 | 9.6 | 1.7 | 44.4 | 1.7 | 19.0 | 62.3 | 13.9 | 0.07 | 0.08 | 92.26 | 13.48 |
| MEX318 | 749800 | 8319450 | 369 | 11.1 | 10.5 | 0.5 | 7.3 | 2.7 | 130 | 3.1 | 349 | 52.4 | 18.8 | 7.6 | 1.5 | 40.5 | 2.1 | 11.0 | 65.7 | 17.0 | 0.08 | 0.05 | 83.85 | 9.92 |
| MEX319 | 749850 | 8319450 | 511 | 29.3 | 13.6 | 3.3 | 38.5 | 4.8 | 577 | 2.6 | 373 | 336 | 110.0 | 49.8 | 5.5 | 30.7 | 2.2 | 9.0 | 129.0 | 16.0 | 0.22 | 0.05 | 524.81 | 24.03 |
| MEX320 | 749900 | 8319450 | 345 | 11.5 | 7.4 | 0.8 | 12.4 | 2.2 | 225 | 1.9 | 251 | 125 | 41.7 | 16.5 | 1.9 | 37.5 | 1.4 | 5.0 | 51.8 | 10.3 | 0.10 | 0.04 | 196.15 | 19.12 |
| MEX321 | 749950 | 8319450 | 1145 | 13.0 | 9.8 | 0.7 | 11.6 | 2.8 | 154 | 2.4 | 693 | 92.2 | 31.2 | 14.7 | 2.1 | 53.8 | 1.7 | 29.0 | 60.1 | 13.8 | 0.19 | 0.10 | 145.20 | 7.67 |
| MEX322 | 749986 | 8319448 | 924 | 14.7 | 9.3 | 1.2 | 16.3 | 2.8 | 345 | 2.2 | 1252 | 162 | 56.5 | 21.5 | 2.8 | 29.8 | 1.6 | 44.0 | 61.4 | 12.3 | 0.20 | 0.18 | 257.24 | 13.04 |
| MEX323 | 750050 | 8319450 | 286 | 3.7 | 2.7 | 0.4 | 5.0 | 0.7 | 131 | 1.2 | 1352 | 70.6 | 26.6 | 8.1 | 0.7 | 9.2 | 0.6 | 39.0 | 19.8 | 4.5 | 0.07 | 0.19 | 114.43 | 16.92 |
| MEX324 | 750100 | 8319450 | 153 | 13.7 | 13.1 | 0.6 | 8.6 | 3.3 | 46.4 | 3.2 | 187 | 35.8 | 11.0 | 7.5 | 2.0 | 26.5 | 2.4 | 7.0 | 96.9 | 18.2 | 0.05 | 0.03 | 55.05 | 10.93 |
| MEX325 | 750150 | 8319450 | 656 | 19.5 | 20.1 | 1.4 | 19.4 | 4.7 | 450 | 5.6 | 3287 | 253 | 88.7 | 24.1 | 2.9 | 12.4 | 3.8 | 87.0 | 168.0 | 30.2 | 0.21 | 0.47 | 402.24 | 19.15 |
| MEX326 | 749600 | 8319400 | 297 | 24.6 | 19.5 | 1.0 | 14.5 | 5.6 | 95.5 | 3.9 | 431 | 76.2 | 23.7 | 14.5 | 3.2 | 58.5 | 3.3 | 16.0 | 159.0 | 22.8 | 0.09 | 0.06 | 117.51 | 12.69 |
| MEX327 | 749650 | 8319400 | 233 | 22.2 | 17.8 | 0.7 | 11.5 | 5.2 | 72.2 | 3.0 | 316 | 49.2 | 15.4 | 9.2 | 2.9 | 69.2 | 2.9 | 9.0 | 147.0 | 18.9 | 0.07 | 0.05 | 75.93 | 10.24 |
| MEX328 | 749700 | 8319400 | 162 | 1.6 | 1.2 | 0.1 | 1.9 | 0.3 | 97.9 | 0.6 | 29 | 26.2 | 9.8 | 2.8 | 0.3 | 8.1 | 0.3 | 1.0 | 9.0 | 2.1 | 0.04 | 0.00 | 42.45 | 11.15 |
| MEX329 | 749747 | 8319402 | 1491 | 55.1 | 21.6 | 8.2 | 92.7 | 7.8 | 1660 | 2.8 | 912 | 1018 | 337.0 | 146.0 | 11.9 | 75.4 | 3.0 | 34.0 | 222.0 | 19.8 | **0.61** | 0.13 | 1594.56 | 26.22 |
| MEX330 | 749800 | 8319396 | 274 | 5.9 | 3.5 | 0.6 | 7.2 | 1.1 | 176 | 1.0 | 845 | 80.1 | 28.2 | 9.4 | 1.1 | 13.3 | 0.7 | 34.0 | 25.4 | 5.0 | 0.07 | 0.12 | 127.50 | 17.15 |
| MEX331 | 749850 | 8319400 | 309 | 20.0 | 16.6 | 0.7 | 10.9 | 4.5 | 79.3 | 3.4 | 831 | 52 | 17.2 | 10.8 | 2.7 | 101.0 | 2.8 | 26.0 | 107.0 | 20.5 | 0.08 | 0.12 | 81.37 | 10.22 |
| MEX332 | 749900 | 8319400 | 352 | 21.9 | 16.6 | 1.0 | 16.3 | 4.7 | 137 | 3.2 | 1037 | 88.9 | 30.2 | 17.4 | 3.1 | 79.7 | 2.9 | 36.0 | 134.0 | 20.6 | 0.10 | 0.15 | 140.22 | 13.65 |
| MEX333 | 749959 | 8319394 | 661 | 18.4 | 13.6 | 0.9 | 14.8 | 4.0 | 173 | 2.8 | 1051 | 103 | 35.6 | 17.0 | 2.9 | 87.5 | 2.3 | 36.0 | 94.4 | 17.4 | 0.14 | 0.15 | 163.18 | 11.61 |
| MEX334 | 750000 | 8319400 | 331 | 21.2 | 15.7 | 1.5 | 19.8 | 4.6 | 163 | 3.6 | 447 | 113 | 33.4 | 21.7 | 3.4 | 86.4 | 2.8 | 14.0 | 111.0 | 20.2 | 0.10 | 0.06 | 172.13 | 16.51 |
| MEX335 | 750050 | 8319400 | 261 | 8.5 | 5.9 | 0.6 | 7.1 | 1.7 | 131 | 1.4 | 956 | 74.4 | 24.9 | 9.7 | 1.2 | 25.3 | 1.1 | 33.0 | 39.8 | 7.9 | 0.07 | 0.14 | 116.84 | 16.85 |
| MEX336 | 750100 | 8319400 | 283 | 8.4 | 5.7 | 0.6 | 7.4 | 1.6 | 115 | 1.5 | 270 | 62.6 | 21.2 | 9.6 | 1.3 | 39.7 | 1.1 | 8.0 | 40.6 | 8.2 | 0.07 | 0.04 | 98.62 | 14.40 |
| MEX337 | 750150 | 8319400 | 456 | 14.8 | 8.0 | 1.2 | 17.6 | 2.7 | 268 | 1.6 | 376 | 156 | 51.3 | 21.9 | 2.6 | 41.6 | 1.3 | 11.0 | 68.2 | 8.6 | 0.13 | 0.05 | 243.93 | 18.80 |
| MEX338 | 749650 | 8319350 | 403 | 28.4 | 25.3 | 0.9 | 17.0 | 6.8 | 57 | 4.4 | 1287 | 57.2 | 17.0 | 14.0 | 3.8 | 119.0 | 4.4 | 49.0 | 192.0 | 30.3 | 0.10 | 0.18 | 87.23 | 8.32 |
| MEX339 | 749700 | 8319350 | 789 | 6.4 | 3.8 | 0.7 | 11.1 | 1.1 | 517 | 1.5 | 131 | 182 | 68.7 | 16.8 | 1.4 | 21.9 | 0.8 | 2.0 | 23.2 | 7.3 | 0.20 | 0.02 | 295.23 | 15.07 |
| MEX341 | 749750 | 8319350 | 379 | 2.4 | 1.9 | 0.3 | 3.9 | 0.5 | 172 | 1.0 | 222 | 56.5 | 19.9 | 5.3 | 0.5 | 6.0 | 0.4 | 8.0 | 9.8 | 3.9 | 0.08 | 0.03 | 89.92 | 11.34 |
| MEX342 | 749800 | 8319350 | 74.8 | 2.4 | 2.3 | 0.2 | 2.4 | 0.6 | 50.5 | 1.2 | 72 | 22.2 | 6.5 | 3.1 | 0.4 | 4.2 | 0.5 | 3.0 | 13.1 | 4.4 | 0.02 | 0.01 | 33.76 | 15.24 |
| MEX343 | 749850 | 8319350 | 426 | 14.5 | 10.8 | 0.8 | 14.4 | 3.1 | 253 | 2.1 | 440 | 129 | 39.7 | 16.4 | 2.3 | 56.4 | 1.8 | 14.0 | 90.6 | 13.4 | 0.12 | 0.06 | 198.42 | 16.20 |
| MEX344 | 749900 | 8319350 | 601 | 12.9 | 7.9 | 1.1 | 14.9 | 2.4 | 327 | 1.9 | 2260 | 166 | 52.2 | 19.5 | 2.2 | 25.3 | 1.3 | 76.0 | 69.3 | 10.2 | 0.16 | 0.32 | 256.63 | 16.54 |

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| SAMPLE ID | East | North | Ce | Dy | Er | Eu | Gd | Ho | La | Lu | Nb | Nd | Pr | Sm | Tb | Th | Tm | U | Y | Yb | TREO % | $Nb_2O_5$ % | Nd+Pr | NDPR% |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| MEX345 | 749950 | 8319350 | 581 | 15.2 | 7.5 | 1.2 | 20.2 | 2.7 | 288 | 1.5 | 1435 | 170 | 51.5 | 24.4 | 2.8 | 26.2 | 1.2 | 62.0 | 76.2 | 7.8 | 0.15 | 0.21 | 260.49 | 17.30 |
| MEX346 | 749991 | 8319338 | 272 | 19.1 | 13.7 | 1.1 | 17.6 | 3.9 | 119 | 2.7 | 266 | 81.6 | 22.3 | 16.7 | 2.8 | 47.0 | 2.3 | 13.0 | 92.5 | 16.8 | 0.08 | 0.04 | 122.11 | 14.81 |
| MEX347 | 750050 | 8319350 | 544 | 37.7 | 25.6 | 2.2 | 33.7 | 8.1 | 189 | 4.1 | 491 | 143 | 38.3 | 30.1 | 6.0 | 131.0 | 3.9 | 19.0 | 224.0 | 26.9 | 0.16 | 0.07 | 213.08 | 13.38 |
| MEX348 | 750100 | 8319350 | 173 | 11.4 | 8.5 | 0.5 | 8.0 | 2.5 | 50.9 | 2.1 | 203 | 33.8 | 9.4 | 6.1 | 1.6 | 22.4 | 1.5 | 12.0 | 71.3 | 10.8 | 0.05 | 0.03 | 50.81 | 10.71 |
| MEX349 | 750150 | 8319350 | 177 | 7.2 | 4.9 | 0.5 | 7.2 | 1.4 | 69.3 | 1.5 | 91 | 49.9 | 14.0 | 8.5 | 1.2 | 19.9 | 0.9 | 4.0 | 34.6 | 7.2 | 0.05 | 0.01 | 75.09 | 16.17 |
| MEX350 | 749700 | 8319300 | 213 | 1.9 | 1.8 | 0.1 | 1.8 | 0.4 | 75.2 | 1.1 | 34 | 23.7 | 7.6 | 2.4 | 0.3 | 4.1 | 0.4 | 1.0 | 10.1 | 4.3 | 0.04 | 0.00 | 36.84 | 8.85 |
| MEX351 | 749750 | 8319300 | 251 | 21.9 | 17.2 | 1.2 | 17.7 | 4.9 | 109 | 2.9 | 412 | 86.4 | 24.3 | 16.9 | 3.3 | 54.5 | 2.7 | 17.0 | 139.0 | 18.7 | 0.09 | 0.06 | 130.18 | 15.03 |
| MEX352 | 749800 | 8319300 | 220 | 3.4 | 2.9 | 0.3 | 3.2 | 0.8 | 75.7 | 1.1 | 102 | 29.8 | 9.1 | 3.8 | 0.6 | 9.4 | 0.6 | 4.0 | 19.1 | 5.4 | 0.05 | 0.01 | 45.75 | 10.07 |
| MEX353 | 749850 | 8319300 | 1009 | 10.4 | 6.1 | 1.1 | 16.0 | 1.7 | 533 | 1.9 | 309 | 218 | 69.1 | 20.8 | 2.1 | 24.7 | 1.1 | 10.0 | 46.2 | 9.0 | 0.23 | 0.04 | 337.79 | 14.42 |
| MEX354 | 749900 | 8319300 | 324 | 14.5 | 9.4 | 1.0 | 14.9 | 2.9 | 182 | 1.8 | 565 | 101 | 30.2 | 16.1 | 2.4 | 34.8 | 1.5 | 22.0 | 82.8 | 10.8 | 0.10 | 0.08 | 154.28 | 16.12 |
| MEX355 | 749950 | 8319300 | 467 | 9.6 | 5.7 | 0.8 | 12.0 | 1.8 | 284 | 1.7 | 1716 | 124 | 40.7 | 15.4 | 1.7 | 17.7 | 1.0 | 68.0 | 48.0 | 8.5 | 0.12 | 0.25 | 193.84 | 15.78 |
| MEX356 | 750016 | 8319279 | 426 | 6.3 | 4.0 | 0.5 | 6.9 | 1.1 | 212 | 0.9 | 2656 | 97.5 | 33.7 | 9.4 | 1.1 | 20.7 | 0.6 | 70.0 | 34.6 | 4.3 | 0.10 | 0.38 | 154.48 | 15.28 |
| MEX357 | 750050 | 8319300 | 514 | 22.4 | 14.9 | 1.2 | 23.7 | 4.5 | 285 | 2.8 | 669 | 172 | 49.8 | 25.7 | 3.7 | 58.6 | 2.4 | 26.0 | 122.0 | 18.0 | 0.15 | 0.10 | 260.80 | 17.18 |
| MEX358 | 750100 | 8319300 | 297 | 18.0 | 10.7 | 1.8 | 21.1 | 3.6 | 196 | 2.1 | 215 | 137 | 36.1 | 21.8 | 3.2 | 22.9 | 1.8 | 6.0 | 111.0 | 12.6 | 0.11 | 0.03 | 203.41 | 19.37 |
| MEX359 | 750155 | 8319285 | 173 | 9.3 | 5.3 | 0.7 | 10.3 | 1.7 | 80.4 | 1.0 | 162 | 62.5 | 17.1 | 10.3 | 1.5 | 14.9 | 0.8 | 5.0 | 59.1 | 5.7 | 0.05 | 0.02 | 93.55 | 17.68 |
| MEX360 | 749750 | 8319250 | 2553 | 32.6 | 17.1 | 2.7 | 47.2 | 5.7 | 1497 | 4.4 | 461 | 574 | 181.0 | 58.1 | 6.5 | 79.3 | 2.9 | 12.0 | 162.0 | 24.2 | **0.62** | 0.07 | 888.20 | 14.29 |
| MEX361 | 749800 | 8319250 | 729 | 24.0 | 12.0 | 2.0 | 29.1 | 4.3 | 363 | 2.0 | 1097 | 219 | 63.9 | 33.4 | 4.3 | 44.0 | 1.7 | 44.0 | 115.0 | 11.3 | 0.19 | 0.16 | 332.65 | 17.12 |
| MEX362 | 749850 | 8319250 | 599 | 10.3 | 8.4 | 0.5 | 8.2 | 2.3 | 104 | 1.8 | 543 | 57.4 | 17.8 | 8.5 | 1.6 | 51.1 | 1.4 | 16.0 | 73.7 | 9.2 | 0.11 | 0.08 | 88.49 | 8.05 |
| MEX363 | 749900 | 8319250 | 452 | 7.5 | 5.1 | 0.6 | 9.3 | 1.5 | 180 | 1.4 | 1131 | 90.9 | 27.2 | 11.0 | 1.3 | 20.2 | 0.9 | 47.0 | 37.5 | 7.6 | 0.10 | 0.16 | 138.84 | 13.80 |
| MEX364 | 749950 | 8319250 | 349 | 16.4 | 12.5 | 0.9 | 12.7 | 3.7 | 101 | 2.2 | 247 | 72.2 | 20.1 | 12.8 | 2.4 | 30.6 | 1.9 | 8.0 | 98.9 | 13.2 | 0.09 | 0.04 | 108.47 | 12.45 |
| MEX366 | 749997 | 8319237 | 376 | 6.5 | 4.4 | 0.4 | 7.1 | 1.2 | 251 | 1.6 | 145 | 83.1 | 27.3 | 8.0 | 1.1 | 13.8 | 0.8 | 8.0 | 30.6 | 6.4 | 0.10 | 0.02 | 129.92 | 13.42 |
| MEX367 | 750037 | 8319269 | 81.6 | 11.1 | 15.0 | 0.2 | 4.9 | 3.3 | 34.1 | 3.9 | 242 | 22.9 | 6.6 | 3.9 | 1.1 | 23.1 | 3.0 | 13.0 | 106.0 | 23.1 | 0.04 | 0.03 | 34.64 | 8.91 |
| MEX368 | 750100 | 8319250 | 408 | 24.0 | 12.1 | 2.2 | 33.3 | 4.5 | 288 | 1.8 | 128 | 197 | 50.9 | 29.1 | 4.5 | 17.3 | 1.7 | 4.0 | 180.0 | 10.5 | 0.15 | 0.02 | 291.28 | 19.40 |
| MEX369 | 750150 | 8319250 | 149 | 5.2 | 3.8 | 0.4 | 5.1 | 1.1 | 59.1 | 1.4 | 95 | 34.8 | 10.4 | 5.4 | 0.9 | 9.6 | 0.8 | 4.0 | 32.3 | 6.7 | 0.04 | 0.01 | 53.13 | 13.92 |
| MEX370 | 750202 | 8319266 | 289 | 11.9 | 9.2 | 0.6 | 10.0 | 2.5 | 79.3 | 2.4 | 734 | 65.1 | 18.7 | 10.9 | 1.7 | 44.7 | 1.7 | 22.0 | 67.0 | 14.0 | 0.07 | 0.10 | 98.53 | 13.95 |
| MEX371 | 749785 | 8319204 | 114 | 9.5 | 8.0 | 0.4 | 6.3 | 2.2 | 39.6 | 1.8 | 257 | 31.2 | 8.5 | 5.7 | 1.3 | 34.7 | 1.4 | 7.0 | 65.3 | 10.5 | 0.04 | 0.04 | 46.67 | 12.61 |
| MEX372 | 749850 | 8319200 | 360 | 17.6 | 7.8 | 1.7 | 25.2 | 3.0 | 229 | 1.4 | 229 | 162 | 42.3 | 26.2 | 3.5 | 17.7 | 1.2 | 14.0 | 90.8 | 8.0 | 0.12 | 0.03 | 240.03 | 20.40 |
| MEX373 | 749900 | 8319200 | 388 | 14.2 | 9.2 | 1.0 | 16.3 | 2.8 | 228 | 2.2 | 291 | 130 | 37.3 | 17.7 | 2.4 | 33.4 | 1.6 | 11.0 | 86.7 | 11.9 | 0.11 | 0.04 | 196.75 | 17.23 |
| MEX374 | 749950 | 8319200 | 334 | 6.0 | 5.7 | 0.2 | 3.2 | 1.5 | 33.2 | 1.2 | 322 | 18.7 | 6.0 | 3.2 | 0.8 | 37.8 | 1.0 | 7.0 | 49.5 | 7.5 | 0.06 | 0.05 | 29.11 | 5.05 |
| MEX375 | 750009 | 8319199 | 285 | 14.0 | 7.9 | 0.9 | 16.5 | 2.6 | 156 | 1.7 | 368 | 108 | 29.0 | 17.1 | 2.4 | 20.8 | 1.2 | 11.0 | 90.9 | 9.6 | 0.09 | 0.05 | 160.95 | 17.99 |
| MEX376 | 750050 | 8319200 | 206 | 8.9 | 4.7 | 1.2 | 13.1 | 1.5 | 122 | 1.0 | 132 | 98.8 | 25.8 | 14.5 | 1.7 | 10.5 | 0.7 | 4.0 | 45.7 | 5.5 | 0.07 | 0.02 | 146.38 | 22.13 |
| MEX377 | 750100 | 8319200 | 193 | 11.4 | 6.2 | 1.2 | 15.0 | 2.2 | 109 | 1.2 | 137 | 89.3 | 22.0 | 13.5 | 2.0 | 8.7 | 0.9 | 3.0 | 72.4 | 6.4 | 0.07 | 0.02 | 130.75 | 19.91 |
| MEX378 | 750150 | 8319200 | 318 | 11.9 | 6.4 | 0.9 | 17.0 | 2.2 | 180 | 1.4 | 128 | 116 | 31.5 | 16.9 | 2.2 | 9.1 | 1.1 | 4.0 | 73.7 | 7.7 | 0.09 | 0.02 | 173.31 | 18.31 |
| MEX379 | 750200 | 8319200 | 297 | 14.5 | 7.8 | 1.6 | 19.0 | 2.6 | 172 | 1.5 | 298 | 126 | 33.6 | 19.7 | 2.8 | 17.5 | 1.2 | 8.0 | 82.9 | 8.6 | 0.10 | 0.04 | 187.61 | 19.74 |
| MEX381 | 750299 | 8321997 | 102 | 4.7 | 2.0 | 3.9 | 6.3 | 0.8 | 54.4 | 0.4 | 37 | 46.4 | 12.2 | 7.5 | 0.9 | 3.9 | 0.4 | 3.0 | 20.7 | 1.7 | 0.03 | 0.01 | 68.87 | 21.71 |
| MEX382 | 750400 | 8322000 | 115 | 5.0 | 2.3 | 3.9 | 6.8 | 0.9 | 61.5 | 0.4 | 49 | 49.3 | 13.8 | 8.4 | 1.0 | 3.8 | 0.4 | 3.0 | 23.9 | 1.8 | 0.04 | 0.01 | 74.21 | 21.00 |
| MEX383 | 750498 | 8322003 | 124 | 5.8 | 2.6 | 3.7 | 7.5 | 1.0 | 68.2 | 0.4 | 61 | 54.6 | 15.3 | 8.8 | 1.1 | 3.4 | 0.4 | 3.0 | 28.1 | 2.0 | 0.04 | 0.01 | 82.15 | 21.14 |

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| SAMPLE ID | East | North | Ce | Dy | Er | Eu | Gd | Ho | La | Lu | Nb | Nd | Pr | Sm | Tb | Th | Tm | U | Y | Yb | TREO % | $Nb_2O_5$ % | Nd+Pr | NDPR% |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| MEX387 | 750898 | 8321999 | 112 | 4.9 | 2.3 | 4.0 | 6.9 | 0.9 | 61.8 | 0.3 | 47 | 48.4 | 12.9 | 7.7 | 0.9 | 5.5 | 0.3 | 2.0 | 25.5 | 2.1 | 0.03 | 0.01 | 72.06 | 20.62 |
| MEX390 | 750300 | 8321800 | 90.4 | 4.3 | 2.3 | 3.4 | 6.5 | 0.9 | 52 | 0.4 | 48 | 43.2 | 11.1 | 7.0 | 0.8 | 4.3 | 0.3 | 1.0 | 24.1 | 2.1 | 0.03 | 0.01 | 63.85 | 21.37 |
| MEX393 | 750500 | 8321799 | 259 | 10.2 | 6.8 | 1.0 | 9.0 | 2.0 | 167 | 1.5 | 403 | 68.7 | 24.2 | 10.4 | 1.5 | 41.8 | 1.2 | 13.0 | 67.5 | 8.8 | 0.08 | 0.06 | 109.33 | 14.21 |
| MEX394 | 750599 | 8321800 | 248 | 9.7 | 7.0 | 0.9 | 9.0 | 2.0 | 164 | 1.5 | 370 | 69.6 | 24.0 | 10.1 | 1.6 | 40.6 | 1.2 | 13.0 | 65.9 | 8.9 | 0.08 | 0.05 | 110.19 | 14.68 |
| MEX395 | 750700 | 8321802 | 91.9 | 4.4 | 1.9 | 3.0 | 5.8 | 0.7 | 52.4 | 0.3 | 50 | 41.8 | 10.9 | 6.5 | 0.8 | 6.9 | 0.3 | 1.0 | 22.9 | 1.7 | 0.03 | 0.01 | 61.88 | 21.01 |
| MEX396 | 750799 | 8321800 | 95.9 | 4.9 | 2.2 | 3.4 | 6.1 | 0.8 | 56.4 | 0.4 | 63 | 43.6 | 11.5 | 7.3 | 0.9 | 5.8 | 0.3 | 3.0 | 25.9 | 2.1 | 0.03 | 0.01 | 64.70 | 20.59 |
| MEX397 | 750900 | 8321799 | 99 | 4.2 | 2.2 | 2.9 | 5.9 | 0.8 | 56.4 | 0.3 | 67 | 42.7 | 11.6 | 6.5 | 0.9 | 4.5 | 0.4 | 2.0 | 27.7 | 1.2 | 0.03 | 0.01 | 63.83 | 20.22 |
| MEX398 | 750998 | 8321801 | 80.4 | 3.7 | 1.8 | 2.7 | 5.2 | 0.6 | 45 | 0.3 | 41 | 36.9 | 9.6 | 5.8 | 0.8 | 3.8 | 0.2 | 1.0 | 19.1 | 1.4 | 0.03 | 0.01 | 54.61 | 21.30 |
| MEX405 | 750802 | 8321601 | 91.2 | 4.5 | 2.2 | 2.5 | 6.2 | 0.8 | 50.7 | 0.3 | 48 | 38.7 | 10.8 | 6.7 | 0.8 | 4.8 | 0.3 | 1.0 | 27.1 | 1.7 | 0.03 | 0.01 | 58.21 | 19.79 |
| MEX407 | 751000 | 8321600 | 239 | 9.4 | 6.8 | 0.9 | 8.8 | 2.0 | 161 | 1.4 | 389 | 65.4 | 22.7 | 9.7 | 1.5 | 39.4 | 1.2 | 12.0 | 65.9 | 8.6 | 0.07 | 0.06 | 103.66 | 14.25 |
| MEX447 | 750200 | 8320800 | 253 | 8.7 | 5.3 | 3.0 | 9.8 | 1.7 | 150 | 0.8 | 232 | 75.3 | 23.2 | 10.6 | 1.5 | 25.3 | 0.8 | 6.0 | 52.0 | 5.6 | 0.07 | 0.03 | 115.88 | 16.01 |
| MEX448 | 750300 | 8320800 | 462 | 15.7 | 9.8 | 1.6 | 16.8 | 3.0 | 262 | 1.9 | 421 | 133 | 43.9 | 19.9 | 2.6 | 59.1 | 1.5 | 11.0 | 83.6 | 12.0 | 0.13 | 0.06 | 208.21 | 16.18 |
| MEX450 | 750500 | 8320800 | 310 | 10.6 | 6.0 | 1.6 | 11.7 | 1.9 | 188 | 1.4 | 244 | 87.9 | 28.7 | 12.3 | 1.8 | 31.8 | 1.1 | 7.0 | 59.8 | 7.3 | 0.09 | 0.03 | 137.17 | 15.61 |
| MEX506 | 750200 | 8320200 | 655 | 45.1 | 26.7 | 2.6 | 41.3 | 9.0 | 378 | 2.5 | 945 | 230 | 71.6 | 40.6 | 7.1 | 91.3 | 3.5 | 38.0 | 306.0 | 19.1 | 0.22 | 0.14 | 354.74 | 15.99 |
| MEX507 | 750300 | 8320200 | 619 | 33.0 | 44.0 | 0.9 | 16.2 | 9.8 | 322 | 11.8 | 4598 | 151 | 55.5 | 15.5 | 3.8 | 10.7 | 8.8 | 70.0 | 371.0 | 71.2 | 0.21 | **0.66** | 243.23 | 11.59 |
| MEX510 | 750600 | 8320200 | 3135 | 359.0 | 210.0 | 17.3 | 301.0 | 71.6 | 1569 | 20.1 | 2854 | 1217 | 347.0 | 272.0 | 56.0 | 909.0 | 29.5 | 29.0 | 1822.0 | 171.0 | **1.16** | 0.41 | 1838.75 | 15.88 |
| MEX528 | 750400 | 8320000 | 152 | 7.5 | 6.4 | 0.3 | 5.5 | 1.6 | 28.9 | 1.7 | 301 | 28.6 | 8.3 | 5.9 | 1.0 | 26.3 | 1.3 | 6.0 | 38.6 | 9.8 | 0.04 | 0.04 | 43.36 | 12.04 |
| MEX555 | 751100 | 8319801 | 265 | 9.3 | 5.5 | 3.3 | 10.2 | 1.7 | 158 | 1.0 | 255 | 81.3 | 26.1 | 11.9 | 1.6 | 37.5 | 0.9 | 9.0 | 43.4 | 5.8 | 0.08 | 0.04 | 126.31 | 16.82 |
| MEX569 | 750500 | 8319600 | 519 | 26.5 | 13.5 | 2.7 | 31.6 | 4.9 | 337 | 2.1 | 219 | 233 | 72.4 | 37.2 | 4.7 | 30.3 | 2.1 | 7.0 | 107.0 | 13.8 | 0.17 | 0.03 | 359.20 | 21.28 |
| MEX589 | 750100 | 8319400 | 285 | 28.4 | 27.2 | 1.3 | 16.3 | 7.1 | 146 | 4.8 | 726 | 99.7 | 32.0 | 18.4 | 3.5 | 114.0 | 4.5 | 35.0 | 174.0 | 32.0 | 0.11 | 0.10 | 154.98 | 14.59 |
| MEX594 | 750600 | 8319400 | 84.9 | 13.5 | 10.0 | 0.6 | 7.7 | 3.0 | 31.5 | 2.2 | 267 | 27.9 | 8.0 | 6.5 | 1.8 | 172.0 | 1.7 | 10.0 | 83.1 | 12.8 | 0.04 | 0.04 | 42.26 | 11.82 |
| MEX612 | 750103 | 8319200 | 264 | 15.8 | 10.1 | 1.1 | 14.8 | 3.1 | 121 | 2.0 | 189 | 88.1 | 27.0 | 15.8 | 2.6 | 24.5 | 1.6 | 6.0 | 82.1 | 12.1 | 0.08 | 0.03 | 135.38 | 17.00 |
| MEX613 | 750201 | 8319196 | 383 | 14.4 | 8.2 | 1.3 | 17.1 | 2.7 | 210 | 1.3 | 304 | 134 | 43.1 | 20.4 | 2.7 | 27.9 | 1.2 | 12.0 | 63.7 | 8.1 | 0.11 | 0.04 | 208.38 | 19.03 |
| MEX617 | 750601 | 8319203 | 279 | 21.0 | 14.3 | 1.4 | 16.9 | 4.4 | 178 | 2.6 | 208 | 103 | 32.2 | 18.1 | 3.1 | 46.8 | 2.4 | 8.0 | 105.0 | 16.5 | 0.10 | 0.03 | 158.99 | 16.57 |
| MEX635 | 750100 | 8319000 | 370 | 13.3 | 8.1 | 1.4 | 14.8 | 2.6 | 202 | 1.4 | 215 | 124 | 35.9 | 17.2 | 2.2 | 38.1 | 1.3 | 13.0 | 72.7 | 9.2 | 0.11 | 0.03 | 188.03 | 17.84 |
| MEX637 | 750300 | 8319000 | 1108 | 35.8 | 19.0 | 5.2 | 52.8 | 6.2 | 1305 | 4.0 | 443 | 616 | 192.0 | 79.3 | 7.2 | 75.1 | 3.2 | 7.0 | 266.0 | 23.3 | 0.45 | 0.06 | 950.48 | 21.35 |
| MEX640 | 750600 | 8319000 | 878 | 36.7 | 31.1 | 1.7 | 31.0 | 8.5 | 295 | 6.2 | 1980 | 232 | 65.0 | 37.2 | 5.4 | 123.0 | 5.5 | 79.0 | 237.0 | 39.2 | 0.23 | 0.28 | 349.13 | 15.13 |
| MEX642 | 750800 | 8319000 | 739 | 46.0 | 31.4 | 2.1 | 38.3 | 9.7 | 429 | 4.8 | 774 | 301 | 84.2 | 48.8 | 7.0 | 123.0 | 4.8 | 35.0 | 240.0 | 32.5 | 0.24 | 0.11 | 452.83 | 18.65 |
| MEX646 | 751200 | 8319000 | 53.1 | 9.9 | 5.8 | 1.7 | 10.5 | 2.1 | 37.2 | 0.7 | 14 | 42.7 | 9.0 | 9.6 | 1.7 | 4.4 | 0.8 | 1.0 | 60.2 | 4.4 | 0.03 | 0.00 | 60.70 | 20.21 |
| MEX659 | 750100 | 8318800 | 427 | 11.4 | 7.3 | 0.7 | 10.7 | 2.1 | 210 | 1.6 | 1061 | 116 | 35.5 | 15.4 | 1.9 | 25.9 | 1.2 | 63.0 | 50.2 | 9.0 | 0.11 | 0.15 | 178.23 | 16.45 |
| MEX660 | 750200 | 8318800 | 303 | 12.5 | 7.4 | 1.2 | 13.9 | 2.4 | 210 | 1.4 | 260 | 123 | 36.4 | 18.6 | 2.2 | 32.7 | 1.2 | 5.0 | 60.2 | 8.6 | 0.10 | 0.04 | 187.46 | 19.48 |
| MEX661 | 750300 | 8318800 | 245 | 10.5 | 6.4 | 1.6 | 13.8 | 2.2 | 142 | 1.2 | 151 | 107 | 27.7 | 16.0 | 1.9 | 9.4 | 1.0 | 3.0 | 87.0 | 6.3 | 0.08 | 0.02 | 158.21 | 19.62 |
| MEX662 | 750400 | 8318800 | 1404 | 56.3 | 28.0 | 8.7 | 83.5 | 9.8 | 1945 | 3.7 | 500 | 919 | 277.0 | 126.0 | 11.2 | 65.0 | 4.1 | 23.0 | 350.0 | 25.9 | **0.63** | 0.07 | 1406.59 | 22.44 |
| MEX664 | 750600 | 8318800 | 923 | 58.1 | 48.1 | 2.9 | 45.5 | 13.5 | 334 | 8.9 | 2435 | 267 | 75.1 | 50.3 | 8.8 | 142.0 | 8.2 | 61.0 | 348.0 | 58.4 | 0.27 | 0.35 | 402.20 | 14.80 |
| MEX666 | 750800 | 8318800 | 457 | 13.3 | 7.5 | 1.1 | 18.6 | 2.5 | 227 | 1.9 | 581 | 175 | 49.2 | 27.9 | 2.8 | 36.9 | 1.4 | 40.0 | 46.1 | 9.5 | 0.12 | 0.08 | 263.50 | 21.09 |
| MEX683 | 750101 | 8318601 | 156 | 6.9 | 3.6 | 1.5 | 8.8 | 1.2 | 80.1 | 0.7 | 127 | 62.8 | 18.0 | 10.3 | 1.3 | 6.9 | 0.6 | 1.0 | 28.5 | 3.9 | 0.05 | 0.02 | 94.99 | 20.59 |
| MEX684 | 750200 | 8318599 | 310 | 13.5 | 9.2 | 1.4 | 12.3 | 2.9 | 128 | 1.7 | 224 | 81.2 | 24.6 | 13.2 | 2.1 | 26.3 | 1.5 | 9.0 | 75.3 | 10.0 | 0.08 | 0.03 | 124.47 | 15.02 |

| SAMPLE ID | East | North | Ce | Dy | Er | Eu | Gd | Ho | La | Lu | Nb | Nd | Pr | Sm | Tb | Th | Tm | U | Y | Yb | TREO % | $Nb_2O_5$ % | Nd+Pr | NDPR% |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| MEX685 | 750300 | 8318598 | 1053 | 69.6 | 41.6 | 2.9 | 66.7 | 13.8 | 506 | 5.1 | 817 | 374 | 113.0 | 70.1 | 11.3 | 122.0 | 5.9 | 35.0 | 316.0 | 37.2 | 0.32 | 0.12 | 572.76 | 17.71 |
| MEX687 | 750501 | 8318600 | 535 | 23.8 | 12.1 | 1.9 | 29.8 | 4.3 | 305 | 2.3 | 296 | 209 | 65.0 | 34.1 | 4.2 | 25.3 | 1.9 | 10.0 | 102.0 | 13.4 | 0.16 | 0.04 | 322.31 | 19.97 |
| MEX690 | 750801 | 8318602 | 1047 | 82.9 | 56.7 | 4.9 | 72.1 | 17.2 | 515 | 8.9 | 1079 | 393 | 118.0 | 73.1 | 12.9 | 254.0 | 9.1 | 26.0 | 396.0 | 60.7 | 0.35 | 0.15 | 600.96 | 17.41 |
| MEX708 | 750100 | 8318400 | 378 | 18.5 | 8.7 | 2.3 | 24.0 | 3.3 | 266 | 1.2 | 161 | 196 | 59.2 | 30.2 | 3.6 | 12.2 | 1.3 | 3.0 | 75.6 | 7.7 | 0.13 | 0.02 | 300.12 | 23.29 |
| MEX709 | 750200 | 8318400 | 352 | 57.1 | 27.6 | 6.6 | 78.0 | 10.3 | 846 | 3.7 | 132 | 478 | 137.0 | 70.1 | 10.6 | 10.8 | 3.6 | 2.0 | 287.0 | 22.3 | 0.28 | 0.02 | 723.06 | 25.41 |
| MEX710 | 750300 | 8318400 | 264 | 8.0 | 4.4 | 0.5 | 11.1 | 1.4 | 151 | 1.0 | 149 | 95.5 | 29.5 | 12.9 | 1.5 | 9.2 | 0.7 | 2.0 | 37.5 | 5.3 | 0.08 | 0.02 | 147.06 | 19.61 |
| MEX714 | 750700 | 8318400 | 419 | 22.0 | 15.6 | 1.0 | 19.2 | 4.6 | 196 | 2.6 | 247 | 118 | 37.8 | 20.8 | 3.4 | 57.9 | 2.4 | 8.0 | 130.0 | 16.6 | 0.12 | 0.04 | 183.26 | 15.06 |
| MEX715 | 750800 | 8318400 | 438 | 31.2 | 16.8 | 2.4 | 37.6 | 5.5 | 685 | 2.5 | 274 | 328 | 111.0 | 45.4 | 5.6 | 59.2 | 2.5 | 7.0 | 169.0 | 16.6 | 0.23 | 0.04 | 516.69 | 22.82 |
| MEX733 | 750200 | 8318200 | 254 | 19.8 | 9.6 | 2.2 | 24.9 | 3.9 | 267 | 1.3 | 166 | 192 | 53.8 | 30.0 | 3.7 | 10.8 | 1.4 | 3.0 | 102.0 | 9.5 | 0.12 | 0.02 | 288.96 | 24.78 |
| MEX734 | 750300 | 8318200 | 1573 | 23.7 | 14.5 | 1.4 | 24.3 | 5.2 | 344 | 2.5 | 461 | 204 | 64.9 | 31.4 | 4.1 | 59.7 | 2.4 | 17.0 | 115.0 | 17.4 | 0.29 | 0.07 | 316.36 | 10.75 |
| MEX735 | 750400 | 8318200 | 875 | 18.4 | 8.3 | 1.9 | 26.7 | 3.3 | 488 | 1.2 | 219 | 302 | 96.1 | 37.2 | 3.7 | 36.0 | 1.3 | 5.0 | 77.3 | 9.1 | 0.23 | 0.03 | 468.30 | 20.00 |
| MEX736 | 750500 | 8318200 | 213 | 13.3 | 7.5 | 1.4 | 16.4 | 2.6 | 250 | 1.8 | 407 | 157 | 48.7 | 24.3 | 2.4 | 20.5 | 1.4 | 13.0 | 65.4 | 12.0 | 0.10 | 0.06 | 242.01 | 24.81 |
| MEX737 | 750600 | 8318200 | 497 | 21.7 | 13.8 | 1.5 | 22.4 | 4.7 | 315 | 2.3 | 775 | 187 | 58.7 | 29.1 | 3.5 | 43.0 | 2.2 | 62.0 | 113.0 | 16.7 | 0.15 | 0.11 | 289.06 | 18.67 |
| MEX738 | 750700 | 8318200 | 733 | 32.5 | 18.3 | 2.2 | 38.6 | 6.5 | 460 | 3.5 | 459 | 301 | 91.7 | 48.8 | 5.8 | 40.4 | 3.0 | 27.0 | 146.0 | 23.7 | 0.23 | 0.07 | 461.87 | 20.10 |
| MEX739 | 750800 | 8318200 | 411 | 24.6 | 13.8 | 1.4 | 27.9 | 5.0 | 207 | 2.6 | 356 | 171 | 48.9 | 33.1 | 4.3 | 38.7 | 2.2 | 9.0 | 111.0 | 17.3 | 0.13 | 0.05 | 258.58 | 19.90 |
| MEX740 | 750900 | 8318200 | 453 | 26.3 | 15.2 | 1.2 | 26.2 | 5.5 | 233 | 2.5 | 316 | 161 | 46.4 | 28.5 | 4.3 | 39.9 | 2.3 | 8.0 | 139.0 | 17.4 | 0.14 | 0.05 | 243.90 | 17.44 |
| MEX741 | 751000 | 8318200 | 803 | 30.5 | 19.5 | 1.1 | 31.6 | 6.7 | 494 | 3.5 | 425 | 268 | 82.5 | 38.1 | 5.0 | 56.5 | 3.1 | 14.0 | 191.0 | 24.6 | 0.24 | 0.06 | 412.21 | 17.11 |

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## APPENDIX F – DY6 2024 rock chip and soil results

| Sample_ID | Northing | Easting | Elevation | Sample_Type | %TREO | %TREOY | $Ga_2O_3$ (ppm) | Nb2O5 (ppm) |
|---|---|---|---|---|---|---|---|---|
| MHG0001 | 8313877 | 752850 | 902 | Rock Chips | 0.04 | 0.04 | 34.95 | 41.29 |
| MHG0002 | 8314226 | 752485 | 927 | Rock Chips | 0.01 | 0.01 | 41.67 | 19.48 |
| MHG0003 | 8314311 | 752653 | 888 | Rock Chips | 0.04 | 0.04 | 41.67 | 51.09 |
| MHG0005 | 8314276 | 753050 | 855 | Rock Chips | 0.04 | 0.05 | 38.98 | 62.05 |
| MHG0004 | 8314283 | 752758 | 849 | Rock Chips | 0.17 | 0.18 | 48.39 | 408.24 |
| MHG0006 | 8314691 | 752073 | 908 | Rock Chips | 0.19 | 0.2 | **53.77** | 265.94 |
| MHG0007 | 8314696 | 752253 | 889 | Rock Chips | 0.01 | 0.01 | 14.79 | 26.59 |
| MHG0009 | 8314714 | 752672 | 819 | Rock Chips | 0.01 | 0.01 | 12.1 | 12.36 |
| MHG0008 | 8314696 | 752471 | 861 | Rock Chips | 0.01 | 0.01 | 24.2 | 15.4 |
| MHG0010 | 8314681 | 752817 | 823 | Rock Chips | 0.09 | 0.1 | 44.36 | 148.13 |
| MHG0011 | 8314710 | 753031 | 813 | Rock Chips | 0.03 | 0.03 | 44.36 | 45.72 |
| MHG0012 | 8314695 | 753263 | 818 | Rock Chips | 0.01 | 0.01 | 17.47 | 10.73 |
| MHG0013 | 8315089 | 751668 | 980 | Rock Chips | 0.03 | 0.04 | **52.42** | 54.24 |
| MHG0014 | 8315086 | 751867 | 928 | Rock Chips | 0.12 | 0.13 | 45.7 | 214.62 |
| MHG0015 | 8315092 | 752068 | 910 | Rock Chips | 0.04 | 0.05 | **52.42** | 36.86 |
| MHG0016 | 8315089 | 752268 | 876 | Rock Chips | 0.03 | 0.03 | 29.57 | 62.52 |
| MHG0017 | 8315063 | 752446 | 837 | Rock Chips | 0.02 | 0.02 | **51.08** | 28.69 |
| MHG0018 | 8315144 | 752679 | 817 | Rock Chips | 0.05 | 0.05 | 45.7 | 74.42 |
| MHG0019 | 8315095 | 752867 | 791 | Rock Chips | 0.08 | 0.09 | **59.14** | 114.89 |
| MHG0024 | 8315510 | 751252 | 1082 | Rock Chips | 0.01 | 0.02 | 17.47 | 24.73 |
| MHG0022 | 8315085 | 753252 | 789 | Rock Chips | 0 | 0.01 | 29.57 | 10.5 |
| MHG0020 | 8315110 | 753050 | 795 | Rock Chips | 0.04 | 0.05 | 49.74 | 77.8 |
| MHG0023 | 8315087 | 753469 | 772 | Soil | 0.02 | 0.02 | 20.16 | 35.81 |
| MHG0026 | 8315497 | 751656 | 987 | Rock Chips | 0.08 | 0.08 | **68.55** | 104.86 |
| MHG0025 | 8315490 | 751453 | 1031 | Rock Chips | 0.11 | 0.13 | **71.24** | 162.13 |
| MHG0027 | 8315492 | 751865 | 912 | Rock Chips | 0.09 | 0.1 | **55.11** | 129.47 |
| MHG0028 | 8315488 | 752055 | 882 | Rock Chips | 0.04 | 0.05 | 24.2 | 61.35 |
| MHG0029 | 8315502 | 752273 | 850 | Rock Chips | 0.02 | 0.02 | 20.16 | 35.34 |
| MHG0031 | 8315522 | 752718 | 789 | Rock Chips | 0.03 | 0.03 | **51.08** | 51.09 |
| MHG0030 | 8315433 | 752416 | 817 | Rock Chips | 0.07 | 0.08 | **56.46** | 121.31 |
| MHG0034 | 8315491 | 753281 | 757 | soil | 0.05 | 0.06 | 36.29 | 86.66 |
| MHG0033 | 8315489 | 753057 | 762 | soil | 0.06 | 0.07 | 38.98 | 110.57 |
| MHG0032 | 8315481 | 752867 | 771 | soil | 0.05 | 0.06 | 43.01 | 92.38 |
| MHG0040 | 8315889 | 751467 | 977 | Rock Chips | 0.06 | 0.07 | 33.61 | 109.52 |
| MHG0041 | 8315898 | 751668 | 916 | Rock Chips | 0.06 | 0.06 | 30.92 | 109.18 |
| MHG0039 | 8315890 | 751270 | 1021 | Rock Chips | 0.05 | 0.05 | 40.33 | 37.91 |
| MHG0037 | 8315884 | 750862 | 1109 | Rock Chips | 0.02 | 0.02 | **51.08** | 35.34 |
| MHG0038 | 8315892 | 751059 | 1078 | Rock Chips | 0.09 | 0.1 | 41.67 | 108.24 |
| MHG0035 | 8315488 | 753467 | 762 | soil | 0.06 | 0.07 | **80.65** | 61.12 |
| MHG0036 | 8315490 | 753667 | 759 | soil | 0.04 | 0.04 | **75.28** | 59.25 |
| MHG0044 | 8315890 | 752064 | 836 | Rock Chips | 0.13 | 0.13 | **72.59** | 264.77 |
| MHG0043 | 8315891 | 751871 | 880 | Rock Chips | 0.35 | 0.45 | **73.93** | 668.35 |
| MHG0046 | 8315888 | 752474 | 798 | soil | 0.11 | 0.12 | 47.05 | 184.29 |
| MHG0045 | 8315883 | 752295 | 818 | soil | 0.13 | 0.13 | **57.8** | 106.96 |
| MHG0049 | 8315888 | 753060 | 765 | soil | 0.04 | 0.05 | 26.88 | 57.15 |
| MHG0048 | 8315877 | 752893 | 771 | soil | 0.08 | 0.09 | 29.57 | 148.13 |
| MHG0047 | 8315897 | 752643 | 788 | soil | 0.09 | 0.1 | 34.95 | 153.96 |
| MHG0054 | 8316332 | 750311 | 1199 | Rock Chips | 0.03 | 0.03 | 26.88 | 44.35 |
| MHG0053 | 8315901 | 753855 | 749 | soil | 0.07 | 0.07 | 26.88 | 120.14 |
| MHG0052 | 8315947 | 753560 | 754 | soil | 0.04 | 0.05 | 32.26 | 92.98 |
| MHG0050 | 8315910 | 753291 | 764 | soil | 0.05 | 0.06 | **53.77** | 349.04 |
| MHG0051 | 8315871 | 753387 | 760 | soil | 0.04 | 0.05 | 38.98 | 197.41 |
| MHG0056 | 8316296 | 750672 | 1134 | Rock Chips | 0.23 | 0.25 | **60.49** | 1373.28 |
| MHG0058 | 8316277 | 751070 | 964 | Rock Chips | 0.06 | 0.07 | **51.08** | 158.79 |
| MHG0055 | 8316280 | 750474 | 1172 | Rock Chips | 0.32 | 0.35 | **67.21** | 992.77 |
| MHG0057 | 8316290 | 750875 | 1043 | Rock Chips | 0.09 | 0.1 | **53.77** | 221.73 |
| MHG0059 | 8316291 | 751267 | 915 | Rock Chips | 0.05 | 0.05 | 47.05 | 137.33 |
| MHG0060 | 8316278 | 751446 | 878 | Rock Chips | 0.29 | 0.32 | **61.83** | 1785.26 |
| MHG0062 | 8316275 | 751868 | 820 | Rock Chips | 0.1 | 0.11 | 48.39 | 68.66 |
| MHG0065 | 8316277 | 752254 | 787 | Rock Chips | 0.07 | 0.07 | 44.36 | 128.75 |

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| Sample_ID | Northing | Easting | Elevation | Sample_Type | %TREO | %TREOY | $Ga_2O_3$ (ppm) | Nb2O5 (ppm) |
|---|---|---|---|---|---|---|---|---|
| MHG0061 | 8316291 | 751668 | 843 | Rock Chips | 0.19 | 0.2 | **55.11** | 1112.93 |
| MHG0064 | 8316283 | 752035 | 803 | Rock Chips | 0.07 | 0.08 | 47.05 | 456.33 |
| MHG0066 | 8316311 | 752447 | 782 | Rock Chips | 0.05 | 0.06 | **67.21** | 888.34 |
| MHG0067 | 8316289 | 752674 | 783 | soil | 0.05 | 0.06 | 32.26 | 51.5 |
| MHG0069 | 8316289 | 753068 | 770 | soil | 0.02 | 0.02 | 28.23 | 32.9 |
| MHG0068 | 8316300 | 752865 | 776 | soil | 0.04 | 0.04 | 32.26 | 74.39 |
| MHG0071 | 8316294 | 753466 | 761 | soil | 0.07 | 0.08 | 40.33 | 300.41 |
| MHG0070 | 8316286 | 753266 | 759 | soil | 0.08 | 0.09 | 41.67 | 430.58 |
| MHG0073 | 8316679 | 750059 | 1092 | Rock Chips | 0.06 | 0.07 | **53.77** | 627.99 |
| MHG0074 | 8316714 | 750295 | 1030 | Rock Chips | 0.19 | 0.2 | **51.08** | 260.35 |
| MHG0075 | 8316686 | 750488 | 1042 | Rock Chips | 0.08 | 0.09 | 48.39 | 333.31 |
| MHG0072 | 8316669 | 749857 | 1172 | Rock Chips | 0.07 | 0.08 | **57.8** | 218.87 |
| MHG0078 | 8316706 | 751064 | 941 | Rock Chips | 0.07 | 0.08 | **52.42** | 1034.25 |
| MHG0076 | 8316684 | 750645 | 987 | Rock Chips | 0.79 | 0.85 | **72.59** | **6648.96** |
| MHG0079 | 8316652 | 751192 | 913 | Rock Chips | 0.03 | 0.04 | 49.74 | 519.27 |
| MHG0077 | 8316695 | 750873 | 979 | Rock Chips | 0.18 | 0.19 | **55.11** | 271.8 |
| MHG0080 | 8316699 | 751468 | 842 | Rock Chips | 0.05 | 0.06 | 49.74 | 373.36 |
| MHG0081 | 8316686 | 751656 | 825 | Rock Chips | 0.2 | 0.24 | 49.74 | 1304.62 |
| MHG0082 | 8316675 | 751833 | 811 | soil | 0.08 | 0.09 | 36.29 | 298.97 |
| MHG0085 | 8316729 | 752280 | 796 | Rock Chips | 0.08 | 0.1 | 40.33 | 326.15 |
| MHG0083 | 8316704 | 752086 | 797 | soil | 0.1 | 0.11 | 43.01 | 197.41 |
| MHG0086 | 8316682 | 752488 | 778 | soil | 0.01 | 0.01 | 4.03 | 47.21 |
| MHG0090 | 8316660 | 753168 | 764 | soil | 0.09 | 0.1 | 44.36 | 307.56 |
| MHG0087 | 8316692 | 752669 | 773 | soil | 0.08 | 0.09 | 55.11 | 356.19 |
| MHG0089 | 8316694 | 753020 | 777 | soil | 0.08 | 0.09 | 45.7 | 443.46 |
| MHG0088 | 8316671 | 752847 | 769 | soil | 0.1 | 0.11 | 49.74 | 359.06 |
| MHG0093 | 8317082 | 750067 | 996 | Rock Chips | 0.23 | 0.25 | **52.42** | 313.28 |
| MHG0094 | 8317092 | 750260 | 964 | Rock Chips | 0.1 | 0.1 | 49.74 | 211.71 |
| MHG0092 | 8317090 | 749872 | 1009 | Rock Chips | 0.12 | 0.15 | **53.77** | 590.8 |
| MHG0091 | 8317089 | 749670 | 1020 | Rock Chips | 0.21 | 0.22 | **63.18** | 171.66 |
| MHG0095 | 8317087 | 750479 | 952 | Rock Chips | 0.05 | 0.06 | **51.08** | 283.24 |
| MHG0096 | 8317094 | 750680 | 925 | Rock Chips | 0.09 | 0.09 | 47.05 | 294.68 |
| MHG0098 | 8317080 | 751115 | 854 | Rock Chips | 0.09 | 0.1 | **52.42** | 231.74 |
| MHG0099 | 8317093 | 751303 | 836 | Rock Chips | 0.04 | 0.05 | 48.39 | 340.46 |
| MHG0097 | 8317089 | 750878 | 900 | Rock Chips | 0.25 | 0.26 | **59.14** | 619.41 |
| MHG0101 | 8317101 | 751639 | 832 | Rock Chips | 0.11 | 0.11 | 40.33 | 194.55 |
| MHG0100 | 8317088 | 751469 | 815 | Rock Chips | 0.06 | 0.07 | 48.39 | 113.14 |
| MHG0102 | 8317095 | 751851 | 803 | soil | 0.08 | 0.09 | 32.26 | 131.8 |
| MHG0103 | 8317078 | 752067 | 792 | soil | 0.08 | 0.09 | 33.61 | 123.64 |
| MHG0104 | 8317089 | 752262 | 780 | soil | 0.06 | 0.07 | 32.26 | 100.19 |
| MHG0106 | 8317090 | 752447 | 781 | soil | 0.05 | 0.06 | 22.85 | 90.16 |
| MHG0107 | 8317056 | 752663 | 783 | soil | 0.06 | 0.07 | 34.95 | 113.61 |
| MHG0108 | 8317012 | 752862 | 777 | soil | 0.05 | 0.06 | 34.95 | 68.47 |
| MHG0111 | 8317508 | 750857 | 870 | Rock Chips | 0.06 | 0.07 | 40.33 | 116.64 |
| MHG0110 | 8317488 | 750679 | 888 | Rock Chips | 0.14 | 0.15 | 45.7 | 374.41 |
| MHG0109 | 8317487 | 750499 | 895 | soil | 0.13 | 0.15 | 49.74 | 265.94 |
| MHG0113 | 8317485 | 751645 | 802 | Rock Chips | 0.13 | 0.15 | 47.05 | 328.92 |
| MHG0112 | 8317527 | 751470 | 807 | Rock Chips | 0.07 | 0.07 | **60.49** | 131.8 |
| MHG0114 | 8317466 | 751858 | 788 | soil | 0.06 | 0.07 | 28.23 | 118.97 |
| MHG0116 | 8317493 | 752264 | 787 | soil | 0.11 | 0.12 | 45.7 | 163.3 |
| MHG0115 | 8317490 | 752070 | 791 | soil | 0.11 | 0.13 | **51.08** | 163.3 |
| MHG0118 | 8317903 | 751839 | 777 | Rock Chips | 0.07 | 0.08 | 36.29 | 125.97 |

| Sample_ID | Northing | Easting | Elevation | Sample_Type | %TREO | %TREOY | $Ga_2O_3$ (ppm) | Nb2O5 (ppm) |
|---|---|---|---|---|---|---|---|---|
| MHG0117 | 8317508 | 752457 | 781 | soil | 0.12 | 0.13 | 40.33 | 261.27 |
| MHG0119 | 8317895 | 752266 | 781 | Rock Chips | 0.07 | 0.09 | 40.33 | 113.84 |
| MHG0120 | 8317889 | 752266 | 782 | soil | 0.06 | 0.07 | 36.29 | 101.36 |
| MHG0121 | 8317790 | 751163 | 814 | Rock Chips | 0.3 | 0.35 | **64.52** | 600.7 |

## JORC Code, 2012 Edition – AuKing to Acquire Machinga Heavy Rare Earths Project, Malawi

[Note – The contents of this Table are based on materials that AuKing's Competent Person has been able to access comprising the following reports:

- Resource Star Ltd announcement to ASX 10 December 2008, 'Uranium Growth Opportunity.'
- Resource Star Ltd announcement to ASX 14 October 2009, 'Malawi Exploration Update.'
- Globe Metals & Mining Ltd announcement to ASX 17 February 2010, 'Soil sampling results define strong, 7km +REE anomaly at Machinga, Malawi.'
- Globe Metals & Mining Ltd announcement to ASX 15 April 2010, 'High Grade HREO Mineralisation at Machinga.'
- Globe Metals & Mining Ltd announcement to ASX 26 May 2010, '33m-Wide Zone of Heavy Rare Earth Mineralisation – Machinga.'
- Globe Metals & Mining Ltd announcement to ASX 19 July 2010, 'New Zones of HREE & Niobium Mineralisation – Machinga Project.'
- Globe Metals & Mining Ltd announcement to ASX 29 July 2010, 'Commencement of Maiden Drilling Program – Machinga REE Project.'
- Globe Metals & Mining Ltd announcement to ASX 22 November 2010, 'Drilling Results Confirm Significant Heavy Rare Earth Discovery at Machinga.'
- DY6 Metals REE and PGE Projects, Malawi, Africa. Independent Technical Assessment Report, CSA Global, 28 March 2023 (in DY6 Prospectus, 27 June 2023).
- DY6 Metals Ltd announcement to ASX 6 July 2023, 'Machinga REE + Nb Exploration Update.'
- DY6 Metals Ltd announcement to ASX 11 September 2023, 'Maiden Drilling at Machinga identifies potential for widespread REE mineralisation.'
- DY6 Metals Ltd announcement to ASX 26 October 2023, 'Further High Grade REE & Niobium Results from Final RC holes at Machinga.'
- DY6 Metals Ltd announcement to ASX 10 October 2023, 'High-grade REE + Nb results continue at Machinga'.
- DY6 Metals Ltd announcement to ASX 29 December 2023, 'High Grade REE & Nb Results from Diamond Drilling at Machinga.'
- DY6 Metals Ltd announcement to ASX 19 April 2024, 'Rock Chips of up to 3.22% TREO identified in newly granted Machinga licence.'
- Tusker Minerals Ltd announcement to ASX 19 December 2025, 'High Grade Results Materially Extend Gallium, REE and Phosphate Mineralisation.'

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## Section 1 Sampling Techniques and Data

| Criteria | JORC Code explanation | Commentary |
|---|---|---|
| ***Sampling techniques*** | • *Nature and quality of sampling (e.g. 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.*<br>• *Include reference to measures taken to ensure sample representivity and the appropriate calibration of any measurement tools or systems used.*<br>• *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 (e.g. 'reverse circulation drilling was used to obtain 0.5 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 (e.g. submarine nodules) may warrant disclosure of detailed information.* | • Previous ASX releases by Retail Star Limited (RSL, ASX: RSL), Globe Metals and Mining (Globe, ASX: GBE) and Tusker Minerals (Tusker, ASX: TSK) document the existence of a number of earlier sampling and drilling programmes.<br>• Tusker report that the Globe ground radiometric surveys were conducted using a handheld ThermoScientific Radeye brand scintillometer integrated with a GPS (GARMIN GPSMAP78s). Soil sampling was carried out in a grid pattern with approximately 2kg samples collected at each point. The scintillometer was regularly calibrated.<br>• Globe undertook extensive trench sampling programmes down to bedrock<br>• Careful bagging of samples in individual plastic bags and accurate numbering and labelling of samples was completed in the field. QAQC procedures such as field duplicates, were carried out to ensure sample representivity.<br>• Re-sampling was carried out where necessary.<br>• Globe undertook an initial RC drilling programme in 2010 comprising 16 holes (MARC001 – 016) for 1,688 metres. A further RC drilling programme comprising 2,357 metres in a further 20 holes (MARC017 – 036) was completed in 2011-12.<br>• Tusker undertook a combined RC and diamond drilling programme in late 2023. A total of 35 RC holes (MR001 – 035) were drilled for 3,643 metres and 8 diamond drill holes (MDD001 – 008) were completed for 900 metres to confirm the down-dip extent of the mineralisation and to provide samples for potential metallurgical testing.<br>• In early 2024 Tusker undertook a major rock-chip and soil sampling programme within the Machinga area. A total of 305 soil samples were collected on a 200m x 100m grid and 422 rock-chip samples were collected on a nominal 50m x 50m grid.<br>• Reconnaissance sampling in late 2025 of a significant radiometric anomaly 3km southeast of the main area of drilling comprised 77 rock-chip samples and 39 soil samples on a 200m x 400m grid.<br>• The Machinga mineralisation presents itself as gently dipping breccia zones within the gneissic host. The key REE-bearing phase appears to be eudialyte group minerals along with bastnaesite and xenotime. |
| ***Drilling techniques*** | • *Drill type (e.g. core, reverse circulation, open-hole hammer, rotary air blast, auger, Bangka, sonic, etc) and details (e.g. 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).* | • Globe used a truck-mounted RC rig, but no further details are available. A total of 4,045 metres of RC drilling was completed.<br>• Tusker utilised a PR54R RC drilling rig supplied by Thompson drilling of Tete.<br>• For diamond drilling Tusker used a rig supplied by Thompson drilling of Tete, Mozambique. No further details appear to be available. |

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| Criteria | JORC Code explanation | Commentary |
|---|---|---|
| ***Drill sample recovery*** | • *Method of recording and assessing core and chip sample recoveries and results assessed.*<br>• *Measures taken to maximise sample recovery and ensure representative nature of the samples.*<br>• *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.* | • For the Globe RC drilling, sample recoveries were monitored by the geologist in the field during the drilling exercise.<br>• If poor recoveries were encountered, the geologist and driller endeavoured to rectify the problem to ensure maximum sample recovery.<br>• Visual assessments were made for recovery, moisture and possible contamination.<br>• Samples were riffle split to obtain a representative sample, which was inspected and cleaned as required.<br>• Insufficient data exists to determine whether a relationship exists between grade and recovery. This will be assessed when sufficient statistical data is available.<br>• Recovery in diamond core was measured during logging. |
| ***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.*<br>• *Whether logging is qualitative or quantitative in nature. Core (or costean, channel, etc) photography.*<br>• *The total length and percentage of the relevant intersections logged.* | • For the Globe work, trenching and drill samples were geologically logged over 1m length intervals to an appropriate level of detail to allow correlation with sampling.<br>• •Geological logging of trenching and drilling was quantitative in nature.<br>• •All Globe RC drill holes were reportedly logged in full.<br>• All Tusker RC holes were logged in full.<br>• Logging was quantitative in nature where possible. An appropriately higher level of detail was used for the diamond drill core. |
| ***Sub-sampling techniques and sample preparation*** | • *If core, whether cut or sawn and whether quarter, half or all core taken.*<br>• *If non-core, whether riffled, tube sampled, rotary split, etc and whether sampled wet or dry.*<br>• *For all sample types, the nature, quality and appropriateness of the sample preparation technique.*<br>• *Quality control procedures adopted for all sub-sampling stages to maximise representivity of samples.*<br>• *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.*<br>• *Whether sample sizes are appropriate to the grain size of the material being sampled.* | • Tusker report that the RC sampling undertaken by Globe involved riffle splitting ~20 kg samples in the field to yield a representative sub-sample of 2-4 kg.<br>• The field sample size was considered to be appropriate for the grain size of the material sampled.<br>• Field duplicates were used at a rate of 5% and analysed to ensure representivity of in situ material.<br>• Reference standards were inserted into the sample run during drilling.<br>• The Tusker RC drilling programme involved riffle splitting the ~30kg drill samples in the field to obtain a representative sub-sample of 2-4kg.<br>• All portions of the samples were weighed and samples were mostly dry.<br>• The field sample size of approximately 2kg or greater is considered appropriate for the grain size of material sampled.<br>• Appropriate industry standard quality control procedures were adopted at each stage of sub-sampling to maximize representivity of samples, with reference standards inserted during drilling, nominally every 20 samples.<br>• Field duplicates were used at a rate of 5% and analysed to ensure representivity of in situ material, nominally every 20 samples.<br>• Diamond drill core was halved for analysis with the sample being weighed.<br>• Sample intervals are nominally 1m intervals but |

| Criteria | JORC Code explanation | Commentary |
|---|---|---|
| | | varied based on lithological or mineralisation contacts as required. |
| ***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.*<br>• *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.*<br>• *Nature of quality control procedures adopted (e.g. standards, blanks, duplicates, external laboratory checks) and whether acceptable levels of accuracy (i.e. lack of bias) and precision have been established.* | • In 2009 Resource Star Limited submitted 149 initial soil and rock chip samples (including 23 QAQC samples) to ALS Chemex Laboratories for analysis by initially using aqua regia digest, then 4 Acid digest, followed by lithium borate fusion with ICP finish using methods ME-MS41u, ME-MS61u, ME-MS81u and ME-XRF10 for a comprehensive suite of elements.<br>• Elements were: Ag, Al, As, Ba, Be, Bi, Ca, Cd, Ce, Co, Cr, Cs, Cu, Dy, Er, Eu, Fe, Ga, Gd, Ge, Hf, Ho, In, K, La, Lu, Mg, Mn, Mo, Na, Nb, Nd, Ni, P, Pb, Pr, Rb, Re, S, Sb, Sc, Sm, Sn, Sr, Ta, Tb, Th, Ti, Tl, Tm U, V, W, Y, Yb, Zn, Zr.<br>• Global Metals and Mining Limited RC drilling and trenching samples were submitted to Genalysis Laboratory Services in South Africa for sample preparation prior to export to Perth, Western Australia for analysis by sodium peroxide fusion (DX) with hydrochloric acid digest ICP/OES or MS finish as appropriate.<br>• At Genalysis samples were dried, then crushed to either -2mm or -10mm as appropriate. Large samples were riffle split and the excess stored. Samples were pulverized in an enclosed unit to 85% -75micron. A 120-150gm analytical split was taken for export to Australia, and the pulp residue was retained and stored.<br>• Elements analysed for the trench samples were: Ag, Al, As, B, Ba, Be, Bi, Ca, Cd, Ce, Cr, Cs, Cu, Dy, Er, Eu, Fe, Ga, Gd, Hf, Ho, In, K, La, Li, Lu, Mg, Mn, Nb, Nd, P, Pb, Pr, Rb, Re, S, Sb, Sc, Si, Sm, Sn, Sr, Ta, Tb, Te, Th, Ti, Tl, Tm, U, V, W, Y, Yb, Zn, Zr.<br>• Elements analysed for the drill samples were: Be, Ca, Ce, Dy, Er, Eu, Ga, Gd, Hf, Ho, La, Li, Lu, Nb, Nd, P, Pr, Sm, Sn, Sr, Ta, Tb, Th, Tm, U, W, Y, Yb, Zr.<br>• A field duplicate, blank (silica sand) and a CRM (certified reference material) were inserted approximately every 20 samples for the soil, trenching and drilling samples. CRM codes were recorded to maintain on-going quality assurance and acceptable levels of accuracy and precision<br>• Samples from the Tusker (DY6) RC and diamond drilling were submitted to Intertek Minerals Laboratory Services in Kitwe, Zambia for sample preparation prior to export to Perth, Western Australia for analysis by sodium peroxide fusion (DX) with hydrochloric acid digest and ICP/OES or MS finish as appropriate.<br>• At Intertek, samples were dried, then crushed to either -2mm or -10mm as appropriate. Large samples were riffle split and the excess stored. Samples were pulverized to 85% -75micron. A 120-150gm analytical split was taken for export to Australia, and the pulp residue was retained and stored.<br>• Elements analysed for the drill samples were Ce, Dy, Er, Eu, Ga, Gd, Hf, Ho, La, Lu, Nb, Nd, Pr, Rb, Sm, Sn, Ta, Tb, Th, Tm, U, Y, Yb, Zr. |

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| Criteria | JORC Code explanation | Commentary |
|---|---|---|
| | | • A field duplicate, blank (silica sand) and a CRM (certified reference material) were inserted approximately every 20 samples for the drilling samples. CRM codes were recorded to maintain on-going quality assurance and acceptable levels of accuracy and precision.<br>• Three separate CRMs were utilised, comprising low, medium and high REE-contents in a rolling sequence during drilling. |
| ***Verification of sampling and assaying*** | • *The verification of significant intersections by either independent or alternative company personnel.*<br>• *The use of twinned holes.*<br>• *Documentation of primary data, data entry procedures, data verification, data storage (physical and electronic) protocols.*<br>• *Discuss any adjustment to assay data.* | • No external verification has been conducted.<br>• Assay results were reviewed by 2 company personnel.<br>• No adjustments to the Globe era data were considered necessary.<br>• No twinned holes have been drilled.<br>• Sampling and data handling and storage protocols have not been sighted. |
| ***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.*<br>• *Specification of the grid system used.*<br>• *Quality and adequacy of topographic control.* | • All sample locations determined by handheld GPS units (GARMIN GPSMAP 78s were used to define field locations of soil, rock chip samples, trenches and drill collars. These locations were considered accurate to 5m.<br>• The grid system used is UTM Zone 36S, WGS 84.<br>• Downhole surveys were not completed by Globe.<br>• Globe drillhole collars were surveyed using DGPS on completion of the program.<br>• The GPS was considered sufficient topographic control with data downloaded via Map Source to spreadsheet.<br>• Downhole surveying was undertaken by Tusker on both RC and diamond drill holes in the 2023-2024 programmes.<br>• Tusker drillhole collars were surveyed by DGPS on completion of the programme by a licensed surveyor.<br>• At the same time, ca, 50% of the Globe drillhole collars were resurveyed to provide consistency between the two drilling eras. |
| ***Data spacing and distribution*** | • *Data spacing for reporting of Exploration Results.*<br>• *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.*<br>• *Whether sample compositing has been applied.* | • Drill density could be considered reasonable and adequate to construct major lithological units and confirm mineralisation continuity but is not sufficiently detailed for Mineral Resource estimation purposes.<br>• During the Tusker RC programme, drill samples were collected on 1m intervals on site and composited to 3m samples in zones indicated by the scintillometer to be only weakly mineralized or barren.<br>• All other drill samples were submitted on as collected on a 1m basis. |
| ***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.*<br>• *If the relationship between the drilling orientation and the orientation of key mineralised structures is considered to have introduced a sampling bias,* | • RSL and Globe's soil and rock chip sampling was of a reconnaissance nature only and was not designed to achieve unbiased sampling.<br>• Most of the drilling (Globe and Tusker) has been orientated at a high angle to the inferred strike and dip orientation of the mineralised structures based on the trench mapping. |

| Criteria | JORC Code explanation | Commentary |
|---|---|---|
| | *this should be assessed and reported if material.* | • Three of the Tusker cored holes were orientated to drill down the mineralized structures to generate material for metallurgical test work. |
| ***Sample security*** | • *The measures taken to ensure sample security.* | • Samples were collected from the Global Metals, Malawi office and delivered by secure transport to Genalysis Laboratory in Johannesburg, South Africa.<br>• For the Tusker drilling, samples were collected from the drill site and delivered by secure transport to Intertek Commodities preparation facility in Kitwe, Zambia.<br>• The chain of custody for all drilling programmes was overseen by the Geology Manager. |

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## 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.*<br>• *The security of the tenure held at the time of reporting along with any known impediments to obtaining a license to operate in the area.* | • AuKing's Machinga REE-Nb project is located in southern Malawi, approximately 212 km southeast of the capital, Lilongwe.<br>• The Machinga Project lies within Exploration Licences No. EL0529 (which covers an area of approximately 42.9 square kilometres) and No. EL0705 (which covers an area of approximately 157.5square kilometres).<br>• The Licences are currently 100% held in the name of Malawian registered Green Exploration Ltd, a subsidiary of Tusker Minerals Limited.<br>• There are no known third-party interests affecting the Licences.<br>• All licences are in good standing and there are no known impediments to operating in the project area. |
| ***Exploration done by other parties*** | • *Acknowledgment and appraisal of exploration by other parties.* | • Machinga was first identified by the American Smelting and Refining Company and the Atomic Energy Division of the Geological Survey of Britain in 1955 which completed preliminary geological work (Scintillometer survey, mapping trenching and drilling). Radiometric anomalies were found but none of the factual data is available.<br>• Detailed geological mapping of the Malsoa-Zomba mountains was completed by Bloomfield et al in 1965.<br>• In 1986, the United Nations Development Program sponsored an airborne magnetic and radiometric survey was undertaken by Huntington Geology and Geophysics Limited. Interpretation was completed by Paterson, Grant & Watson Limited in 1987. The survey located Uranium channel anomalies in the region.<br>• In 2009 RSL completed an orientation soil sampling program over the Machinga Main Anomaly, 149 samples were collected.<br>• Globe undertook a trenching programme 1,635m in total length which yielded 281 samples.<br>• Globe also completed two RC drilling programmes in 2010-12 comprising 36 RC |

| Criteria | JORC Code explanation | Commentary |
|---|---|---|
| | | holes (MARC001 – 036) for 4,045 metres.<br>• Tusker undertook a combined RC and diamond drilling programme in late 2023. A total of 35 RC holes (MR001 – 035) were drilled for 3,543 metres and 8 diamond drill holes (MDD001 – 008) were completed for 900 metres.<br>• Tusker have also completed several programmes of rock chip and soil sampling which continue to highlight areas of interest. |
| ***Geology*** | • *Deposit type, geological setting and style of mineralisation.* | • The area of the Machinga licence is dominated by rocks of the Mesozoic Chilwa Alkaline Province; consisting of granite, syenite, nepheline syenite plutons with associated volcanic vents characterized by carbonatite and agglomerate.<br>• The Malosa Pluton consists of a heterogeneous mixture of syenitic and granitic units.<br>• The REE-Nb-Ta mineralisation at Machinga is associated with the eastern margin of the Malosa Pluton of the Chilwa Alkaline Province.<br>• Uranium and thorium anomalies are associated with the REE-Nb-Ta mineralisation which appears to be hosted within pegmatitic lenses and sheets.<br>• Investigations suggest that there is a range of pegmatite types which can be separated by their physical characteristics and mineralisation style. |
| ***Drill hole information*** | • *A summary of all information material to the under-standing of the exploration results including a tabulation of the following information for all Material drill holes:*<br>  • *easting and northing of the drill hole collar*<br>  • *elevation or RL (Reduced Level – elevation above sea level in metres) of the drill hole collar*<br>  • *dip and azimuth of the hole*<br>  • *down hole length and interception depth*<br>  • *hole length*<br>• *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.* | • Tusker Minerals (formerly DY6 Metals) has previously compiled a full tabulation of the previous drilling by Globe undertaken at Machinga (ASX Release 6/7/2023.<br>• Attention is drawn to the drill hole information tables in the body of this release. |
| ***Data aggregation methods*** | • *In reporting Exploration Results, weighting averaging techniques, maximum and/or minimum grade truncations (e.g. cutting of high grades) and cut-off grades are usually Material and should be stated.*<br>• *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.*<br>• *The assumptions used for any reporting of metal equivalent values should be clearly stated.* | • All intervals are reported as one metre downhole or trench section intervals and are length weighted.<br>• Cored intervals are less regular but are similarly length weighted.<br>• To be deemed significant, a length weighted intersection was required by Tusker to have a weighted average grade of >2,500ppm TREO and a minimum width of 3 metres. |
| ***Relationship between mineralisation widths and*** | • *These relationships are particularly important in the reporting of Exploration Results.*<br>• *If the geometry of the mineralisation with respect to the drill hole angle is known, its nature should* | • The reported historical drillhole intersections in the Tundulu area are based on reported down hole lengths.<br>• The inclined nature of the drillholes completed |

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| ***intercept lengths*** | *be reported.*<br>• *If it is not known and only the down hole lengths are reported, there should be a clear statement to this effect (e.g. 'down hole length, true width not known').* | to date at Machinga is considered to be appropriate given the currently interpreted gently east dipping nature of the REE-bearing units.<br>• Due to the low to moderate dips identified in the trenching and drilling to date, it is expected true widths will be somewhat less than reported downhole thicknesses.<br>• Diamond drill holes MDD001-005 were drilled normal to the structure and intersection widths thus closely approximate true widths. |
| ***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.* | • A drill hole collar location plan and representative cross section showing the extent and morphology of the mineralised zones are included in the body of the release. |
| ***Balanced Reporting*** | • *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.*<br>• *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.* | • The reporting of previous exploration results is considered balanced by the competent person.<br>• All results appear to have been reported. |
| ***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.* | • Various parts of the project area have been extensively geochemically sampled by soil and rock chip sampling.<br>• Much of the project area was covered by a total radiometric survey carried out by RSL with a scintillometer on 200m spaced survey lines with a station spacing of 10m, covering the entire 7 km long Machinga anomaly. The northern part of the anomaly has been infilled on 50m spaced survey lines. |
| ***Further work*** | • *The nature and scale of planned further work (e.g. tests for lateral extensions or depth extensions or large- scale step-out drilling).*<br>• *Diagrams clearly highlighting the areas of possible extensions, including the main geological interpretations and future drilling areas, provided this information is not commercially sensitive.* | • This is expected to include an initial drone LIDAR survey, high-resolution aerial photography and aeromagnetic coverage of the prospect area.<br>• This will be paired initially with an RC and diamond drilling campaign aimed at evaluating the extent of the REE mineralisation in the immediate vicinity of the previously delineated carbonatite sheets.<br>• The drilling will provide sufficient information for the completion of a mineral resource estimate to be reported according to the JORC 2012 guidelines.<br>• Metallurgical sampling from drillhole core samples to support the resource estimate is also envisaged. |

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