

Metallurgical Testwork Confirms Outstanding Ionic Clay Recoveries for Caldeira REE Project

Highest globally reported Ionic Adsorption Clay recoveries using a standard AMSUL wash.

Highlights

- Metallurgical testwork results continue to show excellent leach extractions for Ionic Clays¹ at the Caldeira Project.
- Rare Earth Element recoveries across all six deposits tested display consistent strong ionic behaviour over thick intervals using a standard AMSUL wash test (unoptimised).
- Exceptional Magnet Rare Earth Element² (MREE) leach extractions, include;
 - 48 different metallurgical composites across ALL deposits had a TREO head grade of >4,000ppm and achieved average Magnetic REE leach extractions of 73% with 74% Nd, 71% Pr, 57% Tb and 56% Dy with a standard AMSUL wash (unoptimised) at pH4.
 - 81% magnet metal extractions over 10.4m from CVNDD001 with a high of 88% including 90% for Nd, 86% for Pr, 79% for Tb and 84% for Dy.
 - 73% magnet metal extractions over 8.4m from SBDD009 with a high of 75% including 76% for Nd, 73% for Pr, and 63% for Tb & Dy respectively.
 - 80% magnet metal extractions over 5.6m from DM2DD001 with a high of 85% including 87% for Nd, 81% for Pr, 73% for Tb and 77% for Dy.
 - 73% magnet metal extractions over 8.7m from CDMDD009 with a high of 75% including 77% for Nd, 74% for Pr, 55% Tb and 55% for Dy.

Meteoric Resources NL (**ASX: MEI**) (**Meteoric** or the **Company**) is pleased to report additional results of the metallurgical test work being undertaken on its 100%-owned Caldeira Rare Earth Ionic Clay Project, in the state of Minas Gerais, Brazil.

Meteoric has engaged Australia's leading laboratory in ionic clay leaching – Australian Nuclear Science and Technology Organisation (**ANSTO**) to assist with process flowsheet development. The testwork reported is from diamond drill cores collected during a metallurgical sampling program completed by Meteoric across the six deposits with defined Inferred Resources. These results build on historical testwork from a single composite sample at the Capo do Mel deposit which produced outstanding results including leachability averaging 70%.

¹ ASX:MEI 20/12/2023 Caldeira Confirmed as Ionic Adsorption Clay REE Project

² Magnetic Rare Earth Elements (MREE) = Pr, Nd, Tb, Dy

Chief Executive Officer, Nick Holthouse said,

“We are delighted by more great results from the metallurgical testwork program which continues to build on the exceptional Recovery to Leach results announced earlier this year.

The recoveries not only confirm that the vast majority of samples tested are truly ionic and amenable to low Capex, low Opex AMSUL leaching at pH 4.0 but also that the ionic clays extend significantly below the existing resource profile. All of the results add value to the schedule through increased scale and scheduling flexibility.

Importantly, the latest results focus on de-risking process recoveries for the Southern Licenses of Capão do Mel and Soberbo, both integral as near-term sources of ore feed for Meteoric’s proposed Southern license processing plant location and the ongoing focus for resource infill drilling, engineering and permitting packages.”

New ANSTO Metallurgical Leach Results

Metallurgical testwork commenced at ANSTO in July 2023 on 3m composite samples from forty-one (41) diamond drill cores completed as part of the Company’s metallurgical sampling program in March-July 2023. The program targeted the six deposits which currently define the Company’s stated Inferred Resource Estimates: Capão Do Mel, Soberbo, Figueira, Cupim Vermelho Norte, Donna Maria 1, and Donna Maria 2 (Figure 1 & Appendix 1). Standard AMSUL washes have been completed for 33 diamond drill holes to date for a total of 190 composite diagnostic leaches. The remaining results are pending and are expected in December 2023-January 2024.

The metallurgical testwork program was designed to:

- Validate the results of previous testwork undertaken by JOGMEC in 2019 and reported to the ASX by MEI in December 2022; and
- Assess the metallurgical variability both laterally and at depth across each of the deposits, paying particular attention to the clay zone below known JOGMEC drilling, the current resource estimation boundary, and the previous SGS testwork.

Composite samples (3m) were collected from beneath the soil horizon (2m depth), starting in the clay zone and progressing down the hole until the intrusive basement was reached. Whilst the soil from the deposit does contain strongly elevated REE, it was not included in the testwork as it is planned for stockpiling and subsequent replacement and revegetation after mining.

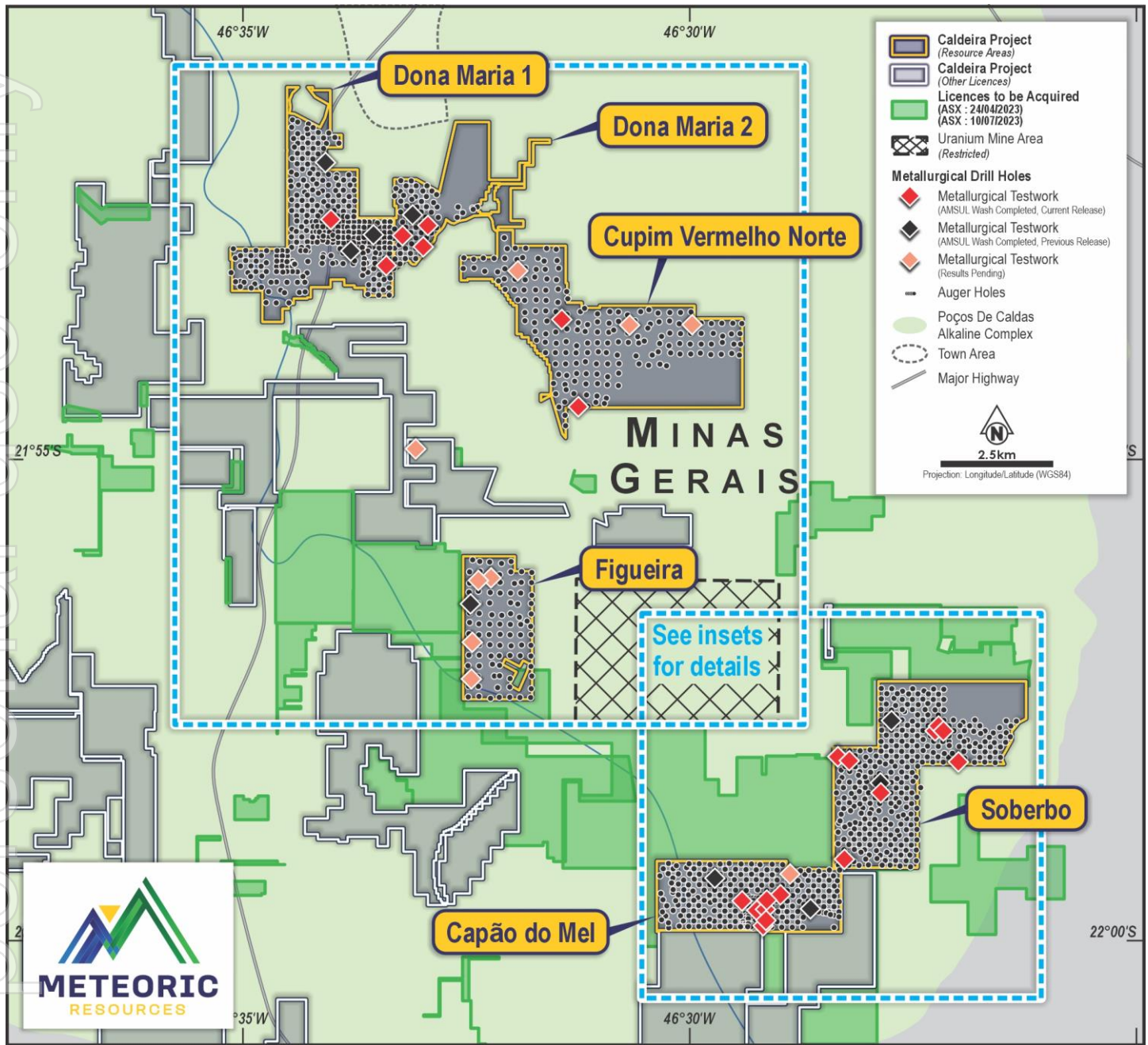


Figure 1: Metallurgical Drill Hole Location Plan, Caldeira Project.

Results

Mineralisation across all deposits tested so far displays strong ionic behaviour over thick intervals using a standard AMSUL wash test. The best results from each of the tenements include:

- 81% magnet metal extractions over 10.4m from CVNDD001 with a high of 88% including 90% for Nd, 86% for Pr, 79% for Tb and 84% for Dy.
- 73% magnet metal extractions over 8.4m from SBDD009 with a high of 75% including 76% for Nd, 73% for Pr, and 63% for Tb & Dy respectively.
- 80% magnet metal extractions over 5.6m from DM2DD001 with a high of 85% including 87% for Nd, 81% for Pr, 73% for Tb and 77% for Dy.
- 73% magnet metal extractions over 8.7m from CDMDD009 with a high of 75% including 77% for Nd, 74% for Pr, 55% Tb and 55% for Dy.
- 72% magnet metal extractions over 6.6m from CDMDD010 with a high of 78% including 80% for Nd, 77% for Pr, 47% Tb and 43% for Dy.

Typically, the holes that displayed the highest metallurgical recoveries are in the strongly weathered clay zone above the transition zone and the basement. Samples in the top part of the hole (from 2-4m) show a cerium enrichment zone, where cerium has been oxidised from Ce⁺³ to Ce⁺⁴, which has resulted in significant precipitation of Cerianite (CeO₂) whilst the remaining liberated rare earth elements travel down the profile until they physically adsorb onto the kaolinite clay surface. The zone of enrichment of rare earth elements is observed to be 5-30m thick and shows exceptional recoveries under standard ammonium sulphate leaching conditions.

The results clearly show the rare earth extractions achieved from the six deposits evaluated under standard ammonium sulphate wash conditions (currently still unoptimised) respond extremely favourably, and unequivocally validate the historical recoveries that this is a true rare earth ionic clay deposit.

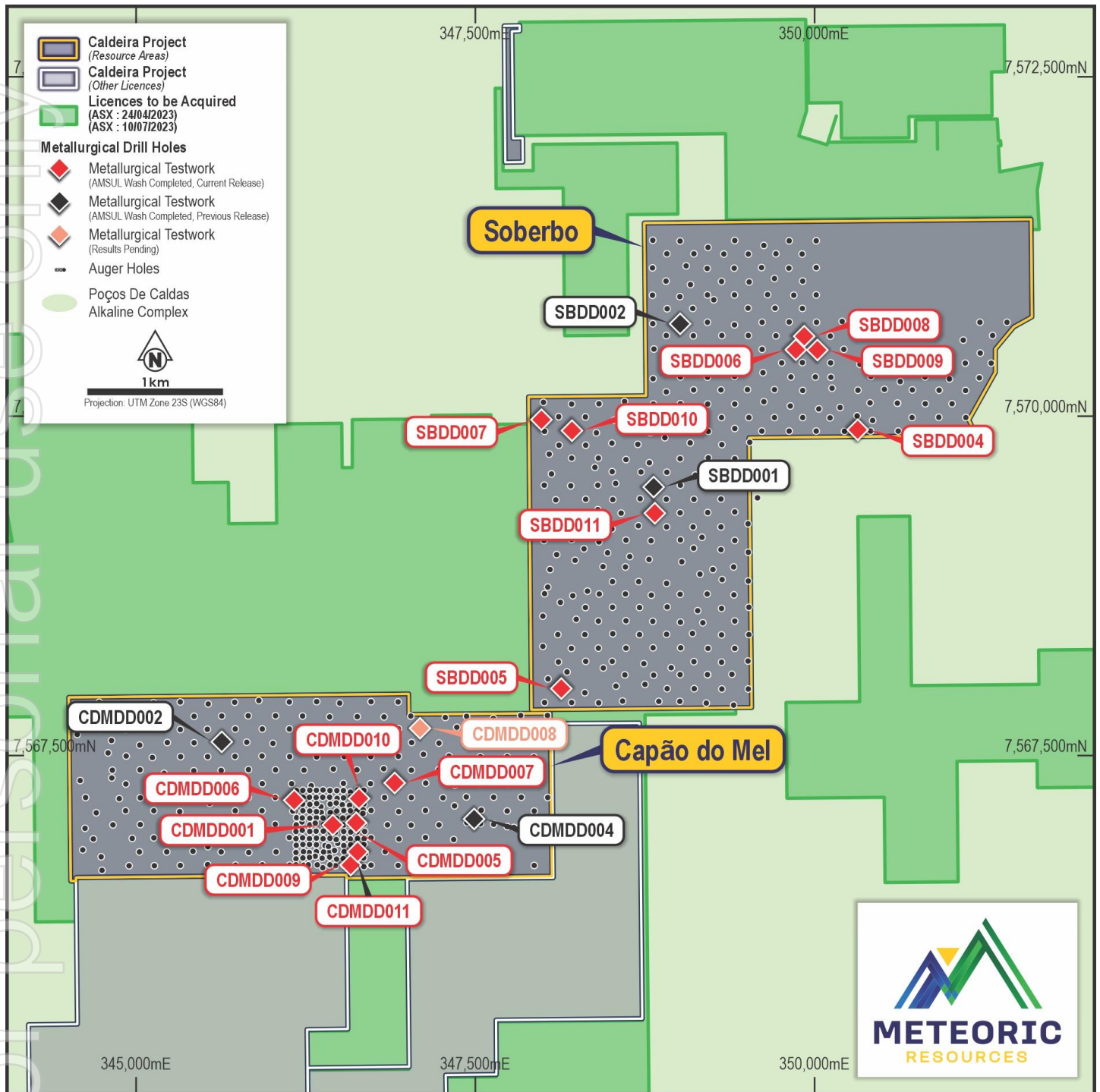


Figure 2: Metallurgical Drill Hole Location Plan, Capao do Mel and Soberbo tenements

Table 1: Capão Do Mel Metallurgical Drill Holes – REE recoveries by depth (leach extractions above 45% are highlighted in bold type)

| Drill Hole | Interval | | | Lithology | Assayed Head (ppm) | | | Pr | Nd | Tb | Dy | MREE Recovery | TREE-Ce Recovery |
|------------|----------|------|--------------|--------------|--------------------|---------|-------|----|----|----|----|---------------|------------------|
| | From | To | m | | TREO | TREE-Ce | MREE | % | % | % | % | % | % |
| CDMDD001 | 2.2 | 5.5 | 3.3 | Clay | 7,418 | 4,999 | 1,631 | 67 | 69 | 44 | 36 | 67 | 65 |
| | 5.5 | 8.5 | 3.0 | Clay | 5,021 | 3,276 | 1,063 | 49 | 52 | 30 | 28 | 50 | 51 |
| | 8.5 | 11.3 | 2.8 | Clay | 6,378 | 4,793 | 1,380 | 64 | 66 | 51 | 47 | 65 | 67 |
| | 11.3 | 14.0 | 2.7 | Clay | 6,272 | 4,898 | 1,329 | 60 | 62 | 45 | 44 | 61 | 61 |
| | 14.0 | 17.5 | 3.5 | Clay | 5,549 | 4,148 | 1,106 | 67 | 70 | 56 | 54 | 69 | 67 |
| | 17.5 | 21.0 | 3.5 | Fresh Rock | 3,392 | 2,307 | 745 | 8 | 9 | 6 | 8 | 8 | 9 |
| | 21.0 | 24.0 | 3.0 | Fresh Rock | 1,774 | 845 | 263 | 17 | 19 | 10 | 13 | 18 | 19 |
| | 24.0 | 26.5 | 2.5 | Fresh Rock | 1,098 | 418 | 137 | 10 | 12 | | 9 | 12 | 11 |
| CDMDD002 | 2.0 | 5.0 | 3.0 | Clay | 2,639 | 991 | 344 | 43 | 44 | 24 | 24 | 43 | 42 |
| | 5.0 | 8.0 | 3.0 | Clay | 2,940 | 2,057 | 673 | 44 | 45 | 19 | 14 | 43 | 36 |
| | 8.0 | 11.0 | 3.0 | Clay | 5,596 | 3,787 | 1,415 | 70 | 77 | 49 | 48 | 74 | 68 |
| | 11.0 | 15.2 | 4.2 | Clay | 5,908 | 4,550 | 1,711 | 77 | 84 | 62 | 58 | 81 | 79 |
| | 15.2 | 18.5 | 3.3 | Transition2 | 3,076 | 2,144 | 740 | 43 | 45 | 30 | 31 | 44 | 43 |
| CDMDD004 | 2.6 | 6.0 | 3.4 | Clay | 7,296 | 2,235 | 5,786 | 83 | 89 | 66 | 61 | 87 | 84 |
| | 6.0 | 9.0 | 3.0 | Clay | 10,468 | 2,930 | 7,991 | 86 | 92 | 72 | 71 | 90 | 90 |
| | 9.0 | 12.0 | 3.0 | Transition 1 | 7,649 | 2,220 | 6,254 | 83 | 90 | 69 | 68 | 87 | 86 |
| | 12.0 | 16.4 | 4.4 | Transition 1 | 3,587 | 795 | 2,345 | 29 | 31 | 28 | 26 | 30 | 32 |
| CDMDD005 | 2.0 | 5.4 | 3.4 | Clay | 9,621 | 7211 | 2,316 | 49 | 53 | 41 | 40 | 52 | 54 |
| CDMDD006 | 3.0 | 6.0 | 3.0 | Clay | 2,545 | 916 | 295 | 37 | 38 | 13 | 10 | 36 | 36 |
| | 6.0 | 7.9 | 1.9 | Clay | 2,920 | 1,020 | 332 | 47 | 46 | 10 | 10 | 42 | 44 |
| | 7.9 | 10.8 | 2.8 | Clay | 2,947 | 1,226 | 381 | 82 | 79 | 27 | 23 | 76 | 73 |
| | 10.8 | 13.0 | 2.3 | Clay | 1,880 | 1,034 | 313 | 65 | 64 | 23 | 19 | 62 | 65 |
| | 13.0 | 15.0 | 2.0 | Clay | 1,905 | 1,434 | 397 | 76 | 74 | 39 | 35 | 73 | 73 |
| | 15.0 | 19.0 | 4.0 | Transition 1 | 2,956 | 1,579 | 454 | 51 | 50 | 14 | 11 | 48 | 51 |
| | 19.0 | 23.0 | 4.0 | Transition 1 | 2,927 | 1,623 | 477 | 44 | 43 | 15 | 10 | 41 | 47 |
| | 23.0 | 27.0 | 4.0 | Transition 1 | 3,317 | 2,463 | 708 | 44 | 43 | 34 | 27 | 43 | 46 |
| | 27.0 | 30.0 | 3.0 | Transition 1 | 2,330 | 1,670 | 502 | 36 | 36 | 18 | 19 | 35 | 43 |
| | 30.0 | 33.0 | 3.0 | Transition 2 | 2,191 | 1,102 | 315 | 25 | 25 | 13 | 13 | 25 | 30 |
| 33.0 | 36.0 | 3.0 | Transition 2 | 1,870 | 1,181 | 356 | 10 | 10 | 12 | 7 | 10 | 14 | |
| CDMDD007 | 3.0 | 5.8 | 2.8 | Clay | 3,615 | 2,156 | 680 | 67 | 67 | 49 | 44 | 66 | 66 |
| | 5.8 | 8.0 | 2.2 | Clay | 3,200 | 1,491 | 492 | 65 | 65 | 50 | 45 | 64 | 62 |
| | 8.0 | 11.0 | 3.0 | Clay | 1,865 | 698 | 237 | 52 | 53 | 34 | 26 | 52 | 53 |
| | 11.0 | 14.0 | 3.0 | Clay | 1,825 | 703 | 239 | 57 | 61 | 32 | 30 | 59 | 60 |
| | 14.0 | 17.0 | 3.0 | Clay | 2,526 | 1,058 | 349 | 54 | 57 | 32 | 30 | 55 | 53 |
| | 17.0 | 20.0 | 3.0 | Clay | 2,482 | 1,058 | 356 | 48 | 49 | 28 | 26 | 47 | 47 |
| | 20.0 | 23.0 | 3.0 | Clay | 2,158 | 706 | 242 | 52 | 54 | 28 | 22 | 51 | 52 |
| | 23.0 | 26.0 | 3.0 | Clay | 714 | 382 | 123 | 49 | 52 | 19 | 20 | 49 | 48 |
| | 26.0 | 29.0 | 3.0 | Transition 1 | 584 | 305 | 84 | 38 | 41 | 22 | 13 | 38 | 34 |
| | 29.0 | 31.6 | 2.6 | Transition 2 | 876 | 540 | 143 | 22 | 22 | 11 | 7 | 21 | 19 |
| 31.6 | 33.3 | 1.7 | Transition 2 | 1,176 | 605 | 175 | 9 | 9 | | 5 | 9 | 10 | |
| CDMDD008 | 1.7 | 4.0 | 2.4 | Clay | 4,778 | 2,160 | 741 | 63 | 63 | 39 | 39 | 62 | 60 |
| | 4.0 | 7.0 | 3.0 | Clay | 5,460 | 4,137 | 1,333 | 70 | 76 | 63 | 64 | 74 | 70 |
| | 7.0 | 10.0 | 3.0 | Clay | 2,214 | 1,459 | 414 | 63 | 67 | 62 | 65 | 65 | 61 |
| | 10.0 | 13.0 | 3.0 | Clay | 913 | 404 | 102 | - | - | - | - | - | - |
| | 13.0 | 16.0 | 3.0 | Clay | 822 | 397 | 94 | - | - | - | - | - | - |
| | 16.0 | 19.0 | 3.0 | Clay | 894 | 423 | 110 | - | - | - | - | - | - |
| | 19.0 | 22.1 | 3.1 | Clay | 1,019 | 485 | 135 | - | - | - | - | - | - |
| | 22.1 | 25.0 | 2.9 | Transition 2 | 764 | 353 | 108 | - | - | - | - | - | - |
| | 25.0 | 28.0 | 3.0 | Transition 2 | 787 | 391 | 116 | - | - | - | - | - | - |
| | 28.0 | 29.7 | 1.7 | Transition 3 | 1,045 | 486 | 135 | - | - | - | - | - | - |
| | 29.7 | 33.0 | 3.3 | Transition 3 | 828 | 396 | 93 | - | - | - | - | - | - |
| | 33.0 | 36.8 | 3.8 | Transition 3 | 970 | 447 | 112 | - | - | - | - | - | - |

| | | | | | | | | | | | | | |
|----------|------|------|-----|--------------|--------|--------|-------|----|-----|----|----|-----|-----|
| CDMDD009 | 2.3 | 4.8 | 2.5 | Clay | 7,431 | 5,067 | 1,542 | 72 | 75 | 59 | 57 | 73 | 71 |
| | 4.8 | 8.0 | 3.2 | Clay | 3,519 | 2,403 | 705 | 74 | 77 | 55 | 55 | 75 | 73 |
| | 8.0 | 11.0 | 3.0 | Clay | 1,875 | 1,299 | 374 | 68 | 77 | 38 | 36 | 71 | 68 |
| | 11.0 | 14.0 | 3.0 | Transition 3 | 1,730 | 810 | 256 | 31 | 34 | 18 | 10 | 32 | 33 |
| | 14.0 | 16.9 | 2.9 | Transition 3 | 2,388 | 967 | 303 | 20 | 23 | 8 | 9 | 21 | 21 |
| CDMDD010 | 2.4 | 6.0 | 3.6 | Clay | 4,202 | 2,989 | 848 | 77 | 80 | 47 | 43 | 78 | 78 |
| | 6.0 | 9.0 | 3.0 | Clay | 5,180 | 1,880 | 545 | 62 | 69 | 42 | 40 | 66 | 71 |
| | 9.0 | 11.8 | 2.8 | Clay | 2,728 | 1,247 | 349 | 57 | 65 | 28 | 20 | 59 | 62 |
| | 11.8 | 15.0 | 3.3 | Clay | 3,371 | 945 | 262 | 55 | 57 | 10 | 6 | 50 | 47 |
| | 15.0 | 19.3 | 4.3 | Clay | 3,516 | 1,248 | 383 | 51 | 53 | 18 | 12 | 50 | 54 |
| | 19.3 | 22.8 | 3.6 | Transition 3 | 2,796 | 1,547 | 475 | 38 | 41 | 15 | 12 | 39 | 44 |
| | 22.8 | 27.0 | 4.2 | Transition 3 | 2,336 | 1,184 | 385 | 21 | 24 | 8 | 7 | 22 | 25 |
| | 27.0 | 31.0 | 4.0 | Fresh Rock | 2,036 | 743 | 248 | 7 | 8 | - | 2 | 7 | 8 |
| | 31.0 | 34.7 | 3.7 | Fresh Rock | 2,067 | 754 | 248 | 6 | 7 | - | 2 | 6 | 6 |
| | 34.7 | 39.0 | 4.3 | Fresh Rock | 2,770 | 1,199 | 377 | 5 | 5 | - | 3 | 5 | 5 |
| CDMDD011 | 39.0 | 43.0 | 4.0 | Fresh Rock | 1,060 | 516 | 162 | 4 | 4 | - | 2 | 4 | 3 |
| | 43.0 | 47.9 | 4.9 | Fresh Rock | 2,361 | 1,043 | 347 | 8 | 9 | 9 | 7 | 9 | 8 |
| | 2.0 | 5.0 | 3.0 | Clay | 13,351 | 11,583 | 3,888 | 95 | 104 | 88 | 92 | 101 | 100 |
| | 5.0 | 8.5 | 3.5 | Clay | 13,202 | 11,025 | 3,566 | 88 | 104 | 84 | 89 | 99 | 94 |
| | 8.5 | 11.0 | 2.5 | Clay | 5,519 | 4,653 | 1,484 | 92 | 105 | 84 | 87 | 101 | 96 |
| CDMDD011 | 11.0 | 13.7 | 2.7 | Clay | 4,752 | 3,774 | 1,192 | 84 | 90 | 74 | 79 | 88 | 85 |
| | 13.7 | 18.0 | 4.4 | Transition 3 | 4,486 | 2,846 | 919 | 51 | 57 | 50 | 48 | 55 | 57 |
| | 18.0 | 21.5 | 3.5 | Transition 3 | 2,017 | 1,096 | 349 | 24 | 28 | 24 | 21 | 27 | 29 |
| | 21.5 | 25.0 | 3.4 | Fresh Rock | 2,042 | 930 | 287 | 13 | 16 | 9 | 10 | 15 | 12 |

TREO = La₂O₃ + CeO₂ + Pr₆O₁₁ + Nd₂O₃ + Sm₂O₃ + Eu₂O₃ + Gd₂O₃ + Tb₄O₇ + Dy₂O₃ + Ho₂O₃ + Er₂O₃ + Tm₂O₃ + Yb₂O₃ + Lu₂O₃ + Y₂O₃

TREE-Ce = La + Pr + Nd + Sm + Eu + Gd + Tb + Dy + Ho + Er + Tm + Yb + Lu + Y

Note: "-" denotes assays pending

Table 2: Capão Do Mel Metallurgical Drill Holes –AVERAGE leach extractions by lithology classification, recovery and Head grade

| Criteria | #of samples | Average Head (ppm) | | | % Extractions | | | | | | |
|---------------------------|-------------|--------------------|-------|---------|---------------|----|----|----|---------|------|---------|
| | | TREO | MREE | TREE-Ce | Pr | Nd | Tb | Dy | Magnets | TREE | TREE-Ce |
| Avg ALL CLAY & Transition | 64 | 3,298 | 655 | 2,263 | 53 | 56 | 35 | 31 | 54 | 38 | 54 |
| Avg >45% MREE Recovery | 36 | 4,410 | 922 | 3,075 | 64 | 68 | 43 | 40 | 65 | 46 | 65 |
| Avg ALL Clay | 37 | 4,181 | 845 | 2,886 | 62 | 65 | 40 | 37 | 63 | 43 | 62 |
| Avg ALL Transition | 18 | 2,683 | 537 | 1,904 | 34 | 36 | 23 | 19 | 35 | 27 | 37 |
| Avg Transition 1 | 7 | 3,336 | 749 | 2,720 | 46 | 48 | 29 | 25 | 46 | 38 | 49 |
| Avg Transition 2 | 4 | 2,003 | 388 | 1,545 | 25 | 26 | 17 | 15 | 25 | 20 | 27 |
| Avg Transition 3 | 6 | 2,626 | 448 | 1,408 | 31 | 35 | 21 | 18 | 33 | 22 | 35 |
| Avg Fresh Rock | 0 | 2,067 | 313 | 1,182 | 9 | 10 | 8 | 6 | 9 | 7 | 9 |
| Avg Head >4000ppm TREO | 17 | 6,108 | 1,420 | 4,597 | 70 | 74 | 54 | 52 | 72 | 57 | 71 |
| Avg Head > 5000 ppm TREO | 13 | 6,587 | 1,572 | 5,106 | 70 | 75 | 54 | 52 | 73 | 59 | 72 |
| ANSTO MAX | - | 10,468 | 2,930 | 7,991 | 86 | 92 | 72 | 71 | 90 | 78 | 90 |
| JOGMEC CDM | - | 5,000 | - | - | 75 | 78 | 66 | 64 | - | 68 | - |

Note: "-" denotes no data

Table 3: SOBERBO Metallurgical Drill Holes – REE recoveries by depth (leach extractions above 45% are highlighted in bold type)

| Drill Hole | Interval | | | Lithology | Assayed Head (ppm) | | | Pr | Nd | Tb | Dy | MREE Recovery | TREE-Ce Recovery |
|------------|----------|------|--------------|--------------|--------------------|---------|-------|----|----|----|----|---------------|------------------|
| | From | To | m | | TREO | TREE-Ce | MREE | % | % | % | % | % | % |
| SBDD001 | 2 | 5 | 3 | Clay | 2,777 | 1,709 | 640 | 36 | 40 | 21 | 20 | 38 | 35 |
| | 5 | 9 | 4 | Clay | 3,286 | 2,119 | 827 | 49 | 50 | 31 | 28 | 49 | 46 |
| | 9 | 13 | 4 | Clay | 5,768 | 4,469 | 1,707 | 47 | 51 | 35 | 34 | 50 | 48 |
| SBDD002 | 2 | 5 | 3 | Clay | 2,690 | 845 | 313 | 46 | 49 | 21 | 17 | 47 | 42 |
| | 5 | 8 | 3 | Clay | 2,550 | 1,106 | 397 | 34 | 38 | 22 | 21 | 36 | 31 |
| | 8 | 11 | 3 | Clay | 2,054 | 1,077 | 394 | 46 | 51 | 32 | 23 | 49 | 42 |
| | 11 | 14 | 3 | Clay | 4,502 | 2,013 | 809 | 77 | 83 | 41 | 32 | 80 | 74 |
| | 14 | 17 | 3 | Clay | 4,238 | 3,344 | 1,337 | 85 | 91 | 60 | 57 | 89 | 85 |
| | 17 | 20 | 3 | Clay | 4,008 | 2,966 | 1,086 | 80 | 86 | 63 | 59 | 84 | 81 |
| | 20 | 23.7 | 3.7 | Transition 1 | 4,538 | 3,534 | 1,295 | 83 | 89 | 73 | 67 | 87 | 83 |
| 23.7 | 26.1 | 2.5 | Transition 1 | 5,383 | 4,130 | 1,604 | 52 | 55 | 70 | 68 | 55 | 57 | |
| SBDD004 | 3 | 6 | 3 | Clay | 4,394 | 3,329 | 1,236 | 74 | 74 | 58 | 60 | 74 | 71 |
| | 6 | 9 | 3 | Clay | 4,100 | 3,024 | 1,053 | 68 | 66 | 61 | 61 | 67 | 65 |
| | 9 | 14 | 5 | Clay | 1,289 | 674 | 238 | 47 | 49 | 39 | 42 | 48 | 47 |
| | 14 | 19 | 5 | Transition 1 | 1,227 | 624 | 215 | 30 | 32 | 26 | 18 | 30 | 30 |
| | 19 | 23 | 4 | Transition 2 | 1,349 | 682 | 247 | 21 | 23 | 13 | 14 | 22 | 23 |
| SBDD005 | 2.0 | 5.0 | 3.0 | Clay | 1,271 | 591 | 181 | 9 | 10 | - | 2 | 9 | 7 |
| | 5.0 | 8.3 | 3.3 | Clay | 1,507 | 617 | 194 | 12 | 14 | - | 4 | 13 | 10 |
| | 8.3 | 13.0 | 4.7 | Clay | 1,606 | 717 | 229 | 11 | 13 | - | 4 | 12 | 10 |
| | 13.0 | 17.0 | 13.0 | Clay | 1,780 | 898 | 307 | 40 | 45 | 15 | 14 | 42 | 34 |
| SBDD006 | 2.5 | 5.3 | 2.8 | Clay | 1,355 | 175 | 50 | 23 | 27 | | 4 | 23 | 16 |
| | 5.3 | 7.5 | 2.3 | Transition 1 | 1,634 | 651 | 249 | 42 | 45 | 24 | 25 | 43 | 36 |
| SBDD007 | 2.0 | 4.8 | 2.8 | Clay | 3,711 | 2,680 | 952 | 56 | 59 | 49 | 49 | 58 | 61 |
| | 4.8 | 6.5 | 1.7 | Clay | 4,775 | 3,865 | 1,359 | 64 | 65 | 51 | 52 | 64 | 67 |
| | 6.5 | 8.8 | 2.3 | Transition 1 | 6,694 | 5,230 | 1,855 | 51 | 52 | 45 | 46 | 52 | 54 |
| SBDD008 | 3.0 | 7.0 | 4.0 | Clay | 1,286 | 657 | 234 | 34 | 35 | 11 | 8 | 33 | 28 |
| | 7.0 | 11.0 | 4.0 | Clay | 2,148 | 1,278 | 513 | 33 | 36 | 16 | 14 | 34 | 33 |
| | 11.0 | 15.0 | 4.0 | Clay | 2,567 | 1,505 | 567 | 46 | 47 | 27 | 21 | 46 | 44 |
| | 15.0 | 19.0 | 4.0 | Clay | 5,347 | 4,069 | 1,469 | 60 | 58 | 42 | 43 | 58 | 56 |
| | 19.0 | 21.7 | 2.7 | Clay | 5,255 | 4,216 | 1,539 | 72 | 71 | 64 | 64 | 71 | 70 |
| 21.7 | 26.2 | 4.5 | Transition 2 | 4,227 | 3,354 | 1,201 | 64 | 65 | 58 | 58 | 65 | 65 | |
| SBDD009 | 2.8 | 7.0 | 4.2 | Clay | 1,858 | 868 | 313 | 28 | 29 | 8 | 9 | 27 | 24 |
| | 7.0 | 9.7 | 2.7 | Clay | 2,208 | 1,393 | 523 | 40 | 42 | 21 | 18 | 40 | 38 |
| | 9.7 | 14.0 | 4.3 | Clay | 4,008 | 2,948 | 1,101 | 62 | 62 | 50 | 46 | 61 | 59 |
| | 14.0 | 18.5 | 4.5 | Clay | 6,012 | 4,942 | 1,770 | 73 | 76 | 63 | 63 | 75 | 72 |
| | 18.5 | 22.4 | 3.9 | Transition 1 | 5,833 | 4,634 | 1,619 | 70 | 72 | 62 | 63 | 71 | 70 |
| 22.4 | 26.2 | 3.8 | Transition 2 | 3,495 | 2,597 | 894 | 57 | 54 | 43 | 45 | 54 | 56 | |
| SBDD010 | 2.0 | 6.5 | 4.5 | Clay | 1,424 | 568 | 174 | 36 | 37 | 13 | 9 | 34 | 28 |
| | 6.5 | 11.0 | 4.5 | Clay | 2,717 | 1,539 | 530 | 58 | 60 | 34 | 29 | 59 | 54 |
| | 11.0 | 15.7 | 4.7 | Clay | 6,172 | 4,516 | 1,433 | 70 | 77 | 59 | 57 | 74 | 68 |
| | 15.7 | 21.0 | 5.3 | Clay | 3,834 | 2,786 | 825 | 65 | 65 | 52 | 53 | 65 | 61 |
| | 21.0 | 24.3 | 3.3 | Clay | 1,342 | 798 | 254 | 45 | 44 | 32 | 27 | 43 | 44 |
| | 24.3 | 38.7 | 14.4 | Fresh Rock | 1,030 | 337 | 108 | 4 | 5 | - | - | 4 | 4 |
| SBD011 | 2.6 | 6.0 | 3.4 | Clay | 1,056 | 178 | 48 | 28 | 29 | - | 3 | 25 | 17 |
| | 6.0 | 10.0 | 4.0 | Clay | 1,195 | 226 | 57 | 23 | 25 | - | 5 | 21 | 15 |
| | 10.0 | 14.5 | 4.5 | Clay | 1,749 | 931 | 312 | 17 | 18 | 8 | 9 | 17 | 13 |
| | 14.5 | 18.4 | 3.9 | Clay | 4,399 | 3,253 | 1,143 | 47 | 50 | 34 | 36 | 48 | 43 |
| | 18.4 | 22.0 | 3.6 | Transition 1 | 3,844 | 2,868 | 1,043 | 55 | 58 | 39 | 39 | 56 | 54 |
| | 22.0 | 24.5 | 2.5 | Transition 2 | 1,472 | 887 | 292 | 44 | 45 | 29 | 27 | 44 | 44 |

Table 4: Soberbo Metallurgical Drill Holes – AVERAGE leach extractions by lithology classification, recovery and Head grade

| Criteria | #of samples | Average Head (ppm) | | | % Extractions | | | | | | |
|---------------------------------|-------------|--------------------|-------|---------|---------------|----|----|----|---------|------|---------|
| | | TREO | MREE | TREE-Ce | Pr | Nd | Tb | Dy | Magnets | TREE | TREE-Ce |
| Avg ALL CLAY and ALL Transition | 44 | 3,313 | 812 | 2,256 | 51 | 54 | 39 | 35 | 52 | 38 | 49 |
| Avg >45% MREE Recovery | 28 | 4,255 | 1,114 | 3,090 | 62 | 65 | 48 | 47 | 64 | 51 | 61 |
| Avg ALL Clay | 33 | 3,214 | 764 | 2,123 | 51 | 53 | 37 | 33 | 51 | 36 | 48 |
| Avg ALL Transition | 11 | 3,609 | 956 | 2,654 | 54 | 56 | 44 | 43 | 55 | 44 | 54 |
| Avg Transition 1 | 7 | 4,165 | 1,126 | 3,096 | 58 | 62 | 49 | 47 | 60 | 47 | 58 |
| Avg Transition 2 | 4 | 2,636 | 659 | 1,880 | 47 | 47 | 36 | 36 | 46 | 38 | 47 |
| Avg Transition 3 | 0 | - | - | - | - | - | - | - | - | - | - |
| Avg Fresh Rock | 1 | 1,030 | 108 | 337 | 4 | 5 | 0 | 0 | 4 | 2 | 4 |
| Avg Head >4000ppm TREO | 18 | 4,981 | 1,368 | 3,769 | 68 | 71 | 55 | 54 | 69 | 58 | 67 |
| Avg Head > 5000 ppm TREO | 8 | 5,808 | 1,625 | 4,526 | 65 | 68 | 55 | 55 | 66 | 57 | 65 |
| ANSTO MAX | - | 5,201 | 0 | 0 | 85 | 91 | 60 | 57 | 89 | 78 | 85 |
| JOGMEC CDM | - | 5,000 | - | - | 75 | 78 | 66 | 64 | - | 68 | - |

*Note SBDD005 has been omitted from the statistical analysis as it is being re-assayed.

Note: “-“denotes no data

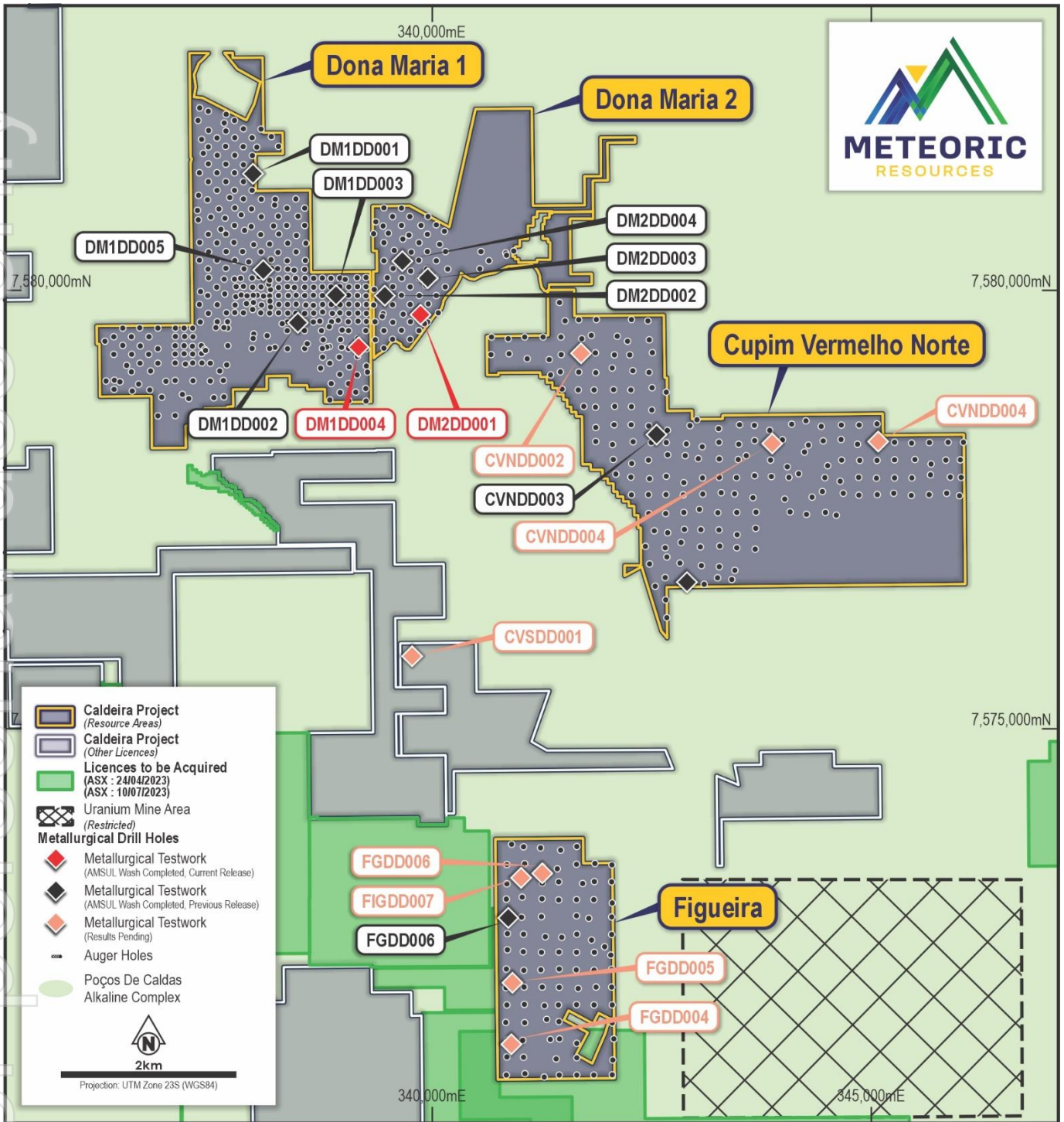


Figure 3: Metallurgical Drill Hole Location Plan, Dona Maria 1 & 2, Cupim Vermelho Norte and Figueira tenements

Table 5: DONA MARIA 1 Metallurgical Drill Holes – REE recoveries by depth (leach extractions above 45% are highlighted in bold type)

| Drill Hole | Interval | | | Lithology | Assayed Head (ppm) | | | Pr | Nd | Tb | Dy | MREE Recovery | TREE-Ce Recovery |
|------------|----------|-------|--------------|--------------|--------------------|---------|-------|----|----|----|----|---------------|------------------|
| | From | To | m | | TREO | TREE-Ce | MREE | | | | | | |
| DM1DD001 | 2.8 | 6.0 | 3.2 | Clay | 2,616 | 1,675 | 729 | 58 | 64 | 45 | 37 | 61 | 56 |
| | 6.0 | 8.7 | 2.7 | Clay | 3,697 | 2,812 | 1,195 | 68 | 73 | 66 | 67 | 71 | 70 |
| | 8.7 | 12.0 | 3.3 | Transition 2 | 4,303 | 3,533 | 1,401 | 69 | 75 | 73 | 75 | 73 | 74 |
| | 12.0 | 15.0 | 3.0 | Transition 2 | 2,575 | 1,936 | 755 | 67 | 71 | 72 | 73 | 71 | 71 |
| | 15.0 | 18.0 | 3.0 | Transition 3 | 1,518 | 899 | 338 | 28 | 32 | 37 | 35 | 31 | 29 |
| | 18.0 | 20.4 | 2.4 | Transition 3 | 845 | 419 | 151 | 16 | 18 | 17 | 37 | 18 | 15 |
| DM1DD002 | 2.2 | 5.0 | 2.8 | Clay | 2,503 | 1,436 | 549 | 87 | 90 | 51 | 42 | 88 | 87 |
| | 5.0 | 8.0 | 3.0 | Clay | 5,567 | 4,004 | 1,531 | 93 | 92 | 77 | 76 | 91 | 93 |
| | 8.0 | 11.0 | 3.0 | Clay | 5,201 | 3,951 | 1,459 | 95 | 94 | 81 | 75 | 94 | 96 |
| | 11.0 | 14.0 | 3.0 | Clay | 4,155 | 3,142 | 1,119 | 89 | 89 | 76 | 71 | 88 | 90 |
| | 14.0 | 17.0 | 3.0 | Clay | 3,046 | 2,152 | 760 | 86 | 89 | 70 | 70 | 88 | 90 |
| | 17.0 | 20.9 | 3.9 | Clay | 1,469 | 727 | 219 | 64 | 69 | 41 | 29 | 66 | 60 |
| | 20.9 | 24.0 | 3.1 | Transition 2 | 3,056 | 873 | 249 | 74 | 77 | 31 | 30 | 73 | 75 |
| | 24.0 | 27.0 | 3.0 | Transition 2 | 1,847 | 997 | 278 | 86 | 87 | 72 | 49 | 85 | 88 |
| | 27.0 | 31.0 | 4.0 | Transition 3 | 943 | 487 | 122 | 69 | 73 | 41 | 26 | 68 | 64 |
| 31.0 | 34.6 | 3.6 | Transition 3 | 1,095 | 449 | 549 | 42 | 45 | 20 | 16 | 42 | 42 | |
| DM1DD003 | 2.0 | 5.0 | 3.0 | Clay | 5,616 | 3,778 | 1,457 | 85 | 83 | 51 | 48 | 83 | 84 |
| | 5.0 | 7.0 | 2.0 | Clay | 8,195 | 6,520 | 2,428 | 87 | 91 | 71 | 73 | 89 | 90 |
| | 7.0 | 9.9 | 2.9 | Transition 1 | 3,928 | 2,901 | 1,017 | 85 | 88 | 75 | 72 | 87 | 90 |
| DM1DD004 | 4.0 | 7.0 | 3.0 | Clay | 1,781 | 1,389 | 350 | 78 | 81 | 58 | 57 | 78 | 78 |
| | 7.0 | 9.5 | 2.5 | Clay | 1,445 | 1,157 | 293 | 75 | 78 | 54 | 53 | 75 | 74 |
| | 9.5 | 14.46 | 5.0 | Clay | 1,829 | 1,446 | 370 | 81 | 84 | 70 | 68 | 82 | 83 |
| | 14.46 | 17.5 | 3.0 | Transition 2 | 1,781 | 1,389 | 350 | 78 | 81 | 58 | 57 | 78 | 78 |

Table 6: DONA MARIA 2 Metallurgical Drill Holes – REE & REO recoveries by depth (leach extractions above 45% are highlighted in bold type)

| Drill Hole | Interval | | | Lithology | Assayed Head (ppm) | | | Pr | Nd | Tb | Dy | MREE Recovery | TREE-Ce Recovery |
|------------|----------|------|-----|--------------|--------------------|---------|-------|----|----|----|----|---------------|------------------|
| | From | To | m | | TREO | TREE-Ce | MREE | | | | | | |
| DM2DD001 | 2.0 | 5.0 | 3.0 | Clay | 3,138 | 2,392 | 791 | 81 | 87 | 73 | 77 | 85 | 82 |
| | 5.0 | 7.58 | 2.6 | Clay | 2,764 | 1,846 | 610 | 75 | 76 | 67 | 69 | 75 | 73 |
| | 7.6 | 10.0 | 2.4 | Clay | 2,016 | 1,276 | 431 | 59 | 60 | 50 | 49 | 59 | 58 |
| | 10.0 | 14.0 | 4.0 | Clay | 1,277 | 684 | 238 | 28 | 29 | 22 | 15 | 28 | 27 |
| | 14.0 | 15.6 | 1.6 | Transition 3 | 1,060 | 604 | 217 | 21 | 23 | 12 | 8 | 22 | 23 |
| DM2DD002 | 2.0 | 5.0 | 3.0 | Clay | 2,245 | 1,751 | 460 | 88 | 87 | 64 | 61 | 86 | 80 |
| | 5.0 | 8.0 | 3.0 | Transition 3 | 866 | 435 | 97 | 39 | 41 | - | 8 | 38 | 30 |
| | 8.0 | 11.0 | 3.0 | Transition 3 | 809 | 404 | 90 | 22 | 22 | - | 4 | 20 | 16 |
| | 11.0 | 13.6 | 2.6 | Transition 3 | 896 | 436 | 111 | 37 | 40 | 27 | 12 | 38 | 34 |
| DM2DD003 | 2.0 | 5.3 | 3.3 | Clay | 2,783 | 2,007 | 706 | 74 | 74 | 54 | 58 | 73 | 71 |
| | 5.3 | 8.5 | 3.3 | Clay | 1,794 | 1,167 | 429 | 56 | 57 | 35 | 38 | 56 | 57 |
| | 8.5 | 12.2 | 3.6 | Clay | 1,617 | 1,067 | 375 | 63 | 64 | 41 | 45 | 63 | 62 |
| | 12.2 | 15.3 | 3.1 | Transition 3 | 1,820 | 1,114 | 405 | 37 | 38 | 25 | 24 | 37 | 39 |
| DM2DD004 | 2.0 | 5.0 | 3.0 | Clay | 1,113 | 556 | 228 | 53 | 55 | 18 | 20 | 53 | 49 |
| | 5.0 | 8.0 | 3.0 | Clay | 3,987 | 2,875 | 1,168 | 88 | 93 | 63 | 67 | 91 | 87 |
| | 11.0 | 15.6 | 4.6 | Transition | 4,497 | 3,503 | 1,195 | 8 | 8 | 5 | 8 | 8 | 9 |

Note: “-“denotes assays pending

Table 7: Dona Maria 1 & 2 Metallurgical Drill Holes – AVERAGE leach extractions by lithology classification, recovery and Head grade

| Criteria | #of samples | Average Head (ppm) | | | % Extractions | | | | | | |
|---------------------------------|-------------|--------------------|-------|---------|---------------|----|----|----|---------|------|---------|
| | | TREO | MREE | TREE-Ce | Pr | Nd | Tb | Dy | Magnets | TREE | TREE-Ce |
| Avg ALL CLAY and ALL Transition | 38 | 2,510 | 602 | 1,733 | 66 | 68 | 53 | 47 | 66 | 52 | 65 |
| Avg >45% MREE Recovery | 29 | 2,937 | 727 | 2,083 | 77 | 79 | 60 | 57 | 77 | 62 | 77 |
| Avg ALL Clay | 22 | 3,007 | 762 | 2,158 | 75 | 77 | 57 | 55 | 75 | 61 | 74 |
| Avg ALL Transition | 16 | 1,826 | 381 | 1,149 | 53 | 56 | 46 | 36 | 54 | 41 | 53 |
| Avg Transition 1 | 2 | 2,878 | 694 | 2,173 | 83 | 86 | 72 | 70 | 85 | 75 | 86 |
| Avg Transition 2 | 5 | 2,722 | 611 | 1,757 | 75 | 79 | 64 | 59 | 77 | 56 | 78 |
| Avg Transition 3 | 9 | 1,095 | 184 | 583 | 35 | 37 | 26 | 16 | 35 | 25 | 32 |
| Avg Fresh Rock | 0 | - | - | - | - | - | - | - | - | - | - |
| Avg Head >4000ppm TREO | 6 | 5,506 | 1,566 | 4,155 | 86 | 87 | 72 | 70 | 87 | 74 | 88 |
| Avg Head > 5000 ppm TREO | 4 | 6,145 | 1,719 | 4,563 | 90 | 90 | 70 | 68 | 89 | 76 | 91 |
| ANSTO MAX | - | 5,201 | - | - | 95 | 94 | 81 | 75 | 94 | 82 | 96 |
| JOGMEC CDM | - | 5,000 | - | - | 75 | 78 | 66 | 64 | - | 68 | - |

Note: “-“ denotes no data

Table 8: FIGUEIRA Metallurgical Drill Holes – REE recoveries by depth (leach extractions above 45% are highlighted in bold type)

| Drill Hole | Interval | | | Lithology | Assayed Head (ppm) | | | Pr | Nd | Tb | Dy | MREE Recovery | TREE-Ce Recovery |
|------------|----------|------|------------|--------------|--------------------|---------|-------|----|----|----|----|---------------|------------------|
| | From | To | m | | TREO | TREE-Ce | MREE | | | | | | |
| FIGDD003 | 2.3 | 6.0 | 3.7 | Clay | 4,819 | 2,688 | 883 | 50 | 49 | 35 | 27 | 48 | 47 |
| | 6.0 | 9.0 | 3.0 | Clay | 5,310 | 3,529 | 1,153 | 64 | 69 | 47 | 42 | 67 | 65 |
| | 9.0 | 12.0 | 3.0 | Clay | 7,370 | 5,957 | 1,843 | 81 | 88 | 65 | 66 | 86 | 84 |
| | 12.0 | 15.0 | 3.0 | Clay | 4,458 | 3,510 | 1,067 | 77 | 82 | 63 | 63 | 80 | 80 |
| | 15.0 | 19.0 | 4.0 | Clay | 2,244 | 1,437 | 436 | 48 | 52 | 44 | 40 | 50 | 55 |
| | 19.0 | 22.6 | 3.6 | Transition 3 | 2,848 | 1,606 | 460 | 8 | 10 | 18 | 18 | 10 | 11 |
| | 22.6 | 26.0 | 3.4 | Fresh Rock | 1,877 | 886 | 263 | 11 | 12 | 11 | 10 | 12 | 12 |
| 26.0 | 29.0 | 3.0 | Fresh Rock | 3,487 | 1,573 | 485 | 3 | 4 | 7 | 4 | 4 | 4 | |

Table 9: CUPIM VERMELHO NORTE Metallurgical Drill Holes – REE & REO recoveries by depth (leach extractions above 45% are highlighted in bold type)

| Drill Hole | Interval | | | Lithology | Assayed Head (ppm) | | | Pr | Nd | Tb | Dy | MREE Recovery | TREE-Ce Recovery |
|------------|----------|------|--------------|--------------|--------------------|---------|-------|----|----|----|-----|---------------|------------------|
| | From | To | m | | TREO | TREE-Ce | MREE | | | | | | |
| CVNDD001 | 3.7 | 6.0 | 2.3 | Clay | 2,461 | 1,780 | 641 | 71 | 72 | 49 | 47 | 71 | 65 |
| | 6.0 | 8.5 | 2.5 | Clay | 3,700 | 2,957 | 1,067 | 81 | 83 | 64 | 70 | 82 | 78 |
| | 8.5 | 11.0 | 2.5 | Clay | 4,664 | 3,779 | 1,415 | 78 | 83 | 72 | 78 | 82 | 78 |
| | 11.0 | 14.1 | 3.1 | Clay | 5,874 | 4,851 | 1,776 | 86 | 90 | 79 | 84 | 88 | 85 |
| | 14.1 | 19.5 | 5.4 | Transition 1 | 2,689 | 1,880 | 712 | 51 | 52 | 41 | 43 | 52 | 53 |
| CVNDD003 | 1.7 | 6.1 | 4.4 | Clay | 1,055 | 233 | 53 | 21 | 21 | - | 2 | 17 | 10 |
| | 6.1 | 9.0 | 2.9 | Clay | 1,253 | 758 | 234 | 17 | 17 | 7 | 4 | 16 | 13 |
| | 9.0 | 12.0 | 3.0 | Clay | 1,191 | 781 | 276 | 31 | 31 | 9 | 10 | 29 | 27 |
| | 12.0 | 15.0 | 3.0 | Clay | 554 | 437 | 171 | 91 | 96 | 59 | 60 | 94 | 90 |
| | 15.0 | 17.8 | 2.8 | Clay | 1,783 | 1,278 | 495 | 43 | 46 | 24 | 27 | 45 | 43 |
| | 17.8 | 20.7 | 2.8 | Clay | 1,085 | 628 | 255 | 36 | 38 | 23 | 22 | 37 | 37 |
| | 20.7 | 24.1 | 3.5 | Transition 1 | 2,834 | 2,239 | 758 | 14 | 15 | 9 | 11 | 14 | 13 |
| | 24.1 | 28.0 | 3.9 | Transition 2 | 12,731 | 11,270 | 3,983 | 1 | 1 | 1 | 1 | 1 | 1 |
| 28.0 | 32.4 | 4.4 | Transition 3 | 1,329 | 716 | 248 | 0.4 | 1 | - | - | 0.5 | 0.4 | |

Table 10: ALL Metallurgical Drill Holes across ALL tenements – AVERAGE leach extractions by lithology classification, recovery and Head grade (refer ASX announcement 27 September 2023 for further information)

| Criteria | #of samples | Average Head (ppm) | | | % Extractions | | | | | | |
|---------------------------------|-------------|--------------------|-------|---------|---------------|----|----|----|---------|------|---------|
| | | TREO | MREE | TREE-Ce | Pr | Nd | Tb | Dy | Magnets | TREE | TREE-Ce |
| Avg ALL CLAY and ALL Transition | 157 | 3,176 | 713 | 2,160 | 57 | 59 | 42 | 38 | 57 | 43 | 56 |
| Avg >45% MREE Recovery | 103 | 3,948 | 937 | 2,769 | 68 | 71 | 51 | 48 | 69 | 53 | 68 |
| Avg ALL Clay | 101 | 3,642 | 827 | 2,475 | 62 | 64 | 45 | 41 | 63 | 46 | 61 |
| Avg ALL Transition | 47 | 2,612 | 584 | 1,816 | 45 | 48 | 36 | 31 | 46 | 36 | 46 |
| Avg Transition 1 | 17 | 3,585 | 895 | 2,761 | 56 | 58 | 43 | 40 | 57 | 46 | 57 |
| Avg Transition 2 | 14 | 2,382 | 530 | 1,649 | 48 | 50 | 41 | 36 | 48 | 37 | 50 |
| Avg Transition 3 | 16 | 1,778 | 300 | 956 | 32 | 34 | 23 | 17 | 33 | 23 | 32 |
| Avg Fresh Rock | 17 | 2,113 | 307 | 992 | 6 | 7 | 8 | 5 | 7 | 5 | 7 |
| Avg Head >4000ppm TREO | 48 | 5,597 | 1,429 | 4,117 | 71 | 74 | 57 | 56 | 73 | 60 | 72 |
| Avg Head > 5000 ppm TREO | 29 | 6,374 | 1,634 | 4,744 | 71 | 75 | 57 | 56 | 73 | 61 | 72 |
| ANSTO MAX | - | 5,201 | 1,459 | 3,951 | 95 | 94 | 81 | 75 | 94 | 82 | 96 |
| JOGMEC CDM | - | 3,948 | - | - | 75 | 78 | 66 | 64 | - | 68 | - |

Note SBDD005 & CVNDD003 have been omitted from the statistical analysis as they are being re-assayed.

Note: “-“denotes no data

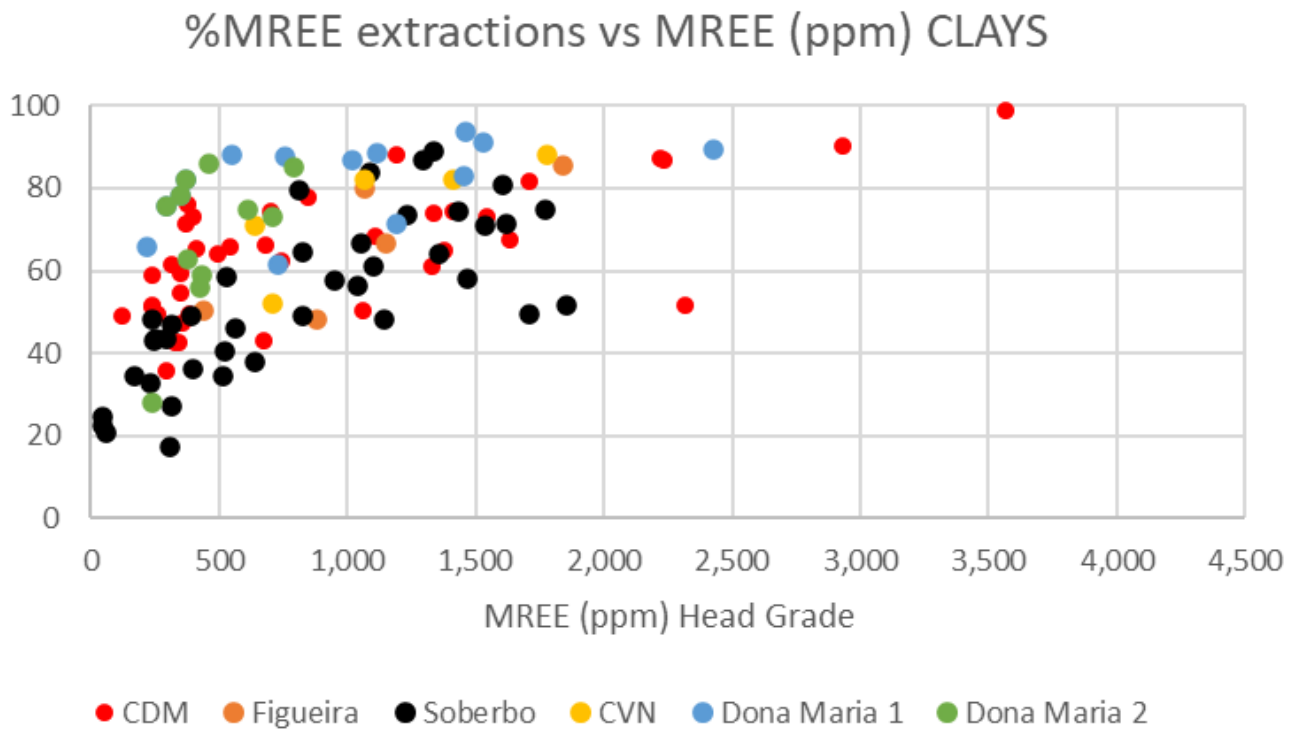


Figure 4: Graph of MREE grades vs desorption extractions in ALL CLAYS across ALL Tenements with standard pH4 AMSUL wash

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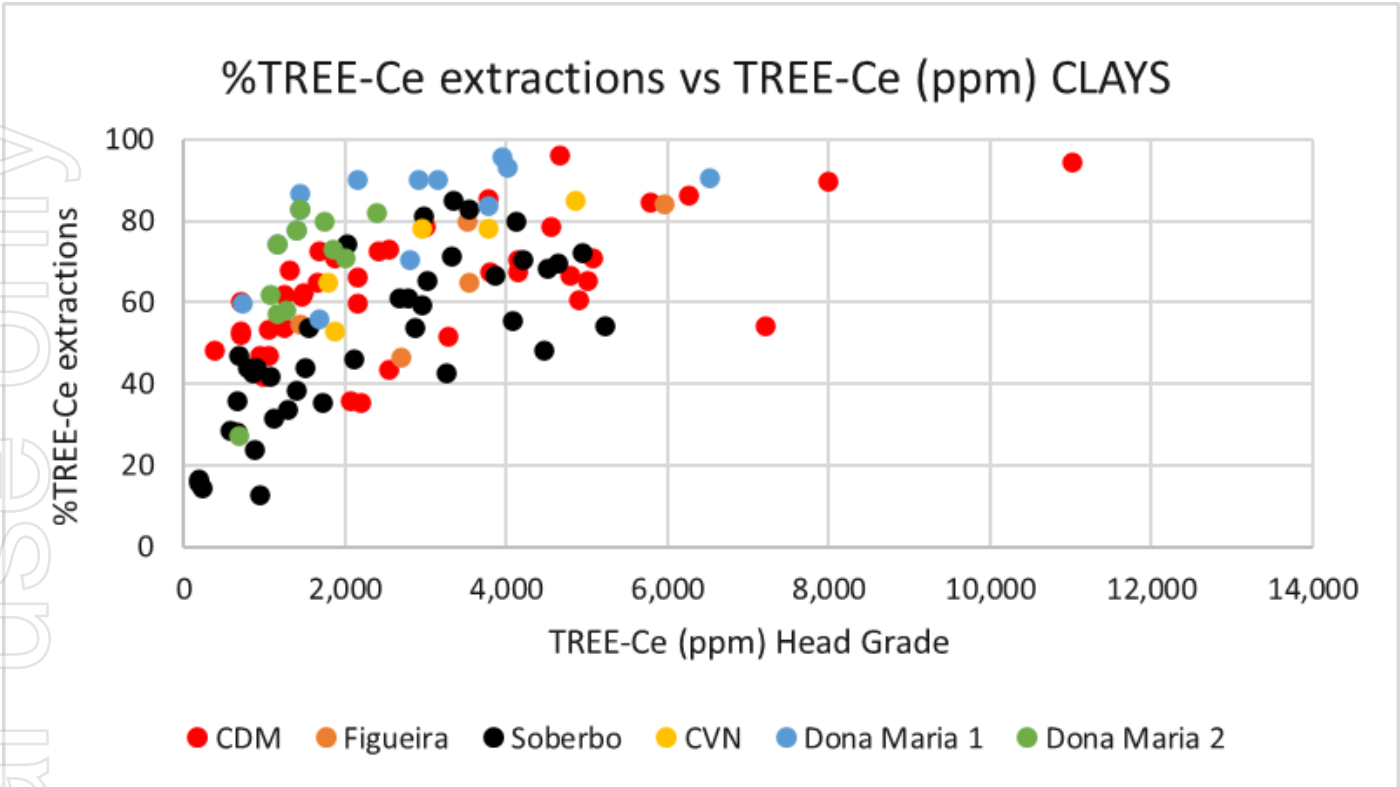


Figure 5: Graph of TREE-Ce grades vs desorption extractions in ALL CLAYS across ALL Tenements with standard pH4 AMSUL wash

Figures 4 & 5 above show high MREE and TREE-Ce extractions across all six deposit areas.

The graphs also show high extractions across the full grade spectrum, but interestingly the extractions tend to increase with grade. One 3m interval in CDMDD006 with 1.05% TREO head grade, achieved an astonishing 90% magnet element extractions.

This initial testwork has contributed significantly to MEI's knowledge base on metallurgical performance laterally, at depth and across different lithologies. The new information will be built into a geometallurgical model for the Caldeira Project. Further leaching parameters will be investigated in Q4 2023 to further optimise recoveries.

Next Steps

Leaching Program

Diagnostic leach tests will continue throughout December and January on the remaining metallurgical holes that sit outside the 10-year mine plan. Importantly, the CDM and Soberbo deposits that underpin the starter pits in the scoping study have been completed. A master composite of the CDM deposit is currently being constructed from all of the metallurgical drill holes that return satisfactory metallurgical performance. The leaching program will aim to optimise the extractions by evaluating different lixivants, lixiviant concentration, % solids and pH.

Impurity Removal

Following the leaching program, impurity removal optimisations will be performed to improve the rejection of deleterious elements such as aluminium, iron, silica, calcium, thorium and uranium, whilst maximising the recovery of the rare earths. The testwork will aim to evaluate impurity removal conditions including pH, alkali type, temperature, residence time, % solids and solid liquid separation performance.

Rare Earth Precipitation

Following the impurity removal program, rare earth precipitation tests will be performed to generate a saleable rare earth product. The testwork will evaluate the type of precipitation agent, pH, temperature, residence time, % solids and solid liquid separation performance.

Schedule

The metallurgical scope is comprehensive and will run until the end of April to enable adequate characterisation of each of the prospects. Some delays have been experienced with assay turnaround times which is currently a problem all over Australia. As milestone results come to hand, they will be reported to the market. The precipitation of MREC from the CDM master composite is targeted in late January – early February.

About ANSTO

ANSTO has extensive experience in rare earth process development with several rare earth experts in its team having a combined ~30 years' experience dating back to early work on the Mt Weld deposit (monazite mineralogy) in Western Australia in the early 1990s. Over the past 10-15 years, ANSTO has worked on numerous rare earth projects covering process development, piloting (Peak Resources, Arafura Rare Earths, ASM, Northern Minerals, Hastings Technology Metals, Mkango Resources, Iluka Resources) and providing expert advice.

Over the past five years, ANSTO's expertise has shifted to an increasing number of ionic adsorption and clay-hosted REE projects (>15 currently in progress), including the more advanced Aclara (Chile), Ionic Rare Earths (Uganda) and Australian Rare Earths (South Australia) projects. Work on these projects has included leaching/desorption, solid/liquid separation, impurity removal and rare earth precipitation, mineralogy, radionuclide decontamination and removal, process modelling and mini-plant circuit operations.

Background Information on Ionic Clay REE Deposits

Geologically, the Caldeira REE Project is classified as an Ionic Adsorption Clay REE Deposit, which is characterised by the following key criteria:

- Formed in the saprolite (clay) zone of the weathering profile.
- The majority of the REE's are **adsorbed** onto clay minerals and accumulate in the clay zone of the regolith profile.
- Adsorbed REEs are ionically attached to the clay minerals and can be liberated by washing in a weak solution of ammonium sulphate (or other metal salt) at near neutral pH.
- Ionic Adsorption Clay REE deposits are typically found near surface, often at depths of less than 10m.
- The U and Th levels in Ionic Clay REE deposits are typically low, as these elements are less soluble in ground waters and are not preferentially adsorbed by clays during the weathering and leaching processes.

Mineral Resource Statement – Caldeira Project (ASX:MEI 1/5/2023)

Table 11: Caldeira REE Project 2023 Mineral Resource Estimate– by licence at 1,000ppm TREO cut-off

| Licence | JORC Category | Tonnes Mt | TREO ppm | Pr ₆ O ₁₁ ppm | Nd ₂ O ₃ ppm | Tb ₄ O ₇ ppm | Dy ₂ O ₃ ppm | MREO ppm | MREO/TREO % |
|-------------------------|-----------------|------------|--------------|-------------------------------------|------------------------------------|------------------------------------|------------------------------------|------------|--------------|
| Capão do Mel | Inferred | 68 | 2,692 | 148 | 399 | 4 | 22 | 572 | 21.3% |
| Cupim Vermelho Notre | Inferred | 104 | 2,485 | 152 | 472 | 5 | 26 | 655 | 26.4% |
| Dona Maria 1 & 2 | Inferred | 94 | 2,320 | 135 | 404 | 5 | 25 | 569 | 24.5% |
| Figueira | Inferred | 50 | 2,811 | 135 | 377 | 5 | 26 | 542 | 19.3% |
| Soberbo | Inferred | 92 | 2,948 | 190 | 537 | 6 | 27 | 759 | 25.8% |
| Total | Inferred | 409 | 2,626 | 154 | 447 | 5 | 25 | 631 | 24.0% |

TREO = La₂O₃ + CeO₂ + Pr₆O₁₁ + Nd₂O₃ + Sm₂O₃ + Eu₂O₃ + Gd₂O₃ + Tb₄O₇ + Dy₂O₃ + Ho₂O₃ + Er₂O₃ + Tm₂O₃ + Yb₂O₃ + Lu₂O₃ + Y₂O₃
MREO = Pr₆O₁₁ + Nd₂O₃ + Tb₄O₇ + Dy₂O₃

This release has been approved by the Board of Meteoric Resources NL.

For further information, please contact:

Dr Andrew Tunks

Executive Chairman

Meteoric Resources NL

E ajtunks@meteoric.com.au

T +61 400 205 555

Ben Creagh

Investor and Media Relations

NWR Communications

E benc@nwrcommunications.com.au

T +61 417 464 233

The information in this announcement that relates to exploration results is based on information reviewed, collated and fairly represented by Dr Carvalho a Competent Person and a Member of the Australasian Institute of Mining and Metallurgy and is a non executive director Meteoric Resources NL. Dr. Carvalho has sufficient experience relevant to the style of mineralisation and type of deposit under consideration, and to the activity which has been undertaken, to qualify as a Competent Person as defined in the 2012 Edition of the Joint Ore Reserves Committee (JORC) Australasian Code for Reporting of Exploration Results, Mineral Resources and Ore Reserves. Dr. Carvalho consents to the inclusion in this report of the matters based on this information in the form and context in which it appears.

The information in this announcement that relates to the metallurgical results were compiled by Tony Hadley who is the Metallurgy Manager of Meteoric Resources and is a Member of the Australian Institute of Mining and Metallurgy (AusIMM). Mr. Hadley has sufficient experience that is relevant to the metallurgical testwork which was undertaken to qualify as a Competent Person as defined in the 2012 JORC Code. Mr. Hadley consents to the inclusion in this announcement of the matters based on the information in the form and context in which it appears.

The information in this release that relates to Mineral Resource Estimates was prepared by BNA Mining Solutions and released on the ASX platform on 1 May 2023. The Company confirms that it is not aware of any new information or data that materially affects the Mineral Resources in this publication. The Company confirms that all material assumptions and technical parameters underpinning the estimates continue to apply and have not materially changed. The Company confirms that the form and context in which the BNA Mining Solutions findings are presented have not been materially modified.

APPENDIX 1

Collar Table of holes reported in this release.

| Target | Hole_ID | East | North | RL | Hole Depth |
|----------------------|----------|--------|---------|------|------------|
| Capao do Mel | CDMDD001 | 346439 | 7566998 | 1342 | 50.00 |
| Capao do Mel | CDMDD002 | 345621 | 7567611 | 1339 | 50.00 |
| Capao do Mel | CDMDD004 | 347477 | 7567043 | 1326 | 50.00 |
| Capao do Mel | CDMDD005 | 346611 | 7567015 | 1316 | 9.78 |
| Capao do Mel | CDMDD006 | 346155 | 7567180 | 1250 | 46.35 |
| Capao do Mel | CDMDD007 | 346893 | 7567307 | 1288 | 39.44 |
| Capao do Mel | CDMDD008 | 347079 | 7567709 | 1272 | 40.58 |
| Capao do Mel | CDMDD009 | 346570 | 7566704 | 1277 | 29.61 |
| Capao do Mel | CDMDD010 | 346631 | 7567194 | 1308 | 57.75 |
| Capao do Mel | CDMDD011 | 346621 | 7566802 | 1296 | 25.95 |
| Cupim Vermelho Notre | CVNDD001 | 342883 | 7576678 | 1445 | 23.25 |
| Cupim Vermelho Notre | CVNDD002 | 341677 | 7579289 | 1382 | 28.05 |
| Cupim Vermelho Notre | CVNDD003 | 342535 | 7578361 | 1421 | 42.95 |
| Cupim Vermelho Notre | CVNDD004 | 343854 | 7578258 | 1434 | 31.10 |
| Cupim Vermelho Notre | CVNDD005 | 345060 | 7578282 | 1272 | 22.75 |
| Cupim Vermelho Sul | CVSDD001 | 339750 | 7575833 | 1463 | 149.49 |
| Dona Maria 1 | DM1DD001 | 337939 | 7581336 | 1353 | 33.25 |
| Dona Maria 1 | DM1DD002 | 338450 | 7579638 | 1367 | 37.25 |
| Dona Maria 1 | DM1DD003 | 338886 | 7579953 | 1382 | 15.05 |
| Dona Maria 1 | DM1DD004 | 339141 | 7579358 | 1374 | 21.20 |
| Dona Maria 2 | DM2DD001 | 339847 | 7579729 | 1391 | 22.05 |
| Dona Maria 2 | DM2DD002 | 339441 | 7579946 | 1346 | 22.35 |
| Dona Maria 2 | DM2DD003 | 339930 | 7580144 | 1396 | 23.20 |
| Dona Maria 2 | DM2DD004 | 339639 | 7580340 | 1407 | 18.62 |
| Figueira | FIGDD003 | 340847 | 7572850 | 1282 | 50.00 |
| Figueira | FIGDD004 | 340882 | 7571408 | 1343 | 111.87 |
| Figueira | FIGDD005 | 340893 | 7572111 | 1330 | 20.74 |
| Figueira | FIGDD006 | 341233 | 7573358 | 1250 | 58.99 |
| Figueira | FIGDD007 | 340994 | 7573308 | 1406 | 71.04 |
| Soberbo | SBBDD001 | 348798 | 7569484 | 1307 | 50.00 |
| Soberbo | SBBDD002 | 349087 | 7568044 | 1298 | 50.00 |
| Soberbo | SBBDD004 | 350298 | 7569905 | 1218 | 31.10 |
| Soberbo | SBBDD005 | 348119 | 7568003 | 1313 | 23.40 |
| Soberbo | SBBDD006 | 349845 | 7570492 | 1296 | 10.25 |
| Soberbo | SBBDD007 | 347973 | 7569979 | 1209 | 11.14 |
| Soberbo | SBBDD008 | 349905 | 7570592 | 1283 | 29.25 |
| Soberbo | SBBDD009 | 350003 | 7570490 | 1261 | 29.57 |
| Soberbo | SBBDD010 | 348197 | 7569898 | 1238 | 38.69 |
| Soberbo | SBBDD011 | 348806 | 7569291 | 1306 | 28.85 |

APPENDIX 2 - JORC Code, 2012 Edition – Table 1

Section 1 Sampling Techniques and Data

| Criteria | Commentary |
|---|---|
| Sampling techniques | <ul style="list-style-type: none"> The drilling utilises a conventional wireline diamond drill rig (Mach 1200) with HQ diameter. The core is collected in core trays with depth markers at the end of each drill run (blocks). In the saprolite zone the core is halved with a metal spatula and bagged in plastic bags, the fresh rock was halved by a powered saw and bagged. |
| Drilling techniques | <ul style="list-style-type: none"> The drilling uses a diamond drill rig (Mach 1200) with HQ diameter using the wireline technique. Each drill site was cleaned and levelled with a backhoe loader. All holes are drilled vertical. Drilling is stopped once intersection with unweathered basement intrusives is confirmed = +5m of fresh rock. |
| Drill sample recovery | <ul style="list-style-type: none"> Core recoveries were measured after each drill run, comparing length of core recovered vs. drill depth. Overall Core recoveries are 92.5%, achieving 95% in the saprolite target horizon, 89% in the transitional rock (fresh fragments in clay), and 92.5% in fresh rock. |
| Logging | <ul style="list-style-type: none"> The geology was described in a core facility by geologist - logging focused on the soil (humic) horizon, saprolite and fresh rock boundaries. Depth of geological boundaries are honoured and described with downhole depth – not meter by meter. Other important data parameters collected include: grainsize, texture and colour, which can help to identify the parent rock before weathering. All drilled holes have a digital photographic record. The log is stored in Microsoft Excel template with inbuilt validation tables and pick list to avoid data entry errors. All geological data are imported into a Microsoft Access database and validated. |
| Sub-sampling techniques and sample preparation | <ul style="list-style-type: none"> Metallurgical samples consist of $\frac{3}{4}$ of the drill core, except for the CDMDD001 where the entire core was sampled due to the drill core being NQ. The samples were generally composited into 3m composites, however on occasions the composites were reduced/extended based on geologic boundaries (clay zone v transition v fresh rock). Composites ranged from 2.0m – 4.6m. The top 2m of material was excluded from shipments to avoid problems importing organic material within the soils into Australia. Fresh rock was also excluded from the testwork as it is clearly not related to ionic clay mineralisation. The metallurgical samples were dried at 60 degrees Celsius and stage crushed to –1mm followed by pulverising in a ring mill. An 80 gram sub sample was used in each diagnostic leach at 4% solids, using 0.4M ammonium sulphate solution, ambient temperature and 30 minutes leaching time at pH 4.0. The % extractions are calculated using the head and the liquor assays. |
| Quality of assay data and laboratory tests | <ul style="list-style-type: none"> All samples were assayed by three ALS methods: <ul style="list-style-type: none"> ME-MS81 – Lithium borate fusion prior acid dissolution and ICP-MS analysis for Ba, Ce, Cr, Cs, Dy, Er, Eu, Ga, Gd, Hf, Ho, La, Lu, Nb, Nd, Pr, Rb, Sc, Sm, Sn, Sr, Ta, Tb, Th, Ti, Tm, U, V, W, Y, Yb, Zr Me-4ACD81 - Lithium borate fusion prior acid dissolution and ICP-MS analysis for Ag, Au, Cd, Co, Cu, Li, Mo, Ni, Pb, Sc, Tl, Zn. ME-ICP06 – X-Ray Fluorescence (XRF) and acid ICP-AES analysis for Al₂O₃, BaO, CaO, Cr₂O₃, Fe₂O₃, K₂O, MgO, MnO, Na₂O, P₂O₅, SiO₂, SrO, TiO₂, LOI. Laboratory inserted its own QA/QC controls, with standards, blanks and duplicates to assure the quality and standards of the lab. |

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| | <ul style="list-style-type: none"> The QA/QC data includes a duplicate sample every 20 samples, and a blank and standard sample in each 30 samples. Head, liquor and residue metallurgical samples were sent to ALS in Brisbane where the samples underwent a lithium borate fusion prior to acid dissolution and La, Ce, Pr, Nd, Sm, Eu, Gd, Tb, Dy, Ho, Er, Tm, Yb, Lu, Y, Th & U were read by ICP-MS. ANSTO read all of the gangue elements using ICP-OES, namely Al, Fe, K, Mg, Mn, Ca, Si and Zn. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---------|-------------------|-------|----|--------|------|----|--------|-------|----|--------|-------|----|--------|-------|----|--------|-------|----|--------|-------|----|--------|-------|----|--------|-------|----|--------|-------|----|--------|--------|----|--------|-------|----|--------|-------|----|--------|-------|----|--------|-------|---|--------|------|----|--------|-------|
| <p>Verification of sampling and assaying</p> | <ul style="list-style-type: none"> All data is in digital format and stored in a cloud server, also the company maintains a back up in a desktop computer to assure that the data could be restored if any problem occurs with the cloud or with the desktop server. Raw assays are received as Elemental data (ppm) from ALS laboratories. The Elemental data is converted to Element Oxide data using the following conversion factors: <table border="1"> <thead> <tr> <th>Element</th> <th>Conversion Factor</th> <th>Oxide</th> </tr> </thead> <tbody> <tr><td>Ce</td><td>1.2284</td><td>CeO2</td></tr> <tr><td>Dy</td><td>1.1477</td><td>Dy2O3</td></tr> <tr><td>Er</td><td>1.1435</td><td>Er2O3</td></tr> <tr><td>Eu</td><td>1.1579</td><td>Eu2O3</td></tr> <tr><td>Gd</td><td>1.1526</td><td>Gd2O3</td></tr> <tr><td>Ho</td><td>1.1455</td><td>Ho2O3</td></tr> <tr><td>La</td><td>1.1728</td><td>La2O3</td></tr> <tr><td>Lu</td><td>1.1371</td><td>Lu2O3</td></tr> <tr><td>Nd</td><td>1.1664</td><td>Nd2O3</td></tr> <tr><td>Pr</td><td>1.2082</td><td>Pr6O11</td></tr> <tr><td>Sc</td><td>1.5338</td><td>Sc2O3</td></tr> <tr><td>Sm</td><td>1.1596</td><td>Sm2O3</td></tr> <tr><td>Tb</td><td>1.1762</td><td>Tb4O7</td></tr> <tr><td>Tm</td><td>1.1421</td><td>Tm2O3</td></tr> <tr><td>Y</td><td>1.2699</td><td>Y2O3</td></tr> <tr><td>Yb</td><td>1.1387</td><td>Yb2O3</td></tr> </tbody> </table> | Element | Conversion Factor | Oxide | Ce | 1.2284 | CeO2 | Dy | 1.1477 | Dy2O3 | Er | 1.1435 | Er2O3 | Eu | 1.1579 | Eu2O3 | Gd | 1.1526 | Gd2O3 | Ho | 1.1455 | Ho2O3 | La | 1.1728 | La2O3 | Lu | 1.1371 | Lu2O3 | Nd | 1.1664 | Nd2O3 | Pr | 1.2082 | Pr6O11 | Sc | 1.5338 | Sc2O3 | Sm | 1.1596 | Sm2O3 | Tb | 1.1762 | Tb4O7 | Tm | 1.1421 | Tm2O3 | Y | 1.2699 | Y2O3 | Yb | 1.1387 | Yb2O3 |
| Element | Conversion Factor | Oxide | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Ce | 1.2284 | CeO2 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Dy | 1.1477 | Dy2O3 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Er | 1.1435 | Er2O3 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Eu | 1.1579 | Eu2O3 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Gd | 1.1526 | Gd2O3 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Ho | 1.1455 | Ho2O3 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| La | 1.1728 | La2O3 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Lu | 1.1371 | Lu2O3 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Nd | 1.1664 | Nd2O3 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Pr | 1.2082 | Pr6O11 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Sc | 1.5338 | Sc2O3 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Sm | 1.1596 | Sm2O3 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Tb | 1.1762 | Tb4O7 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Tm | 1.1421 | Tm2O3 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Y | 1.2699 | Y2O3 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Yb | 1.1387 | Yb2O3 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <p>Location of data points</p> | <ul style="list-style-type: none"> All collars were surveyed in SIRGAS 2000, 23S spindle UTM grid system. The SIRGAS 2000 is a South American Datum which is very similar with the WGS 84. At present the survey of collars was made with a handheld GPS. Prior to inclusion in any resource estimation work the holes will be surveyed by a RTK GPS. The Topographic data was made by by Nortear Topografia e Projectos Ltda., planialtimetric topographic surveyors. The GPS South Galaxy G1 RTK GNSS was used, capable of carrying out data surveys and kinematic locations in real time (RTK-Real Time Kinematic), consisting of two GNSS receivers, a BASE and a ROVER. The horizontal accuracy, in RTK, is 8mm + 1ppm, and vertical 15mm + 1ppm. The coordinates were provided in the following formats: Sirgas 2000 datum, and UTM WGS 84 datum - georeferenced to spindle 23S. For the generation of planialtimetric maps (DEM), drones were used with control points in the field (mainly in a region with more dense vegetation), in addition to the auger drillholes. an employed company with drone imaging and RTK GPS on auger drill holes. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <p>Data spacing and distribution</p> | <ul style="list-style-type: none"> Collar plan displayed in the body of the release. No new resources are reported. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <p>Orientation of data in relation to geological structure</p> | <ul style="list-style-type: none"> The mineralisation is flat lying and occurs within the saprolite/clay zone of a deeply developed regolith (reflecting topography and weathering). Vertical sampling from the diamond holes is appropriate. Diamond drill core is acknowledged to deliver uncontaminated samples, as such no sampling bias is believed to be introduced. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

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|--------------------------|--|
| Sample security | <ul style="list-style-type: none"> • Samples are removed from the field and transported back to a Core shed to be logged and sampled as reported before. • Compositing samples were given unique identifiers and placed in plastic bags, before being packed into plastic drums suitable for export via airfreight to ANSTO in Australia. • Export drums were shipped via FedEx Airfreight. Samples were collected from Meteoric core shed in Pocos de Caldas and tracked online to their destination in Sydney, Australia (ANSTO). |
| Audits or reviews | <ul style="list-style-type: none"> • MEI conducted a review of assay results as part of its Due Diligence prior to acquiring the project. Approximately 5% of all stored coarse rejects from auger drilling were resampled and submitted to two (2) labs: SGS Geosol and ALS Laboratories. Results verified the existing assay results, returning values +/-10% of the original grades, well within margins of error for the grade of mineralisation reported. (see ASX:MEI 13/03/23 for a more detailed discussion). • No independent audit of sampling techniques and data has been completed. |

Section 2 Reporting of Exploration Results

| Criteria | Commentary |
|--|--|
| Mineral tenement and land tenure status | <ul style="list-style-type: none"> • No change since previous report. • Given the rich history of mining and current mining activity in the Poços de Caldas there appears to be no impediments to obtaining a License to operate in the area. |
| Exploration done by other parties | <ul style="list-style-type: none"> • Licenses under the TOGNI Agreement: significant previous exploration exists in the form of surface geochem across 30 granted mining concessions, plus: geologic mapping, topographic surveys, and powered auger (1,396 holes for 12,963 samples). • MEI performed Due Diligence on historic exploration and are satisfied the data is accurate and correct (refer ASX Release 13 March 2023 for a discussion). • Licenses under VAGINHA and RAJ Agreements: no previous exploration exists for REEs. |
| Geology | <ul style="list-style-type: none"> • The Alkaline Complex of Poços de Caldas represents in Brazil one of the most important geological terrain which hosts deposits of ETR, bauxite, clay, uranium, zirconium, rare earths and leucite. The different types of mineralization are products of a history of post-magmatic alteration and weathering, in the last stages of its evolution (Schorscher & Shea, 1992; Ulbrich et al., 2005), The REE mineralisation discussed in this release is of the Ionic Clay type as evidenced by development within the saprolite/clay zone of the weathering profile of the Alkaline syenite basement as well as enriched HREE composition. |
| Drill hole Information | <ul style="list-style-type: none"> • Reported in body of report and Appendix 1. |

Data aggregation methods

- Mineralised Intercepts are reported with a minimum of 4m width, lower cut-off 1000ppm TREO, with a maximum of 2m internal dilution.
- High-Grade Intercepts reported as “including” are reported with a minimum of 2m width, lower cut-off 3000 ppm TREO, with a maximum of 1m internal dilution.
- Ultra High-Grade Intercepts reported as “with” are reported with a minimum of 2m width, lower cut-off 10,000 ppm TREO, with a maximum of 1m internal dilution.

Mineralisation widths and intercept lengths

- All holes are vertical and mineralisation is developed in a flat lying clay and transition zone within the regolith. As such, reported widths are considered to equal true widths.

Diagrams

- Reported in the body of the text.

Balanced reporting

- All metallurgical recoveries for all samples are published in table 1 in body of report
- Highlights of the Mineralised Intercepts are reported in the body of the text with available results from every drill hole drilled in the period reported in the Mineralised Intercept table for balanced reporting.

Other substantive exploration data

- A maiden Inferred resource was published to the ASX on May 1st 2023.

Further work

- Proposed work is discussed in the body of the text.

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