



## Drilling to commence at Machinga REE Project

Globe Metals & Mining (“**Globe**” or “**the Company**”; ASX: GBE) is pleased to announce the commencement of the 2011 drilling campaign at the Machinga REE Project in Malawi.

### Highlights

- **2011 drilling campaign to target and extend significant heavy rare earth oxides (HREO) and niobium (Nb) mineralisation identified in 2010**
- **Dysprosium (Dy) occurs in high grades – one of only five REEs deemed critical to the clean energy industry by the US Department of Energy in 2011**
- **More than 4,000m of RC drilling planned: 3000m targeting Machinga Main Zone and 1000m targeting Lingoni anomalies**
- **Machinga Main Zone previous results include:**
  - **MARC005:** 11m @ 1.0% TREO with 330ppm Dy<sub>2</sub>O<sub>3</sub> (from 12m)  
**Inc:** 4m @ 1.4% TREO with 492ppm Dy<sub>2</sub>O<sub>3</sub> (from 19m)
  - **MARC015:** 5m @ 1.5% TREO with 596ppm Dy<sub>2</sub>O<sub>3</sub> (from 26m)  
**Inc:** 1m @ 2.5% TREO with 971ppm Dy<sub>2</sub>O<sub>3</sub> (from 27m)
- **Detailed analysis of the Lingoni regional exploration revealed anomalies consistent with REE mineralisation**

### *3,000m RC Drilling – Machinga Main Zone*

The drilling program will focus on confirming and extending the multiple zones of near surface, high-grade heavy rare earth oxide (HREO) mineralisation in Zone 10 through Zone 70 (Figure 1).

Intercepts from the 2010 drilling program identified the presence of very high HREO/TREO ratios averaging 33%. These results included high grades of the much sought after element dysprosium, averaging 375ppm with a peak result of 971ppm reported as oxide Dy<sub>2</sub>O<sub>3</sub> (Table 1).



According to G P Hatch, author of *Critical Rare Earths*<sup>1</sup>, the projected global supply of newly produced Dy<sub>2</sub>O<sub>3</sub> is in deficit until 2015 at the earliest. A permanent transition from deficit to surplus is not likely to occur before 2017.

Planned drilling will also test Zone 40, where previous intersections showed slightly higher Nb + Ta grades and ratios to TREO, and somewhat lower TREO grades. High-grade niobium mineralisation intersected in trench MATR003 included 15m @ 0.45% with 0.75% Nb<sub>2</sub>O<sub>5</sub> including 5m @ 0.54% TREO and 1.34% Nb<sub>2</sub>O<sub>5</sub> (Table 2).

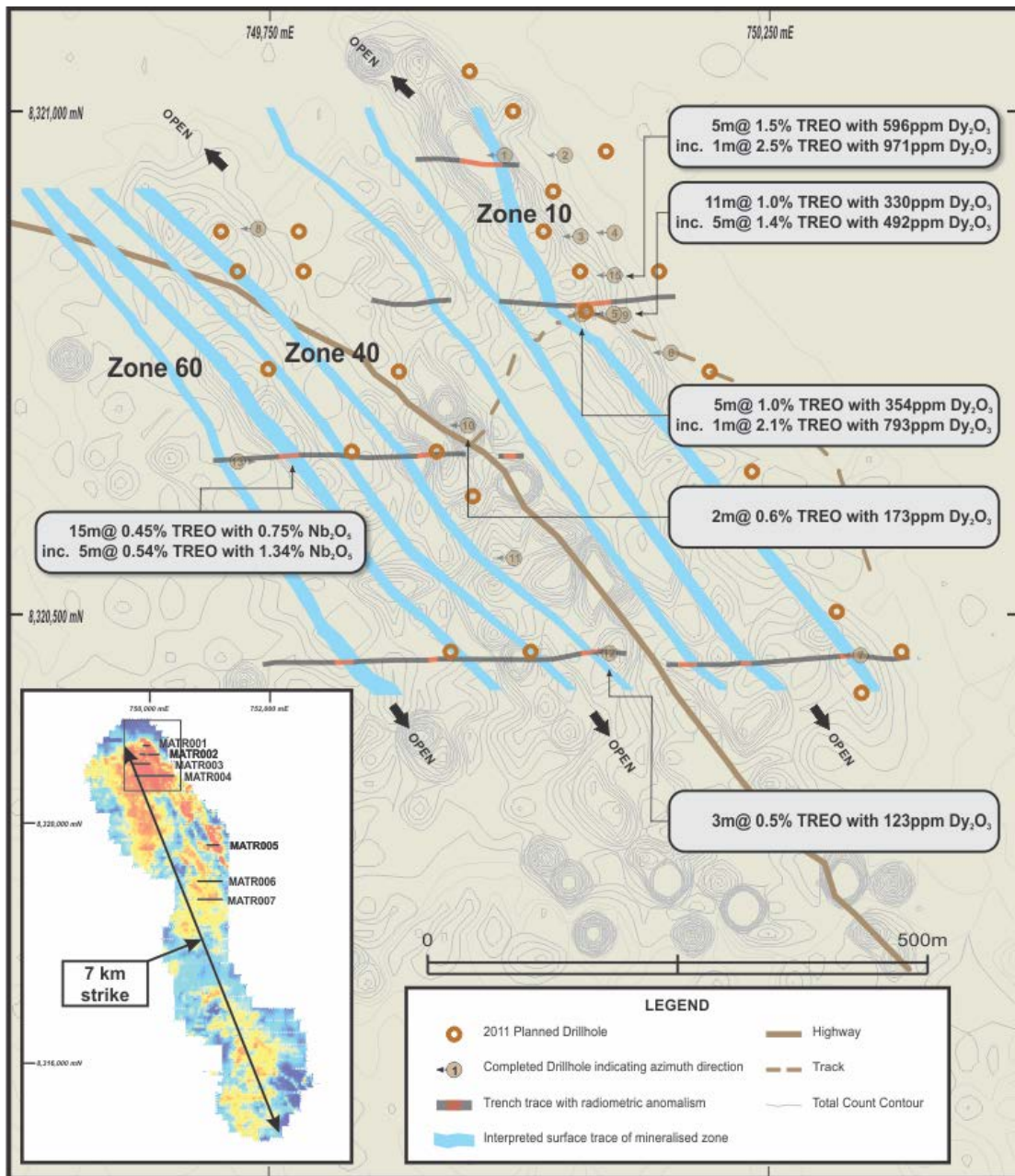


Figure 1: Main anomaly 2011 drilling program over contoured total count ground

<sup>1</sup> Critical Rare Earths, Technology Metals Research LLC, 2011, G P Hatch

### 1000m RC Drilling – Lingoni

Detailed analysis of follow-up soil and auger results for the Lingoni target (Figure 2) revealed several anomalous zones of REE mineralisation, correlating with the multiple radiometric signatures identified during earlier ground scintillometer surveys and soil sampling.

A 1000m drill plan has subsequently been designed to test two REE targets and one Nb – HREE target at Lingoni.

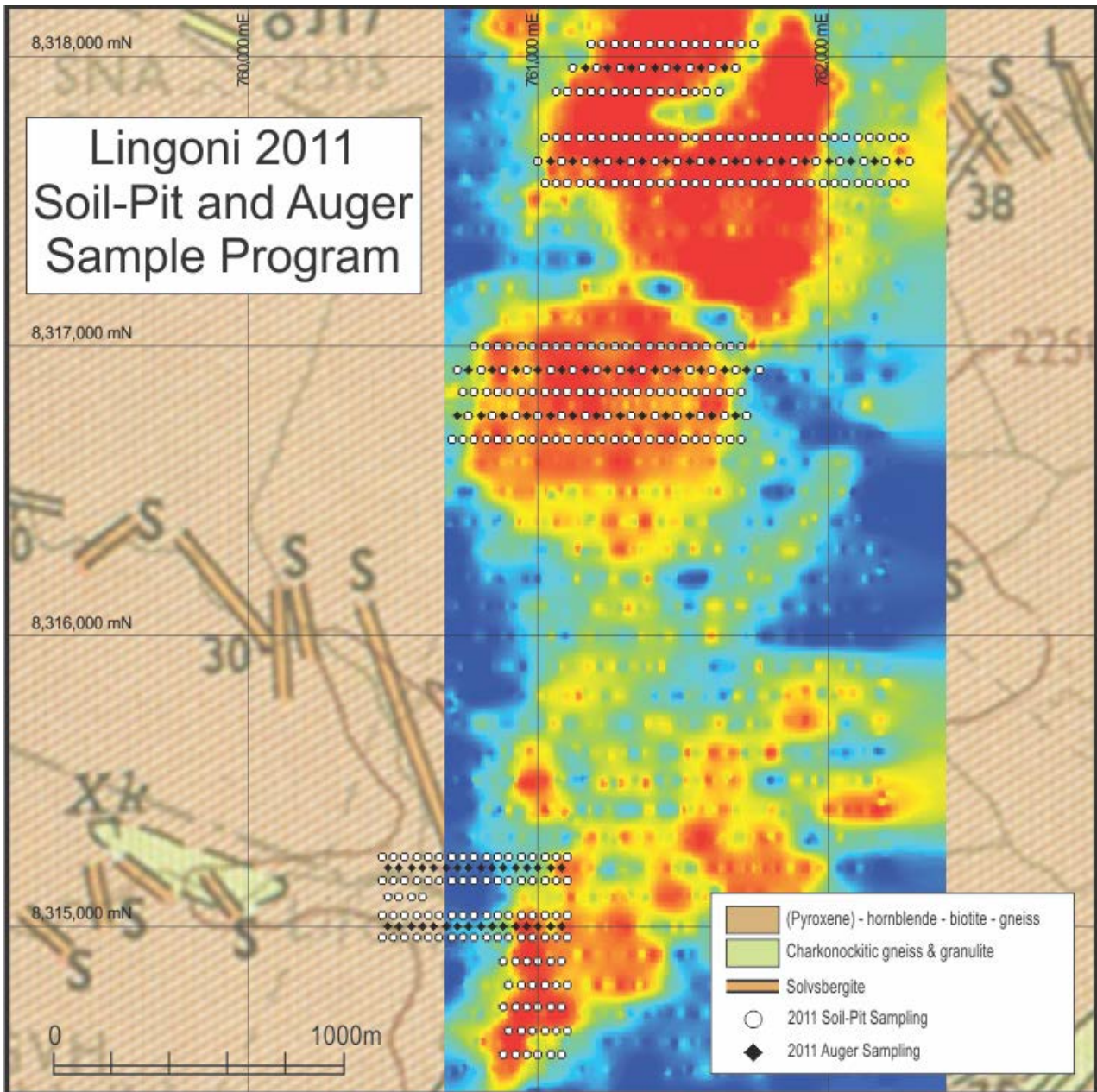


Figure 2: 2011 soil pit and augering sampling program

**Table 1: Significant REO-Nb-Ta-Zr results from the maiden RC drill program at Machinga North.**

| Trench ID | Zone ID | From (m) | To (m) | Width (m)* | TREO (ppm) | HREO (ppm) | HREO/TREO% | Dy <sub>2</sub> O <sub>3</sub> (ppm) | Dy <sub>2</sub> O <sub>3</sub> /TREO% | Nb <sub>2</sub> O <sub>5</sub> (ppm) | Ta <sub>2</sub> O <sub>5</sub> (ppm) | ZrO <sub>2</sub> (ppm) |
|-----------|---------|----------|--------|------------|------------|------------|------------|--------------------------------------|---------------------------------------|--------------------------------------|--------------------------------------|------------------------|
| MARC 001  | Zone10  | 12       | 14     | 2          | 14,583     | 4,734      | 33%        | 493                                  | 3.4%                                  | 6,202                                | 270                                  | 20,569                 |
| MARC 002  | Zone 10 | 31       | 32     | 1          | 13,887     | 5,146      | 37%        | 529                                  | 3.8%                                  | 5,040                                | 258                                  | 23,174                 |
| MARC 003  | Zone 10 | 27       | 30     | 3          | 8,452      | 3,284      | 39%        | 310                                  | 3.7%                                  | 3,813                                | 204                                  | 25,245                 |
| MARC 004  | Zone 10 | 36       | 40     | 4          | 7,031      | 2,234      | 32%        | 228                                  | 3.2%                                  | 2,390                                | 111                                  | 7,034                  |
| Incl.     | Zone 10 | 39       | 40     | 1          | 12,057     | 3,732      | 31%        | 390                                  | 3.2%                                  | 3,875                                | 188                                  | 11,778                 |
| MARC 005  | Zone 10 | 12       | 23     | 11         | 9,702      | 3,120      | 32%        | 330                                  | 3.4%                                  | 3,107                                | 159                                  | 8,501                  |
| Incl.     | Zone 10 | 19       | 23     | 4          | 14,237     | 4,599      | 32%        | 492                                  | 3.5%                                  | 4,650                                | 267                                  | 13,368                 |
| MARC 006  | Zone 10 | NSR      | -      | -          | -          | -          | -          | -                                    | -                                     | -                                    | -                                    | -                      |
| MARC 007  | Zone 10 | 53       | 59     | 6          | 6,368      | 1,948      | 30%        | 204                                  | 3.2%                                  | 1,983                                | 107                                  | 7,537                  |
| Incl.     | Zone 10 | 54       | 55     | 1          | 10,153     | 3,649      | 36%        | 392                                  | 3.9%                                  | 3,531                                | 223                                  | 16,043                 |
| MARC 009  | Zone 10 | 54       | 55     | 1          | 10,673     | 3,151      | 30%        | 335                                  | 3.1%                                  | 4,731                                | 196                                  | 13,415                 |
| MARC 015  | Zone 10 | 26       | 31     | 5          | 15,437     | 5,297      | 34%        | 596                                  | 3.9%                                  | 5,398                                | 261                                  | 14,061                 |
| Incl.     | Zone 10 | 27       | 28     | 1          | 25,369     | 8,474      | 33%        | 971                                  | 3.8%                                  | 8,613                                | 437                                  | 22,857                 |
| MARC 016  | Zone 10 | 19       | 24     | 5          | 9,820      | 3,263      | 32%        | 354                                  | 3.6%                                  | 3,259                                | 167                                  | 11,696                 |
| Incl.     | Zone 10 | 22       | 23     | 1          | 21,379     | 7,297      | 34%        | 793                                  | 3.7%                                  | 6,692                                | 373                                  | 25,121                 |
| MARC 008  | Zone 40 | 28       | 30     | 2          | 6,933      | 2,030      | 25%        | 200                                  | 2.9%                                  | 5,100                                | 270                                  | 8,521                  |
| MARC 010  | Zone 40 | 66       | 68     | 2          | 6,455      | 1,815      | 28%        | 173                                  | 2.7%                                  | 7,948                                | 362                                  | 19,326                 |
| MARC 011  | Zone 40 | 11       | 13     | 2          | 4,101      | 1,152      | 28%        | 108                                  | 2.6%                                  | 5,122                                | 272                                  | 12,789                 |
| MARC 012  | Zone 40 | 11       | 14     | 3          | 3,788      | 1,243      | 33%        | 93                                   | 2.5%                                  | 6,935                                | 389                                  | 23,711                 |
| MARC 012  | Zone 50 | 64       | 67     | 3          | 4,785      | 1,542      | 33%        | 123                                  | 2.6%                                  | 3,337                                | 173                                  | 30,361                 |
| MARC 013  | Zone 60 | 108      | 109    | 1          | 39,565     | 1,344      | 3%         | 160                                  | 0.4%                                  | 53                                   | 1                                    | 1,282                  |
| MARC 013  | Zone 60 | 129      | 131    | 2          | 2,737      | 846        | 31%        | 68                                   | 2.5%                                  | 3,754                                | 207                                  | 31,781                 |
| MARC 014  | -       | NSR      | -      | -          | -          | -          | -          | -                                    | -                                     | -                                    | -                                    | -                      |

\*Estimated true widths are 90-95% of intercept widths, except for drill holes MARC009, 013 and 009, where true widths are currently not known. HREO are also included in the TREO total.

TREO = Total Rare Earth Oxides (La through Lu + Y); HREO = more valuable Heavy Rare Earth Oxides (Eu through Lu +Y).

**Table 2: Significant REO-Nb-Ta-Zr results from the maiden trench program at Machinga Main Zone.**

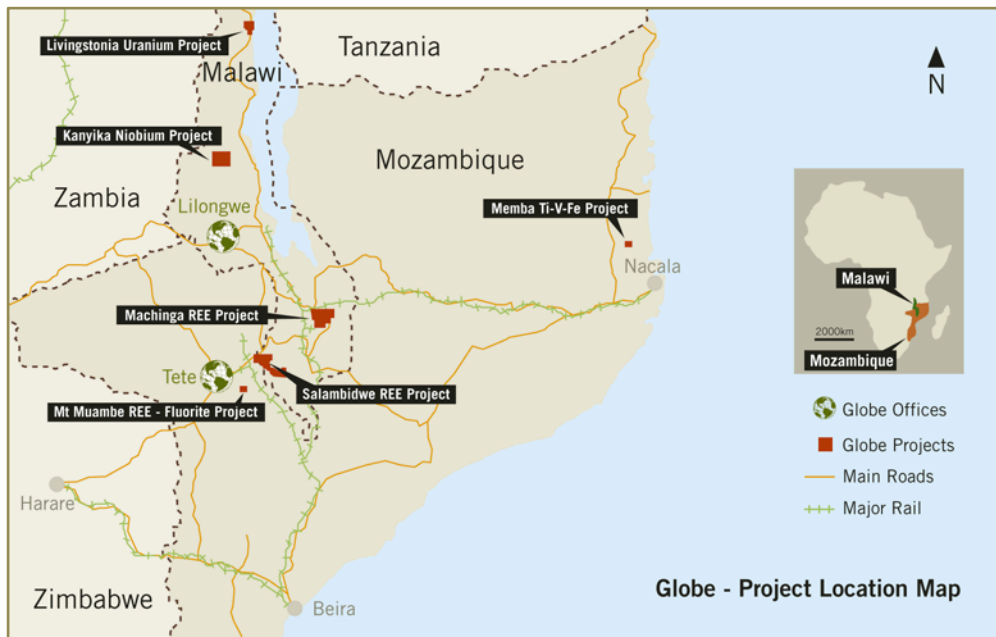
| Trench ID | From (m) | To (m) | Width (m)* | TREO (ppm) | HREO (ppm) | Dy <sub>2</sub> O <sub>3</sub> (ppm) | Tm <sub>2</sub> O <sub>3</sub> (ppm) | Yb <sub>2</sub> O <sub>3</sub> (ppm) | Nb <sub>2</sub> O <sub>5</sub> (ppm) | Ta <sub>2</sub> O <sub>5</sub> (ppm) | ZrO <sub>2</sub> (ppm) |
|-----------|----------|--------|------------|------------|------------|--------------------------------------|--------------------------------------|--------------------------------------|--------------------------------------|--------------------------------------|------------------------|
| MATR001   | 48       | 53     | 5          | 9,797      | 3,216      | 331                                  | 39                                   | 237                                  | 6,042                                | 217                                  | 13,029                 |
| Incl.     | 48       | 50     | 2          | 15,038     | 5,090      | 521                                  | 64                                   | 388                                  | 9,124                                | 441                                  | 18,511                 |
| MATR001   | 61       | 68     | 7          | 12,630     | 4,645      | 491                                  | 58                                   | 345                                  | 6,310                                | 354                                  | 18,103                 |
| Incl.     | 61       | 63     | 2          | 15,417     | 5,784      | 577                                  | 81                                   | 496                                  | 9,351                                | 538                                  | 25,029                 |
| MATR001   | 81       | 87     | 6          | 8,845      | 3,412      | 333                                  | 45                                   | 271                                  | 4,456                                | 250                                  | 16,782                 |
| Incl.     | 81       | 82     | 1          | 11,911     | 4,763      | 449                                  | 68                                   | 415                                  | 5,972                                | 347                                  | 26,804                 |
| MATR002   | 204      | 237    | 33         | 7,130      | 2,646      | 245                                  | 34                                   | 225                                  | 3,980                                | 197                                  | 21,923                 |
| Incl.     | 226      | 237    | 11         | 10,008     | 4,376      | 388                                  | 56                                   | 368                                  | 4,622                                | 239                                  | 31,458                 |
| Incl.     | 234      | 237    | 3          | 14,220     | 5,395      | 525                                  | 67                                   | 422                                  | 6,972                                | 392                                  | 31,417                 |
| MATR003   | 70       | 85     | 15         | 4,541      | 1,245      | 118                                  | 14                                   | 87                                   | 7,479                                | 367                                  | 11,093                 |
| Incl.     | 72       | 82     | 10         | 5,427      | 1,477      | 141                                  | 17                                   | 107                                  | 9,627                                | 482                                  | 13,864                 |
| Incl.     | 72       | 77     | 5          | 5,632      | 1,235      | 117                                  | 14                                   | 89                                   | 13,365                               | 559                                  | 13,796                 |
| MATR004   | 488      | 492    | 4          | 7,591      | 1,924      | 227                                  | 25                                   | 149                                  | 4,466                                | 238                                  | 14,384                 |
|           | 587      | 597    | 10         | 5,529      | 1,753      | 201                                  | 22                                   | 130                                  | 2,811                                | 146                                  | 12,058                 |
| MATR005   | 51       | 55     | 4          | 4,865      | 1,616      | 152                                  | 19                                   | 114                                  | 3,365                                | 211                                  | 19,029                 |
|           | 68       | 72     | 4          | 10,580     | 2,202      | 234                                  | 29                                   | 170                                  | 3,563                                | 179                                  | 16,246                 |
|           | 76       | 82     | 6          | 10,270     | 1,880      | 210                                  | 19                                   | 104                                  | 2,920                                | 142                                  | 8,907                  |
|           | 219      | 229    | 10         | 10,030     | 3,420      | 360                                  | 46                                   | 270                                  | 5,055                                | 241                                  | 19,993                 |
|           | 244      | 248    | 4          | 6,777      | 1,885      | 211                                  | 29                                   | 169                                  | 6,804                                | 344                                  | 17,452                 |
| MATR006   | 279      | 299    | 20         | 3,984      | 1,035      | 109                                  | 16                                   | 98                                   | 3,341                                | 209                                  | 16,521                 |
| MATR007   | 66       | 138    | 72         | 3,578      | 542        | 51                                   | 7                                    | 45                                   | 1,421                                | 78                                   | 7,028                  |
| Incl.     | 90       | 98     | 8          | 5,225      | 548        | 52                                   | 7                                    | 47                                   | 1,399                                | 78                                   | 8,081                  |
|           | 232      | 240    | 8          | 3,302      | 813        | 75                                   | 9                                    | 58                                   | 2,164                                | 113                                  | 6,161                  |
|           | 344      | 364    | 20         | 4,282      | 1,151      | 108                                  | 14                                   | 94                                   | 1,718                                | 95                                   | 9,939                  |

\*Estimated true widths are 60-70% of intercept widths. Dysprosium, thulium and ytterbium are heavy rare earth elements and therefore included also in the TREO and HREO totals in the above table, whilst HREO are also included in the TREO total.

TREO = Total Rare Earth Oxides (La through Lu + Y); HREO = more valuable Heavy Rare Earth Oxides (Eu through Lu + Y). The reader is cautioned that these are trench results all from approximately 2m depth. The "From" and "To" columns indicate lateral distances at surface, not depths.

**Table 3: RC drillhole and trench information – Machinga.**

| Hole ID | Depth (m) | Easting (m) | Northing (m) | RL (m) | Dip  | Azimuth | Zone      |
|---------|-----------|-------------|--------------|--------|------|---------|-----------|
| MARC001 | 88        | 749985      | 8320958      | 753    | -55° | 270°    | Main Zone |
| MARC002 | 142       | 750045      | 8320958      | 751    | -55° | 270°    | Main Zone |
| MARC003 | 85        | 750061      | 8320878      | 753    | -55° | 270°    | Main Zone |
| MARC004 | 141       | 750095      | 8320880      | 750    | -55° | 270°    | Main Zone |
| MARC005 | 102       | 750096      | 8320799      | 757    | -55° | 270°    | Main Zone |
| MARC006 | 121       | 750151      | 8320762      | 759    | -55° | 270°    | Main Zone |
| MARC007 | 100       | 750341      | 8320460      | 756    | -55° | 270°    | Main Zone |
| MARC008 | 92        | 749739      | 8320885      | 754    | -55° | 270°    | Main Zone |
| MARC009 | 86        | 750106      | 8320799      | 757    | -90° | 0°      | Main Zone |
| MARC010 | 130       | 749949      | 8320687      | 769    | -55° | 270°    | Main Zone |
| MARC011 | 80        | 749996      | 8320556      | 777    | -55° | 270°    | Main Zone |
| MARC012 | 100       | 750091      | 8320460      | 770    | -55° | 270°    | Main Zone |
| MARC013 | 136       | 749718      | 8320652      | 787    | -55° | 90°     | Main Zone |
| MARC014 | 100       | 751146      | 8319592      | 763    | -55° | 270°    | Main Zone |
| MARC015 | 100       | 750095      | 8320839      | 752    | -55° | 270°    | Main Zone |
| MARC016 | 75        | 750066      | 8320799      | 758    | -55° | 90°     | Main Zone |
| MATR001 | 103       | 749896      | 8320952      | 756    | 0°   | 90°     | Main Zone |
| MATR002 | 247       | 749852      | 8320812      | 765    | 0°   | 90°     | Main Zone |
| MATR003 | 86        | 749693      | 8320652      | 790    | 0°   | 90°     | Main Zone |
| MATR004 | 597       | 749744      | 8320448      | 823    | 0°   | 90°     | Main Zone |
| MATR005 | 248       | 750901      | 8319248      | 764    | 0°   | 90°     | Main Zone |
| MATR006 | 299       | 750798      | 8318704      | 799    | 0°   | 90°     | Main Zone |
| MATR007 | 372       | 750838      | 8318408      | 834    | 0°   | 90°     | Main Zone |



## About Globe Metals & Mining

Globe is an African-focused resource company, specialising in rare metals such as niobium, tantalum and rare earths, as well as other commodities including fluorite, uranium and zircon. Its main focus is the multi-commodity Kanyika Niobium Project in Malawi, Africa, which will commence production of ferro-niobium in 2014, a key additive in sophisticated steels.

Globe also has a number of other projects at an earlier stage of development: it is earning up to an 80% interest in the Machinga Rare Earth Project in southern Malawi, and the Company can earn up to a 90% interest in the Mount Muambe REE - Fluorite Project in Mozambique. Initial drill programs on both projects were undertaken in 2010.

Globe's corporate head office in Perth, Australia is supported by regional offices in Lilongwe, Malawi, as well as Maputo and Tete, Mozambique. The Company has been listed on the ASX since December 2005 (Code: GBE).

In April 2011, the Company entered into a strategic partnership with East China Minerals Exploration and Development Bureau (ECE), a Chinese State Owned Enterprise with extensive mining operations in China and overseas. ECE is now the largest shareholder in Globe, and a key partner for Globe's growth ambitions in Africa.

*Competent Person: The contents of this report relating to geology and exploration results are based on information reviewed by Dr. Julian Stephens, Member of the Australian Institute of Geoscientists and Non-Executive Director of Globe Metals & Mining. Dr Stephens has sufficient experience related to the activity being undertaken to qualify as a "Competent Person", as defined in the 2004 edition of the Australasian Code for Reporting of Exploration Results, Mineral Resources and Ore Reserves and consents to the inclusion in this report of the matters reviewed by him in the form and context in which they appear.*

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