

# High-grade REE & P<sub>2</sub>O<sub>5</sub> trench results returned from Tundulu to assist with metallurgy

DY6 Metals Ltd (ASX: DY6, "DY6" or the "Company") is pleased to report the results from its recent metallurgy sampling program at the Tundulu REE & Niobium carbonatite project in Malawi.

#### **Highlights:**

- A total of 63 metallurgical samples were collected from 37 sample locations along high-grade historic trench (TUTR10) at Tundulu
- Sampling results returned up to a high of 3.35% TREO and 27.5% P<sub>2</sub>O<sub>5</sub> over the sampled 83m length of trench TUTR10:
  - an exciting component of the sampling results is the average HREO, being 13% of the TREO basket
  - undetectable to very low levels of deleterious elements including mercury, lead and cadmium in the phosphorus (P) rich rocks confirms the exceptional grade quality of the phosphate at Tundulu; and
  - the sampling is representative of the mineralised Bastnaesite and Apatite carbonatite rock types exposed within the trench
- Selected samples are being collected to form a 150kg composite to be sent for metallurgical analysis
- 5 bioavailability composite samples were also taken across various historical trenches at Tundulu, targeting phosphate-rich rocks, to determine the solubility of phosphate in the samples and understand its potential for direct fertilization
- Majority of samples showed excellent P solubility (using 2% citric acid) of over 40%, with one returning solubility of 81%. This is above the industry threshold of 9.4% P<sub>2</sub>O<sub>5</sub> solubility using Citric Acid as the reagent in the acid leach process
- 9 samples representing predominant lithologies at Tundulu have been collected and will also be sent to RSC Australia for petrographic examination to validate the historical mineralogical and rock composition
- Samples from the Company's recent reconnaissance soil and rock chip program at the Ngala Hill PGE, Cu & Ni Project have been submitted to SGS South Africa for analysis, with results expected towards the end of the month

Registered Office Level 8, 99 St Georges Terrace Perth WA 6000

**P**: +61 8 9486 4036 **E**: info@dy6metals.com

dy6metals.com



#### **Tundulu REE Project**

Tundulu is formed of several hills in a ring around a central vent called Nathace Hill where the majority of the historic surface sampling and drilling was undertaken. The predominant geology at Nathace Hill is REE apatite hosting carbonatites and feldspathic breccia and comprises a large inner agglomerate vent. Mineral rich carbonatite also occurs at Tundulu Hill east of Nathace and Makhanga Hill west of Nathace and is previously unexplored and prospective for REEs and niobium mineralisation.

REE mineralisation remains open towards southern and western directions of Nathace Hill and potentially extends beyond the boundaries of the previously established mineralised area over Tundulu Hill. Initial indications of mineralisation appear to be high in valuable MREEs and low measurable radioactive uranium (U) and thorium (Th). This compares favourably to Lynas Rare Earths' Mount Weld Central Lanthanide Deposit where Th and U concentrations in the ore are approximately 660 ppm and 25 ppm respectively.<sup>1</sup>

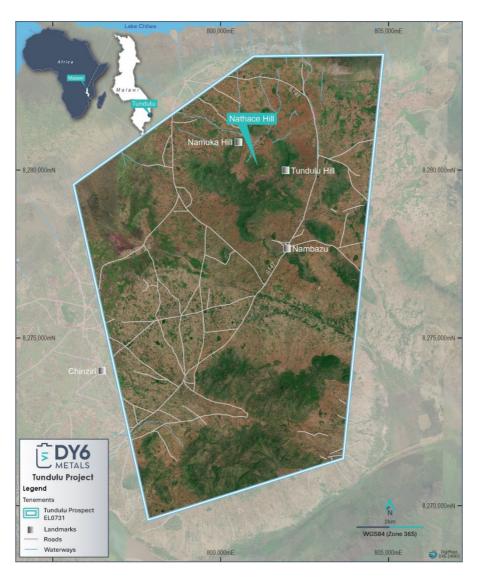


Figure 1. Map of Tundulu license area (EL0731)

<sup>&</sup>lt;sup>1</sup> Mt Weld Rare Earths Project Mine Closure Plan March 2021, Appx G - Mine Closure Plan.pdf (epa.wa.gov.au)



A total of 63 metallurgical samples were collected from 37 sample locations along high-grade historic trench (TUTR10) at Tundulu.

Sampling results returned up to a high of 3.35% TREO and 27.5%  $P_2O_5$  (average of 0.85% TREO and 8.26%  $P_2O_5$ ) over the sampled 83m length of trench TUTR10. The average HREO component of the TREO basket was 13%, with high-value heavy rare earth elements Dy & Tb contributing 2.5%. Undetectable to very low levels of deleterious elements including mercury, lead and cadmium in the P-rich rocks confirms the exceptional grade quality of the phosphate at Tundulu.

The sampling is representative of the mineralised Bastnaesite and Apatite carbonatite rock types exposed within the trench. Select samples are being collected to form a 150kg composite to be sent to for metallurgical analysis.

5 bioavailability composite samples were also taken across various historical trenches at Tundulu, targeting phosphate rich rocks. '*Bioavailability*' is used for analysis on phosphorous rock sources to determine the solubility of phosphate in soils. This analysis is useful in determining whether a particular phosphate rock type is suitable for direct fertiliser applications where the phosphate would be applied directly to the soil for uptake.

The analysis has been undertaken at Nagrom metallurgical and analytical laboratory in Kelmscott, Western Australia under standard atmospheric conditions using 2% citric acid. The majority of samples showed excellent phosphorus (P) solubility of over 40%, with one returning solubility of 81%. The exceptional quality of the phosphate-rich rocks at Tundulu is manifested by their undetectable to very low levels of deleterious elements including mercury, lead and cadmium.

The metallurgical test work will aim to evaluate historical studies undertaken at Tundulu and assess the findings from a 2017 metallurgical report, completed by the previous operators of the licence. The test work will initially focus on validating the beneficiation results achieved by the previous laboratory.

Conducting test work at this early stage enables the Company to ascertain the preliminary viability of producing two product streams: namely a REE commercially saleable concentrate and a mixed phosphate concentrate containing rare earths.

#### Ngala Hill PGE, Ni & Cu Project

Samples taken from the Company's recent reconnaissance soil and rock chip program at the Ngala Hill PGE, Cu & Ni Project have been submitted to SGS South Africa for analysis. The Company expects to release results from this program towards the end of the month.









Figure 2. Weighing and collection of samples from Trench 10 (TUTR10)

## -ENDS-

This announcement has been authorised by the Board of DY6.



#### **Abbreviations**

- TREO = Total Rare Earth Oxides La<sub>2</sub>O<sub>3</sub>, CeO<sub>2</sub>, Pr<sub>6</sub>O<sub>11</sub>, Nd<sub>2</sub>O<sub>3</sub>, Sm<sub>2</sub>O<sub>3</sub>, Eu<sub>2</sub>O<sub>3</sub>, Gd<sub>2</sub>O<sub>3</sub>, Tb<sub>4</sub>O<sub>7</sub>, Dy<sub>2</sub>O<sub>3</sub>, Ho<sub>2</sub>O<sub>3</sub>, Er<sub>2</sub>O<sub>3</sub>, Tm<sub>2</sub>O<sub>3</sub>, Yb<sub>2</sub>O<sub>3</sub>, Lu<sub>2</sub>O<sub>3</sub>, Y<sub>2</sub>O<sub>3</sub>
- HREO = Heavy Rare Earth Oxides Tb<sub>4</sub>O<sub>7</sub>, Dy<sub>2</sub>O<sub>3</sub>, Ho<sub>2</sub>O<sub>3</sub>, Er<sub>2</sub>O<sub>3</sub>, Tm<sub>2</sub>O<sub>3</sub>, Yb<sub>2</sub>O<sub>3</sub>, Lu<sub>2</sub>O<sub>3</sub>, Y<sub>2</sub>O<sub>3</sub>
- HREO% = HREO/TREO \* 100
- DyTb:TREO = (Dy<sub>2</sub>O<sub>3</sub> + Tb<sub>4</sub>O<sub>7</sub>)/TREO \* 100
- MREE=Nd, Pr, Dy, Tb
- **P** = Phosphorus
- $P_2O_5 = Phosphorus pentoxide$

### **More information**

| Mr Daniel Smith         | Mr John Kay                  | Mr Luke Forrestal  |  |  |
|-------------------------|------------------------------|--------------------|--|--|
| Chairman                | Director & Company Secretary | Investor Relations |  |  |
| dan.smith@dy6metals.com | john.kay@dy6metals.com       | +61 411 479 144    |  |  |

# **Competent Persons Statement**

The Information in this announcement that relates to exploration results, mineral resources or ore reserves is based on information compiled by Mr Allan Younger, who is a Member of the Australasian Institute of Mining and Metallurgy. Mr Younger is a consultant of the Company. Mr Younger has sufficient experience which is relevant to the style of mineralisation and type of deposits under consideration and to the activity that he is undertaking to qualify as a Competent Person as defined in the 2012 edition of the `Australian Code for Reporting Exploration Results, Mineral Resources and Ore Reserves' (the JORC Code). Mr Younger consents to the inclusion of this information in the form and context in which it appears in this announcement. Mr Younger holds shares in the Company.

| Sample ID | Easting | Northing | La (ppm) | Ce (ppm) | Dy<br>(ppm) | Eu<br>(ppm) | Nb<br>(ppm) | Nd<br>(ppm) | Pr (ppm) | Sm<br>(ppm) | Tb<br>(ppm) | Y (ppm) | P₂O₅<br>wt% | TREO<br>(ppm) |
|-----------|---------|----------|----------|----------|-------------|-------------|-------------|-------------|----------|-------------|-------------|---------|-------------|---------------|
| PHA0006   | 801329  | 8280169  | 1464     | 1949     | 26.76       | 14.68       | 1298        | 735         | 248      | 69.2        | 6.17        | 110     | 2.72        | 5,610         |
| PHA0007   | 801331  | 8280169  | 91.1     | 167      | 4.56        | 2.45        | 244         | 68          | 19.96    | 9           | 0.9         | 24.6    | 0.72        | 477           |
| PHA0008   | 801333  | 8280168  | 1661     | 2355     | 150         | 47.52       | 595         | 890         | 284      | 161         | 27.82       | 622     | 11.96       | 7,753         |
| PHA0009   | 801335  | 8280168  | 4143     | 5087     | 196         | 54.34       | 4037        | 1529        | 543      | 196         | 33.89       | 852     | 17.03       | 15,539        |
| PHA0010   | 801337  | 8280167  | 1290     | 2013     | 173         | 54.06       | 658         | 868         | 258      | 175         | 31.53       | 735     | 12.29       | 7,057         |
| PHA0011   | 801338  | 8280167  | 1325     | 1746     | 244         | 65.54       | 785         | 847         | 237      | 199         | 43.43       | 1009    | 16.34       | 7,299         |
| PHA0012   | 801340  | 8280166  | 675      | 881      | 41.7        | 11          | 276         | 237         | 78.03    | 38.1        | 7           | 191     | 3.83        | 2,673         |
| PHA0013   | 801342  | 8280166  | 820      | 1135     | 91.86       | 30.46       | 504         | 533         | 151      | 102         | 16.89       | 386     | 5.94        | 4,099         |
| PHA0014   | 801344  | 8280165  | 1069     | 1664     | 162         | 50.07       | 388         | 752         | 214      | 160         | 29.62       | 653     | 10.17       | 6,044         |
| PHA0015   | 801346  | 8280165  | 436      | 682      | 53.17       | 14.82       | 262         | 242         | 68.37    | 47.8        | 9.42        | 223     | 3.66        | 2,237         |
| PHA0016   | 801348  | 8280164  | 690      | 1204     | 172         | 45.87       | 854         | 508         | 132      | 136         | 30.01       | 704     | 12.04       | 4,681         |
| PHA0017   | 801350  | 8280164  | 1418     | 2925     | 235         | 77.96       | 2151        | 1511        | 416      | 275         | 41.82       | 1129    | 18.43       | 10,151        |
| PHA0018   | 801352  | 8280163  | 1610     | 3119     | 419         | 111         | 2005        | 1595        | 440      | 335         | 73.52       | 1645    | 27.53       | 11,961        |
| PHA0019   | 801354  | 8280163  | 1617     | 2450     | 202         | 55.94       | 2610        | 1098        | 330      | 183         | 35.22       | 740     | 11.81       | 8,406         |
| PHA0021   | 801356  | 8280162  | 657      | 1225     | 185         | 43.71       | 196         | 510         | 135      | 126         | 31.79       | 702     | 10.71       | 4,655         |
| PHA0022   | 801358  | 8280162  | 1528     | 2061     | 224         | 54.88       | 591         | 899         | 265      | 171         | 37.94       | 840     | 12.6        | 7,671         |
| PHA0023   | 801360  | 8280161  | 526      | 976      | 86.92       | 24.25       | 408         | 372         | 106      | 73.8        | 16          | 350     | 4.98        | 3,198         |
| PHA0024   | 801362  | 8280161  | 644      | 1171     | 119         | 29.34       | 542         | 424         | 123      | 86          | 21.25       | 435     | 6.55        | 3,871         |
| PHA0025   | 801364  | 8280160  | 190      | 394      | 19.03       | 5.07        | 218         | 117         | 35.71    | 17.5        | 3.15        | 81.2    | 1.6         | 1,075         |
| PHA0026   | 801366  | 8280160  | 232      | 504      | 98.44       | 23.13       | 361         | 195         | 50.49    | 57.5        | 17.74       | 368     | 5.62        | 2,029         |
| PHA0027   | 801367  | 8280159  | 1815     | 3442     | 106         | 51.24       | 270         | 1530        | 460      | 205         | 22.05       | 410     | 6.01        | 9,891         |
| PHA0028   | 801369  | 8280159  | 3268     | 4446     | 98.94       | 40.92       | 295         | 1329        | 476      | 154         | 20.33       | 377     | 5.99        | 12,461        |

# Table 1: DY6 Rock Chip Sample Results – Tundulu Project

| Sample ID | Easting | Northing | La (ppm) | Ce (ppm) | Dy<br>(ppm) | Eu<br>(ppm) | Nb<br>(ppm) | Nd<br>(ppm) | Pr (ppm) | Sm<br>(ppm) | Tb<br>(ppm) | Y (ppm) | P₂O₅<br>wt% | TREO<br>(ppm) |
|-----------|---------|----------|----------|----------|-------------|-------------|-------------|-------------|----------|-------------|-------------|---------|-------------|---------------|
| PHA0029   | 801371  | 8280158  | 1834     | 2970     | 137         | 52.83       | 397         | 1252        | 387      | 186         | 26.91       | 490     | 8.37        | 9,079         |
| PHA0030   | 801373  | 8280158  | 1831     | 3481     | 133         | 55.41       | 404         | 1414        | 450      | 206         | 26.31       | 496     | 7.8         | 10,003        |
| PHA0031   | 801375  | 8280157  | 1845     | 3554     | 87.29       | 53.56       | 2514        | 1629        | 479      | 230         | 18.76       | 301     | 4.8         | 10,052        |
| PHA0032   | 801377  | 8280157  | 1854     | 2766     | 135         | 57.63       | 216         | 1311        | 371      | 222         | 26.86       | 465     | 7.17        | 8,924         |
| PHA0033   | 801383  | 8280155  | 4853     | 5614     | 122         | 64.83       | 77          | 1699        | 583      | 249         | 25.56       | 415     | 5.87        | 16,603        |
| PHA0034   | 801385  | 8280154  | 7949     | 8553     | 96.58       | 56.8        | 77          | 2091        | 812      | 225         | 20.98       | 336     | 4.58        | 24,355        |
| PHA0035   | 801387  | 8280154  | 827      | 1358     | 48.75       | 18.58       | 22          | 427         | 133      | 65.7        | 9.11        | 182     | 2.92        | 3,782         |
| PHA0036   | 801389  | 8280153  | 1246     | 2062     | 85.89       | 30.61       | 94          | 673         | 204      | 107         | 16.28       | 319     | 6.82        | 5,867         |
| PHA0037   | 801391  | 8280153  | 1014     | 1640     | 42.55       | 17.59       | 69          | 515         | 160      | 69.5        | 8.29        | 167     | 7.6         | 4,455         |
| PHA0039   | 801393  | 8280152  | 1289     | 2006     | 60.57       | 24.45       | 92          | 571         | 182      | 85.3        | 11.99       | 218     | 6.29        | 5,469         |
| PHA0040   | 801394  | 8280152  | 1491     | 2523     | 61.89       | 25.4        | 98          | 737         | 234      | 96.8        | 12.04       | 245     | 7.02        | 6,649         |
| PHA0041   | 801396  | 8280151  | 10000    | 10000    | 211         | 147         | 109         | 4985        | 1000     | 628         | 51.45       | 647     | 7.17        | 33,597        |
| PHA0042   | 801398  | 8280151  | 2429     | 3828     | 123         | 62.06       | 194         | 1769        | 523      | 259         | 24.6        | 435     | 5.62        | 11,601        |
| PHA0043   | 801400  | 8280150  | 2614     | 3933     | 153         | 61.01       | 243         | 1635        | 504      | 242         | 28.41       | 534     | 9.41        | 11,944        |
| PHA0044   | 801402  | 8280150  | 2514     | 3814     | 130         | 58.81       | 261         | 1671        | 504      | 240         | 25.66       | 441     | 5.83        | 11,540        |



# Table 2: DY6 Bioavailability Sample Results – Tundulu Project

|   | SAMPLE                     | Easting   | Northing   | Mass<br>(kg) | Moisture<br>(%) | Ce<br>(ppm) | Y<br>(ppm) | U<br>(ppm) | Th<br>(ppm) | P <sub>2</sub> O <sub>5</sub><br>(%) | P<br>Extraction<br>(%) | CaO<br>(%) | Al <sub>2</sub> O <sub>3</sub><br>(%) | Fe <sub>2</sub> O <sub>3</sub><br>(%) | MgO<br>(%) | SiO <sub>2</sub><br>(%) | S (%) | F<br>(ppm) | CI<br>(%) | Cd<br>(ppm) | Pb<br>(%) | Hg<br>(ppm) |
|---|----------------------------|-----------|------------|--------------|-----------------|-------------|------------|------------|-------------|--------------------------------------|------------------------|------------|---------------------------------------|---------------------------------------|------------|-------------------------|-------|------------|-----------|-------------|-----------|-------------|
|   |                            |           |            |              |                 |             |            |            |             |                                      |                        |            |                                       |                                       |            |                         |       |            |           |             |           |             |
| - | PHA001                     | 801356.01 | 8280200.36 | 0.252        | 2.16            | 816         | 274        | 9.5        | 70.0        | 4.906                                | 41.49                  | 6.80       | 7.96                                  | 18.49                                 | 0.13       | 41.40                   | 3.465 | 2800       | <0.01     | 2           | 0.030     | <0.01       |
|   | PHA002                     | 801342.83 | 8280193.89 | 0.253        | 3.64            | 1330        | 547        | 6.0        | 114.5       | 10.543                               | 16.26                  | 10.50      | 0.67                                  | 27.38                                 | 0.07       | 26.68                   | 5.239 | 4400       | 0.01      | <1          | 0.043     | <0.01       |
|   | PHA003                     | 801356.37 | 8280203.35 | 0.253        | 0.78            | 1141        | 68         | 7.5        | 73.5        | 2.400                                | 71.45                  | 5.42       | 12.51                                 | 7.33                                  | 0.18       | 51.78                   | 0.540 | 600        | 0.01      | 2           | 0.006     | <0.01       |
|   | PHA004                     | 801313.88 | 8280131.15 | 0.248        | 0.71            | 888         | 53         | 5.5        | 48.5        | 1.272                                | 80.50                  | 2.61       | 14.22                                 | 5.60                                  | 0.26       | 58.16                   | 0.044 | <200       | <0.01     | 1           | 0.004     | 0.03        |
|   | PHA005                     | 801311.69 | 8280087.32 | 0.254        | 0.78            | 1044        | 79         | 8.0        | 67.0        | 1.086                                | 61.30                  | 1.30       | 11.59                                 | 7.16                                  | 0.09       | 64.31                   | 0.007 | 400        | <0.01     | 2           | 0.002     | 0.01        |
|   | $(\mathcal{O}\mathcal{O})$ |           |            |              |                 |             |            |            |             |                                      |                        |            |                                       |                                       |            |                         |       |            |           |             |           |             |
|   |                            |           |            |              |                 |             |            |            |             |                                      |                        |            |                                       |                                       |            |                         |       |            |           |             |           |             |

# Annexure A: JORC Code, 2012 Edition – Table 1 report

Section 1 Sampling Techniques and Data

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

| Criteria                 | JORC Code explanation   | Commentary  |
|--------------------------|---|---|
| Sampling<br>techniques   | <ul> <li>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.</li> <li>Include reference to measures taken to ensure sample representivity and the appropriate calibration of any measurement tools or systems used.</li> <li>Aspects of the determination of mineralisation that are Material to the Public Report.</li> <li>In cases where 'industry standard' work has been done this would be relatively simple (e.g. 'reverse circulation drilling was used to obtain 1 m samples from which 3 kg was pulverized 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.</li> </ul> | <ul> <li>Field rock chip samples of outcrop were taken by field staff from outcrops utilising a geo-pick and hand tool. Samples are photographed and stored in labelled clear plastic bags for transport to the lab for analysis. Results are attached.</li> <li>Samples were selected more on the basis of understanding lithotypes rather than being fully representative of mineralisation.</li> </ul> |
| Drilling<br>techniques   | <ul> <li>Drill type (e.g. core, reverse circulation, open-hole hammer,<br/>rotary air blast, auger, Bangka, sonic, etc) and details (e.g. core<br/>diameter, triple or standard tube, depth of diamond tails, face-<br/>sampling bit or other type, whether core is oriented and if so, by<br/>what method, etc).</li> </ul>  | <ul> <li>No recent drilling is utilised on this program or reported in this<br/>announcement. Previous exploration included 2874m of diamond<br/>drilling and 6172m of RC drilling.</li> </ul>  |
| Drill sample<br>recovery | <ul> <li>Method of recording and assessing core and chip sample recoveries and results assessed.</li> <li>Measures taken to maximise sample recovery and ensure representative nature of the samples.</li> <li>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.</li> </ul>  | <ul> <li>Not recorded in historic data. Further review needs to be<br/>undertaken by the Company.</li> </ul>  |



| Logging   | • Whether core and chip samples have been geologically and geotechnically logged to a level of detail to support appropriate   | Qualitative geological logging of rock chips and outcrops is completed in the field.  |
|---|--|---|
| Criteria  | JORC Code explanation  | Commentary  |
| Sub-sampling<br>techniques and<br>sample<br>preparation | <ul> <li>Mineral Resource estimation, mining studies and metallurgical studies.</li> <li>Whether logging is qualitative or quantitative in nature. Core (or costean, channel, etc) photography.</li> <li>The total length and percentage of the relevant intersections logged. If core, whether cut or sawn and whether quarter, half or all core taken.</li> <li>If non-core, whether riffled, tube sampled, rotary split, etc and whether sampled wet or dry.</li> <li>For all sample types, the nature, quality and appropriateness of the sample preparation technique.</li> <li>Quality control procedures adopted for all sub-sampling stages to maximise representivity of samples.</li> <li>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.</li> <li>Whether sample sizes are appropriate to the grain size of the material being sampled.</li> </ul> | <ul> <li>The sampling technique used to obtain rock chip samples from outcrops manually is in line with industry standards and standard exploration practices.</li> <li>Rock chip sample data is not for use in resource in resource estimation.</li> </ul>   |
| Quality of assay<br>data and<br>laboratory tests        | <ul> <li>The nature, quality and appropriateness of the assaying and laboratory procedures used and whether the technique is considered partial or total.</li> <li>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.</li> <li>Nature of quality control procedures adopted (eg standards, blanks, duplicates, external laboratory checks) and whether acceptable levels of accuracy (i.e. lack of bias) and precision have been established.</li> </ul>   | <ul> <li>Recent assays reported in this announcement were completed as<br/>a four-acid digest with MS determination approaching a total<br/>digest and is an appropriate exploration approach.</li> <li>Historical analyses are defined only as being ICP; digestion<br/>methods are not specified in available data. Additional research is<br/>required.</li> </ul> |

# dy6metals.com | ASX:DY6 10



| Verification of<br>sampling and<br>assaying | <ul> <li>The verification of significant intersections by either independent or alternative company personnel.</li> <li>The use of twinned holes.</li> <li>Documentation of primary data, data entry procedures, data verification, data storage (physical and electronic) protocols.</li> <li>Discuss any adjustment to assay data.</li> </ul> | <ul> <li>Field data is collated and sent back to DY6 geological staff and/or<br/>contractors where it is checked and verified.</li> </ul>                        |
|---|---|--|
| Location of data<br>points                  | <ul> <li>Accuracy and quality of surveys used to locate drill holes (collar<br/>and down-hole surveys), trenches, mine workings and other<br/>locations used in Mineral Resource estimation.</li> </ul>   | <ul> <li>No recent drilling is utilised on this program or reported in this announcement.</li> <li>DY6 sample points were located using handheld GPS.</li> </ul> |

| Criteria   |   | JORC Code explanation   |     | Commentary  |
|--|---|---|-----|---|
|  | • | Specification of the grid system used.<br>Quality and adequacy of topographic control.  |     |   |
| Data spacing<br>and distribution                                 | • | Data spacing for reporting of Exploration Results.<br>Whether the data spacing and distribution is sufficient to<br>establish the degree of geological and grade continuity<br>appropriate for the Mineral Resource and Ore Reserve<br>estimation procedure(s) and classifications applied.<br>Whether sample compositing has been applied.   |     | No recent drilling is utilised on this program or reported in this announcement   |
| Orientation of<br>data in relation to<br>geological<br>structure | • | Whether the orientation of sampling achieves unbiased<br>sampling of possible structures and the extent to which this<br>is known, considering the deposit type.<br>If the relationship between the drilling orientation and the<br>orientation of key mineralised structures is considered to<br>have introduced a sampling bias, this should be assessed<br>and reported if material. |     | Not recorded. Core is reportedly available for inspection at Malawi<br>Geological Survey Head Office in Zomba.  |
| Sample security  | • | The measures taken to ensure sample security.   | • ( | Company staff collected all laboratory samples.<br>Contractors affiliated to the laboratory were used for the transport<br>of the samples to the lab. |
| Audits or reviews  |   | <ul> <li>The results of any audits or reviews of sampling techniques and data.</li> </ul>   | • 1 | No audit of data has been completed to date.  |



| Criteria   | JORC Code explanation  | Commentary   |
|--|--|--|
| <i>Mineral tenement and<br/>land tenure status</i> | <ul> <li>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.</li> <li>The security of the tenure held at the time of reporting along with any known impediments to obtaining a licence to operate in the area.</li> </ul> | <ul> <li>The Tundulu tenure is pending grant with the relevant government<br/>authorities and there are no known impediments to operation in<br/>the project area.</li> </ul>  |
| Exploration done by other parties                  | <ul> <li>Acknowledgment and appraisal of exploration by other parties.</li> </ul>  | <ul> <li>Historical exploration is known to have been conducted by JICA<br/>(Japanese International Cooperation Agency) from 1988-91. Full<br/>details are being researched.</li> <li>The Tundulu licence area was explored for REE during 2014/15.</li> </ul> |
|  |  | Most of the known exploration data has been obtained by DY6 however further review and investigation will be required.   |
|  |  | <ul> <li>Small scale phosphate mining was also undertaken by unknown parties in 2014.</li> </ul>   |
|  |  | <ul> <li>A full literature search continues to be undertaken by DY6 staff<br/>to acquire all relevant data.</li> </ul>   |

## Section 2 Reporting of Exploration Results

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

| Criteria | JORC Code explanation   | Commentary   |
|----------|---|--|
| Geology  | • Deposit type, geological setting and style of mineralisation. | <ul> <li>Tundulu is a carbonatite ring complex forming part of the Chilwa<br/>Alkaline Province in southern Malawi. The geological structure<br/>of the Tundulu Ring Complex comprises of three igneous<br/>centres. The first comprises a circular aureole of fenitization<br/>about a 2 km diameter plug of syenite. The second carbonatite<br/>ring structure centred on Nathace Hill has a diameter of 500-<br/>600m. Wrench faulting prior to emplacement of the third centre<br/>displaced the western half of the Nathace Hill ring structure<br/>250m to the north. The third centre comprises small plugs and<br/>thin sheets of meta-nephelinite and beforsite.</li> </ul> |



| Drill hole Information   | A summary of all information material to the<br>understanding of the exploration results including a<br>tabulation of the following information for all Material drill<br>holes: o easting and northing of the drill hole collar o<br>elevation or RL (Reduced Level – elevation above sea<br>level in metres) of the drill hole collar<br>o dip and azimuth of the hole o down hole length<br>and interception depth o hole length.<br>If the exclusion of this information is justified on the basis<br>that the information is not Material and this exclusion<br>does not detract from the understanding of the report, the<br>Competent Person should clearly explain why this is the<br>case. | • No recent drilling has been undertaken on the project since 2014 as reported in this announcement. |
|--|---|--|
| Data aggregation<br>methods  | In reporting Exploration Results, weighting averaging techniques, maximum and/or minimum grade truncations (eg cutting of high grades) and cut-off grades are usually Material and should be stated.  | <ul> <li>No aggregation methods were used and no metal equivalents are<br/>reported.</li> </ul>      |
|  | Where aggregate intercepts incorporate short lengths of<br>high-grade results and longer lengths of low-grade results,<br>the procedure used for such aggregation should be stated<br>and some typical examples of such aggregations should be<br>shown in detail.  |  |
|  | The assumptions used for any reporting of metal equivalent values should be clearly stated.   |  |
| Relationship between<br>mineralisation widths<br>and intercept lengths | 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 be reported.  | • No new mineralisation widths are being reported. Historical resu are included for context.         |



| Criteria                              | JORC Code explanation   | Commentary   |
|---------------------------------------|---|--|
|                                       | <ul> <li>If it is not known and only the down hole lengths are reported,<br/>there should be a clear statement to this effect (eg 'down hole<br/>length, true width not known').</li> </ul>   |  |
| Diagrams                              | <ul> <li>Appropriate maps and sections (with scales) and tabulations<br/>of intercepts should be included for any significant<br/>discovery being reported These should include, but not be<br/>limited to a plan view of drill hole collar locations and<br/>appropriate sectional views.</li> </ul>   | <ul> <li>Please see maps and diagrams included in the announcement<br/>text, that provide locations for the claims and their location<br/>relative to other projects in the area, with known geology from<br/>government mapping.</li> </ul>                 |
| Balanced reporting                    | <ul> <li>Where comprehensive reporting of all Exploration Results is<br/>not practicable, representative reporting of both low and<br/>high grades and/or widths should be<br/>practiced to avoid misleading reporting of Exploration<br/>Results.</li> </ul>   | • The release is considered to be balanced and is based on current available data for the project area   |
| Other substantive<br>exploration data | <ul> <li>Other exploration data, if meaningful and material, should be<br/>reported including (but not limited to): geological<br/>observations; geophysical survey results; geochemical<br/>survey results; bulk samples – size and method of<br/>treatment; metallurgical test results; bulk density,<br/>groundwater, geotechnical and rock characteristics;<br/>potential deleterious or contaminating substances.</li> </ul> | <ul> <li>The historical data currently available to the Company is known to be incomplete and requires further investigation.</li> <li>Attempts will be made to obtain and collate the full historical exploration data.</li> </ul>                          |
| Further work                          | The nature and scale of planned further work (e.g.<br>tests for lateral extensions or depth extensions or large-<br>scale step-out drilling).<br>Diagrams clearly highlighting the areas of possible<br>extensions, including the main geological interpretations<br>and future drilling areas, provided this information is not<br>commercially sensitive.   | <ul> <li>The Company intends to continue explore the tenements initially with a comprehensive grid-controlled rock chip sampling program and resampling of accessible old trenches.</li> <li>Historical data will be integrated after validation.</li> </ul> |