## 6.5km Rare Earth Channel Confirmed, Thickest Intercepts To-Date

* First pass drilling between Deep Leads and Rubble Mound Rare Earth discoveries confirms 6.5 km contiguous mineralised channel
* Exceptionally thick, shallow zone encountered with highlights including:

| Hole | From (m) | $\begin{aligned} & \text { To } \\ & \text { (m) } \end{aligned}$ | Metres (m) | Permanent <br> Magnet ${ }^{1}$ ppm | TREO ${ }^{2}$ avg ppm | TREO-CeO 2 ppm ${ }^{3}$ | TREO max ppm |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| RM217 | 2 | 23 | 21 | 149 | 564 | 475 | 2511 |
| Includes | 2 | 4 | 2 | 568 | 2092 | 1794 | 2511 |
| RM218 | 4 | 9 | 5 | 327 | 987 | 804 | 1524 |
| Includes | 6 | 9 | 3 | 463 | 1349 | 1099 | 1524 |
| RM220 | 1 | 5 | 4 | 183 | 1059 | 534 | 2347 |
| RM221 | 2 | 10 | 8 | 184 | 750 | 652 | 1556 |
| Includes | 4 | 8 | 4 | 286 | 1138 | 1030 | 1556 |
| RM222 | 2 | 15 | 13 | 137 | 621 | 451 | 993 |

1 Permanent Magnet $=$ the four high-value rare earth oxides: $\mathrm{Nd}_{2} \mathrm{O}_{3}+\mathrm{Pr}_{6} \mathrm{O}_{11}+\mathrm{Tb}_{4} \mathrm{O}_{7}+\mathrm{Dy}_{2} \mathrm{O}_{3}$ 2 Total rare earth oxides

3 TREO minus cerium oxide

* Connecting area increases potential for further mineralisation and also highlights opportunity to further extend the channel
* Results to feed into maiden JORC Resource Estimation which is underway
* Follow-up drilling campaign planned of $\sim 70$ holes anticipated to commence in October 2022

ABx Group Limited (ASX: ABX) ("ABx" or the "Company") is pleased to provide assay results which confirm a 6.5 km mineralised channel connecting the Company's Deep Leads and Rubble Mound rare earth discoveries, located in northern Tasmania.

The clay-hosted rare earth elements (REE) occur within a shallow channel structure that increases the prospect size by $27 \%$ to $5.1 \mathrm{~km}^{2}$ and demonstrates the potential for the mineralised zone to deliver thick intersections as well as expand significantly along strike (see Figure 1). The combined prospective area to be drill tested has increased to more than $30 \mathrm{~km}^{2}$ as shown in Figure 1.

## Commenting on the discovery, ABx Group MD and CEO Dr Mark Cooksey said:

"Our latest results represent a milestone moment in our development of the rare earth channel at Deep Leads and Rubble Mound. The extensive channel structure has connected and combined the two discoveries into a single deposit and, excitingly, the mineralisation has also been shown to return results which are thick - exceeding 20 metres thickness - and near surface.
"These are only first-pass results, with this emerging discovery possessing clear potential to significantly expand the mineralised corridor between the connected areas as well as along strike.
"The assays confirm the rare earth oxides encountered are rich in the four high-value 'permanent magnet' elements that are critical for advanced technologies, such as electric vehicles, smart phones and wind turbines.
"Furthermore, not all clay-hosted rare earths are created equal. Only those clay deposits formed by ionic adsorption of REE metals onto clays (IAC REE) achieve high extraction rates at low cost and are the most sought-after deposits. ABx Group has confirmed Deep Leads possesses these ionic adsorption clays and has successfully delivered extraction rates of $50 \%$ to $75 \%$ of contained REE using benign, low-cost processing techniques ${ }^{1}$. ABx is the first to discover true IAC REE in Tasmania."


Figure 1:6.5km long mineralised channel at Deep Leads-Rubble Mound REE discovery

While the Company's modelling had suggested the discoveries at Deep Leads and Rubble Mound are connected along a southeast trending channel, the results from holes RM217225 provide confirmation of this interpretation.

[^0]Assay results confirm the adjoining mineralisation contains excellent grades, with holes such as RM217 returning a maximum of 2511 ppm of total rare earth oxide (TREO). This hole has also proven that the channel can host thicker intercepts, in this case to a depth of over 20 metres. Further work will be required to assess the size and depth potential of this connected area.

To date, rare earths encountered have typically been concentrated in buried channel structures of 6-12m depth. However, the latest results demonstrate the region's capacity to host even shallower mineralisation, with RM219 recording a 1 m assay grading 1884ppm TREO at surface.

These results will feed into a maiden JORC Resource Estimation, which is already underway.

## Upcoming drilling campaign

The receipt of the Company's latest assay results has increased ABx's confidence in its geological interpretation and will inform targeting work for an upcoming drilling program, anticipated to commence in October 2022.

The campaign is pending government approvals with most proposed drill site locations already falling under a previously approved work program.

During this campaign, ABx intends to complete approximately 70 drill holes with much of this work focussed on stepping out from the known northwest trending channel. The company will also test in-fill targets between Deep Leads and Rubble Mound, as well as inspect a new style of REE mineralisation encountered in alluvial flats to the south of the project ${ }^{2}$.


Figure 2: Tasmania's eDrill drilling contractors on site at Deep Leads, led by ABx Group Operations Manager Nathan Towns

[^1]ABxGroup
This announcement is approved for release by the board of directors.

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## Glossary of technical terms

Rare earth elements: (REE) are lanthanum (La), cerium (Ce), praseodymium (Pr), neodymium (Nd), promethium (Pm), samarium (Sm), europium (Eu), gadolinium (Gd), terbium (Tb), dysprosium (Dy), holmium (Ho), erbium (Er), thulium (Tm), ytterbium (Yb) and lutetium (Lu). Yttrium (Y) is also typically grouped with the REE.

TREO: is total rare earth element oxides in the sample, with the REE metals expressed as rare earth element oxides, which is a common method for summarising the total grade.

TREO-CeO 2 : are TREO minus the amount of cerium oxide in the sample. $\mathrm{CeO}_{2}$ is relatively low in value.
ppm: is parts per million by mass, which is the standard unit for reporting REE grades. $10,000 \mathrm{ppm}=$ 1.0\%.

Permanent magnets: are used in electronic and computing equipment, batteries, electric vehicles, wind turbines, mobile phones and military systems. Nd \& Pr are used in high-power permanent magnets. Dy, Sm \& Tb are used in high-temperature permanent magnets. Some reporters called them "Super Magnet" REE.

Ionic adsorption clay (IAC) REE: In contrast with hard-rock REE ores, ionic adsorption clay REE mineralisation forms when REE attach loosely to clays and can be recovered by low-cost leaching methods. IAC REE deposits have been mined in southern China and Myanmar. ABx is one of the very few listed companies to discover true IAC REE mineralisation in Australia.

Extraction rates from desorption tests: To assess the potential of extracting REEs from these prospects, tests carried out by ANSTO in Sydney, which has extensive experience in metallurgical testing of clayhosted rare earth deposits worldwide, were conducted at "standard" desorption conditions of 0.5 M ammonium sulfate at pH 4 which are low-acid, low-cost processing conditions for ionic adsorption clay REE.

The "extraction rate" is the proportion of REE contained in the sample that is extracted and reports to the leach solution. Very few other REE occurrences in Australia have achieved extraction rates that have been achieved on ABx's REE mineralisation in the channels at the Deep Leads project area in northern Tasmania.

## Qualifying statements

General: The information in this report that relates to Exploration Information is based on information compiled by lan Levy who is a member of The Australasian Institute of Mining and Metallurgy and the Australian Institute of Geoscientists. Mr Levy is a qualified geologist and is a director of $A B x$ Group Limited.

The information relating to Exploration Information and Mineral Resources in Tasmania has been prepared or updated under the JORC Code 2012. Mr Levy has sufficient experience, which is 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 Australasian Code for Reporting of Exploration Results, Mineral Resources and Ore Reserves.

Mr Levy has consented in writing to the inclusion in this report of the Exploration Information in the form and context in which it appears.

Table 2: Full REE results from new holes at Deep Leads \& Rubble Mound

|  |  |  |  |  |  |  |  |  |  |  | Permanent Magnet REE "SuperMags" |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Hole | $\left.\begin{gathered} \text { From } \\ (\mathrm{m}) \end{gathered} \right\rvert\,$ | $\begin{aligned} & \text { To } \\ & \text { (m) } \end{aligned}$ | $\begin{gathered} \text { Metres } \\ (\mathrm{m}) \end{gathered}$ | East | North | RL | Permanent Mag ppm | TREO <br> avg ppm | TREO- <br> $\mathrm{CeO}_{2}$ <br> ppm | TREO <br> max ppm | $\begin{gathered} \mathrm{Nd}_{2} \mathrm{O}_{3} \\ \mathrm{ppm} \end{gathered}$ | $\begin{gathered} \mathrm{Pr}_{6} \mathrm{O}_{11} \\ \mathrm{ppm} \end{gathered}$ | $\begin{aligned} & \mathrm{Tb}_{4} \mathrm{O}_{7} \\ & \mathrm{ppm} \end{aligned}$ | $\begin{gathered} \mathrm{Dy}_{2} \mathrm{O}_{3} \\ \mathrm{ppm} \end{gathered}$ | $\begin{aligned} & \mathrm{CeO}_{2} \\ & \mathrm{ppm} \end{aligned}$ | $\begin{gathered} \mathrm{Er}_{2} \mathrm{O}_{3} \\ \mathrm{ppm} \end{gathered}$ | $\begin{aligned} & \mathrm{Eu}_{2} \mathrm{O}_{3} \\ & \mathrm{ppm} \end{aligned}$ | $\begin{gathered} \mathrm{Gd}_{2} \mathrm{O}_{3} \\ \mathrm{ppm} \end{gathered}$ | $\begin{gathered} \mathrm{Ho}_{2} \mathrm{O}_{3} \\ \mathrm{ppm} \end{gathered}$ | $\begin{gathered} \mathrm{La}_{2} \mathrm{O}_{3} \\ \mathrm{ppm} \end{gathered}$ | $\begin{aligned} & \mathrm{Lu}_{2} \mathrm{O}_{3} \\ & \mathrm{ppm} \end{aligned}$ | $\begin{gathered} \mathrm{Sm}_{2} \mathrm{O}_{3} \\ \mathrm{ppm} \end{gathered}$ | $\left\|\begin{array}{c} \mathrm{Tm}_{2} \mathrm{O}_{3} \\ \mathrm{ppm} \end{array}\right\|$ | $\begin{aligned} & \mathrm{Yb}_{2} \mathrm{O}_{3} \\ & \mathrm{ppm} \end{aligned}$ | $\begin{aligned} & \mathrm{Y}_{2} \mathrm{O}_{3} \\ & \mathrm{ppm} \end{aligned}$ |
| RM216 | 1 | 2 | 1 | 480271 | 5407734 | 298.9 | 15 | 75 | 47 | 75 | 10 | 3 | 0.3 | 1.9 | 27 | 1 | 0 | 2 | 0 | 12 | 0 | 2 | 0 | 1 | 13 |
| RM217 | 2 | 3 | 1 | 480557 | 5407867 | 290.9 | 456 | 1672 | 1390 | 1672 | 300 | 74 | 11.9 | 70.0 | 281 | 36 | 16 | 74 | 14 | 320 | 4 | 64 | 5 | 31 | 370 |
| RM217 | 3 | 4 | 1 | 480557 | 5407867 | 290.9 | 680 | 2511 | 2198 | 2511 | 444 | 109 | 18.1 | 108.8 | 313 | 62 | 23 | 110 | 22 | 433 | 8 | 96 | 8 | 50 | 706 |
| RM217 | 4 | 5 | 1 | 480557 | 5407867 | 290.9 | 94 | 471 | 387 | 471 | 57 | 13 | 3.2 | 21.2 | 84 | 14 | 3 | 18 | 5 | 75 | 2 | 13 | 2 | 13 | 149 |
| RM217 | 5 | 6 | 1 | 480557 | 5407867 | 290.9 | 63 | 447 | 320 | 447 | 36 | 9 | 2.3 | 16.0 | 127 | 13 | 2 | 12 | 4 | 46 | 2 | 10 | 2 | 12 | 154 |
| RM217 | 6 | 7 | 1 | 480557 | 5407867 | 290.9 | 46 | 233 | 172 | 233 | 27 | 7 | 1.5 | 10.5 | 62 | 8 | 2 | 8 | 2 | 26 | 2 | 7 | 1 | 9 | 61 |
| RM217 | 7 | 8 | 1 | 480557 | 5407867 | 290.9 | 135 | 421 | 394 | 421 | 87 | 22 | 3.7 | 22.7 | 28 | 13 | 5 | 22 | 4 | 69 | 2 | 21 | 2 | 13 | 108 |
| RM217 | 8 | 9 | 1 | 480557 | 5407867 | 290.9 | 80 | 303 | 264 | 303 | 49 | 12 | 2.4 | 15.8 | 39 | 10 | 3 | 13 | 3 | 44 | 2 | 12 | 2 | 11 | 85 |
| RM217 | 9 | 10 | 1 | 480557 | 5407867 | 290.9 | 28 | 109 | 95 | 109 | 16 | 4 | 0.9 | 6.8 | 14 | 5 | 1 | 4 | 1 | 13 | 1 | 4 | 1 | 7 | 29 |
| RM217 | 10 | 11 | 1 | 480557 | 5407867 | 290.9 | 399 | 933 | 858 | 933 | 282 | 74 | 6.7 | 35.8 | 75 | 16 | 13 | 42 | 6 | 185 | 2 | 62 | 2 | 15 | 115 |
| RM217 | 11 | 12 | 1 | 480557 | 5407867 | 290.9 | 259 | 847 | 743 | 847 | 170 | 42 | 6.7 | 40.6 | 104 | 24 | 9 | 39 | 8 | 139 | 3 | 38 | 3 | 21 | 200 |
| RM217 | 12 | 13 | 1 | 480557 | 5407867 | 290.9 | 205 | 740 | 662 | 740 | 137 | 33 | 5.1 | 29.6 | 78 | 16 | 7 | 33 | 6 | 162 | 2 | 27 | 2 | 14 | 188 |
| RM217 | 13 | 14 | 1 | 480557 | 5407867 | 290.9 | 89 | 421 | 327 | 421 | 54 | 13 | 2.8 | 18.9 | 94 | 13 | 3 | 16 | 4 | 52 | 2 | 13 | 2 | 11 | 124 |
| RM217 | 14 | 15 | 1 | 480557 | 5407867 | 290.9 | 82 | 431 | 339 | 431 | 49 | 12 | 2.7 | 18.9 | 92 | 14 | 3 | 15 | 4 | 47 | 2 | 11 | 2 | 12 | 146 |
| RM217 | 15 | 16 | 1 | 480557 | 5407867 | 290.9 | 123 | 459 | 380 | 459 | 80 | 20 | 3.2 | 18.9 | 79 | 12 | 4 | 19 | 4 | 73 | 2 | 18 | 2 | 10 | 116 |
| RM217 | 16 | 17 | 1 | 480557 | 5407867 | 290.9 | 94 | 348 | 281 | 348 | 63 | 16 | 2.3 | 13.7 | 67 | 8 | 3 | 14 | 3 | 58 | 1 | 13 | 1 | 7 | 78 |
| RM217 | 17 | 18 | 1 | 480557 | 5407867 | 290.9 | 35 | 156 | 117 | 156 | 22 | 5 | 0.9 | 6.0 | 39 | 4 | 1 | 6 | 1 | 21 | 1 | 5 | 1 | 4 | 39 |
| RM217 | 18 | 19 | 1 | 480557 | 5407867 | 290.9 | 46 | 212 | 161 | 212 | 29 | 8 | 1.3 | 8.0 | 51 | 5 | 2 | 8 | 2 | 30 | 1 | 7 | 1 | 5 | 55 |
| RM217 | 19 | 20 | 1 | 480557 | 5407867 | 290.9 | 45 | 217 | 158 | 217 | 29 | 7 | 1.2 | 7.6 | 59 | 5 | 2 | 7 | 2 | 29 | 1 | 7 | 1 | 5 | 55 |
| RM217 | 20 | 21 | 1 | 480557 | 5407867 | 290.9 | 56 | 257 | 183 | 257 | 37 | 9 | 1.5 | 9.4 | 74 | 6 | 2 | 9 | 2 | 35 | 1 | 8 | 1 | 5 | 58 |
| RM217 | 21 | 22 | 1 | 480557 | 5407867 | 290.9 | 55 | 410 | 355 | 410 | 25 | 6 | 2.4 | 20.8 | 55 | 20 | 2 | 10 | 6 | 23 | 4 | 7 | 3 | 21 | 205 |
| RM217 | 22 | 23 | 1 | 480557 | 5407867 | 290.9 | 52 | 251 | 195 | 251 | 32 | 8 | 1.6 | 10.2 | 55 | 8 | 2 | 8 | 2 | 30 | 1 | 7 | 1 | 8 | 76 |
| RM218 | 3 | 4 | 1 | 480766 | 5407707 | 287.0 | 45 | 179 | 140 | 179 | 30 | 8 | 1.0 | 6.0 | 39 | 4 | 2 | 6 | 1 | 31 | 1 | 6 | 1 | 4 | 40 |
| RM218 | 4 | 5 | 1 | 480766 | 5407707 | 287.0 | 81 | 311 | 253 | 311 | 54 | 14 | 1.9 | 11.9 | 58 | 8 | 3 | 11 | 3 | 53 | 1 | 11 | 1 | 8 | 73 |
| RM218 | 5 | 6 | 1 | 480766 | 5407707 | 287.0 | 162 | 575 | 468 | 575 | 108 | 28 | 3.7 | 22.8 | 107 | 14 | 6 | 22 | 5 | 92 | 2 | 23 | 2 | 14 | 128 |
| RM218 | 6 | 7 | 1 | 480766 | 5407707 | 287.0 | 388 | 1266 | 1021 | 1266 | 267 | 73 | 7.1 | 40.4 | 245 | 24 | 13 | 42 | 8 | 226 | 3 | 56 | 3 | 23 | 236 |
| RM218 | 7 | 8 | 1 | 480766 | 5407707 | 287.0 | 554 | 1524 | 1247 | 1524 | 390 | 108 | 8.7 | 47.3 | 276 | 23 | 18 | 52 | 8 | 289 | 4 | 83 | 3 | 24 | 189 |
| RM218 | 8 | 9 | 1 | 480766 | 5407707 | 287.0 | 448 | 1258 | 1029 | 1258 | 315 | 87 | 7.3 | 39.7 | 228 | 20 | 15 | 43 | 7 | 238 | 3 | 67 | 3 | 20 | 165 |
| RM219 | 0 | 1 | 1 | 481291 | 5407583 | 268.0 | 689 | 1884 | 1510 | 1884 | 485 | 138 | 10.4 | 55.4 | 373 | 27 | 22 | 64 | 10 | 354 | 4 | 103 | 4 | 26 | 206 |
| RM220 | 1 | 2 | 1 | 481653 | 5407402 | 268.6 | 158 | 540 | 447 | 540 | 108 | 28 | 3.1 | 19.3 | 92 | 11 | 5 | 19 | 4 | 102 | 2 | 22 | 2 | 10 | 113 |
| RM220 | 2 | 3 | 1 | 481653 | 5407402 | 268.6 | 132 | 452 | 388 | 452 | 89 | 22 | 2.9 | 18.0 | 64 | 10 | 5 | 17 | 4 | 82 | 2 | 19 | 2 | 10 | 105 |
| RM220 | 3 | 4 | 1 | 481653 | 5407402 | 268.6 | 227 | 2347 | 670 | 2347 | 152 | 39 | 5.2 | 31.1 | 1677 | 19 | 8 | 31 | 6 | 140 | 3 | 32 | 3 | 18 | 184 |
| RM220 | 4 | 5 | 1 | 481653 | 5407402 | 268.6 | 215 | 896 | 630 | 896 | 144 | 37 | 5.0 | 29.8 | 267 | 17 | 8 | 29 | 6 | 121 | 3 | 33 | 2 | 16 | 178 |
| RM221 | 2 | 3 | 1 | 481738 | 5407716 | 246.0 | 86 | 385 | 270 | 385 | 56 | 14 | 2.2 | 13.4 | 116 | 8 | 3 | 12 | 3 | 56 | 1 | 13 | 1 | 8 | 78 |
| RM221 | 3 | 4 | 1 | 481738 | 5407716 | 246.0 | 101 | 444 | 307 | 444 | 65 | 16 | 2.7 | 17.0 | 137 | 9 | 4 | 15 | 3 | 59 | 1 | 16 | 1 | 10 | 87 |
| RM221 | 4 | 5 | 1 | 481738 | 5407716 | 246.0 | 283 | 888 | 748 | 888 | 194 | 49 | 6.1 | 34.7 | 141 | 18 | 11 | 38 | 6 | 163 | 2 | 43 | 3 | 16 | 164 |
| RM221 | 5 | 6 | 1 | 481738 | 5407716 | 246.0 | 383 | 1165 | 1027 | 1165 | 264 | 66 | 8.3 | 45.2 | 138 | 22 | 15 | 53 | 8 | 254 | 3 | 56 | 3 | 19 | 211 |
| RM221 | 6 | 7 | 1 | 481738 | 5407716 | 246.0 | 266 | 1556 | 1493 | 1556 | 141 | 33 | 11.9 | 80.1 | 64 | 57 | 11 | 66 | 19 | 153 | 7 | 38 | 7 | 41 | 828 |
| RM221 | 7 | 8 | 1 | 481738 | 5407716 | 246.0 | 213 | 944 | 851 | 944 | 132 | 32 | 6.8 | 42.5 | 93 | 28 | 8 | 39 | 9 | 125 | 3 | 31 | 4 | 21 | 368 |
| RM221 | 8 | 9 | 1 | 481738 | 5407716 | 246.0 | 86 | 353 | 303 | 353 | 56 | 14 | 2.3 | 13.8 | 49 | 9 | 4 | 14 | 3 | 61 | 1 | 12 | 1 | 7 | 107 |
| RM221 | 9 | 10 | 1 | 481738 | 5407716 | 246.0 | 56 | 262 | 216 | 262 | 36 | 8 | 1.5 | 9.8 | 46 | 6 | 2 | 10 | 2 | 43 | 1 | 8 | 1 | 5 | 82 |
| RM222 | 2 | 3 | 1 | 480381 | 5407981 | 286.3 | 179 | 730 | 578 | 730 | 116 | 28 | 4.7 | 29.7 | 152 | 19 | 7 | 28 | 6 | 101 | 3 | 26 | 3 | 16 | 190 |
| RM222 | 3 | 4 | 1 | 480381 | 5407981 | 286.3 | 203 | 812 | 624 | 812 | 135 | 34 | 4.8 | 28.9 | 188 | 18 | 8 | 29 | 6 | 118 | 3 | 31 | 3 | 16 | 189 |
| RM222 | 4 | 5 | 1 | 480381 | 5407981 | 286.3 | 243 | 993 | 690 | 993 | 165 | 42 | 5.4 | 31.3 | 302 | 17 | 9 | 34 | 6 | 144 | 2 | 37 | 2 | 16 | 178 |
| RM222 | 5 | 6 | 1 | 480381 | 5407981 | 286.3 | 232 | 957 | 689 | 957 | 156 | 39 | 5.5 | 31.8 | 268 | 18 | 9 | 34 | 6 | 141 | 3 | 35 | 3 | 16 | 191 |
| RM222 | 6 | 7 | 1 | 480381 | 5407981 | 286.3 | 140 | 675 | 511 | 675 | 87 | 20 | 4.3 | 28.1 | 163 | 18 | 6 | 25 | 6 | 81 | 3 | 20 | 3 | 16 | 195 |
| RM222 | 7 | 8 | 1 | 480381 | 5407981 | 286.3 | 169 | 713 | 566 | 713 | 109 | 26 | 4.8 | 29.7 | 147 | 18 | 7 | 29 | 6 | 97 | 2 | 25 | 3 | 16 | 195 |
| RM222 | 8 | 9 | 1 | 480381 | 5407981 | 286.3 | 135 | 648 | 468 | 648 | 87 | 20 | 4.0 | 23.8 | 180 | 15 | 6 | 24 | 5 | 83 | 2 | 20 | 2 | 12 | 164 |
| RM222 | 9 | 10 | 1 | 480381 | 5407981 | 286.3 | 92 | 515 | 331 | 515 | 59 | 14 | 2.8 | 16.6 | 184 | 11 | 4 | 16 | 4 | 55 | 2 | 14 | 2 | 10 | 122 |
| RM222 | 10 | 11 | 1 | 480381 | 5407981 | 286.3 | 104 | 549 | 370 | 549 | 66 | 15 | 3.1 | 19.3 | 179 | 12 | 4 | 19 | 4 | 60 | 2 | 16 | 2 | 11 | 137 |
| RM222 | 11 | 12 | 1 | 480381 | 5407981 | 286.3 | 110 | 527 | 379 | 527 | 70 | 17 | 3.2 | 19.6 | 148 | 13 | 5 | 19 | 4 | 62 | 2 | 16 | 2 | 11 | 136 |
| RM222 | 12 | 13 | 1 | 480381 | 5407981 | 286.3 | 61 | 331 | 234 | 331 | 37 | 9 | 2.0 | 13.6 | 98 | 9 | 3 | 12 | 3 | 34 | 1 | 10 | 1 | 8 | 93 |
| RM222 | 13 | 14 | 1 | 480381 | 5407981 | 286.3 | 45 | 269 | 183 | 269 | 26 | 6 | 1.7 | 11.5 | 86 | 8 | 2 | 9 | 2 | 23 | 1 | 7 | 1 | 7 | 77 |
| RM222 | 14 | 15 | 1 | 480381 | 5407981 | 286.3 | 67 | 358 | 243 | 358 | 41 | 10 | 2.2 | 13.7 | 115 | 9 | 3 | 12 | 3 | 37 | 1 | 10 | 1 | 8 | 92 |
| RM222 | 15 | 16 | 1 | 480381 | 5407981 | 286.3 | 40 | 207 | 156 | 207 | 24 | 6 | 1.4 | 9.3 | 51 | 6 | 2 | 8 | 2 | 22 | 1 | 6 | 1 | 6 | 63 |

Table 2 continued: Full REE results from new holes at Deep Leads \& Rubble Mound

|  |  |  |  |  |  |  |  |  |  |  | Permanent Magnet REE "SuperMags" |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Hole | From (m) | $\begin{aligned} & \text { To } \\ & \text { (m) } \end{aligned}$ | Metres (m) | East | North | RL | Permanent Mag ppm | TREO <br> avg ppm | TREO- <br> $\mathrm{CeO}_{2}$ <br> ppm | TREO <br> max <br> ppm | $\begin{gathered} \mathrm{Nd}_{2} \mathrm{O}_{3} \\ \mathrm{ppm} \end{gathered}$ | $\begin{gathered} \mathrm{Pr}_{6} \mathrm{O}_{11} \\ \mathrm{ppm} \end{gathered}$ | $\begin{aligned} & \mathrm{Tb}_{4} \mathrm{O}_{7} \\ & \mathrm{ppm} \end{aligned}$ | $\begin{gathered} \mathrm{Dy}_{2} \mathrm{O}_{3} \\ \mathrm{ppm} \end{gathered}$ | $\begin{aligned} & \mathrm{CeO}_{2} \\ & \mathrm{ppm} \end{aligned}$ | $\begin{aligned} & \mathrm{Er}_{2} \mathrm{O}_{3} \\ & \mathrm{ppm} \end{aligned}$ | $\begin{gathered} \mathrm{Eu}_{2} \mathrm{O}_{3} \\ \mathrm{ppm} \end{gathered}$ | $\begin{gathered} \mathrm{Gd}_{2} \mathrm{O}_{3} \\ \mathrm{ppm} \end{gathered}$ | $\begin{gathered} \mathrm{Ho}_{2} \mathrm{O}_{3} \\ \mathrm{ppm} \end{gathered}$ | $\begin{gathered} \mathrm{La}_{2} \mathrm{O}_{3} \\ \mathrm{ppm} \end{gathered}$ | $\begin{aligned} & \mathrm{Lu}_{2} \mathrm{O}_{3} \\ & \mathrm{ppm} \end{aligned}$ | $\begin{gathered} \mathrm{Sm}_{2} \mathrm{O}_{3} \\ \mathrm{ppm} \end{gathered}$ | $\begin{gathered} \mathrm{Tm}_{2} \mathrm{O}_{3} \\ \mathrm{ppm} \end{gathered}$ | $\begin{gathered} \mathrm{Yb}_{2} \mathrm{O}_{3} \\ \mathrm{ppm} \end{gathered}$ | $\begin{aligned} & \mathrm{Y}_{2} \mathrm{O}_{3} \\ & \mathrm{ppm} \end{aligned}$ |
| RM223 | 2 | 3 | 1 | 480595 | 5407063 | 239.7 | 37 | 149 | 118 | 149 | 24 | 5 | 1.1 | 6.7 | 30 | 4 | 2 | 7 | 1 | 20 | 1 | 6 | 1 | 4 | 36 |
| RM223 | 3 | 4 | 1 | 480595 | 5407063 | 239.7 | 33 | 138 | 108 | 138 | 21 | 5 | 1.0 | 6.2 | 31 | 4 | 2 | 6 | 1 | 18 | 1 | 5 | 1 | 3 | 34 |
| RM223 | 4 | 5 | 1 | 480595 | 5407063 | 239.7 | 29 | 121 | 94 | 121 | 19 | 4 | 0.8 | 5.3 | 27 | 3 | 1 | 5 | 1 | 16 | 0 | 4 | 0 | 3 | 31 |
| RM223 | 5 | 6 | 1 | 480595 | 5407063 | 239.7 | 25 | 111 | 85 | 111 | 16 | 4 | 0.8 | 4.6 | 25 | 3 | 1 | 4 | 1 | 14 | 0 | 4 | 0 | 3 | 29 |
| RM223 | 6 | 7 | 1 | 480595 | 5407063 | 239.7 | 20 | 96 | 73 | 96 | 13 | 3 | 0.6 | 3.8 | 23 | 3 | 1 | 4 | 1 | 12 | 0 | 3 | 0 | 2 | 26 |
| RM223 | 7 | 8 | 1 | 480595 | 5407063 | 239.7 | 20 | 91 | 67 | 91 | 12 | 3 | 0.6 | 3.6 | 24 | 2 | 1 | 3 | 1 | 11 | 0 | 3 | 0 | 2 | 23 |
| RM223 | 8 | 9 | 1 | 480595 | 5407063 | 239.7 | 21 | 98 | 72 | 98 | 13 | 3 | 0.6 | 3.9 | 26 | 3 | 1 | 4 | 1 | 12 | 0 | 3 | 0 | 2 | 26 |
| RM223 | 9 | 10 | 1 | 480595 | 5407063 | 239.7 | 23 | 104 | 77 | 104 | 14 | 4 | 0.6 | 4.0 | 26 | 3 | 1 | 4 | 1 | 13 | 0 | 3 | 0 | 3 | 27 |
| RM223 | 10 | 11 | 1 | 480595 | 5407063 | 239.7 | 17 | 81 | 62 | 81 | 11 | 3 | 0.5 | 3.4 | 18 | 2 | 1 | 3 | 1 | 9 | 0 | 3 | 0 | 2 | 24 |
| RM224 | 1 | 2 | 1 | 480582 | 5406744 | 236.5 | 26 | 113 | 86 | 113 | 16 | 4 | 0.7 | 4.6 | 28 | 3 | 1 | 4 | 1 | 15 | 0 | 4 | 0 | 3 | 29 |
| RM224 | 2 | 3 | 1 | 480582 | 5406744 | 236.5 | 29 | 128 | 95 | 128 | 18 | 4 | 0.8 | 5.2 | 33 | 3 | 1 | 4 | 1 | 15 | 1 | 4 | 1 | 3 | 32 |
| RM224 | 4 | 5 | 1 | 480582 | 5406744 | 236.5 | 16 | 75 | 55 | 75 | 10 | 2 | 0.5 | 2.9 | 20 | 2 | 1 | 3 | 1 | 8 | 0 | 3 | 0 | 2 | 20 |
| RM224 | 5 | 6 | 1 | 480582 | 5406744 | 236.5 | 16 | 73 | 55 | 73 | 10 | 2 | 0.5 | 3.0 | 18 | 2 | 1 | 3 | 1 | 8 | 0 | 2 | 0 | 2 | 20 |
| RM225 | 1 | 2 | 1 | 480243 | 5407427 | 291.0 | 11 | 391 | 34 | 391 | 7 | 2 | 0.3 | 1.8 | 357 | 1 | 0 | 2 | 0 | 6 | 0 | 2 | 0 | 1 | 10 |
| RM225 | 2 | 3 | 1 | 480243 | 5407427 | 291.0 | 19 | 629 | 60 | 629 | 12 | 3 | 0.5 | 3.5 | 569 | 2 | 1 | 3 | 1 | 11 | 0 | 3 | 0 | 2 | 18 |
| RM226 | 2 | 3 | 1 | 479953 | 5406857 | 312.1 | 58 | 248 | 178 | 248 | 38 | 9 | 1.5 | 9.2 | 70 | 6 | 2 | 8 | 2 | 33 | 1 | 8 | 1 | 6 | 53 |
| RM226 | 3 | 4 | 1 | 479953 | 5406857 | 312.1 | 46 | 197 | 143 | 197 | 30 | 7 | 1.1 | 7.3 | 55 | 5 | 2 | 7 | 2 | 26 | 1 | 7 | 1 | 5 | 43 |
| RM226 | 4 | 5 | 1 | 479953 | 5406857 | 312.1 | 56 | 240 | 169 | 240 | 36 | 9 | 1.5 | 9.2 | 71 | 6 | 2 | 8 | 2 | 30 | 1 | 8 | 1 | 6 | 49 |
| RM226 | 5 | 6 | 1 | 479953 | 5406857 | 312.1 | 70 | 281 | 212 | 281 | 46 | 11 | 1.8 | 11.7 | 68 | 7 | 3 | 10 | 2 | 38 | 1 | 11 | 1 | 7 | 62 |
| RM226 | 6 | 7 | 1 | 479953 | 5406857 | 312.1 | 100 | 402 | 308 | 402 | 65 | 16 | 2.6 | 16.6 | 94 | 10 | 4 | 15 | 3 | 56 | 1 | 15 | 2 | 10 | 92 |
| RM226 | 7 | 8 | 1 | 479953 | 5406857 | 312.1 | 185 | 626 | 560 | 626 | 122 | 30 | 4.5 | 28.5 | 66 | 18 | 7 | 26 | 6 | 105 | 2 | 27 | 3 | 16 | 164 |
| RM226 | 8 | 9 | 1 | 479953 | 5406857 | 312.1 | 418 | 1438 | 1322 | 1438 | 275 | 69 | 10.1 | 63.8 | 116 | 41 | 17 | 62 | 14 | 257 | 5 | 60 | 6 | 34 | 409 |
| RM226 | 9 | 10 | 1 | 479953 | 5406857 | 312.1 | 294 | 978 | 923 | 978 | 198 | 48 | 6.9 | 40.1 | 55 | 25 | 12 | 44 | 8 | 206 | 3 | 42 | 3 | 20 | 267 |
| RM226 | 10 | 11 | 1 | 479953 | 5406857 | 312.1 | 198 | 713 | 659 | 713 | 129 | 31 | 5.1 | 32.0 | 54 | 20 | 8 | 32 | 7 | 133 | 3 | 30 | 3 | 17 | 210 |
| RM226 | 11 | 12 | 1 | 479953 | 5406857 | 312.1 | 197 | 733 | 694 | 733 | 130 | 31 | 5.3 | 31.6 | 39 | 20 | 8 | 35 | 7 | 150 | 2 | 28 | 3 | 15 | 230 |
| RM226 | 12 | 13 | 1 | 479953 | 5406857 | 312.1 | 121 | 456 | 412 | 456 | 79 | 19 | 3.4 | 20.5 | 44 | 13 | 5 | 21 | 4 | 79 | 2 | 17 | 2 | 11 | 139 |
| RM226 | 13 | 14 | 1 | 479953 | 5406857 | 312.1 | 112 | 428 | 385 | 428 | 73 | 18 | 3.0 | 18.2 | 43 | 11 | 4 | 18 | 4 | 75 | 2 | 16 | 2 | 10 | 131 |
| RM226 | 14 | 15 | 1 | 479953 | 5406857 | 312.1 | 32 | 158 | 133 | 158 | 20 | 5 | 1.0 | 6.2 | 25 | 4 | 1 | 6 | 1 | 25 | 1 | 5 | 1 | 3 | 53 |
| RM226 | 15 | 16 | 1 | 479953 | 5406857 | 312.1 | 117 | 449 | 411 | 449 | 75 | 19 | 3.2 | 20.4 | 38 | 13 | 5 | 19 | 4 | 74 | 2 | 17 | 2 | 11 | 146 |
| RM227 | 1 | 2 | 1 | 479036 | 5406739 | 214.5 | 61 | 246 | 220 | 246 | 39 | 10 | 1.7 | 10.8 | 26 | 7 | 2 | 11 | 2 | 42 | 1 | 8 | 1 | 5 | 79 |
| RM227 | 2 | 3 | 1 | 479036 | 5406739 | 214.5 | 59 | 233 | 208 | 233 | 38 | 9 | 1.6 | 10.1 | 25 | 6 | 2 | 10 | 2 | 39 | 1 | 8 | 1 | 6 | 72 |
| RM227 | 8 | 9 | 1 | 479036 | 5406739 | 214.5 | 33 | 149 | 98 | 149 | 21 | 5 | 0.8 | 4.8 | 51 | 3 | 1 | 5 | 1 | 21 | 0 | 5 | 0 | 3 | 26 |
| RM227 | 11 | 12 | 1 | 479036 | 5406739 | 214.5 | 15 | 88 | 59 | 88 | 9 | 2 | 0.5 | 3.3 | 29 | 2 | 1 | 3 | 1 | 11 | 0 | 2 | 0 | 2 | 21 |
| RM227 | 12 | 13 | 1 | 479036 | 5406739 | 214.5 | 19 | 85 | 62 | 85 | 12 | 3 | 0.5 | 3.2 | 23 | 2 | 1 | 3 | 1 | 12 | 0 | 3 | 0 | 2 | 20 |
| RM227 | 13 | 14 | 1 | 479036 | 5406739 | 214.5 | 20 | 86 | 62 | 86 | 13 | 3 | 0.5 | 3.1 | 24 | 2 | 1 | 3 | 1 | 12 | 0 | 3 | 0 | 2 | 19 |
| RM227 | 14 | 15 | 1 | 479036 | 5406739 | 214.5 | 10 | 44 | 32 | 44 | 6 | 2 | 0.2 | 1.5 | 12 | 1 | 0 | 1 | 0 | 7 | 0 | 1 | 0 | 1 | 10 |
| RM228 | 1 | 2 | 1 | 479561 | 5406415 | 168.2 | 31 | 134 | 108 | 134 | 20 | 5 | 0.8 | 5.1 | 26 | 3 | 1 | 5 | 1 | 22 | 0 | 5 | 0 | 3 | 36 |
| RM228 | 3 | 4 | 1 | 479561 | 5406415 | 168.2 | 32 | 167 | 98 | 167 | 20 | 5 | 0.9 | 5.4 | 70 | 3 | 1 | 5 | 1 | 17 | 1 | 4 | 1 | 3 | 30 |

## 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 techniques | - Nature and quality of sampling (eg cut channels, random chips, or specific specialised industry standard measurement tools appropriate to the minerals under investigation, such as down hole gamma sondes, or handheld XRF instruments, etc). These examples should not be taken as limiting the broad meaning of sampling. <br> - Include reference to measures taken to ensure sample representivity and the appropriate calibration <br> - Aspects of the determination of mineralisation that are Material to the Public Report. <br> - In cases where 'industry standard' work has been done this would be relatively simple (eg 'reverse circulation drilin pulverised to produce a 30 g charge for fire assay'). In other cases more explanation may be required, such as wher Unusual commodities or mineralisation types (eg submarine nodules) may warrant disclosure of detailed inform | - Drill holes samples to 25 metres maximum depth but typically to 12 metres depth <br> of any measurement tools or systems used. <br> rilling was used to obtain 1 m samples from which 3 kg was here there is coarse gold that has inherent sampling problems. mation. |
| Drilling techniques | - Drill type (eg core, reverse circulation, open-hole hammer, rotary air blast, auger, Bangka, sonic, etc) and details (eg core diameter, triple or standard tube, depth of diamond tails, face-sampling bit or other type, whether core is oriented and if so, by what method, etc). | - Reverse circulation rotary percussion and push-tube coring |
| Drill sample recovery | - Method of recording \& assessing core and chip sample recoveries and results assessed. <br> - Measures taken to maximise sample recovery \& ensure representative nature of the samples. <br> - Whether a relationship exists between sample recovery and grade and whether sample bias may have occurred due to preferential loss/gain of fine/coarse material. | - Weight tests indicated reliable sample recovery |
| Logging | - Whether core and chip samples have been geologically and geotechnically logged to a level of detail to support appropriate Mineral Resource estimation, mining studies and metallurgical studies. <br> - Whether logging is qualitative or quantitative. Core (or costean, channel, etc) photography. <br> - The total length and percentage of the relevant intersections logged. | - Geologically logged in detail by senior geologists. Every sample photographed, with photos and logs and assays entered into ABx's proprietary ABacus database. |
| Sub-sampling techniques and sample preparation | - If core, whether cut or sawn and whether quarter, half or all core taken. <br> - If non-core, whether riffled, tube sampled, rotary split, etc and whether sampled wet or dry. <br> - For all sample types, the nature, quality and appropriateness of the sample preparation technique. <br> - Quality control procedures adopted for all sub-sampling stages to maximise representivity of samples. <br> - Measures taken to ensure that the sampling is representative of the in situ material collected, including for in <br> - Whether sample sizes are appropriate to the grain size of the material being sampled. | - Chips are subsampled using bauxite shovel and quartering method in accordance with ISO standards <br> stance results for field duplicate/second-half sampling. |
| Quality of assay data and laboratory tests | - The nature, quality and appropriateness of the assaying and laboratory procedures used and whether the technique is considered partial or total. <br> - For geophysical tools, spectrometers, handheld XRF instruments, etc, the parameters used in determining the analysis including instrument make and model, reading times, calibrations factors applied and their derivation, etc. <br> - Nature of quality control procedures adopted (eg standards, blanks, duplicates, external lab checks) \& whether | - Assaying done at NATA-registered commercial labs of ALS Brisbane Australia and Labwest Minerals Analysis in Western Australia. Duplicate interlab assays done. <br> - Desorption extraction tests were conducted by ANSTO at Lucas Heights, Sydney NSW with assays done at ALS Brisbane. |


| Criteria | JORC Code explanation | Commentary |
| :---: | :---: | :---: |
|  | acceptable levels of accuracy (ie lack of bias) \& precision have been established. |  |
| Verification of sampling and assaying | - The verification of significant intersections by either independent or alternative company personnel. <br> - The use of twinned holes. <br> - Documentation of primary data, data entry procedures, data verification, data storage (physical and electronic) protocols. <br> - Discuss any adjustment to assay data. | - All assaying done at NATA-registered commercial laboratories of ALS Brisbane Australia and Labwest Minerals Analysis Pty Ltd in Western Australia. Duplicate interlab assays showed excellent correspondence. |
| Location of data points | - Accuracy and quality of surveys used to locate drill holes (collar and down-hole surveys), trenches, mine workings and other locations used in Mineral Resource estimation. <br> - Specification of the grid system used. <br> - Quality and adequacy of topographic control. | - GPS hole locations have been tested for accuracy on many prospects, all satisfactorily - within 1 m . |
| Data spacing and distribution | - Data spacing for reporting of Exploration Results. <br> - Whether the data spacing and distribution is sufficient to establish the degree of geological and grade continuity appropriate for the Mineral Resource and Ore Reserve estimation procedure(s) and classifications applied. <br> - Whether sample compositing has been applied. | - Drilling typically at 50 to 75 metre spacing on mineralised prospects |
| Orientation of data in relation to geological structure | - Whether the orientation of sampling achieves unbiased sampling of possible structures and the extent to which this is known, considering the deposit type. <br> - If the relationship between the drilling orientation and the orientation of key mineralised structures is considered to have introduced a sampling bias, this should be assessed and reported if material. | - Vertical holes through flat-dipping bauxite is as good as it gets |
| Sample security | - The measures taken to ensure sample security. | - Samples collected and assembled onto pallets every day |
| Audits or reviews | - The results of any audits or reviews of sampling techniques and data. | - Several audits confirmed reliability |

## Section 2 Reporting of Exploration Results (Criteria listed in the preceding section also apply to this section.)

| Criteria | JORC Code explanation | Commentary |
| :---: | :---: | :---: |
| Mineral tenement and land tenure status | - Type, reference name/number, location and ownership including agreements or material issues with third parties such as joint ventures, partnerships, overriding royalties, native title interests, historical sites, wilderness or national park and environmental settings. <br> - 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. | - Satisfactory to excellent. All tenements are unencumbered.... |
| Exploration done by other parties | - Acknowledgment and appraisal of exploration by other parties. | - $A B x$ is the first company to explore for Rare Earth Elements in northern Tasmania. |
| Geology | - Deposit type, geological setting and style of mineralisation. | - Bauxite deposit formed on Lower Tertiary basalts |


| Criteria | JORC Code explanation | Commentary |
| :---: | :---: | :---: |
| Drill hole Information | - A summary of all information material to the understanding of the exploration results including a tabulation of the following information for all Material drill holes: <br> - easting and northing of the drill hole collar elevation or RL (Reduced Level - elevation above sea level in metres) of the drill hole collar dip and azimuth of the hole down hole length and interception depth hole length. <br> - If the exclusion of this information is justified on the basis that the information is not Material and this exclusion does not detract from the understanding of the report, the Competent Person should clearly explain why this is the case. | - GPS location. <br> - Airborne Radar RL topography <br> - Lidar topography contoured at 1 m height intervals <br> - All holes are short straight vertical holes |
| Data aggregation methods | - In reporting Exploration Results, weighting averaging techniques, maximum and/or minimum grade truncations (eg cutting of high grades) and cut-off grades are usually Material and should be stated. <br> - Where aggregate intercepts incorporate short lengths of high grade results and longer lengths of low grade results, the procedure used for such aggregation should be stated and some typical examples of such aggregations should be shown in detail. <br> - The assumptions used for any reporting of metal equivalent values should be clearly stated. | - All data are presented. |
| Relationship between mineralisation widths \& 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. <br> - If it is not known and only the down hole lengths are reported, there should be a clear statement to this effect (eg 'down hole length, true width not known'). | - Mineralisation typically 3 to 6 metres thick and Drillholes are sampled at 1 metre intervals |
| Diagrams | - Appropriate maps and sections (with scales) and tabulations of intercepts should be included for any significant discovery being reported These should include, but not be limited to a plan view of drill hole collar locations and appropriate sectional views. | - N.A. |
| Balanced reporting | - Where comprehensive reporting of all Exploration Results is not practicable, representative reporting of both low and high grades and/or widths should be practiced to avoid misleading reporting of Exploration Results. | - All new results are reported in this report |
| Other substantive exploration data | - Other exploration data, if meaningful and material, should be reported including (but not limited to): geological observations; geophysical survey results; geochemical survey results; bulk samples - size and method of treatment; metallurgical test results; bulk density, groundwater, geotechnical and rock characteristics; potential deleterious or contaminating substances. | - N.A. |
| Further work | - The nature and scale of planned further work (eg tests for lateral extensions or depth extensions or large-scale step-out drilling). <br> - Diagrams clearly highlighting the areas of possible extensions, including the main geological interpretations and future drilling areas, provided this information is not commercially sensitive. | - Step-out drilling over a wider area has been planned, work plans submitted and new drill rig configurations have been developed. |


[^0]:    ${ }^{1}$ See ASX Announcement dated 31 May 2022.

[^1]:    ${ }^{2}$ See ASX Announcement dated 6 September 2022.

