

19 May 2023

ASX RELEASE

7,503ppm TREO Identified At Redlings REE Project

- **Surficial values up to 7,503ppm TREO associated with previously unrecognised REE-bearing dykes.**
- **Auger geochemistry highlights a 4.9 km x 1.2 km zone of anomalism.**
- **Ground gravity survey to be completed to test for source of surficial anomalism and to refine drill targets planned for Q3 2023.**

Marquee Resources Limited (“**Marquee**” or “**the Company**”) (**ASX:MQR**) is pleased to report the results from auger sampling recently completed at the Redlings Rare-Earth Element Project. Results have identified significant and wide spread zones of surficial rare-earth element (“**REE**”) anomalism related to the intrusion of REE-bearing carbonatitic dykes.

2,439 auger holes were completed over previously untested areas with results highlighting a ~4.9 km x 1.2 km discontinuous zone of anomalism (Figure 1). During the field program, Company geologists mapped REE-bearing dykes/veins with varying structural orientations which may represent late-stage carbonatite cone sheets or ring dykes. The Company is planning to complete a ground gravity survey to test for possible deep-seated intrusion(s) for follow-up drill testing in Q3 2023. In conjunction to the gravity survey further mapping and auger geochemistry is being planned to further understand the potential of the Project to host an economic REE mineral resource.

Auger Geochemistry Results & Forward Work Plan

Following completion of slim-line RC drilling (refer MQR ASX Release 18th Aug 2021), the Company embarked on a 1,292 auger program in April 2022 (refer MQR ASX Release 26th April 2022) and has recently completed a further 2,439 auger holes. The auger program was designed to target possible dyke-bearing structures which ran parallel to the NW-striking Redlings Dyke. During the auger program, multiple orientations of REE-bearing dykes were observed and there is no specific orientation to the observed geochemical anomalism. Company geologists interpret the mapped REE-bearing dykes/veins may represent late-stage carbonatite cone sheets or ring dykes. The Company is planning to complete a ground gravity survey shortly to test for possible deep-seated intrusion(s) for follow-up drill testing in Q3 2023. In conjunction to the gravity survey further mapping and auger geochemistry is also being planned to further understand the potential of the Project to host an economic REE mineral resource.

At Redlings, REE mineralisation is related to carbonatitic intrusions or dykes and associated fenitic alteration, which are elevated in REE compared to background. Economic mineralisation intersected in RC drilling was constrained to the laterite profile where supergene REE enrichment of the underlying carbonatite has occurred, not dissimilar to the mineralisation style encountered at the Mount Weld (LYC) and Yangibana (HAS) deposits. The potential for REE-bearing dykes to host economic fresh-rock mineralisation requires further assessment, however early results suggest there is the potential to define economic supergene REE mineralisation (0-20m vertical depth). Individual REE bearing dykes are often part of a larger dyke swarm and the Company will continue to identify additional REE-bearing dykes by systematically testing numerous, analogous geophysical targets.

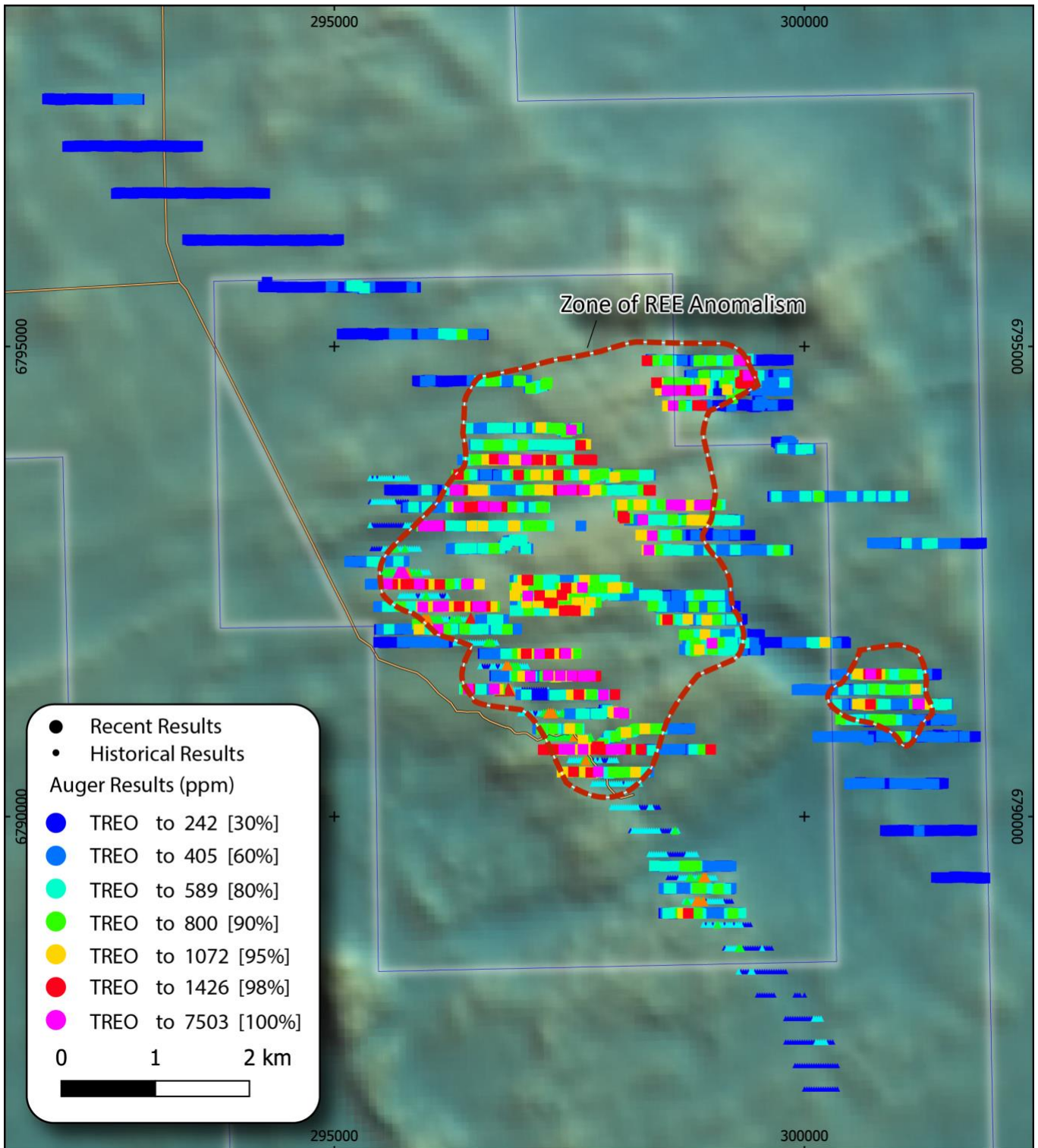


Figure 1: Redlings REE auger geochemistry results.

Executive Chairman Comment:

Marquee Executive Chairman, Mr Charles Thomas, commented:

“These extremely positive results provide further evidence of the prospectivity and potential scale of rare earth mineralisation at our Redlings REE Project.”

“Given the substantial size of the geochemical soil anomaly that we have now uncovered, the Company plans to conduct a ground gravity survey and further auger drilling, before following up in Q3 2023 with further RC drilling.”

“We are very excited by these latest results and I look forward to updating our shareholders and the wider market as we systematically progress this exciting Project throughout the rest of 2023.”

The Redlings Rare Earth Element Project

The Redlings Project (formerly called Jungle Well) is 100% owned by Marquee and comprises exploration licences E 37/1311 and E 37/1376 (Figure 2). The Project is located approximately 40km west of Leonora, and 77km north of Menzies. Lynas Corporation’s Mt Weld Project lies approximately 150km east of the project. The Redlings Project covers an area of approximately 108 square kilometres of tenure with historical rock-chip samples up to 7.8% TREO.

The Redlings Project is situated over a NNW trending high magnetic biotite-hornblende monzogranite granite that has intruded into the surrounding granite pluton. A series of NW trending faults run obliquely through the granite and are interpreted to be the controlling structures on the emplacement of REE bearing mafic dykes within the Project. Currently, only the Redlings dyke has been identified during prior exploration activities, however numerous parallel structures are observed in the magnetics data and form prospective structural targets for the discovery of additional REE bearing dykes.

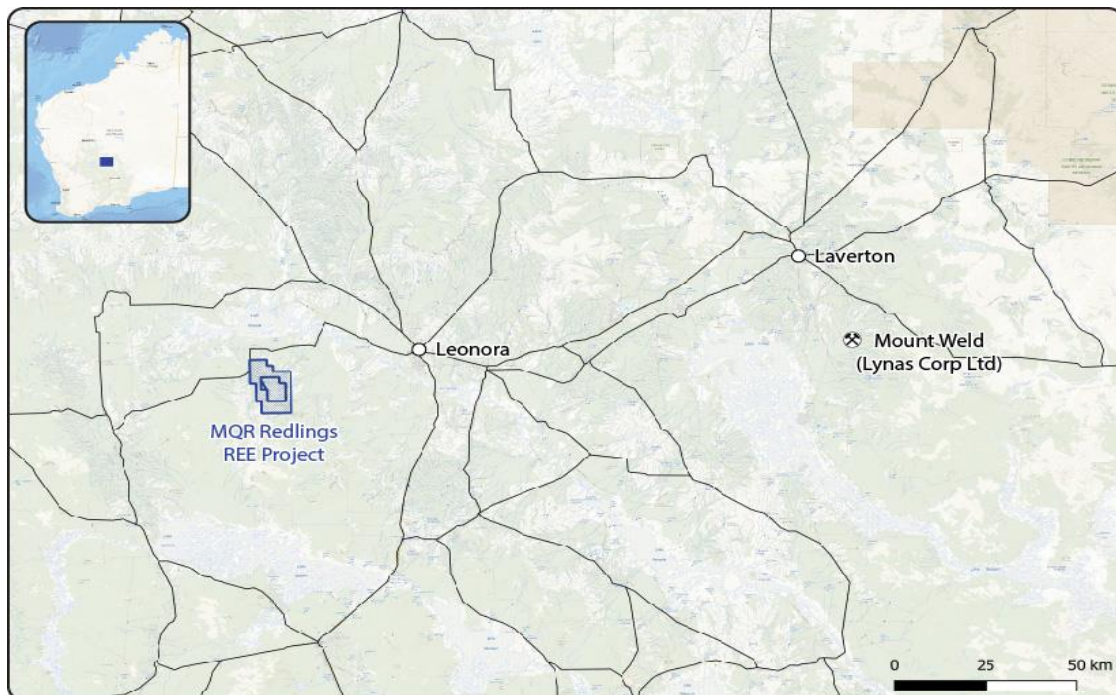


Figure 2: Location of the Redlings Project.

COMPETENT PERSON STATEMENT

The information in this report which relates to Exploration Results is based on information compiled by Dr. James Warren, a Competent Person who is a member of the Australian Institute of Geoscientists. Dr. Warren is the Chief Technical Officer of Marquee Resources Limited. Dr. Warren has sufficient experience relevant to the style of mineralisation and type of deposit under consideration and to the activity he is undertaking to qualify as a Competent Person as defined in the 2012 Edition of the “Australian Code of Reporting of Exploration Results, Mineral Resources and Ore Reserves”. Dr. Warren consents to the inclusion in this report of the matters based on the information in the form and context in which it appears.

Forward Looking Statements

Statements contained in this release, particularly those regarding possible or assumed future performance, costs, dividends, production levels or rates, prices, resources, reserves or potential growth of Marquee Resources Limited, are, or may be, forward looking statements. Such statements relate to future events and expectations and, as such, involve known and unknown risks and uncertainties. Actual results and developments may differ materially from those expressed or implied by these forward-looking statements depending on a variety of factors.

This ASX Release has been approved by the Board of Directors.

Charles Thomas – Executive Chairman
Marquee Resources
info@marqueeresources.com.au

Table 1: Results (>1,000 ppm TREO) from the Redlings auger program.

| SampleID | NAT East | NAT North | Depth | La203 (ppb) | CeO2 (ppb) | Pr2O3 (ppb) | Nd2O3 (ppb) | Sm2O3 (ppb) | Eu2O3 (ppb) | Gd2O3 (ppb) | Tb2O3 (ppb) | Dy2O3 (ppb) | Ho2O3 (ppb) | Er2O3 (ppb) | Tm2O3 (ppb) | Yb2O3 (ppb) | Lu2O3 (ppb) | Y2O3 (ppb) | TREO (ppm) |
|----------|----------|-----------|-------|-------------|------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|------------|------------|
| AUG00391 | 297604 | 6791492 | 0.250 | 369432.0 | 672326.2 | 61089.7 | 178459.2 | 22844.1 | 2917.9 | 16366.9 | 2014.3 | 10145.7 | 1569.3 | 4208.1 | 548.2 | 3233.9 | 432.1 | 60.2 | 7503.1 |
| AUG00582 | 296561 | 6792233 | 0.1 | 408134.4 | 633673.3 | 84963.8 | 230947.2 | 21336.6 | 2674.7 | 11756.5 | 1461.8 | 6427.1 | 1008.0 | 2973.1 | 434.0 | 2903.7 | 432.1 | 47.0 | 6513.9 |
| AUG01450 | 297006 | 6793791 | 0.1 | 300236.8 | 395899.4 | 50908.1 | 172627.2 | 23423.9 | 2871.6 | 13946.5 | 1807.1 | 8986.5 | 1580.8 | 4436.8 | 491.1 | 3427.5 | 500.3 | 51.7 | 6044.8 |
| AUG00116 | 297847 | 6790469 | 0.200 | 111298.7 | 179208.9 | 20597.3 | 61236.0 | 8070.8 | 1100.0 | 5935.9 | 794.2 | 4303.9 | 756.0 | 2287.0 | 319.8 | 1901.6 | 284.3 | 31.4 | 5175.9 |
| AUG01816 | 298621 | 6794533 | 1.000 | 890155.2 | 911271.4 | 139265.7 | 436233.6 | 57516.2 | 6796.9 | 33655.9 | 4385.3 | 22724.5 | 3929.1 | 10314.4 | 1187.8 | 7299.1 | 989.3 | 120.4 | 4677.4 |
| AUG00020 | 297607 | 6790713 | 0.100 | 153636.8 | 378329.9 | 26799.9 | 75466.1 | 9972.6 | 1227.4 | 8195.0 | 1404.2 | 9962.0 | 1981.7 | 6712.3 | 1073.6 | 6809.4 | 886.9 | 60.1 | 3254.0 |
| AUG00491 | 296139 | 6791989 | 0.250 | 200548.8 | 256514.7 | 30544.8 | 88413.1 | 11491.6 | 1586.3 | 6454.6 | 828.7 | 4051.4 | 675.8 | 1875.3 | 251.3 | 1571.4 | 216.0 | 31.1 | 3253.7 |
| AUG01156 | 298645 | 6793311 | 0.250 | 431590.4 | 1144360.1 | 85080.8 | 313761.6 | 62966.3 | 8719.0 | 49907.6 | 7435.5 | 41546.7 | 7709.2 | 21955.2 | 2798.1 | 16511.2 | 2217.3 | 261.6 | 2837.9 |
| AUG00011 | 297421 | 6790705 | 0.200 | 728308.8 | 1370421.0 | 124051.8 | 321926.4 | 38962.6 | 3554.8 | 23743.6 | 3004.1 | 14575.8 | 2382.6 | 6437.9 | 799.5 | 4384.0 | 557.2 | 106.7 | 2825.8 |
| AUG01086 | 297622 | 6793474 | 0.250 | 197030.4 | 404098.5 | 32651.4 | 88763.0 | 10598.7 | 1239.0 | 5106.0 | 690.6 | 3110.3 | 504.0 | 1486.6 | 182.7 | 1218.4 | 318.4 | 16.3 | 2694.5 |
| AUG00010 | 297401 | 6790713 | 1.000 | 201721.6 | 479061.7 | 35577.1 | 98444.2 | 11827.9 | 1204.2 | 7422.7 | 943.8 | 4694.1 | 767.5 | 2138.3 | 296.9 | 1810.5 | 238.8 | 32.4 | 2643.2 |
| AUG00848 | 297161 | 6792351 | 0.250 | 222832.0 | 260028.6 | 36747.4 | 98910.7 | 13915.2 | 1447.4 | 8967.2 | 1151.0 | 5979.5 | 1031.0 | 2778.7 | 308.4 | 1833.3 | 250.2 | 31.6 | 2567.5 |
| AUG01229 | 298323 | 6793151 | 0.250 | 75997.4 | 151097.7 | 12405.2 | 35925.1 | 4974.7 | 602.1 | 2893.0 | 391.3 | 2020.0 | 378.0 | 1063.5 | 125.6 | 842.6 | 113.7 | 12.0 | 2555.8 |
| AUG01815 | 298639 | 6794527 | 0.100 | 377641.6 | 555196.2 | 66122.0 | 200620.8 | 28294.2 | 3427.4 | 16828.0 | 2359.6 | 12395.2 | 2199.4 | 5969.1 | 730.9 | 4611.7 | 648.1 | 59.2 | 2525.8 |
| AUG00953 | 296358 | 6793290 | 0.1 | 324865.6 | 609076.0 | 55940.3 | 145800.0 | 18553.6 | 2107.4 | 10096.8 | 1243.1 | 5991.0 | 1008.0 | 2767.3 | 354.1 | 2106.6 | 295.6 | 31.6 | 2334.3 |
| AUG01911 | 301248 | 6791198 | 0.250 | 743555.2 | 163696.1 | 111529.6 | 334756.8 | 41049.8 | 3913.7 | 24089.3 | 2820.0 | 14001.9 | 2611.7 | 7501.4 | 879.4 | 5682.1 | 852.8 | 105.1 | 2264.4 |
| AUG01859 | 300662 | 6791510 | 0.500 | 329556.8 | 684039.2 | 55823.3 | 167961.6 | 21104.7 | 2362.1 | 12678.6 | 1553.9 | 7069.8 | 1191.3 | 3213.2 | 388.3 | 2391.3 | 318.4 | 37.1 | 2242.1 |
| AUG01155 | 298624 | 6793312 | 0.250 | 93589.4 | 302195.4 | 15213.9 | 43856.6 | 6053.1 | 799.0 | 3619.2 | 506.4 | 2674.1 | 504.0 | 1417.9 | 194.2 | 1195.6 | 159.2 | 16.5 | 2196.8 |
| AUG00385 | 297485 | 6791491 | 0.250 | 120798.4 | 233088.7 | 20012.1 | 55753.9 | 7177.9 | 1123.2 | 5232.8 | 679.1 | 3534.9 | 595.7 | 1692.4 | 251.3 | 1651.1 | 227.4 | 19.9 | 2163.2 |
| AUG00645 | 295521 | 6792470 | 0.250 | 136044.8 | 231917.4 | 27853.1 | 64385.3 | 7943.3 | 1030.5 | 5048.4 | 633.1 | 3236.5 | 458.2 | 1463.7 | 194.2 | 1207.0 | 159.2 | 22.2 | 2144.9 |
| AUG01910 | 301265 | 6791197 | 0.250 | 87256.3 | 190921.9 | 14043.6 | 41873.8 | 6331.4 | 822.1 | 4149.4 | 552.5 | 2938.1 | 549.8 | 1612.3 | 205.6 | 1446.1 | 216.0 | 15.9 | 2109.7 |
| AUG01803 | 298882 | 6794534 | 0.500 | 363568.0 | 411126.3 | 62962.1 | 204120.0 | 39194.5 | 4608.4 | 37805.3 | 5720.5 | 36726.4 | 7972.7 | 25271.4 | 3038.0 | 19471.8 | 2888.2 | 327.6 | 2056.9 |
| AUG01801 | 298921 | 6794532 | 0.250 | 254497.6 | 541140.6 | 52078.4 | 159796.8 | 28410.2 | 3276.9 | 19363.7 | 2854.5 | 17215.5 | 3333.4 | 10177.2 | 1347.7 | 9667.6 | 1341.8 | 85.2 | 1998.8 |
| AUG00687 | 296361 | 6792472 | 0.500 | 181784.0 | 329135.3 | 33236.5 | 99260.6 | 12407.7 | 1389.5 | 8921.1 | 897.8 | 4395.7 | 721.7 | 2058.3 | 274.1 | 1810.5 | 261.5 | 34.9 | 1968.9 |
| AUG01811 | 298722 | 6794523 | 1.000 | 221659.2 | 293996.3 | 39673.2 | 113957.3 | 14958.8 | 1713.7 | 7987.5 | 1001.4 | 4866.2 | 824.8 | 2264.1 | 262.7 | 1730.8 | 238.8 | 22.7 | 1941.0 |
| AUG00841 | 297023 | 6792350 | 0.250 | 136044.8 | 258857.3 | 23054.9 | 70217.3 | 10192.9 | 1377.9 | 6154.9 | 828.7 | 4154.7 | 710.2 | 2149.8 | 262.7 | 1901.6 | 284.3 | 22.1 | 1891.0 |
| AUG00255 | 297902 | 6791298 | 0.250 | 152464.0 | 255343.4 | 23874.1 | 70217.3 | 10958.2 | 1435.8 | 6858.0 | 909.3 | 7069.8 | 790.4 | 2298.4 | 308.4 | 1856.1 | 261.5 | 32.4 | 1877.9 |
| AUG00395 | 297689 | 6791500 | 0.100 | 208758.4 | 523571.1 | 34523.9 | 97744.3 | 13451.4 | 2003.2 | 10165.9 | 1346.7 | 6989.5 | 1099.7 | 3018.8 | 411.2 | 2402.7 | 318.4 | 38.5 | 1871.7 |
| AUG00404 | 297499 | 6791731 | 0.250 | 186475.2 | 664127.1 | 34874.9 | 95644.8 | 12523.7 | 1377.9 | 7803.1 | 1047.4 | 5187.6 | 882.0 | 2424.2 | 342.6 | 2322.9 | 329.8 | 30.2 | 1849.6 |
| AUG01438 | 296763 | 6793795 | 0.1 | 229868.8 | 390042.9 | 45290.6 | 134136.0 | 18321.7 | 2211.6 | 11065.0 | 1484.8 | 7494.5 | 1340.2 | 3773.6 | 434.0 | 3028.9 | 466.2 | 44.4 | 1824.4 |
| AUG01169 | 298901 | 6793313 | 0.250 | 225177.6 | 379501.2 | 35928.2 | 100777.0 | 12987.5 | 1273.7 | 7226.8 | 897.8 | 4212.1 | 721.7 | 2035.4 | 262.7 | 1560.0 | 216.0 | 23.9 | 1811.7 |
| AUG00662 | 295861 | 6792470 | 0.250 | 292027.2 | 614932.5 | 55121.1 | 134136.0 | 16930.2 | 2049.5 | 11641.3 | 1484.8 | 7712.5 | 1099.7 | 3373.3 | 422.6 | 2300.2 | 295.6 | 52.1 | 1805.1 |
| AUG00379 | 297362 | 6791484 | 0.100 | 219313.6 | 365445.6 | 35343.1 | 98210.9 | 11943.9 | 1447.4 | 7618.7 | 920.8 | 4292.4 | 675.8 | 1863.9 | 262.7 | 1628.3 | 216.0 | 24.6 | 1787.8 |
| AUG00364 | 297040 | 6791492 | 0.250 | 258016.0 | 302195.4 | 41545.7 | 121305.6 | 14842.9 | 2037.9 | 9993.0 | 1231.6 | 6220.5 | 1031.0 | 2984.5 | 434.0 | 2858.1 | 398.0 | 39.0 | 1784.5 |
| AUG00244 | 297982 | 6791101 | 0.100 | 227523.2 | 342019.6 | 31832.2 | 93312.0 | 13683.3 | 1447.4 | 7814.6 | 989.9 | 7196.1 | 767.5 | 2161.2 | 285.5 | 1753.6 | 227.4 | 32.1 | 1748.5 |

| SampleID | NAT East | NAT North | Depth | La2O3 (ppb) | CeO2 (ppb) | Pr2O3 (ppb) | Nd2O3 (ppb) | Sm2O3 (ppb) | Eu2O3 (ppb) | Gd2O3 (ppb) | Tb2O3 (ppb) | Dy2O3 (ppb) | Ho2O3 (ppb) | Er2O3 (ppb) | Tm2O3 (ppb) | Yb2O3 (ppb) | Lu2O3 (ppb) | Y2O3 (ppb) | TREO (ppm) |
|----------|----------|-----------|-------|-------------|------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|------------|------------|
| AUG01293 | 298422 | 6792990 | 0.250 | 180611.2 | 299852.8 | 36045.2 | 110224.8 | 14958.8 | 2014.7 | 9416.7 | 1151.0 | 5945.1 | 1134.0 | 3190.4 | 411.2 | 2619.0 | 363.9 | 35.9 | 1724.9 |
| AUG00328 | 296741 | 6791354 | 0.250 | 201721.6 | 390042.9 | 31130.0 | 77565.6 | 11224.9 | 1551.6 | 7584.1 | 966.8 | 5015.4 | 882.0 | 2652.9 | 388.3 | 2653.2 | 238.8 | 35.3 | 1702.6 |
| AUG01151 | 298544 | 6793312 | 0.500 | 179438.4 | 283454.6 | 34757.9 | 100077.1 | 13451.4 | 1841.1 | 7388.2 | 978.4 | 4877.7 | 847.7 | 2378.5 | 319.8 | 2061.0 | 295.6 | 26.2 | 1694.5 |
| AUG00040 | 298005 | 6790711 | 0.400 | 118452.8 | 222547.0 | 20831.3 | 61119.4 | 9787.0 | 1100.0 | 5797.6 | 805.7 | 4246.5 | 710.2 | 2024.0 | 274.1 | 1821.9 | 261.5 | 29.2 | 1687.5 |
| AUG01301 | 298259 | 6792993 | 0.1 | 172401.6 | 703951.3 | 35460.1 | 103343.0 | 13799.2 | 1354.7 | 7146.1 | 978.4 | 4671.1 | 801.9 | 2184.1 | 285.5 | 1867.5 | 295.6 | 23.4 | 1673.1 |
| AUG00342 | 296466 | 6791354 | 0.250 | 354185.6 | 446265.3 | 63547.3 | 190123.2 | 22148.4 | 2628.4 | 12332.8 | 1404.2 | 6048.4 | 962.2 | 2355.6 | 285.5 | 1719.4 | 216.0 | 37.1 | 1647.9 |
| AUG00372 | 297236 | 6791491 | 0.100 | 153636.8 | 220204.4 | 26214.7 | 70800.5 | 9555.1 | 1296.8 | 6685.1 | 897.8 | 4694.1 | 767.5 | 2172.7 | 331.2 | 2174.9 | 295.6 | 25.5 | 1643.1 |
| AUG00600 | 296204 | 6792233 | 0.1 | 186475.2 | 500145.1 | 37449.6 | 100310.4 | 10935.0 | 1760.0 | 7768.5 | 1070.4 | 5405.7 | 904.9 | 2778.7 | 399.7 | 2744.3 | 409.4 | 41.5 | 1638.4 |
| AUG01597 | 299280 | 6794851 | 0.250 | 328384.0 | 911271.4 | 60621.5 | 179625.6 | 27598.5 | 3137.9 | 19594.2 | 3004.1 | 17559.8 | 3356.3 | 10097.1 | 1302.0 | 8836.3 | 1228.1 | 106.0 | 1636.9 |
| AUG01818 | 298582 | 6794531 | 0.500 | 224004.8 | 297510.2 | 34055.7 | 99610.6 | 13451.4 | 1366.3 | 8494.7 | 1162.5 | 6082.8 | 1111.1 | 3041.7 | 365.5 | 2243.2 | 318.4 | 37.5 | 1635.9 |
| AUG02612 | 296543 | 6793295 | 0.100 | 362395.2 | 532941.5 | 54419.0 | 148132.8 | 17625.9 | 1609.5 | 9151.6 | 978.4 | 4292.4 | 698.8 | 1795.3 | 205.6 | 1184.2 | 159.2 | 23.4 | 1630.1 |
| AUG00247 | 298044 | 6791099 | 0.100 | 221659.2 | 375987.3 | 31832.2 | 95294.9 | 14726.9 | 1644.2 | 8690.6 | 1081.9 | 7574.8 | 790.4 | 2081.2 | 262.7 | 1594.2 | 204.7 | 30.2 | 1611.3 |
| AUG01166 | 298843 | 6793310 | 0.500 | 120798.4 | 473205.2 | 21182.4 | 59136.5 | 7931.7 | 845.3 | 4333.8 | 587.0 | 2766.0 | 481.1 | 1395.1 | 182.7 | 1070.4 | 136.5 | 15.0 | 1599.4 |
| AUG01019 | 296281 | 6793472 | 0.250 | 397579.2 | 453293.1 | 67058.2 | 180792.0 | 23539.9 | 2767.4 | 14177.0 | 1899.2 | 9571.8 | 1729.7 | 4837.0 | 582.5 | 3655.2 | 557.2 | 73.0 | 1581.3 |
| AUG01596 | 299258 | 6794851 | 0.100 | 54183.4 | 98740.6 | 9514.5 | 27410.4 | 4418.1 | 555.8 | 3284.9 | 494.9 | 2949.6 | 561.3 | 1692.4 | 217.0 | 1389.2 | 193.3 | 15.7 | 1575.7 |
| AUG01826 | 298564 | 6794367 | 0.250 | 272089.6 | 564566.6 | 47865.3 | 136468.8 | 18321.7 | 2014.7 | 10165.9 | 1346.7 | 6760.0 | 1122.6 | 2927.4 | 354.1 | 2311.6 | 295.6 | 32.8 | 1573.5 |
| AUG01017 | 296242 | 6793473 | 0.250 | 178265.6 | 244801.7 | 25278.5 | 72550.1 | 10053.7 | 1181.1 | 6258.6 | 863.3 | 4395.7 | 790.4 | 2252.7 | 274.1 | 1673.9 | 261.5 | 26.4 | 1549.0 |
| AUG00943 | 296743 | 6793290 | 0.1 | 378814.4 | 805854.4 | 61791.8 | 158630.4 | 20640.9 | 2049.5 | 12217.6 | 1611.4 | 8102.8 | 1535.0 | 4425.3 | 479.7 | 3211.1 | 477.6 | 66.4 | 1534.7 |
| AUG00393 | 297645 | 6791491 | 0.250 | 494921.6 | 578622.2 | 79112.3 | 244944.0 | 32005.0 | 5083.2 | 26509.8 | 3107.7 | 14690.6 | 2176.5 | 5305.8 | 639.6 | 3416.1 | 420.7 | 76.3 | 1532.1 |
| AUG01074 | 297384 | 6793470 | 0.500 | 404616.0 | 571594.4 | 75133.3 | 225115.2 | 28642.1 | 3357.9 | 16366.9 | 2071.8 | 9789.9 | 1672.4 | 4848.4 | 571.1 | 3427.5 | 386.6 | 58.3 | 1519.3 |
| AUG00855 | 296042 | 6793093 | 0.250 | 526587.2 | 542311.9 | 89528.0 | 237945.6 | 30033.6 | 2917.9 | 16366.9 | 1991.2 | 10444.1 | 1913.0 | 5511.7 | 639.6 | 4065.2 | 591.3 | 78.5 | 1518.8 |
| AUG00611 | 295984 | 6792231 | 0.1 | 265052.8 | 363103.0 | 52546.5 | 137635.2 | 16002.5 | 1760.0 | 7906.8 | 909.3 | 4108.8 | 687.3 | 1783.9 | 239.8 | 1468.9 | 193.3 | 28.7 | 1507.2 |
| AUG00418 | 297223 | 6791724 | 0.100 | 239251.2 | 323278.8 | 39205.1 | 111507.8 | 13915.2 | 1725.3 | 9555.1 | 1266.1 | 6232.0 | 1076.8 | 2938.8 | 411.2 | 2539.3 | 375.2 | 39.7 | 1495.8 |
| AUG00392 | 297628 | 6791494 | 0.250 | 1735744.0 | 4251819.0 | 333535.5 | 919123.2 | 115960.0 | 15979.0 | 67542.4 | 7470.0 | 30987.9 | 4410.2 | 10657.4 | 1302.0 | 7447.1 | 932.4 | 161.3 | 1491.0 |
| AUG00688 | 296384 | 6792471 | 0.500 | 622756.8 | 791798.8 | 119370.6 | 347587.2 | 40470.0 | 3948.4 | 23282.5 | 2071.8 | 9124.2 | 1363.1 | 3544.9 | 445.4 | 2721.5 | 386.6 | 66.7 | 1485.7 |
| AUG00797 | 297680 | 6792434 | 0.250 | 157155.2 | 201463.6 | 28087.2 | 79198.6 | 8789.8 | 903.2 | 4806.3 | 598.5 | 2720.0 | 423.8 | 1143.5 | 137.1 | 842.6 | 113.7 | 20.4 | 1484.6 |
| AUG01079 | 297486 | 6793471 | 1.000 | 185302.4 | 234260.0 | 29725.6 | 87246.7 | 11827.9 | 1551.6 | 6950.2 | 966.8 | 4946.6 | 870.6 | 2607.2 | 331.2 | 1935.8 | 79.6 | 29.8 | 1476.2 |
| AUG00013 | 297462 | 6790713 | 1.000 | 233387.2 | 334991.8 | 38385.8 | 107892.0 | 12639.6 | 1354.7 | 8540.8 | 1128.0 | 6036.9 | 1031.0 | 3007.4 | 399.7 | 2368.5 | 318.4 | 42.9 | 1471.5 |
| AUG00854 | 296016 | 6793087 | 0.500 | 284990.4 | 638358.5 | 50791.0 | 131803.2 | 17278.0 | 1713.7 | 9509.0 | 1162.5 | 5738.5 | 1019.5 | 3007.4 | 354.1 | 2379.9 | 341.1 | 33.8 | 1470.9 |
| AUG00942 | 296763 | 6793290 | 0.1 | 136044.8 | 379501.2 | 19192.9 | 55987.2 | 8059.2 | 868.4 | 4598.9 | 633.1 | 3167.7 | 572.8 | 1635.2 | 182.7 | 1320.9 | 193.3 | 17.3 | 1459.9 |
| AUG00856 | 296061 | 6793090 | 0.250 | 293200.0 | 1000290.2 | 49737.8 | 131803.2 | 16930.2 | 1783.2 | 9774.0 | 1220.1 | 6082.8 | 1099.7 | 3259.0 | 411.2 | 2755.7 | 398.0 | 39.2 | 1459.9 |
| AUG00603 | 296142 | 6792232 | 0.1 | 216968.0 | 364274.3 | 41077.5 | 113607.4 | 11491.6 | 1609.5 | 7883.8 | 1047.4 | 5210.6 | 847.7 | 2515.7 | 342.6 | 2152.1 | 307.0 | 37.5 | 1458.7 |
| AUG00852 | 295983 | 6793087 | 0.250 | 168883.2 | 269399.0 | 25980.7 | 76399.2 | 10401.6 | 1111.6 | 6500.7 | 897.8 | 5245.0 | 1008.0 | 3076.0 | 388.3 | 2527.9 | 363.9 | 30.2 | 1450.8 |
| AUG00035 | 297903 | 6790713 | 0.200 | 205240.0 | 315079.7 | 31364.0 | 95294.9 | 14726.9 | 1285.3 | 8736.7 | 1128.0 | 5405.7 | 859.1 | 2229.8 | 274.1 | 1685.3 | 227.4 | 38.5 | 1442.5 |
| AUG01644 | 299445 | 6794684 | 0.500 | 248633.6 | 482575.6 | 43886.3 | 135302.4 | 22612.2 | 3369.5 | 30659.2 | 6077.3 | 53138.5 | 15693.4 | 59690.7 | 8291.6 | 49533.5 | 8562.4 | 811.5 | 1430.5 |
| AUG00580 | 296605 | 6792234 | 0.1 | 98046.1 | 202634.9 | 19427.0 | 52138.1 | 5287.8 | 856.8 | 3665.3 | 483.4 | 2479.0 | 412.4 | 1257.9 | 182.7 | 1275.3 | 193.3 | 17.7 | 1429.0 |

| SampleID | NAT East | NAT North | Depth | La2O3 (ppb) | CeO2 (ppb) | Pr2O3 (ppb) | Nd2O3 (ppb) | Sm2O3 (ppb) | Eu2O3 (ppb) | Gd2O3 (ppb) | Tb2O3 (ppb) | Dy2O3 (ppb) | Ho2O3 (ppb) | Er2O3 (ppb) | Tm2O3 (ppb) | Yb2O3 (ppb) | Lu2O3 (ppb) | Y2O3 (ppb) | TREO (ppm) |
|----------|----------|-----------|-------|-------------|------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|------------|------------|
| AUG02322 | 297001 | 6792513 | 0.100 | 307273.6 | 305709.3 | 49503.7 | 144633.6 | 19017.4 | 2142.1 | 11514.5 | 1392.7 | 6782.9 | 1145.5 | 3293.3 | 399.7 | 2505.1 | 341.1 | 38.4 | 1426.3 |
| AUG01081 | 297521 | 6793472 | 0.500 | 224004.8 | 326792.7 | 38502.9 | 110808.0 | 14495.0 | 1528.4 | 7976.0 | 1024.4 | 4613.8 | 767.5 | 2252.7 | 262.7 | 1571.4 | 170.6 | 26.5 | 1426.1 |
| AUG01862 | 300723 | 6791513 | 0.100 | 133699.2 | 564566.6 | 24342.2 | 76399.2 | 11827.9 | 1563.2 | 8125.8 | 1185.5 | 6232.0 | 1122.6 | 3121.8 | 388.3 | 2482.4 | 329.8 | 31.7 | 1425.3 |
| AUG01485 | 297703 | 6793794 | 0.1 | 351840.0 | 557538.8 | 53248.7 | 173793.6 | 20872.8 | 1864.2 | 10949.7 | 1220.1 | 5405.7 | 927.9 | 2595.7 | 319.8 | 2004.1 | 284.3 | 29.5 | 1416.2 |
| AUG00581 | 296581 | 6792232 | 0.1 | 201721.6 | 1057683.9 | 38268.8 | 101476.8 | 10181.3 | 1574.7 | 7007.8 | 932.3 | 4441.6 | 744.6 | 2252.7 | 308.4 | 2026.9 | 307.0 | 35.6 | 1409.2 |
| AUG00398 | 297748 | 6791489 | 0.250 | 283817.6 | 603219.5 | 45524.7 | 128304.0 | 15538.6 | 1806.3 | 9359.1 | 1128.0 | 5026.9 | 824.8 | 2115.5 | 274.1 | 1708.1 | 261.5 | 31.2 | 1408.0 |
| AUG01170 | 298924 | 6793327 | 6.500 | 326038.4 | 1218152.0 | 57812.8 | 160963.2 | 20177.0 | 1956.9 | 11122.6 | 1392.7 | 6415.6 | 1179.9 | 3350.5 | 411.2 | 2402.7 | 329.8 | 44.3 | 1406.0 |
| AUG00051 | 298222 | 6790711 | 0.100 | 87139.0 | 171009.8 | 14160.6 | 40940.6 | 6574.9 | 752.6 | 3838.2 | 518.0 | 2674.1 | 446.7 | 1269.3 | 171.3 | 1150.1 | 159.2 | 20.3 | 1402.1 |
| AUG01479 | 297582 | 6793796 | 0.100 | 281472.0 | 532941.5 | 51025.1 | 169128.0 | 21684.5 | 2408.4 | 11756.5 | 1369.7 | 6530.4 | 1076.8 | 2881.6 | 342.6 | 2072.4 | 272.9 | 31.9 | 1398.5 |
| AUG01738 | 299285 | 6794609 | 0.500 | 102268.2 | 130014.3 | 17671.5 | 52837.9 | 8372.3 | 1007.4 | 5901.3 | 932.3 | 5818.8 | 1157.0 | 3773.6 | 536.8 | 3974.1 | 591.3 | 37.5 | 1398.2 |
| AUG02323 | 297023 | 6792507 | 0.100 | 439800.0 | 598534.3 | 79697.4 | 236779.2 | 31077.3 | 3473.7 | 16021.1 | 2014.3 | 9319.3 | 1512.1 | 4128.0 | 491.1 | 3028.9 | 409.4 | 44.7 | 1395.7 |
| AUG01807 | 298802 | 6794535 | 0.250 | 95114.1 | 173352.4 | 20363.2 | 62869.0 | 11248.1 | 1331.6 | 7641.7 | 1035.9 | 5876.2 | 1122.6 | 3453.4 | 445.4 | 2949.2 | 454.8 | 33.4 | 1390.0 |
| AUG00135 | 297437 | 6790474 | 0.1 | 273262.4 | 501316.4 | 44354.4 | 128304.0 | 17625.9 | 1910.5 | 8909.6 | 1692.0 | 5359.8 | 1752.6 | 2515.7 | 354.1 | 6422.3 | 329.8 | 44.6 | 1387.7 |
| AUG01072 | 297342 | 6793473 | 0.500 | 307273.6 | 419325.4 | 62728.1 | 186624.0 | 24815.4 | 3022.1 | 13831.2 | 1853.1 | 9365.2 | 1672.4 | 5111.4 | 662.4 | 4031.0 | 113.7 | 59.1 | 1366.2 |
| 23RD13 | 298916 | 6789393 | 0.1 | 463256.0 | 448607.9 | 62611.1 | 187790.4 | 28178.3 | 4701.1 | 19478.9 | 2532.2 | 12395.2 | 2130.6 | 5523.1 | 673.8 | 3894.4 | 500.3 | 72.1 | 1360.9 |
| AUG00771 | 297321 | 6792269 | 0.250 | 167710.4 | 330306.6 | 33470.6 | 95761.4 | 9949.4 | 1123.2 | 6569.8 | 828.7 | 3821.8 | 733.1 | 1955.4 | 285.5 | 2061.0 | 307.0 | 29.1 | 1360.5 |
| AUG02609 | 298723 | 6791776 | 0.100 | 394060.8 | 646557.6 | 61908.9 | 176126.4 | 21568.6 | 2315.8 | 10984.3 | 1300.6 | 5669.6 | 950.8 | 2458.5 | 296.9 | 1730.8 | 238.8 | 30.4 | 1351.5 |
| AUG01073 | 297362 | 6793472 | 0.500 | 419862.4 | 561052.7 | 72792.7 | 236779.2 | 30961.3 | 3612.6 | 17519.5 | 2198.4 | 10340.8 | 1764.1 | 4962.8 | 593.9 | 3393.3 | 284.3 | 59.2 | 1347.7 |
| AUG00390 | 297585 | 6791492 | 0.100 | 229868.8 | 308051.9 | 40141.3 | 117806.4 | 15306.7 | 2223.2 | 11157.2 | 1335.2 | 6518.9 | 1008.0 | 2664.4 | 354.1 | 2061.0 | 284.3 | 38.9 | 1345.6 |
| AUG00008 | 297360 | 6790716 | 0.100 | 140736.0 | 618446.4 | 25629.6 | 69984.0 | 8917.3 | 961.1 | 6189.5 | 874.8 | 4820.3 | 813.3 | 2298.4 | 319.8 | 1844.7 | 238.8 | 29.6 | 1339.7 |
| AUG00648 | 295583 | 6792471 | 0.250 | 165364.8 | 221375.7 | 35109.0 | 81648.0 | 9729.0 | 1215.8 | 5889.8 | 713.6 | 3718.5 | 526.9 | 1703.8 | 228.4 | 1320.9 | 181.9 | 21.1 | 1339.0 |
| AUG01463 | 297264 | 6793790 | 0.1 | 185302.4 | 256514.7 | 33236.5 | 102643.2 | 14726.9 | 1956.9 | 9117.1 | 1197.0 | 6048.4 | 1134.0 | 3293.3 | 376.9 | 2710.1 | 432.1 | 39.6 | 1336.0 |
| AUG00945 | 296702 | 6793292 | 0.1 | 202894.4 | 279940.7 | 29491.6 | 85380.5 | 11387.3 | 1134.7 | 6396.9 | 863.3 | 4430.1 | 813.3 | 2309.9 | 262.7 | 1856.1 | 272.9 | 26.5 | 1334.1 |
| AUG01451 | 297023 | 6793791 | 0.1 | 1817840.0 | 2565147.0 | 341727.6 | 997272.0 | 150748.0 | 16210.6 | 74342.7 | 8816.7 | 37529.8 | 6162.8 | 15666.0 | 1598.9 | 10111.7 | 1421.4 | 189.2 | 1329.7 |
| AUG02608 | 298735 | 6791773 | 0.100 | 120798.4 | 174523.7 | 19192.9 | 55054.1 | 7502.6 | 949.5 | 4379.9 | 541.0 | 2651.2 | 435.3 | 1200.7 | 159.9 | 945.1 | 136.5 | 14.2 | 1326.2 |
| AUG02613 | 296561 | 6793299 | 0.100 | 485539.2 | 809368.3 | 70452.1 | 204120.0 | 25163.3 | 2709.5 | 14522.8 | 1703.5 | 8010.9 | 1431.9 | 3807.9 | 445.4 | 2459.6 | 341.1 | 49.3 | 1325.1 |
| AUG02614 | 296581 | 6793295 | 0.100 | 401097.6 | 633673.3 | 60738.6 | 178459.2 | 22032.4 | 2049.5 | 11871.8 | 1450.3 | 6863.2 | 1179.9 | 2984.5 | 342.6 | 1947.2 | 318.4 | 41.9 | 1292.8 |
| AUG01020 | 296304 | 6793469 | 0.250 | 351840.0 | 958123.4 | 58632.0 | 158630.4 | 21104.7 | 2257.9 | 12217.6 | 1692.0 | 8389.7 | 1420.4 | 3750.7 | 411.2 | 2436.8 | 341.1 | 40.6 | 1291.7 |
| AUG01600 | 299314 | 6794854 | 0.100 | 180611.2 | 220204.4 | 30427.8 | 90396.0 | 15190.8 | 1644.2 | 11491.4 | 1887.6 | 11706.5 | 2336.8 | 7215.5 | 925.1 | 5966.8 | 807.3 | 59.7 | 1291.4 |
| 23RD19 | 298935 | 6789130 | 0.100 | 43276.3 | 138213.4 | 10556.1 | 36391.7 | 5508.1 | 880.0 | 4391.4 | 621.5 | 3374.2 | 721.7 | 2241.3 | 274.1 | 1628.3 | 216.0 | 23.4 | 1290.4 |
| AUG01858 | 300642 | 6791512 | 0.500 | 229868.8 | 379501.2 | 41428.6 | 124804.8 | 15770.6 | 1899.0 | 9624.2 | 1208.6 | 5841.8 | 1031.0 | 2915.9 | 365.5 | 2357.1 | 318.4 | 33.1 | 1289.7 |
| AUG00769 | 297362 | 6792270 | 0.500 | 107428.5 | 192093.2 | 21533.5 | 64968.5 | 7514.2 | 995.8 | 5509.4 | 725.1 | 3500.5 | 687.3 | 1841.0 | 262.7 | 1810.5 | 272.9 | 26.0 | 1289.4 |
| AUG01642 | 299479 | 6794691 | 0.250 | 50899.5 | 141727.3 | 9479.4 | 29160.0 | 5647.3 | 729.5 | 4691.1 | 874.8 | 5933.6 | 1191.3 | 3865.0 | 536.8 | 3530.0 | 511.7 | 33.9 | 1279.0 |
| AUG01814 | 298660 | 6794531 | 0.250 | 191166.4 | 306880.6 | 33938.7 | 103109.8 | 14842.9 | 1760.0 | 8771.3 | 1266.1 | 6817.3 | 1168.4 | 3167.5 | 399.7 | 2607.6 | 352.5 | 30.2 | 1277.1 |
| AUG01936 | 300738 | 6791194 | 0.100 | 220486.4 | 327964.0 | 34992.0 | 101826.7 | 14842.9 | 1806.3 | 9462.8 | 1243.1 | 6346.8 | 1111.1 | 2984.5 | 365.5 | 2140.8 | 272.9 | 42.7 | 1276.3 |
| AUG00948 | 296463 | 6793291 | 0.100 | 274435.2 | 455635.7 | 46812.0 | 122472.0 | 16002.5 | 1852.6 | 9370.6 | 1174.0 | 6013.9 | 1076.8 | 3178.9 | 399.7 | 2471.0 | 375.2 | 36.1 | 1271.0 |

| SampleID | NAT East | NAT North | Depth | La2O3 (ppb) | CeO2 (ppb) | Pr2O3 (ppb) | Nd2O3 (ppb) | Sm2O3 (ppb) | Eu2O3 (ppb) | Gd2O3 (ppb) | Tb2O3 (ppb) | Dy2O3 (ppb) | Ho2O3 (ppb) | Er2O3 (ppb) | Tm2O3 (ppb) | Yb2O3 (ppb) | Lu2O3 (ppb) | Y2O3 (ppb) | TREO (ppm) |
|----------|----------|-----------|-------|-------------|------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|------------|------------|
| AUG00425 | 297083 | 6791726 | 0.250 | 331902.4 | 414640.2 | 55940.3 | 158630.4 | 19017.4 | 2153.7 | 11641.3 | 1450.3 | 6817.3 | 1168.4 | 3121.8 | 434.0 | 2801.2 | 420.7 | 47.4 | 1269.3 |
| 23RD05 | 299267 | 6794643 | 0.100 | | | | | | | | | | | | | | | | 1267.2 |
| AUG00754 | 297464 | 6792193 | 0.500 | 221659.2 | 393556.8 | 40492.4 | 114540.5 | 11387.3 | 1030.5 | 6396.9 | 748.2 | 3041.4 | 526.9 | 1269.3 | 159.9 | 1081.8 | 147.8 | 18.7 | 1258.9 |
| AUG00043 | 298059 | 6790712 | 0.100 | 113996.2 | 288139.8 | 18256.7 | 51438.2 | 7560.6 | 787.4 | 4126.3 | 552.5 | 2731.5 | 435.3 | 1166.4 | 159.9 | 990.7 | 136.5 | 17.9 | 1258.1 |
| AUG01120 | 298301 | 6793471 | 0.250 | 197030.4 | 260028.6 | 35343.1 | 104276.2 | 14495.0 | 1910.5 | 8241.1 | 1070.4 | 5279.4 | 916.4 | 2412.8 | 296.9 | 1958.6 | 307.0 | 29.8 | 1256.8 |
| AUG01237 | 298126 | 6793170 | 0.100 | 357704.0 | 579793.5 | 49386.7 | 164462.4 | 20640.9 | 2165.3 | 11030.4 | 1358.2 | 6232.0 | 1076.8 | 2813.0 | 296.9 | 1992.7 | 272.9 | 38.2 | 1256.3 |
| AUG00249 | 298081 | 6791095 | 0.300 | 211104.0 | 293996.3 | 32534.3 | 97161.1 | 14958.8 | 1945.3 | 8586.9 | 1151.0 | 8653.7 | 962.2 | 2847.3 | 399.7 | 2619.0 | 363.9 | 38.4 | 1253.0 |
| AUG00388 | 297544 | 6791495 | 0.100 | 193512.0 | 243630.4 | 33821.7 | 96461.3 | 12755.6 | 1945.3 | 9601.2 | 1243.1 | 6335.3 | 1031.0 | 2835.9 | 399.7 | 2482.4 | 352.5 | 44.7 | 1250.3 |
| AUG02615 | 296603 | 6793295 | 0.100 | 379987.2 | 621960.3 | 60153.4 | 178459.2 | 22264.3 | 2142.1 | 11987.0 | 1484.8 | 7115.7 | 1237.1 | 3144.6 | 365.5 | 2118.0 | 295.6 | 42.8 | 1250.3 |
| 23RD14 | 298916 | 6789393 | 0.100 | 480848.0 | 573937.0 | 61791.8 | 179625.6 | 22264.3 | 4353.7 | 14407.5 | 1933.7 | 9755.5 | 1775.5 | 5020.0 | 639.6 | 4019.6 | 511.7 | 58.9 | 1243.9 |
| AUG01839 | 298823 | 6794369 | 0.100 | 125489.6 | 168667.2 | 25161.5 | 78965.3 | 14842.9 | 1424.2 | 10292.7 | 1542.3 | 8917.6 | 1729.7 | 5168.6 | 639.6 | 4019.6 | 579.9 | 54.9 | 1243.7 |
| 23RD12 | 298916 | 6789393 | 0.100 | 25097.9 | 32093.6 | 4049.2 | 15396.5 | 2945.4 | 1459.0 | 4276.1 | 656.1 | 4280.9 | 1008.0 | 3053.1 | 411.2 | 2300.2 | 318.4 | 42.7 | 1242.3 |
| AUG00849 | 295926 | 6793089 | 0.250 | 775220.8 | 1194726.0 | 127562.7 | 362750.4 | 43832.9 | 4087.4 | 25241.9 | 3199.8 | 15264.4 | 2646.1 | 6998.2 | 753.8 | 4486.5 | 636.8 | 108.8 | 1241.8 |
| AUG01739 | 299301 | 6794614 | 0.100 | 368259.2 | 623131.6 | 73845.9 | 222782.4 | 32468.8 | 3612.6 | 20170.5 | 3222.8 | 19510.9 | 3711.4 | 11663.7 | 1667.5 | 12184.1 | 1853.5 | 128.3 | 1239.4 |
| AUG01646 | 299400 | 6794693 | 0.500 | 262707.2 | 351390.0 | 46109.8 | 137635.2 | 20409.0 | 2304.2 | 14868.5 | 2428.6 | 15149.6 | 3138.7 | 10177.2 | 1404.8 | 9303.2 | 1455.5 | 133.3 | 1239.3 |
| AUG00949 | 296439 | 6793294 | 0.100 | 437454.4 | 510686.8 | 69866.9 | 187790.4 | 23887.8 | 2790.5 | 14753.3 | 1841.6 | 9663.6 | 1775.5 | 5157.2 | 662.4 | 4076.5 | 568.6 | 71.0 | 1235.8 |
| AUG01802 | 298901 | 6794534 | 0.500 | 688433.6 | 534112.8 | 107082.5 | 351086.4 | 64705.7 | 8429.5 | 66735.5 | 9979.2 | 64500.7 | 14318.8 | 44596.5 | 5367.9 | 33705.5 | 5185.2 | 560.0 | 1224.8 |
| AUG02071 | 298722 | 6788973 | 0.100 | 211104.0 | 268227.7 | 35694.2 | 107308.8 | 14842.9 | 1644.2 | 9140.1 | 1128.0 | 5669.6 | 1065.3 | 3064.6 | 388.3 | 2539.3 | 386.6 | 35.6 | 1224.0 |
| AUG01167 | 298865 | 6793313 | 0.250 | 435108.8 | 817567.4 | 74665.1 | 212284.8 | 26438.9 | 2257.9 | 14177.0 | 1692.0 | 7609.3 | 1248.6 | 3304.7 | 388.3 | 2357.1 | 307.0 | 39.6 | 1223.3 |
| AUG00583 | 296542 | 6792233 | 0.100 | 2275232.0 | 2530008.0 | 403753.5 | 1078920.0 | 105059.8 | 10015.8 | 58091.0 | 5985.2 | 22724.5 | 3574.0 | 10108.5 | 1290.6 | 7765.9 | 1182.6 | 179.1 | 1216.7 |
| AUG00658 | 295783 | 6792472 | 0.250 | 122832.0 | 350218.7 | 41896.7 | 104626.1 | 13335.4 | 1609.5 | 9681.8 | 1266.1 | 6817.3 | 996.6 | 3041.7 | 376.9 | 2026.9 | 261.5 | 46.4 | 1216.2 |
| AUG02371 | 297983 | 6792515 | 0.100 | 170056.0 | 115607.3 | 30778.9 | 98677.4 | 17162.1 | 2003.2 | 12563.3 | 1864.6 | 10478.5 | 2050.4 | 5843.3 | 696.7 | 4031.0 | 636.8 | 73.8 | 1205.4 |
| AUG01488 | 297673 | 6793958 | 0.100 | 216968.0 | 371302.1 | 40492.4 | 118972.8 | 17278.0 | 1574.7 | 10650.0 | 1323.7 | 6427.1 | 1134.0 | 3156.1 | 388.3 | 2322.9 | 329.8 | 30.6 | 1200.5 |
| AUG01236 | 298137 | 6793150 | 0.500 | 202894.4 | 324450.1 | 44003.3 | 127137.6 | 17394.0 | 1690.5 | 9071.0 | 1185.5 | 5933.6 | 1088.2 | 3201.8 | 388.3 | 2949.2 | 409.4 | 35.2 | 1199.3 |
| AUG00857 | 296084 | 6793089 | 0.500 | 436281.6 | 673497.5 | 78878.2 | 207619.2 | 26902.7 | 2917.9 | 14177.0 | 1749.5 | 8229.0 | 1397.5 | 4025.1 | 468.3 | 3233.9 | 477.6 | 43.4 | 1186.3 |
| AUG00120 | 297763 | 6790472 | 0.100 | 165364.8 | 491946.0 | 29959.7 | 86313.6 | 11166.9 | 1470.5 | 8045.1 | 1139.5 | 6415.6 | 1168.4 | 3624.9 | 536.8 | 3199.7 | 454.8 | 46.5 | 1183.7 |
| AUG01484 | 297683 | 6793793 | 0.100 | 344803.2 | 550511.0 | 52546.5 | 172627.2 | 21104.7 | 1875.8 | 11364.6 | 1208.6 | 5084.3 | 813.3 | 2035.4 | 228.4 | 1389.2 | 204.7 | 23.5 | 1182.9 |
| AUG00952 | 296381 | 6793291 | 0.100 | 293200.0 | 552853.6 | 50322.9 | 132969.6 | 17046.1 | 1817.9 | 9359.1 | 1105.0 | 5267.9 | 916.4 | 2435.7 | 308.4 | 1821.9 | 272.9 | 29.8 | 1180.2 |
| AUG01121 | 298319 | 6793466 | 0.250 | 377641.6 | 506001.6 | 72090.5 | 222782.4 | 31077.3 | 4041.1 | 17519.5 | 2279.0 | 11477.0 | 1970.3 | 5065.7 | 616.7 | 3632.5 | 523.1 | 58.7 | 1179.4 |
| AUG00031 | 297820 | 6790713 | 0.200 | 132526.4 | 290482.4 | 24810.4 | 71383.7 | 10668.3 | 1146.3 | 8275.7 | 1070.4 | 5772.9 | 973.7 | 2698.7 | 365.5 | 2061.0 | 284.3 | 42.9 | 1175.7 |
| AUG00592 | 296365 | 6792233 | 0.100 | 246288.0 | 517714.6 | 49854.8 | 136468.8 | 13567.3 | 1922.1 | 8540.8 | 1139.5 | 5245.0 | 801.9 | 2241.3 | 285.5 | 1776.4 | 238.8 | 35.3 | 1172.0 |
| AUG01643 | 299468 | 6794693 | 0.100 | 99336.2 | 1014345.8 | 21884.6 | 67534.6 | 12639.6 | 1736.9 | 11180.2 | 2198.4 | 16182.6 | 3700.0 | 12807.2 | 1804.5 | 11728.6 | 1796.6 | 149.8 | 1168.8 |
| AUG01483 | 297661 | 6793792 | 0.100 | 225177.6 | 326792.7 | 40726.4 | 122472.0 | 16234.4 | 1736.9 | 10189.0 | 1197.0 | 5876.2 | 1053.9 | 2996.0 | 365.5 | 2322.9 | 341.1 | 34.5 | 1165.8 |
| AUG00578 | 296642 | 6792231 | 0.100 | 146600.0 | 267056.4 | 28321.3 | 74649.6 | 7433.0 | 1088.4 | 4852.4 | 621.5 | 2961.1 | 481.1 | 1417.9 | 205.6 | 1377.8 | 204.7 | 19.0 | 1165.7 |
| AUG00186 | 297837 | 6790749 | 0.400 | 236905.6 | 709807.8 | 44822.5 | 125971.2 | 17046.1 | 1621.1 | 10569.3 | 1461.8 | 7333.8 | 1202.8 | 3247.5 | 445.4 | 2641.8 | 329.8 | 43.3 | 1165.2 |
| AUG00185 | 297855 | 6790771 | 0.500 | 146600.0 | 501316.4 | 27853.1 | 75816.0 | 11201.7 | 1076.8 | 7676.3 | 1128.0 | 6174.6 | 1088.2 | 3064.6 | 456.8 | 2812.6 | 363.9 | 36.8 | 1163.4 |

| SampleID | NAT East | NAT North | Depth | La2O3 (ppb) | CeO2 (ppb) | Pr2O3 (ppb) | Nd2O3 (ppb) | Sm2O3 (ppb) | Eu2O3 (ppb) | Gd2O3 (ppb) | Tb2O3 (ppb) | Dy2O3 (ppb) | Ho2O3 (ppb) | Er2O3 (ppb) | Tm2O3 (ppb) | Yb2O3 (ppb) | Lu2O3 (ppb) | Y2O3 (ppb) | TREO (ppm) |
|----------|----------|-----------|-------|-------------|------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|------------|------------|
| AUG01018 | 296262 | 6793471 | 0.250 | 391715.2 | 822252.6 | 70218.0 | 194788.8 | 26322.9 | 2929.5 | 16251.7 | 2163.9 | 10776.9 | 1855.7 | 4928.5 | 582.5 | 3609.7 | 534.4 | 69.1 | 1162.1 |
| AUG00003 | 297262 | 6790714 | 1.000 | 324865.6 | 525913.7 | 50908.1 | 148132.8 | 18553.6 | 2119.0 | 12909.1 | 1553.9 | 7701.1 | 1294.4 | 3556.3 | 456.8 | 2516.5 | 341.1 | 52.4 | 1159.5 |
| AUG00664 | 295902 | 6792472 | 0.500 | 194684.8 | 235431.3 | 38619.9 | 91445.8 | 11456.8 | 1459.0 | 7549.5 | 1012.9 | 5635.2 | 859.1 | 2893.1 | 388.3 | 2220.5 | 284.3 | 35.0 | 1159.0 |
| AUG01414 | 296362 | 6793628 | 0.100 | 147772.8 | 317422.3 | 28204.2 | 88646.4 | 15190.8 | 1609.5 | 10477.1 | 1542.3 | 8401.2 | 1466.2 | 4208.1 | 536.8 | 3564.1 | 568.6 | 44.7 | 1155.9 |
| AUG02522 | 298579 | 6792100 | 0.100 | 201721.6 | 298681.5 | 33587.6 | 93545.3 | 12871.6 | 1227.4 | 7146.1 | 909.3 | 4292.4 | 744.6 | 2069.7 | 262.7 | 1594.2 | 238.8 | 23.7 | 1153.7 |
| AUG00853 | 296002 | 6793096 | 0.500 | 493748.8 | 503659.0 | 102752.3 | 279936.0 | 33860.3 | 2929.5 | 15675.4 | 1864.6 | 8252.0 | 1271.5 | 3407.6 | 399.7 | 2687.3 | 363.9 | 35.6 | 1148.5 |
| AUG00661 | 295843 | 6792469 | 0.250 | 195857.6 | 258857.3 | 37566.6 | 93661.9 | 12755.6 | 2119.0 | 9117.1 | 1116.5 | 5899.2 | 882.0 | 2801.6 | 365.5 | 2061.0 | 284.3 | 44.6 | 1143.6 |
| AUG01598 | 299302 | 6794852 | 0.250 | 435108.8 | 774229.3 | 78410.1 | 239112.0 | 34788.0 | 3797.9 | 22706.2 | 3280.4 | 18592.7 | 3516.7 | 10817.5 | 1404.8 | 9599.2 | 1398.6 | 116.6 | 1143.6 |
| 23RD20 | 301428 | 6791624 | 0.100 | 337766.4 | 668812.3 | 59217.2 | 170294.4 | 20293.0 | 2385.3 | 12678.6 | 1588.4 | 8091.3 | 1374.6 | 3899.3 | 525.4 | 3006.2 | 409.4 | 54.7 | 1143.0 |
| AUG00939 | 296820 | 6793291 | 0.100 | 181784.0 | 401755.9 | 26565.8 | 79898.4 | 11596.0 | 1516.8 | 7664.8 | 1070.4 | 5830.3 | 1099.7 | 3327.6 | 388.3 | 2812.6 | 420.7 | 36.6 | 1141.6 |
| AUG01742 | 299363 | 6794610 | 0.100 | 121971.2 | 152269.0 | 18607.8 | 54587.5 | 7769.3 | 1100.0 | 4990.8 | 667.6 | 3638.2 | 698.8 | 1978.3 | 251.3 | 1605.6 | 227.4 | 27.8 | 1140.6 |
| AUG00413 | 297322 | 6791730 | 0.250 | 186475.2 | 569251.8 | 34406.8 | 98210.9 | 12407.7 | 1679.0 | 8091.3 | 1070.4 | 5279.4 | 962.2 | 2744.4 | 399.7 | 2789.8 | 443.5 | 37.2 | 1138.2 |
| AUG01546 | 296504 | 6793955 | 1.000 | 71658.1 | 214347.9 | 12990.3 | 40357.4 | 5728.4 | 787.4 | 3941.9 | 494.9 | 2697.1 | 515.5 | 1669.5 | 171.3 | 1366.4 | 216.0 | 15.2 | 1135.9 |
| AUG02611 | 296522 | 6793293 | 0.100 | 331902.4 | 504830.3 | 52312.4 | 143467.2 | 17278.0 | 1621.1 | 8748.2 | 920.8 | 3994.0 | 664.4 | 1738.1 | 205.6 | 1229.8 | 181.9 | 21.7 | 1135.6 |
| AUG00405 | 297485 | 6791730 | 0.250 | 532451.2 | 879646.3 | 95028.4 | 267105.6 | 32584.8 | 3045.3 | 17750.0 | 2232.9 | 10053.9 | 1535.0 | 3865.0 | 525.4 | 3268.1 | 432.1 | 54.1 | 1135.6 |
| AUG01382 | 297000 | 6793635 | 0.100 | 174747.2 | 440408.8 | 34055.7 | 103226.4 | 14031.2 | 1794.7 | 8137.4 | 1024.4 | 5130.2 | 916.4 | 2595.7 | 331.2 | 2026.9 | 295.6 | 26.8 | 1121.3 |
| AUG00027 | 297742 | 6790711 | 0.100 | 78343.0 | 165153.3 | 14277.7 | 38491.2 | 5218.2 | 683.2 | 3550.0 | 483.4 | 2674.1 | 469.7 | 1406.5 | 194.2 | 1252.6 | 181.9 | 21.0 | 1120.4 |
| AUG01456 | 297124 | 6793793 | 0.100 | 184129.6 | 270570.3 | 35109.0 | 104159.5 | 13915.2 | 1435.8 | 8229.6 | 1093.5 | 5451.6 | 939.3 | 2401.4 | 251.3 | 1605.6 | 204.7 | 29.6 | 1119.3 |
| AUG00806 | 297501 | 6792430 | 0.250 | 138390.4 | 260028.6 | 27502.1 | 77915.5 | 8789.8 | 949.5 | 4771.8 | 598.5 | 2869.3 | 481.1 | 1337.9 | 182.7 | 1172.9 | 159.2 | 22.5 | 1112.1 |
| AUG01682 | 301140 | 6791191 | 0.100 | 38937.0 | 80585.4 | 7454.8 | 24027.8 | 5009.5 | 752.6 | 5209.8 | 966.8 | 6679.6 | 1454.8 | 4745.5 | 651.0 | 4156.3 | 579.9 | 43.3 | 1105.0 |
| AUG01800 | 298942 | 6794535 | 0.100 | 137217.6 | 592677.8 | 30778.9 | 94945.0 | 17857.8 | 1991.6 | 13139.6 | 2048.8 | 12854.2 | 2497.2 | 7901.6 | 1050.7 | 7720.4 | 1103.0 | 63.5 | 1104.6 |
| AUG00341 | 296481 | 6791348 | 0.250 | 175920.0 | 264713.8 | 32300.3 | 90979.2 | 10587.1 | 1354.7 | 6028.1 | 748.2 | 3466.1 | 572.8 | 1566.6 | 217.0 | 1309.5 | 170.6 | 22.0 | 1104.3 |
| AUG00655 | 295723 | 6792470 | 0.250 | 179438.4 | 616103.8 | 37566.6 | 88646.4 | 11827.9 | 1250.5 | 8552.3 | 1162.5 | 6289.4 | 870.6 | 2698.7 | 331.2 | 1867.5 | 250.2 | 39.1 | 1103.5 |
| AUG00002 | 297244 | 6790710 | 1.000 | 185302.4 | 315079.7 | 30661.9 | 85147.2 | 10227.7 | 1181.1 | 6788.8 | 886.3 | 4533.4 | 767.5 | 2207.0 | 296.9 | 1673.9 | 216.0 | 32.1 | 1100.9 |
| AUG00032 | 297839 | 6790712 | 0.500 | 152464.0 | 890188.0 | 27502.1 | 76165.9 | 10448.0 | 1134.7 | 7203.8 | 920.8 | 4671.1 | 756.0 | 2081.2 | 274.1 | 1617.0 | 216.0 | 27.9 | 1100.7 |
| AUG00397 | 297724 | 6791494 | 1.000 | 276780.8 | 371302.1 | 41896.7 | 117806.4 | 14379.0 | 2084.2 | 9716.4 | 1162.5 | 5233.5 | 790.4 | 2058.3 | 274.1 | 1787.8 | 227.4 | 32.5 | 1098.9 |
| AUG00673 | 296083 | 6792470 | 0.250 | 145427.2 | 380672.5 | 29257.5 | 68234.4 | 8824.6 | 1065.3 | 5693.8 | 725.1 | 3810.4 | 538.4 | 1715.3 | 228.4 | 1298.1 | 170.6 | 24.8 | 1091.3 |
| AUG01021 | 296321 | 6793467 | 0.250 | 354185.6 | 654756.7 | 61557.8 | 162129.6 | 22612.2 | 2570.5 | 13485.4 | 1841.6 | 9170.1 | 1569.3 | 4093.7 | 479.7 | 2824.0 | 420.7 | 47.7 | 1090.0 |
| AUG00268 | 297645 | 6791294 | 0.250 | 241596.8 | 514200.7 | 35460.1 | 103809.6 | 14842.9 | 2014.7 | 8552.3 | 1093.5 | 7999.5 | 859.1 | 2378.5 | 308.4 | 1844.7 | 250.2 | 36.8 | 1088.2 |
| AUG01478 | 297561 | 6793793 | 0.100 | 186475.2 | 320936.2 | 36513.4 | 107542.1 | 14031.2 | 1540.0 | 7457.3 | 874.8 | 4143.2 | 710.2 | 1932.5 | 228.4 | 1343.7 | 204.7 | 20.3 | 1085.0 |
| AUG00129 | 297582 | 6790473 | 0.100 | 228696.0 | 377158.6 | 36864.5 | 106259.0 | 12639.6 | 1459.0 | 8517.7 | 1116.5 | 5818.8 | 985.1 | 2847.3 | 399.7 | 2334.3 | 329.8 | 40.3 | 1084.8 |
| AUG00751 | 297401 | 6792195 | 0.500 | 214622.4 | 365445.6 | 42130.8 | 122472.0 | 12639.6 | 1204.2 | 7837.7 | 966.8 | 4062.9 | 710.2 | 1738.1 | 217.0 | 1480.3 | 204.7 | 25.7 | 1083.2 |
| AUG02429 | 297785 | 6792277 | 0.100 | 205240.0 | 308051.9 | 30427.8 | 85613.8 | 10343.6 | 1007.4 | 4944.7 | 610.0 | 2788.9 | 446.7 | 1143.5 | 125.6 | 751.5 | 102.3 | 14.1 | 1079.5 |
| AUG01433 | 296667 | 6793799 | 0.100 | 314310.4 | 424010.6 | 52195.4 | 184291.2 | 24467.6 | 2501.1 | 14753.3 | 1841.6 | 8699.6 | 1454.8 | 3796.4 | 365.5 | 2277.4 | 318.4 | 52.8 | 1077.1 |
| AUG00954 | 296341 | 6793291 | 0.100 | 655595.2 | 1153730.5 | 108720.9 | 319593.6 | 37687.0 | 4654.8 | 22245.2 | 2773.9 | 13887.2 | 2439.9 | 6575.1 | 822.3 | 4793.9 | 648.1 | 90.4 | 1076.3 |
| AUG01453 | 297062 | 6793792 | 0.100 | 170056.0 | 315079.7 | 32066.2 | 97044.5 | 13103.5 | 1459.0 | 7664.8 | 966.8 | 4797.4 | 824.8 | 2218.4 | 239.8 | 1639.7 | 227.4 | 24.9 | 1072.0 |

| SampleID | NAT East | NAT North | Depth | La2O3 (ppb) | CeO2 (ppb) | Pr2O3 (ppb) | Nd2O3 (ppb) | Sm2O3 (ppb) | Eu2O3 (ppb) | Gd2O3 (ppb) | Tb2O3 (ppb) | Dy2O3 (ppb) | Ho2O3 (ppb) | Er2O3 (ppb) | Tm2O3 (ppb) | Yb2O3 (ppb) | Lu2O3 (ppb) | Y2O3 (ppb) | TREO (ppm) |
|----------|----------|-----------|-------|-------------|------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|------------|------------|
| AUG02068 | 298665 | 6788978 | 0.100 | 204067.2 | 235431.3 | 33470.6 | 97627.7 | 13451.4 | 1459.0 | 7757.0 | 989.9 | 4785.9 | 824.8 | 2184.1 | 262.7 | 1617.0 | 227.4 | 27.2 | 1071.3 |
| AUG00951 | 296403 | 6793289 | 0.100 | 307273.6 | 411126.3 | 50205.9 | 132969.6 | 17394.0 | 1945.3 | 10223.6 | 1254.6 | 6404.2 | 1145.5 | 3201.8 | 411.2 | 2482.4 | 375.2 | 37.8 | 1069.7 |
| AUG02610 | 296504 | 6793294 | 0.100 | 419862.4 | 641872.4 | 65302.7 | 181958.4 | 21452.6 | 1910.5 | 9762.5 | 1035.9 | 4189.1 | 698.8 | 1795.3 | 217.0 | 1286.7 | 181.9 | 22.4 | 1069.1 |
| AUG01825 | 298543 | 6794367 | 0.250 | 235732.8 | 204977.5 | 41428.6 | 115706.9 | 14958.8 | 1516.8 | 6500.7 | 805.7 | 3420.1 | 481.1 | 1097.8 | 114.2 | 694.6 | 91.0 | 12.3 | 1066.6 |
| AUG02511 | 298808 | 6792088 | 0.100 | 103206.4 | 153440.3 | 17788.6 | 51205.0 | 7212.7 | 856.8 | 4564.3 | 541.0 | 2708.6 | 481.1 | 1395.1 | 182.7 | 1150.1 | 170.6 | 14.9 | 1059.4 |
| AUG00426 | 297061 | 6791730 | 0.100 | 365913.6 | 624302.9 | 59334.2 | 169128.0 | 19945.1 | 2165.3 | 12332.8 | 1507.8 | 6794.4 | 1145.5 | 3087.5 | 411.2 | 2744.3 | 398.0 | 52.7 | 1055.5 |
| AUG01459 | 297183 | 6793793 | 0.100 | 147772.8 | 196778.4 | 24810.4 | 74649.6 | 9984.2 | 1181.1 | 6212.5 | 782.7 | 3810.4 | 664.4 | 1783.9 | 182.7 | 1218.4 | 170.6 | 19.9 | 1051.9 |
| AUG01161 | 298743 | 6793308 | 0.250 | 179438.4 | 353732.6 | 30076.7 | 85613.8 | 10888.6 | 1401.1 | 6558.3 | 851.7 | 4258.0 | 824.8 | 2527.1 | 342.6 | 2288.8 | 341.1 | 30.5 | 1049.1 |
| AUG01300 | 298282 | 6792991 | 0.100 | 245115.2 | 384186.4 | 43301.1 | 146966.4 | 19713.2 | 2026.3 | 12102.3 | 1507.8 | 7276.4 | 1248.6 | 3373.3 | 445.4 | 2653.2 | 432.1 | 40.9 | 1048.6 |
| AUG00036 | 297923 | 6790709 | 0.200 | 449182.4 | 662955.8 | 66473.0 | 197121.6 | 28874.0 | 2176.9 | 15214.3 | 1933.7 | 8906.2 | 1443.3 | 3933.6 | 513.9 | 3268.1 | 454.8 | 69.0 | 1046.1 |
| AUG01071 | 297324 | 6793470 | 1.000 | 219313.6 | 364274.3 | 41779.7 | 122472.0 | 16350.4 | 1968.4 | 8759.8 | 1174.0 | 5566.3 | 939.3 | 2790.1 | 331.2 | 1935.8 | 238.8 | 30.5 | 1040.5 |
| AUG01432 | 296647 | 6793795 | 0.100 | 189993.6 | 447436.6 | 40141.3 | 115590.2 | 15770.6 | 1817.9 | 8460.1 | 1139.5 | 5520.4 | 904.9 | 2492.8 | 274.1 | 1981.3 | 284.3 | 26.5 | 1035.3 |
| AUG02432 | 297581 | 6792190 | 0.100 | 282644.8 | 420496.7 | 42598.9 | 115240.3 | 13219.4 | 1366.3 | 6708.1 | 771.2 | 3466.1 | 572.8 | 1486.6 | 171.3 | 1059.0 | 147.8 | 19.0 | 1032.0 |
| AUG00122 | 297727 | 6790468 | 0.100 | 213449.6 | 452121.8 | 36864.5 | 103343.0 | 12175.8 | 1389.5 | 7365.1 | 943.8 | 4682.6 | 767.5 | 2149.8 | 296.9 | 1685.3 | 216.0 | 27.6 | 1032.0 |
| AUG01943 | 300601 | 6791194 | 0.500 | 114113.4 | 221375.7 | 19192.9 | 57037.0 | 8453.5 | 1053.7 | 5244.3 | 690.6 | 3569.3 | 641.5 | 1841.0 | 239.8 | 1525.9 | 204.7 | 22.1 | 1031.3 |
| AUG00403 | 297525 | 6791733 | 0.250 | 100860.8 | 243630.4 | 16618.3 | 44906.4 | 6053.1 | 764.2 | 3895.8 | 541.0 | 2811.9 | 481.1 | 1349.3 | 194.2 | 1275.3 | 170.6 | 14.6 | 1015.4 |
| AUG00424 | 297105 | 6791732 | 0.250 | 179438.4 | 254172.1 | 32651.4 | 88063.2 | 10853.9 | 1250.5 | 6777.3 | 851.7 | 4097.3 | 710.2 | 1932.5 | 262.7 | 1753.6 | 261.5 | 28.6 | 1010.2 |
| AUG00005 | 297304 | 6790714 | 1.000 | 189993.6 | 242459.1 | 31949.2 | 89579.5 | 10448.0 | 1123.2 | 6662.0 | 851.7 | 4154.7 | 687.3 | 1852.5 | 239.8 | 1355.1 | 181.9 | 28.7 | 1009.2 |
| AUG00612 | 295963 | 6792229 | 0.100 | 433936.0 | 701608.7 | 89176.9 | 225115.2 | 25743.1 | 2281.1 | 13024.4 | 1576.9 | 7150.2 | 1145.5 | 3098.9 | 411.2 | 2505.1 | 352.5 | 52.3 | 1008.8 |
| AUG00595 | 296307 | 6792236 | 0.100 | 266225.6 | 411126.3 | 45407.6 | 130636.8 | 12871.6 | 1991.6 | 8736.7 | 1116.5 | 5118.7 | 801.9 | 2229.8 | 285.5 | 1696.7 | 250.2 | 38.2 | 1006.9 |
| AUG00800 | 297618 | 6792432 | 0.250 | 262707.2 | 436894.9 | 52078.4 | 150465.6 | 16350.4 | 1841.1 | 8575.3 | 1093.5 | 5267.9 | 847.7 | 2344.2 | 319.8 | 2072.4 | 295.6 | 40.3 | 1005.4 |

JORC Code, 2012 Edition – Table 1 report template

Section 1 Sampling Techniques and Data

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

| Criteria | JORC Code explanation | Commentary |
|-----------------------|---|--|
| Sampling techniques | <ul style="list-style-type: none"> 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. Include reference to measures taken to ensure sample representivity and the appropriate calibration of any measurement tools or systems used. Aspects of the determination of mineralisation that are Material to the Public Report. In cases where 'industry standard' work has been done this would be relatively simple (eg 'reverse circulation drilling was used to obtain 1 m samples from which 3 kg was pulverised to produce a 30 g charge for fire assay'). In other cases more explanation may be required, such as where there is coarse gold that has inherent sampling problems. Unusual commodities or mineralisation types (eg submarine nodules) may warrant disclosure of detailed information. | <ul style="list-style-type: none"> Auger soil sampling is a reconnaissance stage technique and offers only an indication of the tenor of underlying mineralisation. Auger soil samples were taken from drilled spoil, scooped by hand from the top of the spoil pile to represent end of hole material. Samples were sieved to 2mm and 1-2kg of material was collected in numbered calico bags. Sample preparation and laboratory analysis was undertaken at LabWest Minerals Analysis Pty Ltd, Perth, Western Australia. Samples were dried, crushed (~2mm) and rotary divided where required. Pulverisation to 85% passing 75 microns is undertaken by LM1 mill, and bowls are barren-washed after each sample. For gold analysis (WAR-25); A 25g portion of pulverised sample is analysed for gold content using aqua-regia digestion, with determination by ICP-MS to achieve high recovery and low detection limits (0.5ppb). For 64 element geochemical analysis (MMA-04); the MMA technique is a microwave-assisted, HF-based digestion that effectively offers total recovery for all but the most refractory of minerals. A portion of sample is digested in an HF-based acid mixture under high pressure and temperature in microwave apparatus for analysis, with determination of 64 elements including Rare-Earths by a combination of ICP-MS and ICP-OES. |
| Drilling techniques | <ul style="list-style-type: none"> 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). | <ul style="list-style-type: none"> Auger holes were drilled vertically down to a maximum depth of 1m with the average hole depth of approx. 0.5m Auger diameter was 300 mm. |
| Drill sample recovery | <ul style="list-style-type: none"> Method of recording and assessing core and chip sample recoveries and results assessed. Measures taken to maximise sample recovery and ensure representative nature of the samples. Whether a relationship exists between sample recovery and grade | <ul style="list-style-type: none"> Auger sample recoveries are considered to be 100%. Some sample bias may have occurred during augering through sandy soils, in which material may have fallen into the hole and diluted the end of hole sample. |

| Criteria | JORC Code explanation | Commentary |
|--|--|--|
| | <i>and whether sample bias may have occurred due to preferential loss/gain of fine/coarse material.</i> | |
| Logging | <ul style="list-style-type: none"> • 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. • Whether logging is qualitative or quantitative in nature. Core (or costean, channel, etc) photography. • The total length and percentage of the relevant intersections logged. | <ul style="list-style-type: none"> • Samples were qualitatively logged with colour, and lithology of end of hole material. |
| Sub-sampling techniques and sample preparation | <ul style="list-style-type: none"> • If core, whether cut or sawn and whether quarter, half or all core taken. • If non-core, whether riffled, tube sampled, rotary split, etc and whether sampled wet or dry. • For all sample types, the nature, quality and appropriateness of the sample preparation technique. • Quality control procedures adopted for all sub-sampling stages to maximise representivity of samples. • 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. • Whether sample sizes are appropriate to the grain size of the material being sampled. | <ul style="list-style-type: none"> • All company samples submitted for analysis underwent drying and were pulverized to 85 % passing 75 microns each, from which a 0.25 g charge was taken for four-acid digest and ICP analysis. • This sample preparation technique is considered appropriate for the type and tenor of mineralisation. • The laboratory inserted certified reference material and blanks into the analytical sequence and analysed lab duplicates. These appear to confirm accuracy and precision of the sample assays. |
| Quality of assay data and laboratory tests | <ul style="list-style-type: none"> • The nature, quality and appropriateness of the assaying and laboratory procedures used and whether the technique is considered partial or total. • 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. • Nature of quality control procedures adopted (eg standards, blanks, duplicates, external laboratory checks) and whether acceptable levels of accuracy (ie lack of bias) and precision have been established. | <ul style="list-style-type: none"> • Assaying was completed by Labwest Minerals Analysis Pty Ltd, 10 Hod Way, Malaga WA 6090. • For gold analysis (WAR-25); A 25g portion of pulverised sample is analysed for gold content using aqua-regia digestion, with determination by ICP-MS to achieve high recovery and low detection limits (0.5ppb). • For 64 element geochemical analysis (MMA-04); the MMA technique is a microwave-assisted, HF-based digestion that effectively offers total recovery for all but the most refractory of minerals. A portion of sample is digested in an HF-based acid mixture under high pressure and temperature in microwave apparatus for analysis, with determination of 64 elements including Rare-Earths by a combination of ICP-MS and ICP-OES from the historical reports. |
| Verification of sampling | <ul style="list-style-type: none"> • The verification of significant intersections by either independent | <ul style="list-style-type: none"> • This release refers to 2,439 results of a recently completed auger program. |

| Criteria | JORC Code explanation | Commentary |
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| <i>and assaying</i> | <p><i>or alternative company personnel.</i></p> <ul style="list-style-type: none"> <i>The use of twinned holes.</i> <i>Documentation of primary data, data entry procedures, data verification, data storage (physical and electronic) protocols.</i> <i>Discuss any adjustment to assay data.</i> | <ul style="list-style-type: none"> Data was recorded digitally and in hard copy by on-site Company field staff. All field data is directly recorded in hard copy, then sent electronically to the Chief Technical Officer in the office. Assay files are received electronically from the Laboratory. All data is stored in an Access database system, and maintained by the Database Manager All results have been collated and checked by the Company's Chief Technical Officer. |
| <i>Location of data points</i> | <ul style="list-style-type: none"> <i>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.</i> <i>Specification of the grid system used.</i> <i>Quality and adequacy of topographic control.</i> | <ul style="list-style-type: none"> The coordinate system used is MGA_94 Zone 51. A handheld GPS was used to record the position of the auger holes. Horizontal accuracy was +/- 3 metres. Location accuracy at collars is considered adequate for this stage of exploration. |
| <i>Data spacing and distribution</i> | <ul style="list-style-type: none"> <i>Data spacing for reporting of Exploration Results.</i> <i>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.</i> <i>Whether sample compositing has been applied.</i> | <ul style="list-style-type: none"> Company auger hole spacing was approximately 20 metres along 500 metre-spaced lines. The spacing is appropriate for this stage of exploration. The samples are not appropriate for Mineral Resource estimation. |
| <i>Orientation of data in relation to geological structure</i> | <ul style="list-style-type: none"> <i>Whether the orientation of sampling achieves unbiased sampling of possible structures and the extent to which this is known, considering the deposit type.</i> <i>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.</i> | <ul style="list-style-type: none"> Known REE-bearing dykes strike NW. Further work is required to understand the geometries of dyke-bearing structures. Sampling was completed on east-west oriented lines, roughly sub-perpendicular to the orientation of known REE-bearing dykes |
| <i>Sample security</i> | <ul style="list-style-type: none"> <i>The measures taken to ensure sample security.</i> | <ul style="list-style-type: none"> Company samples were kept by the company representatives and submitted directly to the laboratory. |
| <i>Audits or reviews</i> | <ul style="list-style-type: none"> <i>The results of any audits or reviews of sampling techniques and data.</i> | <ul style="list-style-type: none"> No audits or reviews beyond consultant geologists have been conducted on the exploration data. |

Section 2 Reporting of Exploration Results

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

| Criteria | JORC Code explanation | Commentary |
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| Mineral tenement and land tenure status | <ul style="list-style-type: none"> 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. 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. | <ul style="list-style-type: none"> Auger drilling was completed on granted exploration licenses E37/1311 and E37/1376. The Company holds 100% interest in the tenement. The tenements are in good standing. |
| Exploration done by other parties | <ul style="list-style-type: none"> Acknowledgment and appraisal of exploration by other parties. | <ul style="list-style-type: none"> The historical auger, rock chip and trench sampling have been referred to in previous releases, refer MQR Release dated 18/08/2021. Vedo Energy Pty Ltd took 2 samples of the Redlings Dyke exposed in a historical trench in 2007. North East Minerals Pty Ltd collected 25 rock chip samples in 2011. Victory Mines Pty Ltd collected 23 rock chip samples and completed 1,305 auger samples between 2012 and 2015. |
| Geology | <ul style="list-style-type: none"> Deposit type, geological setting and style of mineralisation. | <ul style="list-style-type: none"> The project is located in the northern Eastern Goldfields of Western Australia, in granitic rocks between the Mt Ida and Norseman-Wiluna Greenstone Belts. The Redlings REE mineralisation is located within a structural zone, up to 25m wide, that has been intruded by multiple carbonatitic dykes with pervasive fenitic alteration of granitic country rocks. Due to the early stage of exploration, further work is required to better define and understand the geology and mineralisation of the prospect. |
| Drill hole Information | <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> 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 | <ul style="list-style-type: none"> All hole locations drilled as part of this program are identified in Figure 1. Significant assays using a 0.1% TREO lower cut-off have been reported in this announcement in Appendix 1 and displayed in Figure 1.. |

| Criteria | JORC Code explanation | Commentary |
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| | <ul style="list-style-type: none"> ○ hole length. ● 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. | |
| Data aggregation methods | <ul style="list-style-type: none"> ● 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. ● 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. ● The assumptions used for any reporting of metal equivalent values should be clearly stated. | <ul style="list-style-type: none"> ● No data aggregation methods have been used. |
| Relationship between mineralisation widths and intercept lengths | <ul style="list-style-type: none"> ● These relationships are particularly important in the reporting of Exploration Results. ● If the geometry of the mineralisation with respect to the drill hole angle is known, its nature should be reported. ● 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'). | <ul style="list-style-type: none"> ● Auger drilling is considered reconnaissance in nature and does not provide any indication on the geometry of mineralisation. |
| Diagrams | <ul style="list-style-type: none"> ● 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. | <ul style="list-style-type: none"> ● See Figures within the body of the document |
| Balanced reporting | <ul style="list-style-type: none"> ● 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. | <ul style="list-style-type: none"> ● Significant assays using a 0.1% TREO lower cut-off have been reported in this announcement in Table 1 and displayed in Figure 1. |

| Criteria | JORC Code explanation | Commentary |
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| <i>Other substantive exploration data</i> | <ul style="list-style-type: none"> <i>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.</i> | <ul style="list-style-type: none"> All available geological, geophysical and geochemical data has been integrated and interpreted by company geologists. All historical auger soil samples (refer MQR ASX releases dated 11th Nov 2020, 18th Aug 2021 & 26th April 2022) have been shown in Figure 1. |
| <i>Further work</i> | <ul style="list-style-type: none"> <i>The nature and scale of planned further work (eg tests for lateral extensions or depth extensions or large-scale step-out drilling).</i> <i>Diagrams clearly highlighting the areas of possible extensions, including the main geological interpretations and future drilling areas, provided this information is not commercially sensitive.</i> | <ul style="list-style-type: none"> Ground gravity gradiometer survey. Infill auger geochemistry. Follow-up RC drilling of targets identified from geophysical and geochemical studies. |