MOUNT RIDLEY MINES

ASX ANNOUNCEMENT

# RARE EARTH ELEMENT POTENTIAL UNVEILED AT MOUNT RIDLEY

**2 August 2021**

Mount Ridley Mines Ltd (ASX: MRD) (or "the Company") is pleased to provide the following update on its 100% owned Mount Ridley Project.

## HIGHLIGHTS

- Laterally extensive rare earth element (REE[2]) deposits identified at 100% owned Mount Ridley Project, located from 35 km northeast of the port of Esperance, Western Australia. Model is ionic adsorption clay.
- Re-assay of 950 air core samples (162 pending) returned significant REE values over an apparent strike in excess of 25 km with over 20 samples returning **>1,000 ppm** TREO. Mineralisation remains open in all directions with a peak value so far at the Keith's Prospect from MRAC0711 with **10,461ppm** (1.05%) from 23m downhole.
- Significant REE intersections over five prospects include:
    - Winston's
        - MRAC0617: 24 to 36m, 12m at **1,455 ppm** TREO
        - MRAC0605: 4 to 17m, 13m at **1,217 ppm** TREO
    - The Lake
        - MRAC0721: 52 to 68m, 16m at **2,020 ppm** TREO
        - MRAC0717: 32 to 44m, 12m at **1,551 ppm** TREO
    - Keith's
        - MRAC0711: 16 to 24m, 8m at **2,632 ppm** TREO
        - MRAC0695: 24 to 40m, 16m at **1,081 ppm** TREO
    - Marcellus
        - MRAC0677: 12 to 20m, 8m at **1,362 ppm** TREO
        - MRAC0679: 16 to 28m, 12m at **867 ppm** TREO
    - Tyrrell's
        - MRAC0684: 24 to 31m, 7m at **1,441 ppm** TREO
- Results compare favourably to the Ugandan Makuutu resource[1] (**Ionic Rare Earths Ltd** (ASX: **IXR)** earning 60%) with a cut-off grade of approximately 250ppm TREO[2]) for total JORC Inferred and Indicated Resources of 78.6Mt @ 840ppm TREO.
- Ground position prospective for REE recently expanded to 3,400km$^2$.
- Planning underway for a 25,000m aircore program to test newly acquired tenements in addition to step-out and infill holes.

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[2] 14 rare earth elements (REE) were analysed: cerium (Ce), dysprosium (Dy), erbium (Er), europium (Eu), gadolinium (Gd), holmium (Ho), lanthanum (La), lutetium (Lu), neodymium (Nd), samarium (Sm), terbium (Tb), thulium (Tm), ytterbium (Yb), and yttrium (Y).

[1] Ionic Rare Earths Limited announcement to ASX dated 3 March 2021.

[2] TREO means the sum of the 14 REE, each converted to its respective element oxide equivalent using the formulae in Appendix 2 Section 2.

Mount Ridley's Chairman Mr. Peter Christie commented:

> *"The identification of relatively shallow REE accumulations within the Company's extensive land holding was the result of a critical re-examination of data generated during nickel drilling campaigns at the Mount Ridley Project over the previous 5 years".*

Based on the clusters of existing drill holes with REE results available, the Project has been grouped into five exploration prospects.

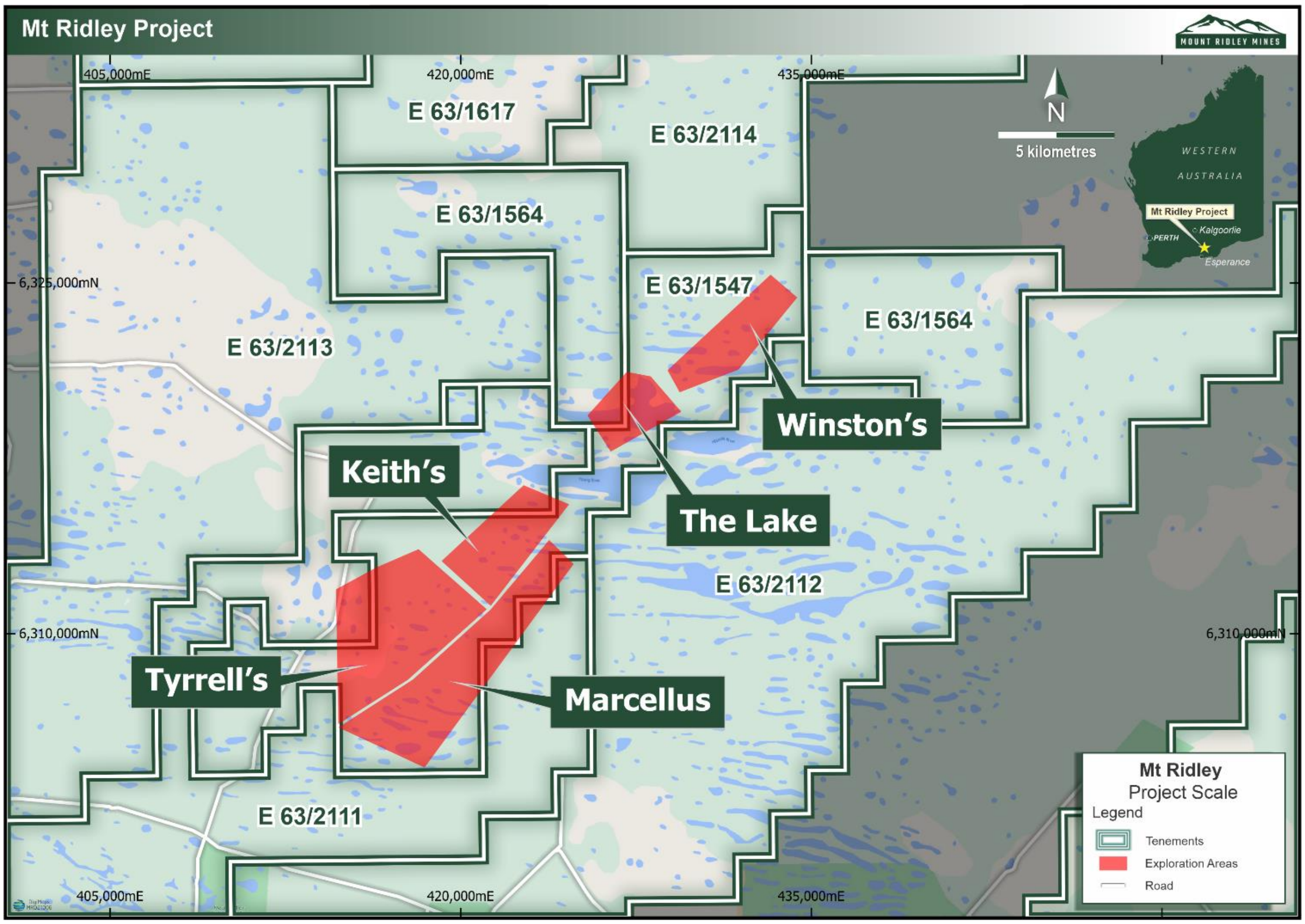


**Figure 1**: Mount Ridley Project showing key prospects.

## WINSTON'S

REE mineralisation has been identified at Winston's, the north-eastern-most prospect, over an apparent strike length of 2.6 km and a width of 1 km. Holes are generally on a 500m by 80m grid.

Approximately 160 samples (in addition to those listed in Table 1) from three additional 500m-spaced traverses of drilling heading north of Winston's and four additional 500m-spaced traverses between the Lake and Winston's Prospects have been more recently submitted to the laboratory for re-analysis.

| Table 1: Winston's Prospect<br>Composite Drill Hole Sample Intersections > 300ppm TREO. | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| **Prospect** | **Hole ID** | **From** | **To** | **Intersection** | **TREO** | **TREO-$Ce_2O_3$[3]** | **HREO[4]** | **LREO[5]** | **CREO[6]** |
| | | **(m)** | **(m)** | **(m)** | **(ppm)** | **(ppm)** | **(ppm)** | **(ppm)** | **(ppm)** |
| Winston's | MRAC0603B | 24 | 30* | 6 | 720 | 398 | 322 | 407 | 599 |
| Winston's | MRAC0604 | 24 | 36 | 12 | 505 | 228 | 277 | 250 | 393 |
| Winston's | MRAC0605 | 36 | 47 | 11 | 1538 | 793 | 745 | 896 | 1424 |
| Winston's | MRAC0606 | 36 | 44 | 8 | 920 | 482 | 439 | 535 | 835 |
| Winston's | MRAC0608 | 28 | 42* | 14 | 462 | 173 | 289 | 199 | 328 |
| Winston's | MRAC0609 | 24 | 46* | 22 | 747 | 407 | 340 | 403 | 596 |
| Winston's | MRAC0611 | 20 | 40* | 20 | 639 | 245 | 394 | 291 | 478 |
| Winston's | MRAC0612 | 28 | 45* | 17 | 646 | 377 | 269 | 380 | 555 |
| Winston's | MRAC0613 | 28 | 32 | 4 | 303 | 73 | 230 | 98 | 182 |
| Winston's | MRAC0613 | 40 | 44 | 4 | 319 | 139 | 180 | 148 | 232 |
| Winston's | MRAC0615 | 24 | 28 | 4 | 336 | 75 | 261 | 98 | 198 |
| Winston's | MRAC0615 | 40 | 44 | 4 | 609 | 314 | 295 | 335 | 526 |
| Winston's | MRAC0617 | 24 | 36 | 12 | 1455 | 719 | 736 | 800 | 1235 |
| Winston's | MRAC0617 | 44 | 45* | 1 | 781 | 294 | 487 | 360 | 608 |
| Winston's | MRAC0618 | 16 | 28 | 12 | 465 | 182 | 283 | 211 | 345 |
| Winston's | MRAC0620 | 12 | 13* | 1 | 756 | 263 | 493 | 316 | 516 |
| Winston's | MRAC0622 | 12 | 19 | 7 | 874 | 343 | 531 | 428 | 668 |
| Winston's | MRAC0623 | 12 | 15* | 3 | 577 | 346 | 231 | 334 | 474 |
| Winston's | MRAC0624 | 12 | 17* | 5 | 587 | 262 | 325 | 293 | 457 |
| Winston's | MRAC0628 | 20 | 28* | 8 | 499 | 212 | 287 | 248 | 407 |
| Winston's | MRAC0629 | 20 | 29* | 9 | 600 | 288 | 312 | 317 | 479 |
| Winston's | MRAC0631 | 16 | 21* | 5 | 1077 | 502 | 574 | 575 | 921 |
| Winston's | MRAC0632 | 4 | 17* | 13 | 1217 | 519 | 697 | 603 | 941 |

* Denotes hole ended in mineralisation

[3] TREO minus $Ce_2O_3$.
[4] HREO means Heavy Rare Earth Oxides; the sum of $Sm_2O_3$, $Dy_2O_3$, $Er_2O_3$, $Eu_2O_3$, $Gd_2O_3$, $Ho_2O_3$, $Lu_2O_3$, $Tb_4O_7$, $Tm_2O_3$, $Y_2O_3$, and $Yb_2O_3$.
[5] LREO means Light Rare Earth Oxides; the sum of $Ce_2O_3$, $La_2O_3$, $Nd_2O_3$, and $Pr_2O_3$.
[6] CREO means Critical Rare Earth Oxides; the sum of $Dy_2O_3$, $Eu_2O_3$, $Nd_2O_3$, $Tb_4O_7$, and $Y_2O_3$.

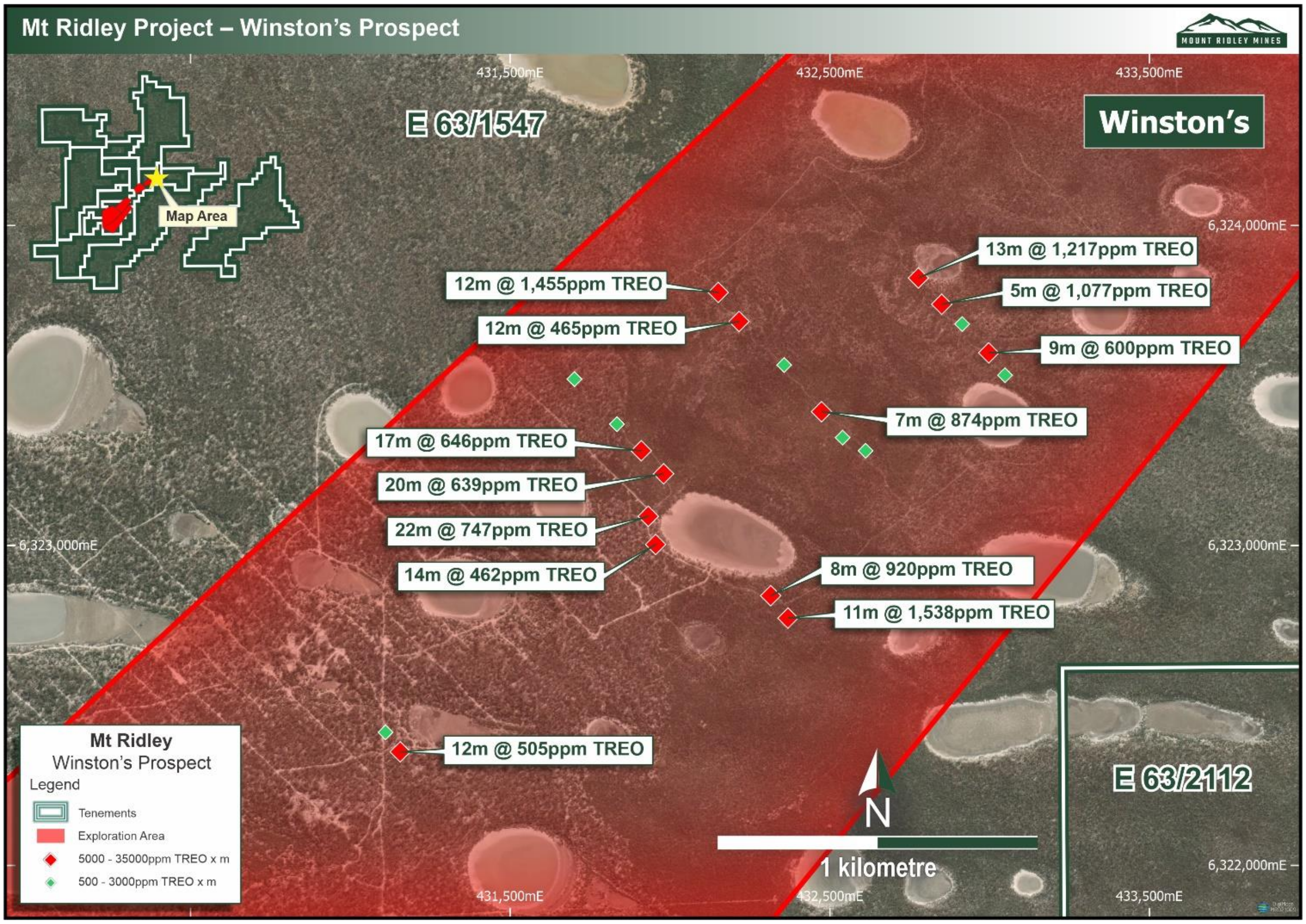


**Figure 2**: Winston's Prospect showing drill hole locations and significant intersections.

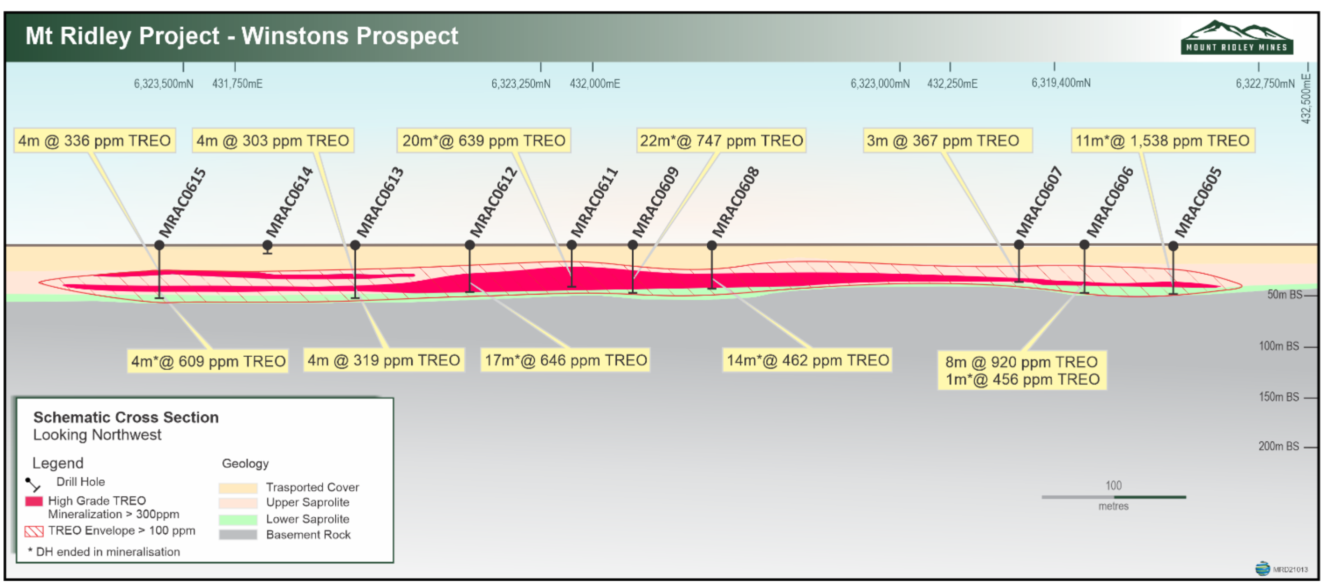


**Figure 3**: Cross Section through Winston's Prospect.

## THE LAKE

The Lake Prospect straddles the Hillman and Young Rivers, with REE mineralisation reported (Table 2) within a 3 km by 1.6 km area. The Lake is 3 km along strike to the southwest from the Winston's Prospect.

| Table 2: The Lake Prospect<br>Composite Drill Hole Sample Intersections > 300ppm TREO. | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| Prospect | Hole ID | From | To | Intersection | TREO | TREO- $Ce_2O_3$ | HREO | LREO | CREO |
| | | (m) | (m) | (m) | (ppm) | (ppm) | (ppm) | (ppm) | (ppm) |
| The Lake | MRAC0438 | 40 | 45* | 5 | 1489 | 713 | 776 | 794 | 1320 |
| The Lake | MRAC0439 | 40 | 48* | 8 | 2245 | 1290 | 954 | 1329 | 1948 |
| The Lake | MRAC0440 | 0 | 4 | 4 | 690 | 407 | 283 | 410 | 600 |
| The Lake | MRAC0440 | 32 | 40 | 8 | 392 | 153 | 239 | 174 | 295 |
| The Lake | MRAC0441 | 20 | 25* | 5 | 2188 | 1159 | 1029 | 1267 | 1990 |
| The Lake | MRAC0442 | 0 | 4 | 4 | 314 | 168 | 146 | 178 | 276 |
| The Lake | MRAC0442 | 36 | 44* | 8 | 486 | 205 | 281 | 211 | 325 |
| The Lake | MRAC0443 | 0 | 4 | 4 | 842 | 484 | 358 | 504 | 746 |
| The Lake | MRAC0445 | 48 | 52 | 4 | 764 | 362 | 402 | 382 | 587 |
| The Lake | MRAC0446 | 0 | 4 | 4 | 435 | 205 | 230 | 216 | 330 |
| The Lake | MRAC0446 | 45 | 46* | 1 | 326 | 88 | 238 | 91 | 144 |
| The Lake | MRAC0450 | 36 | 51 | 15 | 345 | 110 | 235 | 136 | 246 |
| The Lake | MRAC0451 | 48 | 51* | 3 | 384 | 161 | 223 | 204 | 346 |
| The Lake | MRAC0454 | 36 | 42 | 6 | 733 | 281 | 451 | 314 | 503 |
| The Lake | MRAC0455 | 32 | 38* | 6 | 651 | 298 | 353 | 327 | 518 |
| The Lake | MRAC0456 | 12 | 20 | 8 | 464 | 55 | 410 | 180 | 393 |
| The Lake | MRAC0456 | 28 | 38* | 10 | 1766 | 1089 | 677 | 1097 | 1597 |
| The Lake | MRAC0458 | 40 | 52 | 12 | 992 | 784 | 208 | 723 | 954 |
| The Lake | MRAC0460 | 0 | 12 | 12 | 329 | 192 | 137 | 203 | 296 |
| The Lake | MRAC0460 | 20 | 22 | 2 | 858 | 468 | 390 | 472 | 689 |
| The Lake | MRAC0461 | 36 | 40 | 4 | 786 | 228 | 558 | 287 | 511 |
| The Lake | MRAC0463 | 32 | 35* | 3 | 968 | 482 | 486 | 520 | 820 |
| The Lake | MRAC0467 | 44 | 52 | 8 | 802 | 517 | 286 | 469 | 668 |
| The Lake | MRAC0470 | 17 | 18* | 1 | 1606 | 430 | 1176 | 524 | 853 |
| The Lake | MRAC0471 | 28 | 39* | 11 | 1204 | 714 | 491 | 727 | 1043 |
| The Lake | MRAC0472 | 36 | 41 | 5 | 684 | 306 | 378 | 338 | 536 |
| The Lake | MRAC0473 | 36 | 44 | 8 | 786 | 391 | 395 | 402 | 622 |
| The Lake | MRAC0474 | 32 | 50 | 18 | 845 | 524 | 321 | 517 | 731 |
| The Lake | MRAC0475 | 36 | 42* | 6 | 1020 | 486 | 534 | 564 | 892 |
| The Lake | MRAC0476 | 0 | 27* | 27 | 679 | 299 | 381 | 320 | 510 |
| The Lake | MRAC0717 | 32 | 44 | 12 | 1551 | 885 | 665 | 946 | 1422 |
| The Lake | MRAC0718 | 44 | 52 | 8 | 478 | 333 | 145 | 321 | 429 |
| The Lake | MRAC0720 | 52 | 58* | 6 | 506 | 284 | 223 | 282 | 419 |
| The Lake | MRAC0721 | 52 | 68* | 16 | 2020 | 1199 | 821 | 1263 | 1914 |
| The Lake | MRAC0724 | 16 | 20 | 4 | 731 | 102 | 629 | 246 | 562 |
| The Lake | MRAC0726 | 40 | 47* | 7 | 1773 | 1082 | 691 | 1119 | 1685 |

| Table 2: The Lake Prospect<br>Composite Drill Hole Sample Intersections > 300ppm TREO. | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| Prospect | Hole ID | From | To | Intersection | TREO | TREO- $Ce_2O_3$ | HREO | LREO | CREO |
| | | (m) | (m) | (m) | (ppm) | (ppm) | (ppm) | (ppm) | (ppm) |
| The Lake | MRAC0727 | 40 | 44* | 4 | 414 | 267 | 147 | 256 | 357 |
| The Lake | MRAC0728 | 32 | 38* | 6 | 590 | 326 | 264 | 352 | 536 |
| The Lake | MRAC0729 | 16 | 21* | 5 | 465 | 154 | 311 | 175 | 283 |
| The Lake | MRAC0730 | 20 | 26* | 6 | 821 | 341 | 480 | 381 | 607 |
| The Lake | MRAC0731 | 28 | 32 | 4 | 527 | 225 | 302 | 249 | 382 |
| The Lake | MRAC0732 | 28 | 32* | 4 | 1242 | 733 | 509 | 750 | 1093 |
| The Lake | MRAC0733 | 36 | 39* | 3 | 493 | 256 | 238 | 270 | 413 |

* Denotes hole ended in mineralisation

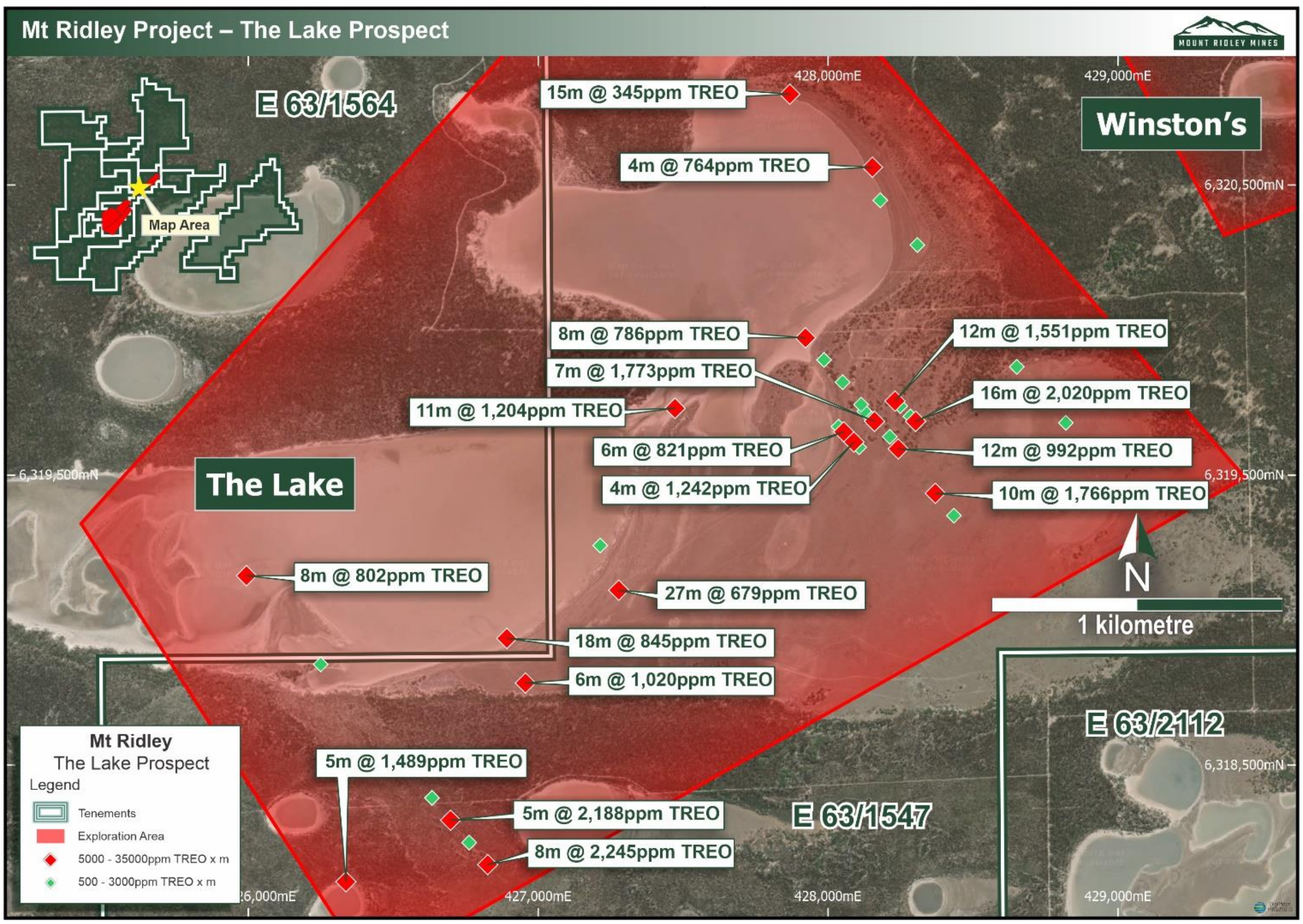


**Figure 4**: The Lake Prospect showing drill hole locations and significant intersections.

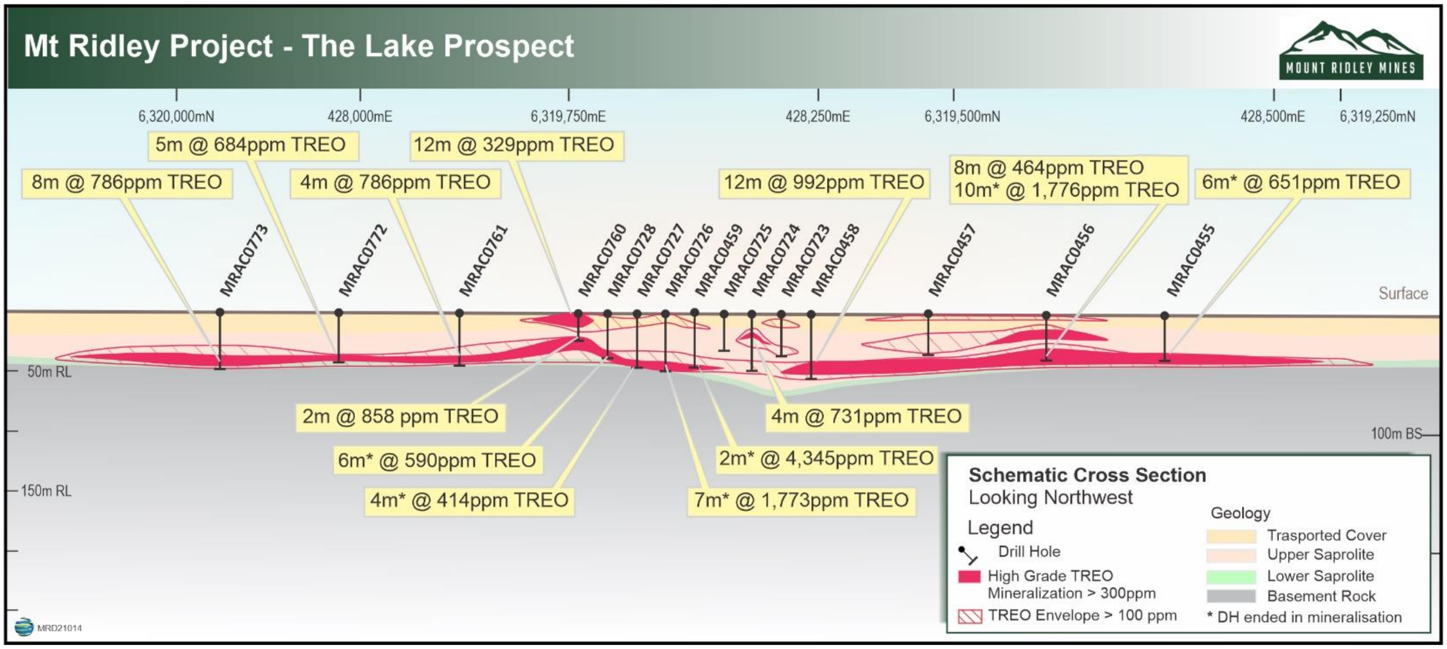


**Figure 5**: Cross section through the Lake Prospect.

## KEITH'S

The Keith's Prospect measures 2 km by 1 km. Drillhole traverses are sited on a an approximate 500m by 100m grid with one infill pattern drilled on a 100m by 25m pattern. The single highest grade one metre sample was intersected at the bottom of hole MRAC0711: 1m at 10,461ppm (1.05%) TREO from 23m downhole.

Samples (in addition to those listed in Table 3) from an additional 4 x 500m-spaced traverses have been submitted to the laboratory for analysis.

**Table 3: Keith's Prospect**
**Composite Drill Hole Sample Intersections > 300ppm TREO.**

| Prospect | Hole ID | From | To | Intersection | TREO | TREO- $Ce_2O_3$ | HREO | LREO | CREO |
|---|---|---|---|---|---|---|---|---|---|
| | | (m) | (m) | (m) | (ppm) | (ppm) | (ppm) | (ppm) | (ppm) |
| Keith's | MRAC0523 | 24 | 28 | 4 | 667 | 304 | 363 | 346 | 526 |
| Keith's | MRAC0524 | 28 | 32 | 4 | 347 | 100 | 247 | 130 | 232 |
| Keith's | MRAC0527 | 12 | 24 | 12 | 493 | 223 | 270 | 236 | 357 |
| Keith's | MRAC0528 | 16 | 24 | 8 | 539 | 325 | 214 | 318 | 444 |
| Keith's | MRAC0529 | 16 | 21* | 5 | 453 | 163 | 290 | 212 | 360 |
| Keith's | MRAC0532 | 20 | 24 | 4 | 455 | 227 | 228 | 231 | 348 |
| Keith's | MRAC0539 | 16 | 20 | 4 | 469 | 297 | 172 | 283 | 417 |
| Keith's | MRAC0540 | 24 | 36 | 12 | 456 | 207 | 250 | 222 | 351 |
| Keith's | MRAC0541 | 16 | 20 | 4 | 595 | 349 | 246 | 353 | 512 |
| Keith's | MRAC0542 | 8 | 12 | 4 | 1682 | 808 | 874 | 889 | 1409 |
| Keith's | MRAC0544 | 16 | 32 | 16 | 478 | 256 | 223 | 268 | 409 |
| Keith's | MRAC0551 | 16 | 27* | 11 | 702 | 401 | 301 | 408 | 594 |
| Keith's | MRAC0554 | 20 | 25* | 5 | 1324 | 317 | 1007 | 443 | 861 |

| Table 3: Keith's Prospect<br>Composite Drill Hole Sample Intersections > 300ppm TREO. | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| **Prospect** | **Hole ID** | **From** | **To** | **Intersection** | **TREO** | **TREO- $Ce_2O_3$** | **HREO** | **LREO** | **CREO** |
| | | **(m)** | **(m)** | **(m)** | **(ppm)** | **(ppm)** | **(ppm)** | **(ppm)** | **(ppm)** |
| Keith's | MRAC0556 | 12 | 21* | 9 | 728 | 427 | 301 | 405 | 585 |
| Keith's | MRAC0559 | 8 | 12* | 4 | 367 | 177 | 190 | 183 | 282 |
| Keith's | MRAC0560 | 12 | 17* | 5 | 683 | 474 | 208 | 438 | 604 |
| Keith's | MRAC0561 | 8 | 9* | 1 | 2550 | 1356 | 1194 | 1468 | 2423 |
| Keith's | MRAC0563 | 28 | 34 | 6 | 684 | 388 | 296 | 393 | 579 |
| Keith's | MRAC0564 | 32 | 36 | 4 | 819 | 330 | 489 | 374 | 606 |
| Keith's | MRAC0567 | 32 | 40 | 8 | 499 | 235 | 265 | 270 | 429 |
| Keith's | MRAC0568 | 16 | 24 | 8 | 324 | 117 | 207 | 121 | 208 |
| Keith's | MRAC0568 | 32 | 38* | 6 | 1790 | 961 | 829 | 1083 | 1708 |
| Keith's | MRAC0573 | 16 | 30* | 14 | 393 | 163 | 230 | 182 | 291 |
| Keith's | MRAC0574 | 20 | 26 | 6 | 519 | 226 | 294 | 247 | 398 |
| Keith's | MRAC0690 | 32 | 40 | 8 | 461 | 244 | 217 | 253 | 400 |
| Keith's | MRAC0692 | 36 | 37* | 1 | 1003 | 598 | 405 | 607 | 872 |
| Keith's | MRAC0694 | 16 | 20 | 4 | 316 | 170 | 146 | 155 | 241 |
| Keith's | MRAC0694 | 28 | 40 | 12 | 608 | 291 | 317 | 332 | 518 |
| Keith's | MRAC0695 | 24 | 40 | 16 | 1081 | 574 | 506 | 622 | 945 |
| Keith's | MRAC0696 | 28 | 35* | 7 | 863 | 417 | 446 | 485 | 775 |
| Keith's | MRAC0697 | 20 | 31* | 11 | 596 | 321 | 275 | 312 | 483 |
| Keith's | MRAC0698 | 16 | 21* | 5 | 686 | 312 | 373 | 309 | 476 |
| Keith's | MRAC0699 | 12 | 15* | 3 | 526 | 141 | 385 | 186 | 321 |
| Keith's | MRAC0705 | 12 | 14* | 2 | 498 | 112 | 387 | 168 | 304 |
| Keith's | MRAC0706 | 12 | 24* | 12 | 624 | 434 | 189 | 366 | 536 |
| Keith's | MRAC0707 | 12 | 20 | 8 | 378 | 112 | 267 | 127 | 225 |
| Keith's | MRAC0708 | 20 | 32 | 12 | 400 | 198 | 202 | 207 | 302 |
| Keith's | MRAC0709 | 40 | 44 | 4 | 710 | 307 | 403 | 365 | 602 |
| Keith's | MRAC0711 | 16 | 24* | 8 | 2632 | 1376 | 1256 | 1646 | 2499 |
| Keith's | MRAC0712 | 16 | 28 | 12 | 616 | 390 | 226 | 380 | 532 |

* Denotes hole ended in mineralisation

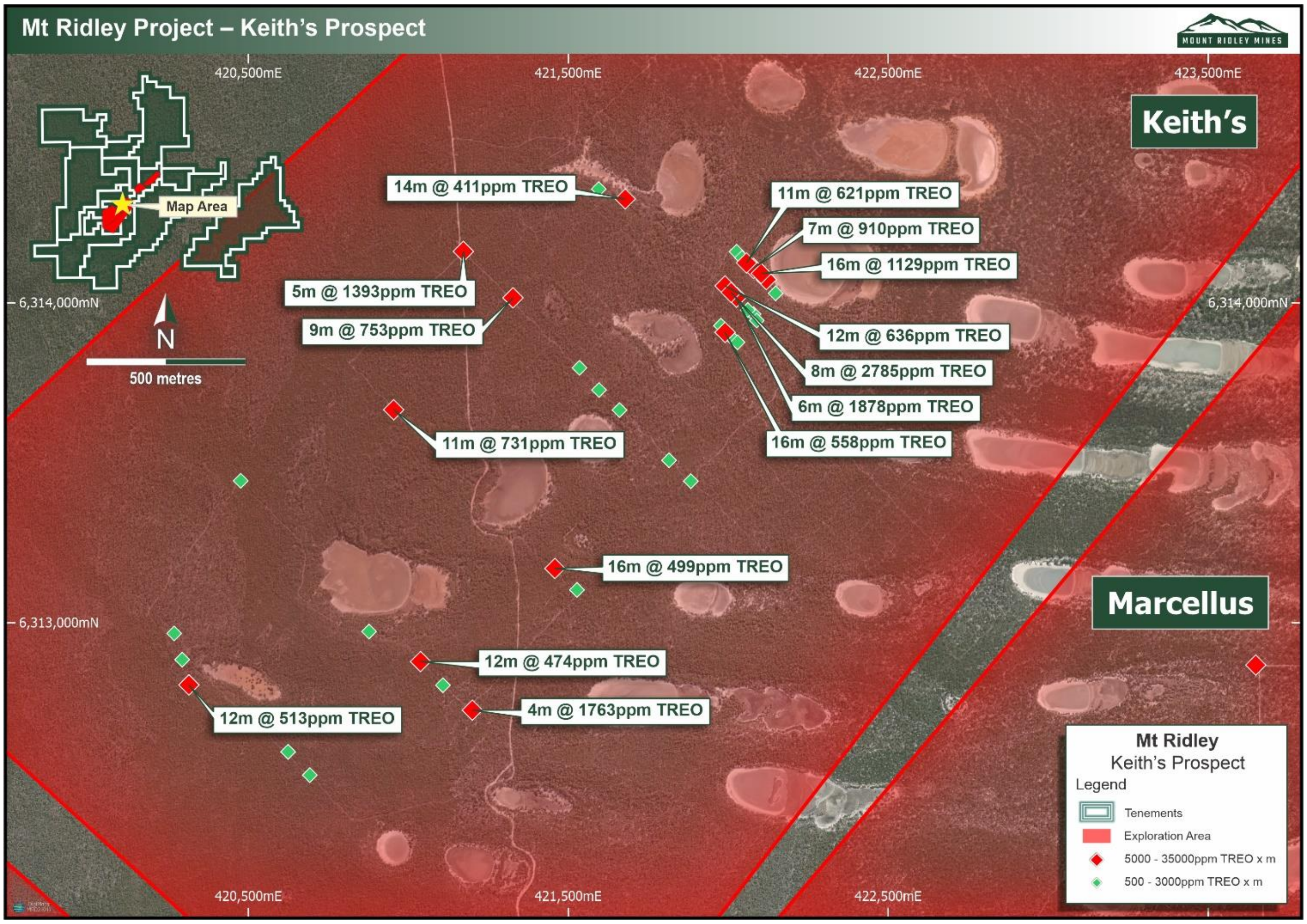


**Figure 6**: Keith's Prospect showing drill hole locations and significant intersections.

## TYRRELL'S PROSPECT

Limited drilling took place at Tyrrell's (table 4) with few samples retained, however anomalous REE values were returned. Drilling access is good in this area with a number of existing tracks and fence lines. Due to its proximity to the Goldfields-Esperance Highway, this area will be a priority for further drilling.

| Table 4: Tyrrells's Prospect<br>Composite Drill Hole Sample Intersections > 300ppm TREO. | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| **Prospect** | **Hole ID** | **From** | **To** | **Intersection** | **TREO** | **TREO-$Ce_2O_3$** | **HREO** | **LREO** | **CREO** |
| | | **(m)** | **(m)** | **(m)** | **(ppm)** | **(ppm)** | **(ppm)** | **(ppm)** | **(ppm)** |
| Tyrrell's | MRAC0683 | 12 | 20* | 8 | 778 | 319 | 459 | 358 | 555 |
| Tyrrell's | MRAC0684 | 24 | 31 | 7 | 1441 | 944 | 497 | 967 | 1375 |
| Tyrrell's | MRAC0689 | 16 | 35* | 19 | 663 | 375 | 289 | 398 | 587 |

* Denotes hole ended in mineralisation

## MARCELLUS PROSPECT

Three traverses of 400m spaced holes with traverses between 2km and 4km apart indicates that REE mineralisation at Marcellus (table 5) may be very widespread.

**Table 5: Marcellus Prospect**
**Composite Drill Hole Sample Intersections > 300ppm TREO.**

| Prospect | Hole ID | From | To | Intersection | TREO | TREO-$Ce_2O_3$ | HREO | LREO | CREO |
|---|---|---|---|---|---|---|---|---|---|
| | | (m) | (m) | (m) | (ppm) | (ppm) | (ppm) | (ppm) | (ppm) |
| Marcellus | MRAC0660 | 48 | 55* | 7 | 922 | 657 | 264 | 604 | 825 |
| Marcellus | MRAC0662 | 28 | 40 | 12 | 478 | 223 | 256 | 240 | 370 |
| Marcellus | MRAC0663 | 32 | 40 | 8 | 458 | 222 | 236 | 230 | 340 |
| Marcellus | MRAC0664 | 28 | 40 | 12 | 373 | 138 | 235 | 162 | 262 |
| Marcellus | MRAC0666 | 32 | 36 | 4 | 1375 | 772 | 603 | 861 | 1296 |
| Marcellus | MRAC0667 | 36 | 40 | 4 | 2913 | 1754 | 1159 | 1849 | 2723 |
| Marcellus | MRAC0668 | 20 | 26* | 6 | 700 | 258 | 441 | 330 | 526 |
| Marcellus | MRAC0669 | 32 | 38* | 6 | 432 | 147 | 285 | 170 | 280 |
| Marcellus | MRAC0670 | 24 | 32 | 8 | 415 | 134 | 281 | 160 | 271 |
| Marcellus | MRAC0671 | 24 | 30* | 6 | 1038 | 456 | 583 | 500 | 766 |
| Marcellus | MRAC0672 | 32 | 36* | 4 | 519 | 144 | 375 | 191 | 332 |
| Marcellus | MRAC0673 | 16 | 22* | 6 | 736 | 95 | 641 | 136 | 277 |
| Marcellus | MRAC0675 | 8 | 20 | 12 | 572 | 85 | 487 | 165 | 327 |
| Marcellus | MRAC0675 | 25 | 26* | 1 | 681 | 319 | 362 | 336 | 505 |
| Marcellus | MRAC0676 | 16 | 28 | 12 | 426 | 231 | 196 | 232 | 336 |
| Marcellus | MRAC0677 | 12 | 20 | 8 | 1362 | 188 | 1174 | 364 | 822 |
| Marcellus | MRAC0677 | 36 | 48 | 12 | 362 | 65 | 297 | 90 | 187 |
| Marcellus | MRAC0678 | 20 | 28 | 8 | 517 | 185 | 332 | 217 | 350 |
| Marcellus | MRAC0679 | 16 | 28 | 12 | 867 | 352 | 515 | 382 | 593 |

* Denotes hole ended in mineralisation

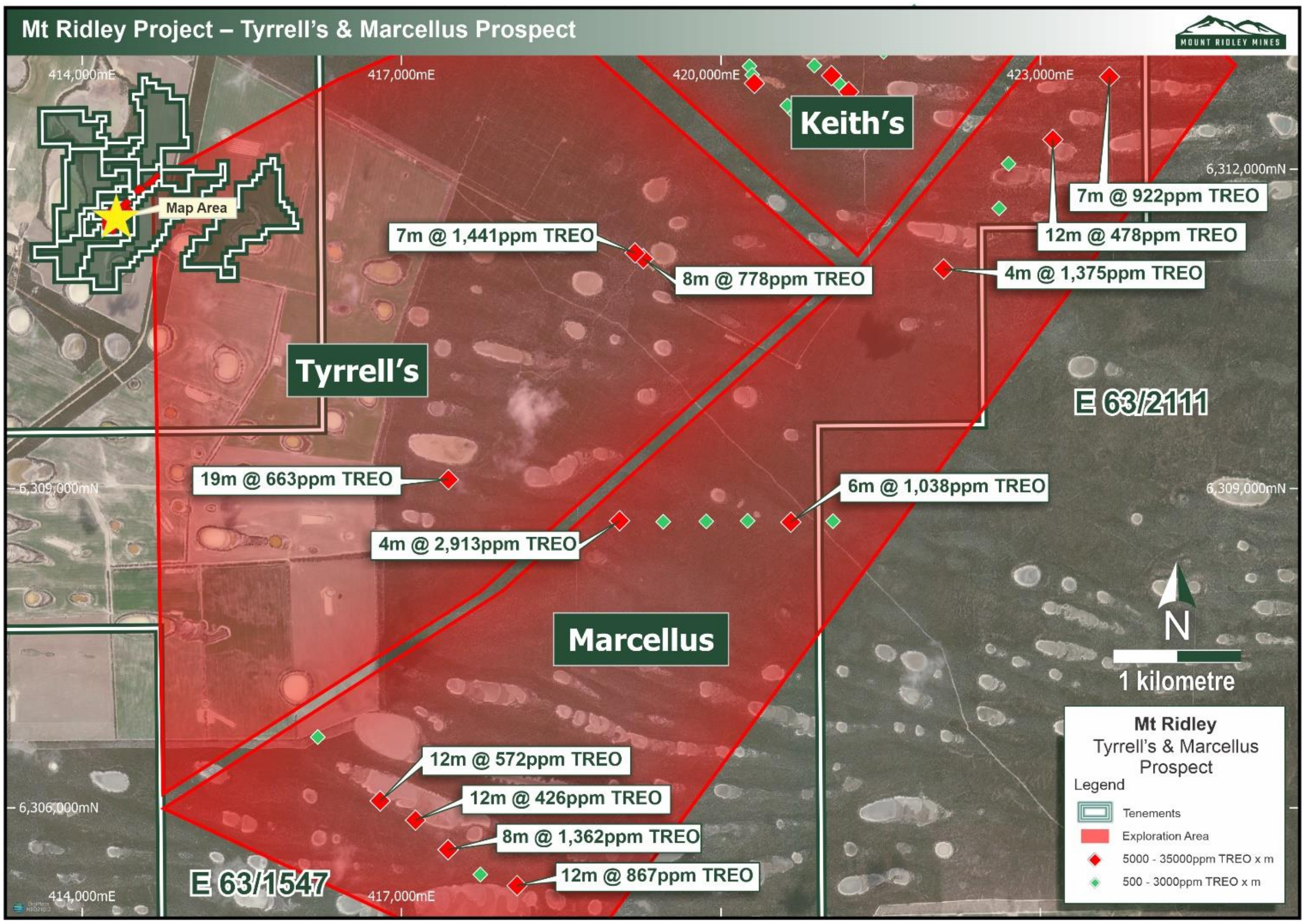


**Figure 7**: Tyrrell's and Marcellus Prospects showing drill hole locations and significant intersections.

## PROPOSED EXPLORATION

A comprehensive geological and litho-geochemical study has commenced to identify underlying rocks and their role as a source of REE, and therefore controls to REE ore genesis.

Concurrently, drilling programmes for up to 25,000m are being planned. Aircore drilling will be used to determine extensions of known mineralisation; reverse circulation drilling will be used for the Mineral Resource drill-out, and diamond or sonic drilling will be used to provide in-tact regolith for geotechnical and metallurgical testing.

Heritage, flora, and fauna Surveys will be updated over the coming months as required, focusing on the identified target areas and extensions to known REE mineralisation.

Early-stage mineralogy and metallurgical test work will be carried out using material generated from the upcoming drilling. This is considered critical in determining the nature and extractability of the REE mineralisation.

ABOUT THE MOUNT RIDLEY REE PROJECT

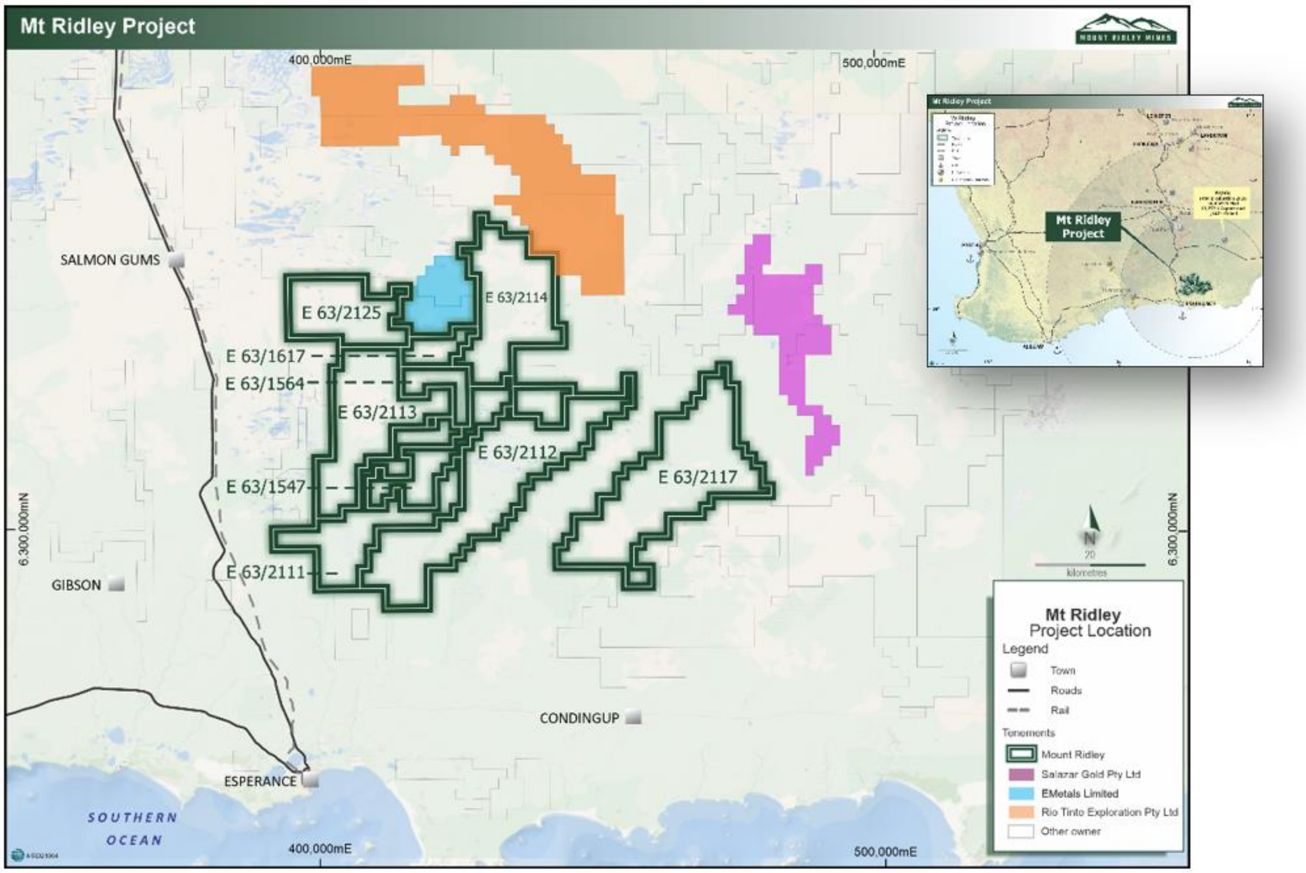


**Figure 8**: Mount Ridley Project location and tenements.

The Mount Ridley Project is located from approximately 35 kilometres northeast of the deep-water port of Esperance, a town with approximately 12,000 people and a hub for tourism, agriculture, and fishing (figure 8). The Port exports minerals including nickel sulphide, iron ore and spodumene.

The Project is approximately 20 kilometres east of the sealed Goldfields Esperance Highway and infrastructure corridor which includes the Kalgoorlie-Esperance railway line and gas pipeline. The Esperance airport is located at Gibson Soak, approximately 20 kilometres from the Project. The Company holds three granted exploration licences and 6 exploration licence applications. Granted tenure is 454 $km^2$ and tenement applications total 2950 $km^2$.

REE mineralisation is interpreted as large, horizontal sheet-like lenses that occur from near surface to as deep as 89m. REE mineralisation occurs consistently within the in-situ saprolite clay horizon. Patchy lower grade zones occur within transported cover which may vector towards stronger REE mineralisation deeper within the regolith.

Geological Survey of Western Australia (DMIRS) mapping[7] shows that the Mount Ridley Project REE mineralisation occurs within the weathered mantle (regolith) of the Recherche Super-suite, which is described as "Granitic and mafic gneiss; may include intrusions of Esperance Super-suite".

While the source of the REE mineralisation is currently unknown, a detailed litho-geochemistry dataset from bottom of hole aircore samples has been established. Based on preliminary observations, this appears to the preferred sample to best represent the underlying fresh rock.

Insufficient work has been undertaken to date to categorise the Mount Ridley REE mineralisation. With respect to the Splinter Deposit (Salazar Gold Pty Ltd) located 75 kilometres northeast of the Mount Ridley Project, in her Honours thesis, Tiffany Collins noted:

> *"The regolith enrichment shows similarities to the ion-adsorption clays of China in its formation and dominantly granitic protolith, however lacks a significant adsorbed fraction and thus cannot be classed as such. It is better classified as a residual lateritic clay deposit, a type of REE deposit otherwise not recognised in Australia"[8].*

## ADDITIONAL NOTES ABOUT THE AIRCORE DRILLING RESULTS REPORTED HEREIN

- Aircore drilling with REE-mineralised intersections at Mount Ridley occur over a strike length of 25 kilometres. Traverses of drilling with REE mineralisation exceed 1 kilometre in width at Winston's, the Lake and Keith's Prospects
- As guide for prioritising forthcoming drilling, the proportion of HREO to the TREO from the reported drilling is set out in table 6.

| **Table 6: REE by Prospect** | | | | | |
|---|---|---|---|---|---|
| **Prospect** | **TREO*** | **HREO** | **% HREO** | **CREO** | **%CREO** |
| **Winston's** | 663 | 309 | 47% | 341 | 51% |
| **The Lake** | 807 | 426 | 53% | 449 | 57% |
| **Keith's** | 566 | 282 | 50% | 301 | 53% |

* Length-weighted average grade of all reported intersections > 300ppm, grouped by Prospect.

7 (DMIRS) Department of Mines, Industry Regulation and Safety 1:100,000 Interpreted Bedrock Geology
8 Collins, Tiffany, 2014

# RARE EARTH ELEMENTS: Use and Importance

- REE's are critical elements required when powering technology and are considered essential in the modern shift towards clean energy outcomes.
- REEs make the world's strongest permanent magnets that are fundamentally important in the manufacturing of electric generators and hybrid vehicle power systems. Other uses include: as catalysts, in rechargeable batteries and in high-end technology used in electronic products.


**Figure 9**: Share of world extraction and processing of selected minerals and fossil fuels (*Source*: International Energy Agency Report: The Role of Critical Minerals in Clean Energy Transitions, p13 (2021).

## Ionic Clay Adsorption Deposits

Globally, deposits of Ionic Clay Adsorption (IAC)-REE are most significant in southern China and are the world's main source of Heavy Rare Earth Elements. These are recorded as occurring in the weathered crust of granitic rocks. China, which has led the world production and processing of REEs for decades, accounted for more than 90 percent of global production and supply, on average, during the past decade (Figure 10).[9]

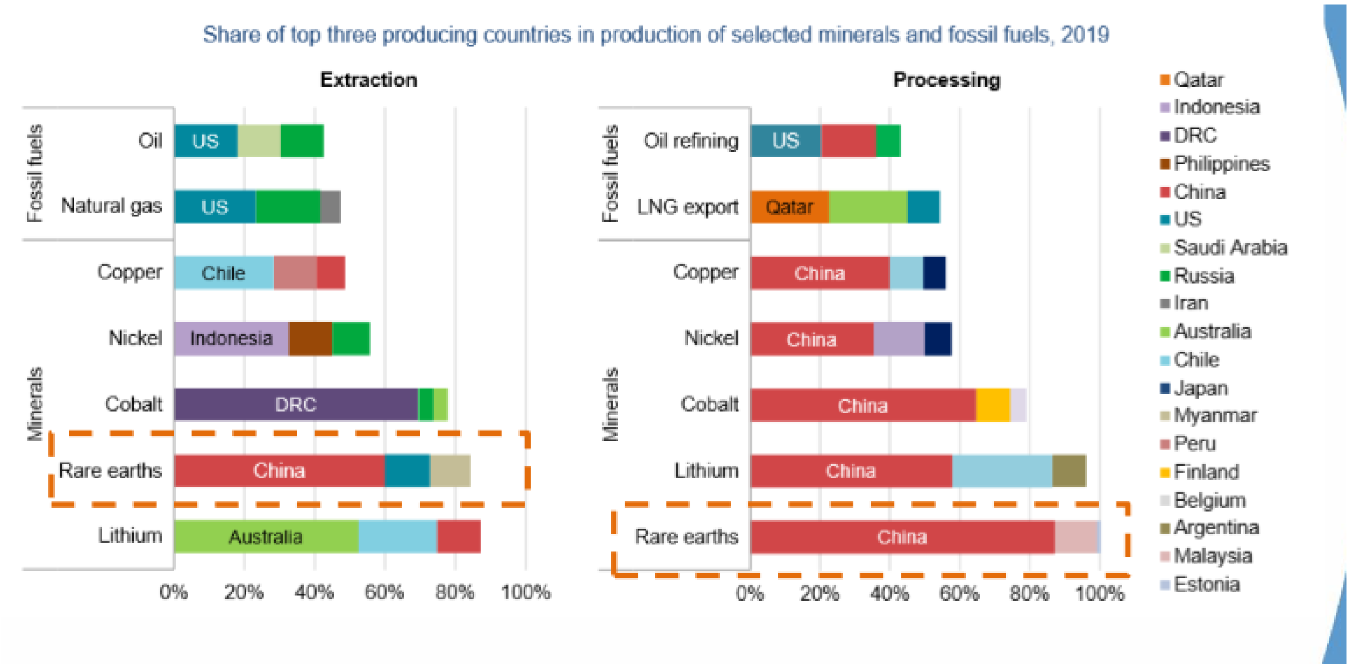


**Figure 10**: Rare earth element uses. (*Source*: www.//frontierrareearths.com/rare-earth-uses/re_applications_1)

[9] Van Gosen, et al (Rare Earth Elements, USGS).

An attraction of IAC deposits is that they can have a low capital cost to bring into production and can produce REO directly. Ionic clay deposits are rare outside of China and have a number of benefits over hard rock resources that are summarised in table 7.

***TABLE 7**: Ionic Clay v Hard Rock REE Mining

| **Mining/Processing Stages** | **REE Clay** | **REE Hard Rock** |
|---|---|---|
| **Mining** | Low Operating Costs<br>-surface mining (0-15m)<br>- Soft material - free digging<br>- Minimal stripping required<br>-Quick backfilling of pits & rehabilitation | High Operating Costs<br>-Blasting required<br>-Could have high-strip ratios<br>-Could be underground<br>-Long term rehabilitation provisions required |
| **Processing/Screening** | Intensive washing and screening required<br>Very large volumes of ores to be processed | Simple screening into several size fractions |
| **Processing/Leaching** | Heaping Leaching or Insitu Leaching<br>Inorganic salt solutions required<br>Ambient temperature (no power required)<br>Simple plant<br>Easy recycling of solvents + water | Strong acids required & in large quantities<br>High temperature required (intensive power consumption)<br>Complex plant (to withstand strong acids + high temperatures) |
| **Processing/Environmental** | Non-radioactive tailings<br>Neutralisation of tailings (i.e., removal of acids/ solvents) required before backfilling | Tailings often radioactive<br>(complex + costly disposal) |
| **End Product** | Mixed but "liberated" REE oxalate/carbonate grading 45-50% TREO<br>Mixed REE oxides grading >95% TREO | Mixed REE concentrate at relative low grade 10-20% TREO<br>Mixed REE oxalate/carbonate grading c45-50% TREO |
| **CAPEX/OPEX** | Moderate - low capex + opex | High - low capex + opex |

**Source*: Ionic Rare Earths Ltd Presentation, 4 May 2021.

## REE Outlook

- China's Export Control Ban (December 2020): This is anticipated to reduce availability of CREO & HREO and likely to place upward pressure on CREO and HREO prices.
- REO demand being driven by Government Stimulus spending on EV's, renewable energy, communications, and defence.
- EV demand in particular is placing upward pressure on NdPr pricing which are anticipated to increase up to seven-fold by 2030.
- Offshore wind turbines need DyTb – pledges to add 230 GW of offshore wind turbine demand committed by 2030, 1400GW target by 2050.
- Adamas Intelligence are projecting a strong performance over a basket of REE out to 2030 (table 8).

| Oxide (Grade) | 2019 | 2020 | 1Q2021 | 2025 | 2030 |
|---|---|---|---|---|---|
| La2O3 (3N) | $1.73 | $1.64 | $1.50 | $2.79 | $3.23 |
| $CeO_2$ (3N) | $1.76 | $1.47 | $1.51 | $2.02 | $2.28 |
| Pr6O8 (2N5) | $54.15 | $45.76 | $68.83 | $86.00 | $110.50 |
| $Nd2O_3$ (2N5) | $44.51 | $49.14 | $96.03 | $92.00 | $105.50 |
| $Sm_2O_3$ (3N) | $1.82 | $1.76 | $1.88 | $2.22 | $2.77 |
| $Eu_2O_3$ (5N) | $33.69 | $29.81 | $31.44 | $40.91 | $55.77 |
| $Gd_2O_3$ (2N5) | $23.05 | $24.59 | $32.89 | $33.20 | $41.00 |
| $Tb_4O_7$ (4N) | $503.51 | $671.32 | $1,382.06 | $1,250.00 | $1,375.00 |
| $Dy_2O_3$ (2N5) | $235.41 | $260.54 | $384.16 | $500.00 | $550.00 |
| $Ho_2O_3$ (2N5) | $50.50 | $58.07 | $116.81 | $99.60 | $123.00 |
| $ER_2O_3$ (2N5) | $23.62 | $22.56 | $28.03 | $32.46 | $37.63 |
| $Yb_2O_3$ (4N) | $15.80 | $14.52 | $15.48 | $17.22 | $19.96 |
| $Lu_2O_3$ (4N) | $604.12 | $613.56 | $794.20 | $800.00 | $800.00 |
| $Y_2O_3$ (5N) | $2.83 | $2.94 | $4.98 | $6.58 | $7.63 |

**Table 8**: Scenario 1: Near-Term Supply Drags Prices Down Moderately, but Prices Minimised by Ongoing Myanmar-related Uncertainty (Chinese Domestic Prices (incl. VAT) US$/kg REO). (Source: Adamas Intelligence *in* Australian Rare Earths Prospectus, P45, 7th May 2021).

## The Makuutu REE Project, Uganda (Ionic Rare Earths Limited (ASX: IXR) 60%)[10]

In an announcement dated 3 March 2021, IXR notes the following:

The Makuutu deposit is interpreted to be an ionic adsorption REE clay-type deposits like those in south China, Myanmar, Madagascar, Chile, and Brazil.

- Total Resource (Indicated and Inferred) 315 million tonnes at 650ppm TREO, including 480ppm LREO and 170ppm HREO.
- Heavy Rare Earth Oxides (26%) and Critical Rare Earth Oxides (35%).
- The REE mineralisation is concentrated in the weathered profile where it has dissolved from its primary mineral form, then ionically bonded (adsorbed) or colloidally bonded on to fine particles of aluminosilicate clays (e.g., kaolinite, illite, smectite). The adsorbed and colloidal REE is the target for extraction and production of REO at Makuutu.

## Koppamurra Deposit, South Australia, and Victoria. (Australian Rare Earths Limited, ASX: AR3) 100%)[11]

In its Prospectus dated 3 March 2021, AR3 notes the following:

- Total Inferred Resource 39.9 million tonnes at 725ppm TREO, including 507ppm LREO and 218ppm HREO. Mineralisation is commonly in a 2 to 3 metre clay zone.
- Heavy Rare Earth Oxides (30%) and Critical Rare Earth Oxides (37%).
- AR3 notes that whilst Koppamurra shares similarities with both ion adsorption clay deposits and volcanic ash fall placer deposits, there are also several differences, the genetic model for REE mineralisation is not settled.

The Company acknowledges the Esperance Nyungar People, custodians of the Project area.

This announcement has been authorised for release by the Company's board of Directors.

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**Mount Ridley Mines Limited**
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Ground Floor
168 Stirling Hwy
Nedlands WA


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10 Ionic Rare Earths Limited (ASX: IXR) announcement dated 3 March 2021

11 Australian Rare Earths Limited Prospectus.

## About Mount Ridley Mines Limited

Mount Ridley is a company targeting demand driven metals in Western Australia.

Its namesake Mount Ridley Project, located within a Fraser Range sub-basin, was initially acquired for its nickel and copper sulphides potential, and is now recognised as being prospective for ionic clay REE deposits.

The Company also holds approximately 18% of the Weld Range West Iron Project in the mid-west of Western Australia. Drilling is progressively testing targets for direct-shipping iron ore. Areas of the tenements are also prospective for gold.

## Competent Person

*The information in this report that relates to exploration strategy and results is based on information supplied to and compiled by Mr David Crook. Mr Crook is a consulting geologist retained by Mount Ridley Limited. Mr Crook is a member of The Australasian Institute of Mining and Metallurgy and the Australian Institute of Geoscientists and has sufficient experience which is relevant to the exploration processes undertaken to qualify as a Competent Person as defined in the 2012 Editions of the 'Australasian Code for Reporting of Exploration Results, Mineral Resources and Ore Reserves'.*

## Caution Regarding Forward Looking Information

*This announcement may contain forward-looking statements that may involve a number of risks and uncertainties. These forward-looking statements are expressed in good faith and believed to have a reasonable basis. These statements reflect current expectations, intentions or strategies regarding the future and assumptions based on currently available information. Should one or more of the risks or uncertainties materialise, or should underlying assumptions prove incorrect, actual results may vary from the expectations, intentions and strategies described in this announcement. No obligation is assumed to update forward looking statements if these beliefs, opinions, and estimates should change or to reflect other future developments.*

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**APPENDIX 1**: Drill Hole Summary and Significant Assay Results

| Table 9<br>Collar Locations for Re-Assayed Drill Holes | | | | | | |
|---|---|---|---|---|---|---|
| **Hole ID** | **East** | **North** | **RL** | **Depth** | **Dip** | **Azimuth** |
| | **(m)** | **(m)** | **(m)** | **(m)** | **(º)** | **(º)** |
| MRAC0438 | 426,337 | 6,318,098 | 184.4 | 45 | -90 | 0 |
| MRAC0439 | 426,826 | 6,318,157 | 184.1 | 48 | -90 | 0 |
| MRAC0440 | 426,762 | 6,318,233 | 186.4 | 53 | -90 | 0 |
| MRAC0441 | 426,698 | 6,318,310 | 185.6 | 25 | -90 | 0 |
| MRAC0442 | 426,634 | 6,318,387 | 185.4 | 44 | -90 | 0 |
| MRAC0443 | 428,308 | 6,320,293 | 186.2 | 53 | -90 | 0 |
| MRAC0445 | 428,180 | 6,320,447 | 185.9 | 53 | -90 | 0 |
| MRAC0446 | 428,153 | 6,320,561 | 184.0 | 46 | -90 | 0 |
| MRAC0448 | 428,038 | 6,320,721 | 184.7 | 45 | -90 | 0 |
| MRAC0450 | 427,868 | 6,320,813 | 184.3 | 52 | -90 | 0 |
| MRAC0451 | 428,651 | 6,319,873 | 182.7 | 51 | -90 | 0 |
| MRAC0453 | 428,756 | 6,319,757 | 183.0 | 45 | -90 | 0 |
| MRAC0454 | 428,820 | 6,319,680 | 185.3 | 43 | -90 | 0 |
| MRAC0455 | 428,434 | 6,319,360 | 184.4 | 38 | -90 | 0 |
| MRAC0456 | 428,370 | 6,319,437 | 184.4 | 38 | -90 | 0 |
| MRAC0457 | 428,306 | 6,319,513 | 184.4 | 34 | -90 | 0 |
| MRAC0458 | 428,242 | 6,319,590 | 186.0 | 55 | -90 | 0 |
| MRAC0459 | 428,178 | 6,319,667 | 184.7 | 46 | -90 | 0 |
| MRAC0460 | 428,114 | 6,319,743 | 184.6 | 23 | -90 | 0 |
| MRAC0461 | 428,050 | 6,319,820 | 185.0 | 45 | -90 | 0 |
| MRAC0463 | 426,250 | 6,318,847 | 183.2 | 35 | -90 | 0 |
| MRAC0467 | 425,994 | 6,319,153 | 183.2 | 72 | -90 | 0 |
| MRAC0470 | 427,214 | 6,319,257 | 183.0 | 18 | -90 | 0 |
| MRAC0471 | 427,472 | 6,319,730 | 182.3 | 39 | -90 | 0 |
| MRAC0472 | 427,986 | 6,319,897 | 183.8 | 42 | -90 | 0 |
| MRAC0473 | 427,922 | 6,319,973 | 183.6 | 48 | -90 | 0 |
| MRAC0474 | 426,892 | 6,318,937 | 183.8 | 51 | -90 | 0 |
| MRAC0475 | 426,956 | 6,318,783 | 184.1 | 42 | -90 | 0 |
| MRAC0476 | 427,278 | 6,319,103 | 184.6 | 27 | -90 | 0 |
| MRAC0521 | 420,824 | 6,312,384 | 185.3 | 34 | -90 | 0 |
| MRAC0522 | 420,754 | 6,312,455 | 185.7 | 22 | -90 | 0 |
| MRAC0523 | 420,692 | 6,312,524 | 187.6 | 30 | -90 | 0 |
| MRAC0524 | 420,624 | 6,312,597 | 186.8 | 36 | -90 | 0 |
| MRAC0525 | 420,553 | 6,312,669 | 185.9 | 31 | -90 | 0 |
| MRAC0526 | 420,458 | 6,312,734 | 184.6 | 27 | -90 | 0 |
| MRAC0527 | 420,314 | 6,312,806 | 183.1 | 31 | -90 | 0 |
| MRAC0528 | 420,293 | 6,312,885 | 184.2 | 28 | -90 | 0 |
| MRAC0529 | 420,268 | 6,312,967 | 187.8 | 21 | -90 | 0 |
| MRAC0530 | 420,190 | 6,313,029 | 189.7 | 25 | -90 | 0 |
| MRAC0531 | 420,133 | 6,313,078 | 188.0 | 24 | -90 | 0 |
| MRAC0532 | 420,476 | 6,313,444 | 188.1 | 26 | -90 | 0 |
| MRAC0533 | 420,559 | 6,313,360 | 187.4 | 28 | -90 | 0 |
| MRAC0534 | 420,619 | 6,318,299 | 191.9 | 18 | -90 | 0 |
| MRAC0535 | 420,677 | 6,313,224 | 184.5 | 6 | -90 | 0 |
| MRAC0536 | 420,667 | 6,313,140 | 182.7 | 3 | -90 | 0 |
| MRAC0537 | 420,662 | 6,313,075 | 181.8 | 4 | -90 | 0 |

| Table 9<br>Collar Locations for Re-Assayed Drill Holes | | | | | | |
|---|---|---|---|---|---|---|
| Hole ID | East | North | RL | Depth | Dip | Azimuth |
| | (m) | (m) | (m) | (m) | (°) | (°) |
| MRAC0538 | 420,737 | 6,313,007 | 183.4 | 12 | -90 | 0 |
| MRAC0539 | 420,877 | 6,312,973 | 182.2 | 22 | -90 | 0 |
| MRAC0540 | 421,038 | 6,312,879 | 182.7 | 41 | -90 | 0 |
| MRAC0541 | 421,108 | 6,312,805 | 179.9 | 26 | -90 | 0 |
| MRAC0542 | 421,200 | 6,312,727 | 180.8 | 22 | -90 | 0 |
| MRAC0543 | 421,527 | 6,313,103 | 180.4 | 25 | -90 | 0 |
| MRAC0544 | 421,458 | 6,313,170 | 181.4 | 34 | -90 | 0 |
| MRAC0545 | 421,381 | 6,313,228 | 184.2 | 12 | -90 | 0 |
| MRAC0546 | 421,210 | 6,313,316 | 181.2 | 2 | -90 | 0 |
| MRAC0547 | 421,197 | 6,313,373 | 181.3 | 2 | -90 | 0 |
| MRAC0548 | 421,172 | 6,313,457 | 187.9 | 2 | -90 | 0 |
| MRAC0549 | 421,097 | 6,313,524 | 192.3 | 3 | -90 | 0 |
| MRAC0550 | 421,027 | 6,313,594 | 191.7 | 12 | -90 | 0 |
| MRAC0551 | 420,954 | 6,313,666 | 191.1 | 27 | -90 | 0 |
| MRAC0554 | 421,172 | 6,314,161 | 191.2 | 25 | -90 | 0 |
| MRAC0555 | 421,255 | 6,314,082 | 189.0 | 35 | -90 | 0 |
| MRAC0556 | 421,327 | 6,314,016 | 187.8 | 21 | -90 | 0 |
| MRAC0557 | 421,396 | 6,313,941 | 187.9 | 12 | -90 | 0 |
| MRAC0559 | 421,535 | 6,313,797 | 187.4 | 12 | -90 | 0 |
| MRAC0560 | 421,596 | 6,313,728 | 186.8 | 17 | -90 | 0 |
| MRAC0561 | 421,660 | 6,313,665 | 183.5 | 9 | -90 | 0 |
| MRAC0563 | 421,815 | 6,313,508 | 183.5 | 35 | -90 | 0 |
| MRAC0564 | 421,883 | 6,313,443 | 186.3 | 37 | -90 | 0 |
| MRAC0567 | 422,089 | 6,313,945 | 182.4 | 41 | -90 | 0 |
| MRAC0568 | 422,026 | 6,314,018 | 185.7 | 38 | -90 | 0 |
| MRAC0569 | 421,953 | 6,314,088 | 188.0 | 13 | -90 | 0 |
| MRAC0573 | 421,678 | 6,314,325 | 184.9 | 30 | -90 | 0 |
| MRAC0574 | 421,595 | 6,314,356 | 183.7 | 27 | -90 | 0 |
| MRAC0603B | 431,110 | 6,322,416 | 190.5 | 30 | -90 | 0 |
| MRAC0604 | 431,156 | 6,322,355 | 191.8 | 40 | -90 | 0 |
| MRAC0605 | 432,369 | 6,322,773 | 189.8 | 48 | -90 | 0 |
| MRAC0606 | 432,315 | 6,322,843 | 190.8 | 46 | -90 | 0 |
| MRAC0607 | 432,244 | 6,322,863 | 190.1 | 36 | -90 | 0 |
| MRAC0608 | 431,955 | 6,323,003 | 188.9 | 42 | -90 | 0 |
| MRAC0609 | 431,932 | 6,323,091 | 190.3 | 46 | -90 | 0 |
| MRAC0611 | 431,980 | 6,323,224 | 190.6 | 40 | -90 | 0 |
| MRAC0612 | 431,910 | 6,323,296 | 191.7 | 45 | -90 | 0 |
| MRAC0613 | 431,834 | 6,323,379 | 193.7 | 52 | -90 | 0 |
| MRAC0615 | 431,701 | 6,323,520 | 193.6 | 52 | -90 | 0 |
| MRAC0617 | 432,151 | 6,323,791 | 198.1 | 45 | -90 | 0 |
| MRAC0618 | 432,216 | 6,323,700 | 197.3 | 33 | -90 | 0 |
| MRAC0620 | 432,357 | 6,323,564 | 190.6 | 13 | -90 | 0 |
| MRAC0621 | 432,415 | 6,323,494 | 189.8 | 13 | -90 | 0 |
| MRAC0622 | 432,474 | 6,323,418 | 189.9 | 20 | -90 | 0 |
| MRAC0623 | 432,540 | 6,323,337 | 191.6 | 15 | -90 | 0 |
| MRAC0624 | 432,612 | 6,323,296 | 191.1 | 17 | -90 | 0 |
| MRAC0628 | 433,048 | 6,323,532 | 187.4 | 28 | -90 | 0 |
| MRAC0629 | 432,997 | 6,323,602 | 192.6 | 29 | -90 | 0 |

| Table 9<br>Collar Locations for Re-Assayed Drill Holes | | | | | | |
|---|---|---|---|---|---|---|
| **Hole ID** | **East** | **North** | **RL** | **Depth** | **Dip** | **Azimuth** |
| | **(m)** | **(m)** | **(m)** | **(m)** | **(°)** | **(°)** |
| MRAC0630 | 432,914 | 6,323,692 | 193.1 | 31 | -90 | 0 |
| MRAC0631 | 432,850 | 6,323,754 | 191.1 | 21 | -90 | 0 |
| MRAC0632 | 432,777 | 6,323,836 | 187.2 | 17 | -90 | 0 |
| MRAC0660 | 423,649 | 6,312,868 | 182.2 | 55 | -90 | 0 |
| MRAC0662 | 423,117 | 6,312,278 | 182.8 | 43 | -90 | 0 |
| MRAC0663 | 422,701 | 6,312,051 | 180.6 | 43 | -90 | 0 |
| MRAC0664 | 422,612 | 6,311,632 | 180.5 | 44 | -90 | 0 |
| MRAC0665 | 422,496 | 6,311,347 | 178.6 | 45 | -90 | 0 |
| MRAC0666 | 422,091 | 6,311,062 | 180.8 | 52 | -90 | 0 |
| MRAC0667 | 419,048 | 6,308,697 | 181.5 | 50 | -90 | 0 |
| MRAC0668 | 419,458 | 6,308,688 | 180.3 | 26 | -90 | 0 |
| MRAC0669 | 419,861 | 6,308,691 | 183.4 | 38 | -90 | 0 |
| MRAC0670 | 420,250 | 6,308,696 | 180.0 | 48 | -90 | 0 |
| MRAC0671 | 420,656 | 6,308,684 | 181.1 | 30 | -90 | 0 |
| MRAC0672 | 421,052 | 6,308,693 | 179.9 | 36 | -90 | 0 |
| MRAC0673 | 416,213 | 6,306,665 | 177.4 | 22 | -90 | 0 |
| MRAC0675 | 416,799 | 6,306,065 | 175.3 | 26 | -90 | 0 |
| MRAC0676 | 417,131 | 6,305,884 | 175.0 | 29 | -90 | 0 |
| MRAC0677 | 417,437 | 6,305,607 | 178.0 | 56 | -90 | 0 |
| MRAC0678 | 417,740 | 6,305,374 | 177.0 | 34 | -90 | 0 |
| MRAC0679 | 418,085 | 6,305,269 | 174.5 | 29 | -90 | 0 |
| MRAC0683 | 419,271 | 6,311,159 | 183.0 | 20 | -90 | 0 |
| MRAC0684 | 419,193 | 6,311,213 | 184.1 | 32 | -90 | 0 |
| MRAC0689 | 417,440 | 6,309,084 | 180.6 | 35 | -90 | 0 |
| MRAC0690 | 422,079 | 6,313,965 | 183.7 | 52 | -90 | 0 |
| MRAC0692 | 422,148 | 6,314,030 | 183.2 | 37 | -90 | 0 |
| MRAC0693 | 422,132 | 6,314,053 | 183.6 | 37 | -90 | 0 |
| MRAC0694 | 422,119 | 6,314,073 | 183.4 | 42 | -90 | 0 |
| MRAC0695 | 422,103 | 6,314,092 | 184.4 | 41 | -90 | 0 |
| MRAC0696 | 422,079 | 6,314,108 | 185.6 | 35 | -90 | 0 |
| MRAC0697 | 422,057 | 6,314,125 | 186.8 | 31 | -90 | 0 |
| MRAC0698 | 422,043 | 6,314,141 | 188.0 | 21 | -90 | 0 |
| MRAC0699 | 422,026 | 6,314,160 | 188.6 | 15 | -90 | 0 |
| MRAC0705 | 421,977 | 6,313,929 | 182.7 | 14 | -90 | 0 |
| MRAC0706 | 421,990 | 6,313,908 | 182.8 | 24 | -90 | 0 |
| MRAC0707 | 422,008 | 6,313,894 | 182.8 | 22 | -90 | 0 |
| MRAC0708 | 422,029 | 6,313,877 | 182.8 | 39 | -90 | 0 |
| MRAC0709 | 422,061 | 6,313,978 | 184.2 | 48 | -90 | 0 |
| MRAC0711 | 422,009 | 6,314,033 | 186.4 | 24 | -90 | 0 |
| MRAC0712 | 421,990 | 6,314,053 | 187.6 | 29 | -90 | 0 |
| MRAC0714 | 428,178 | 6,319,808 | 184.7 | 30 | -90 | 0 |
| MRAC0715 | 428,196 | 6,319,790 | 184.7 | 26 | -90 | 0 |
| MRAC0716 | 428,213 | 6,319,773 | 184.9 | 35 | -90 | 0 |
| MRAC0717 | 428,231 | 6,319,755 | 185.0 | 51 | -90 | 0 |
| MRAC0718 | 428,249 | 6,319,738 | 184.8 | 54 | -90 | 0 |
| MRAC0719 | 428,267 | 6,319,720 | 184.8 | 55 | -90 | 0 |
| MRAC0720 | 428,284 | 6,319,702 | 184.8 | 58 | -90 | 0 |
| MRAC0721 | 428,302 | 6,319,685 | 185.1 | 68 | -90 | 0 |

| Table 9<br>Collar Locations for Re-Assayed Drill Holes | | | | | | |
|---|---|---|---|---|---|---|
| Hole ID | East | North | RL | Depth | Dip | Azimuth |
| | (m) | (m) | (m) | (m) | (°) | (°) |
| MRAC0722 | 428,320 | 6,319,667 | 185.0 | 59 | -90 | 0 |
| MRAC0723 | 428,231 | 6,319,614 | 185.9 | 36 | -90 | 0 |
| MRAC0724 | 428,213 | 6,319,632 | 185.9 | 48 | -90 | 0 |
| MRAC0725 | 428,196 | 6,319,649 | 185.2 | 31 | -90 | 0 |
| MRAC0726 | 428,160 | 6,319,685 | 184.7 | 47 | -90 | 0 |
| MRAC0727 | 428,143 | 6,319,702 | 184.6 | 44 | -90 | 0 |
| MRAC0728 | 428,125 | 6,319,720 | 184.5 | 38 | -90 | 0 |
| MRAC0729 | 428,036 | 6,319,667 | 184.6 | 21 | -90 | 0 |
| MRAC0730 | 428,054 | 6,319,649 | 185.0 | 26 | -90 | 0 |
| MRAC0731 | 428,072 | 6,319,632 | 185.3 | 36 | -90 | 0 |
| MRAC0732 | 428,089 | 6,319,614 | 185.2 | 32 | -90 | 0 |
| MRAC0733 | 428,107 | 6,319,596 | 184.8 | 39 | -90 | 0 |
| MRAC0758 | 416,402 | 6,329,486 | 218.2 | 81 | -90 | 0 |
| MRAC0759 | 416,103 | 6,329,265 | 217.6 | 83 | -90 | 0 |
| MRAC0763 | 415,699 | 6,329,046 | 219.6 | 76 | -90 | 0 |
| MRAC0774 | 415,602 | 6,328,697 | 218.6 | 89 | -90 | 0 |
| MRAC0776 | 416,009 | 6,328,693 | 218.0 | 75 | -90 | 0 |
| MRAC0777 | 416,204 | 6,328,698 | 217.0 | 80 | -90 | 0 |
| MRAC0781 | 415,497 | 6,328,498 | 218.3 | 85 | -90 | 0 |
| MRAC0782 | 415,296 | 6,328,499 | 218.1 | 74 | -90 | 0 |
| MRAC0783 | 415,607 | 6,329,047 | 219.7 | 86 | -90 | 0 |
| MRAC0784 | 415,800 | 6,329,049 | 219.2 | 76 | -90 | 0 |
| MRAC0785 | 416,000 | 6,329,045 | 218.4 | 85 | -90 | 0 |
| MRAC0788 | 416,401 | 6,328,897 | 217.3 | 80 | -90 | 0 |
| MRAC0789 | 416,201 | 6,328,890 | 217.5 | 93 | -90 | 0 |
| MRAC0791 | 416,050 | 6,328,894 | 218.0 | 73 | -90 | 0 |
| MRAC0792 | 416,000 | 6,328,901 | 218.1 | 60 | -90 | 0 |
| MRAC0793 | 415,797 | 6,328,897 | 218.6 | 68 | -90 | 0 |
| MRAC0794 | 415,604 | 6,328,891 | 219.1 | 72 | -90 | 0 |
| MRAC0795 | 415,497 | 6,328,698 | 218.7 | 71 | -90 | 0 |
| MRAC0796 | 415,701 | 6,328,690 | 218.0 | 77 | -90 | 0 |
| MRAC0797 | 415,902 | 6,328,691 | 218.2 | 67 | -90 | 0 |
| MRAC0798 | 416,100 | 6,328,699 | 217.5 | 69 | -90 | 0 |
| MRAC0800 | 416,048 | 6,328,483 | 217.3 | 67 | -90 | 0 |
| MRAC0801 | 416,000 | 6,328,496 | 217.1 | 72 | -90 | 0 |
| MRAC0802 | 415,802 | 6,328,496 | 217.1 | 71 | -90 | 0 |
| MRAC0822 | 415,997 | 6,328,300 | 216.5 | 39 | -90 | 0 |
| MRAC0823 | 416,086 | 6,328,297 | 216.8 | 52 | -90 | 0 |
| MRAC0826 | 414,898 | 6,327,507 | 216.3 | 59 | -90 | 0 |
| MRAC0828 | 415,100 | 6,327,500 | 216.5 | 27 | -90 | 0 |
| MRAC0830 | 415,297 | 6,327,516 | 215.6 | 41 | -90 | 0 |
| MRAC0831 | 415,400 | 6,327,512 | 215.6 | 51 | -90 | 0 |
| MRAC0850 | 442,472 | 6,320,856 | 195.3 | 32 | -90 | 0 |
| MRAC0851 | 441,172 | 6,319,192 | 187.1 | 45 | -90 | 0 |
| MRAC0852 | 440,443 | 6,318,254 | 190.1 | 42 | -90 | 0 |
| MRAC0853 | 436,876 | 6,324,566 | 194.0 | 48 | -90 | 0 |
| MRAC0854 | 436,949 | 6,324,514 | 193.9 | 41 | -90 | 0 |
| MRAC0855 | 437,039 | 6,324,455 | 194.9 | 25 | -90 | 0 |

| Table 9<br>Collar Locations for Re-Assayed Drill Holes | | | | | | |
|---|---|---|---|---|---|---|
| **Hole ID** | **East** | **North** | **RL** | **Depth** | **Dip** | **Azimuth** |
| | **(m)** | **(m)** | **(m)** | **(m)** | **(º)** | **(º)** |
| MRAC0856 | 437,119 | 6,324,406 | 194.9 | 45 | -90 | 0 |
| MRAC0857 | 437,193 | 6,324,350 | 196.1 | 22 | -90 | 0 |
| MRAC0858 | 437,287 | 6,324,296 | 194.2 | 29 | -90 | 0 |

| Table 10<br>Anomalous Sample Analyses: TREO>300ppm | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Hole ID** | **Sample** | **From** | **To** | **Ce** | **Dy** | **Er** | **Eu** | **Gd** | **Ho** | **La** | **Lu** | **Nb** | **Sm** | **Tb** | **Tm** | **Y** | **Yb** | **TREO** | **HREO** | **LREO** |
| | | **(m)** | **(m)** | **(ppm)** | **(ppm)** | **(ppm)** | **(ppm)** | **(ppm)** | **(ppm)** | **(ppm)** | **(ppm)** | **(ppm)** | **(ppm)** | **(ppm)** | **(ppm)** | **(ppm)** | **(ppm)** | **(ppm)** | **(ppm)** | **(ppm)** |
| MRAC0858 | MR16723 | 28 | 29 | 135.5 | 12.3 | 7.0 | 3.2 | 13.6 | 2.5 | 65.7 | 0.9 | 8.2 | 14.5 | 2.1 | 0.9 | 72.6 | 5.7 | 503 | 165 | 338 |
| MRAC0858 | MR16722 | 26 | 28 | 137.0 | 14.8 | 8.6 | 3.9 | 17.3 | 3.1 | 72.3 | 1.0 | 7.8 | 16.8 | 2.4 | 1.1 | 92.2 | 6.7 | 566 | 205 | 361 |
| MRAC0857 | MR16719 | 17 | 21 | 107.5 | 6.9 | 3.9 | 1.7 | 7.9 | 1.4 | 47.9 | 0.6 | 14.2 | 8.9 | 1.2 | 0.6 | 37.5 | 3.7 | 341 | 90 | 251 |
| MRAC0856 | MR16716 | 40 | 44 | 85.7 | 8.3 | 4.9 | 1.9 | 8.3 | 1.8 | 37.8 | 0.7 | 12.3 | 8.5 | 1.3 | 0.7 | 50.3 | 4.8 | 312 | 112 | 200 |
| MRAC0856 | MR16715 | 36 | 40 | 70.9 | 9.4 | 6.3 | 1.7 | 9.0 | 2.1 | 32.0 | 0.9 | 13.2 | 8.2 | 1.4 | 0.9 | 62.8 | 5.9 | 306 | 133 | 173 |
| MRAC0855 | MR16713 | 21 | 24 | 87.6 | 7.5 | 4.0 | 2.3 | 8.5 | 1.5 | 36.1 | 0.5 | 6.3 | 9.1 | 1.3 | 0.6 | 37.8 | 3.5 | 303 | 95 | 208 |
| MRAC0854 | MR16711 | 37 | 40 | 171.0 | 9.2 | 4.5 | 2.9 | 11.1 | 1.6 | 76.1 | 0.6 | 16.8 | 14.2 | 1.6 | 0.6 | 41.9 | 4.0 | 511 | 112 | 399 |
| MRAC0853 | MR16710 | 47 | 48 | 112.0 | 6.4 | 3.5 | 2.8 | 7.9 | 1.3 | 54.3 | 0.5 | 10.2 | 9.5 | 1.1 | 0.5 | 35.6 | 3.3 | 360 | 88 | 272 |
| MRAC0853 | MR16709 | 46 | 47 | 110.5 | 5.9 | 3.3 | 2.4 | 7.2 | 1.2 | 55.5 | 0.5 | 9.4 | 8.7 | 0.9 | 0.5 | 34.3 | 3.2 | 355 | 84 | 271 |
| MRAC0853 | MR16708 | 43 | 46 | 133.0 | 5.8 | 3.3 | 2.9 | 7.9 | 1.2 | 66.9 | 0.4 | 11.7 | 10.5 | 1.0 | 0.4 | 33.3 | 2.8 | 409 | 83 | 326 |
| MRAC0852 | MR16707 | 41 | 42 | 110.5 | 7.0 | 3.9 | 1.8 | 8.2 | 1.4 | 52.7 | 0.6 | 17.4 | 9.1 | 1.1 | 0.6 | 40.1 | 3.7 | 357 | 94 | 263 |
| MRAC0852 | MR16706 | 40 | 41 | 105.0 | 5.7 | 3.2 | 1.6 | 6.9 | 1.2 | 50.8 | 0.5 | 15.4 | 8.3 | 0.9 | 0.5 | 33.0 | 2.9 | 330 | 80 | 250 |
| MRAC0852 | MR16705 | 36 | 40 | 126.5 | 7.7 | 4.5 | 1.7 | 8.5 | 1.6 | 61.0 | 0.7 | 14.7 | 10.1 | 1.3 | 0.6 | 43.9 | 4.2 | 405 | 104 | 301 |
| MRAC0851 | MR16704 | 44 | 45 | 304.0 | 13.6 | 6.3 | 3.7 | 19.1 | 2.4 | 137.5 | 0.8 | 11.0 | 27.1 | 2.6 | 0.9 | 51.9 | 5.3 | 910 | 160 | 750 |
| MRAC0851 | MR16703 | 40 | 44 | 138.0 | 6.3 | 3.2 | 1.5 | 7.6 | 1.1 | 61.2 | 0.5 | 14.1 | 11.7 | 1.1 | 0.5 | 25.0 | 3.1 | 405 | 75 | 330 |
| MRAC0850 | MR16701 | 29 | 31 | 180.0 | 8.8 | 5.3 | 2.3 | 9.8 | 1.8 | 66.9 | 0.8 | 12.9 | 12.1 | 1.5 | 0.8 | 53.8 | 5.4 | 512 | 124 | 388 |
| MRAC0802 | MR16344 | 70 | 71 | 281.0 | 8.0 | 3.8 | 1.9 | 10.7 | 1.5 | 98.1 | 0.4 | 9.7 | 14.4 | 1.5 | 0.5 | 42.9 | 3.1 | 672 | 108 | 564 |
| MRAC0801 | MR16325 | 71 | 72 | 176.5 | 8.9 | 4.8 | 2.1 | 10.7 | 1.8 | 73.1 | 0.6 | 6.7 | 14.7 | 1.6 | 0.7 | 47.1 | 4.4 | 526 | 118 | 408 |
| MRAC0797 | MR16246 | 66 | 67 | 701.0 | 5.0 | 2.0 | 3.0 | 8.5 | 0.8 | 463.0 | 0.2 | 9.4 | 21.5 | 1.1 | 0.3 | 16.2 | 1.8 | 1708 | 71 | 1637 |
| MRAC0795 | MR16207 | 70 | 71 | 175.0 | 3.3 | 2.0 | 0.8 | 3.4 | 0.6 | 22.8 | 0.3 | 8.7 | 5.0 | 0.6 | 0.3 | 15.7 | 2.1 | 307 | 41 | 266 |
| MRAC0794 | MR16187 | 71 | 72 | 195.5 | 45.5 | 25.9 | 10.3 | 45.5 | 8.6 | 251.0 | 3.1 | 12.9 | 52.1 | 7.4 | 3.5 | 213.0 | 23.4 | 1430 | 530 | 900 |
| MRAC0793 | MR16167 | 67 | 68 | 365.0 | 8.2 | 3.8 | 3.3 | 10.9 | 1.3 | 83.1 | 0.5 | 11.8 | 20.1 | 1.6 | 0.5 | 24.7 | 3.8 | 769 | 94 | 675 |
| MRAC0791 | MR16131 | 68 | 72 | 86.0 | 7.3 | 3.7 | 1.6 | 7.9 | 1.3 | 61.5 | 0.5 | 5.6 | 12.2 | 1.2 | 0.5 | 32.6 | 3.3 | 359 | 87 | 272 |
| MRAC0791 | MR16130 | 64 | 68 | 285.0 | 2.1 | 1.2 | 0.4 | 2.3 | 0.4 | 21.1 | 0.2 | 5.9 | 3.2 | 0.4 | 0.2 | 10.3 | 1.2 | 410 | 24 | 386 |
| MRAC0789 | MR16088 | 92 | 93 | 96.7 | 7.0 | 4.1 | 1.3 | 7.3 | 1.4 | 55.1 | 0.5 | 6.4 | 9.1 | 1.2 | 0.5 | 38.3 | 3.3 | 340 | 91 | 249 |
| MRAC0789 | MR16087 | 88 | 92 | 114.5 | 8.2 | 4.6 | 1.4 | 8.6 | 1.6 | 56.6 | 0.5 | 6.9 | 10.0 | 1.4 | 0.6 | 44.2 | 3.7 | 379 | 104 | 275 |
| MRAC0789 | MR16086 | 84 | 88 | 100.5 | 6.5 | 3.6 | 1.2 | 7.1 | 1.2 | 53.1 | 0.5 | 5.7 | 8.7 | 1.1 | 0.5 | 33.9 | 3.0 | 329 | 80 | 249 |
| MRAC0788 | MR16063 | 79 | 80 | 301.0 | 8.1 | 4.1 | 2.1 | 10.2 | 1.5 | 89.1 | 0.5 | 7.8 | 14.3 | 1.4 | 0.6 | 36.8 | 3.5 | 680 | 102 | 578 |
| MRAC0788 | MR16062 | 76 | 79 | 307.0 | 5.3 | 2.9 | 1.5 | 7.1 | 1.1 | 74.4 | 0.4 | 6.8 | 9.4 | 0.9 | 0.4 | 27.7 | 2.5 | 603 | 70 | 533 |
| MRAC0785 | MR15996 | 84 | 85 | 125.0 | 20.0 | 9.9 | 5.6 | 25.3 | 3.8 | 168.5 | 1.2 | 9.6 | 31.8 | 3.6 | 1.3 | 101.0 | 8.1 | 843 | 254 | 589 |
| MRAC0785 | MR15995 | 80 | 84 | 119.0 | 23.8 | 11.3 | 7.0 | 30.4 | 4.3 | 177.0 | 1.3 | 8.2 | 38.8 | 4.4 | 1.6 | 105.0 | 9.5 | 925 | 286 | 639 |
| MRAC0785 | MR15993 | 72 | 76 | 144.5 | 1.8 | 0.9 | 0.7 | 2.5 | 0.3 | 56.2 | 0.1 | 10.3 | 4.1 | 0.4 | 0.1 | 7.6 | 0.8 | 300 | 23 | 277 |
| MRAC0784 | MR15974 | 75 | 76 | 346.0 | 5.3 | 2.6 | 2.0 | 7.0 | 0.9 | 48.5 | 0.3 | 8.1 | 10.3 | 1.0 | 0.3 | 21.6 | 2.5 | 599 | 63 | 536 |
| MRAC0783 | MR15953 | 85 | 86 | 448.0 | 33.2 | 16.0 | 8.5 | 35.4 | 5.6 | 223.0 | 1.8 | 9.5 | 54.0 | 6.1 | 2.1 | 122.0 | 13.8 | 1529 | 358 | 1171 |
| MRAC0781 | MR15907 | 84 | 85 | 92.5 | 17.2 | 10.1 | 3.0 | 17.5 | 3.6 | 97.5 | 1.2 | 6.7 | 17.7 | 2.8 | 1.4 | 104.0 | 8.1 | 577 | 227 | 350 |
| MRAC0776 | MR15802 | 74 | 75 | 136.0 | 8.9 | 4.4 | 1.9 | 10.2 | 1.7 | 71.3 | 0.5 | 5.3 | 13.8 | 1.5 | 0.6 | 42.3 | 3.6 | 460 | 109 | 351 |
| MRAC0774 | MR15761 | 88 | 89 | 95.3 | 12.3 | 7.6 | 2.5 | 12.0 | 2.6 | 63.3 | 1.1 | 12.9 | 10.7 | 1.9 | 1.1 | 74.6 | 6.8 | 425 | 162 | 263 |
| MRAC0763 | MR15520 | 75 | 76 | 92.9 | 12.2 | 7.1 | 2.8 | 12.6 | 2.6 | 62.9 | 0.9 | 13.7 | 13.5 | 2.0 | 1.0 | 71.4 | 6.3 | 440 | 160 | 280 |

**Table 10**
**Anomalous Sample Analyses: TREO>300ppm**

| Hole ID | Sample | From | To | Ce | Dy | Er | Eu | Gd | Ho | La | Lu | Nb | Sm | Tb | Tm | Y | Yb | TREO | HREO | LREO |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | (m) | (m) | (ppm) | (ppm) | (ppm) | (ppm) | (ppm) | (ppm) | (ppm) | (ppm) | (ppm) | (ppm) | (ppm) | (ppm) | (ppm) | (ppm) | (ppm) | (ppm) | (ppm) |
| MRAC0759 | MR15435 | 82 | 83 | 170.0 | 18.5 | 9.9 | 5.4 | 24.9 | 3.5 | 240.0 | 1.2 | 8.0 | 37.4 | 3.3 | 1.4 | 91.0 | 8.0 | 1055 | 246 | 809 |
| MRAC0758 | MR15412 | 80 | 81 | 128.5 | 20.8 | 9.9 | 5.4 | 25.6 | 3.7 | 207.0 | 1.2 | 8.5 | 36.3 | 3.7 | 1.4 | 86.0 | 8.8 | 933 | 243 | 690 |
| MRAC0733 | MR15317 | 38 | 39 | 42.6 | 16.9 | 10.1 | 5.1 | 17.0 | 3.5 | 36.6 | 1.2 | 3.7 | 13.9 | 2.7 | 1.3 | 106.0 | 7.9 | 393 | 226 | 167 |
| MRAC0733 | MR15316 | 36 | 38 | 82.1 | 22.9 | 12.1 | 9.1 | 25.2 | 4.2 | 58.7 | 1.5 | 5.1 | 26.0 | 4.0 | 1.7 | 108.0 | 10.5 | 579 | 273 | 306 |
| MRAC0732 | MR15306 | 31 | 32 | 84.7 | 30.4 | 19.6 | 8.0 | 32.1 | 7.0 | 79.2 | 2.3 | 8.4 | 21.4 | 4.8 | 2.5 | 266.0 | 14.0 | 824 | 502 | 322 |
| MRAC0732 | MR15305 | 28 | 31 | 142.0 | 54.4 | 32.5 | 16.0 | 61.1 | 11.8 | 157.0 | 3.8 | 9.7 | 45.2 | 8.8 | 4.3 | 406.0 | 24.1 | 1443 | 815 | 628 |
| MRAC0731 | MR15294 | 28 | 32 | 123.5 | 18.7 | 9.9 | 7.0 | 20.6 | 3.7 | 50.3 | 1.3 | 6.6 | 19.8 | 3.1 | 1.4 | 93.3 | 8.6 | 550 | 226 | 324 |
| MRAC0730 | MR15286 | 25 | 26 | 71.4 | 11.6 | 7.8 | 3.9 | 11.4 | 2.5 | 34.9 | 1.1 | 9.2 | 9.4 | 1.8 | 1.1 | 75.9 | 7.3 | 346 | 161 | 185 |
| MRAC0730 | MR15285 | 24 | 25 | 211.0 | 36.0 | 20.7 | 12.8 | 40.4 | 7.4 | 118.0 | 2.5 | 8.9 | 34.4 | 5.8 | 2.7 | 233.0 | 15.9 | 1104 | 502 | 602 |
| MRAC0730 | MR15284 | 20 | 24 | 203.0 | 26.6 | 15.3 | 10.3 | 28.0 | 5.5 | 121.0 | 2.1 | 12.7 | 29.2 | 4.3 | 2.2 | 151.5 | 13.2 | 924 | 348 | 576 |
| MRAC0729 | MR15277 | 20 | 21 | 146.0 | 13.4 | 7.3 | 4.8 | 13.3 | 2.7 | 42.2 | 1.0 | 9.7 | 13.5 | 2.2 | 1.1 | 59.3 | 6.7 | 452 | 151 | 301 |
| MRAC0729 | MR15276 | 16 | 20 | 157.0 | 13.8 | 7.3 | 5.2 | 14.7 | 2.8 | 48.1 | 1.0 | 9.5 | 15.2 | 2.3 | 1.0 | 59.1 | 6.9 | 491 | 156 | 335 |
| MRAC0728 | MR15271 | 37 | 38 | 32.0 | 21.1 | 11.3 | 8.3 | 21.8 | 4.3 | 49.5 | 1.4 | 2.3 | 20.8 | 3.5 | 1.6 | 110.0 | 9.4 | 469 | 260 | 209 |
| MRAC0728 | MR15270 | 36 | 37 | 46.4 | 31.3 | 16.0 | 13.1 | 34.2 | 6.1 | 73.8 | 2.0 | 3.1 | 32.0 | 5.3 | 2.2 | 151.5 | 12.9 | 687 | 370 | 317 |
| MRAC0728 | MR15269 | 32 | 36 | 48.7 | 28.8 | 15.2 | 12.0 | 30.2 | 5.7 | 67.9 | 2.0 | 3.9 | 30.6 | 4.8 | 2.1 | 132.5 | 13.5 | 641 | 334 | 307 |
| MRAC0727 | MR15260 | 43 | 44 | 47.6 | 20.7 | 13.5 | 4.7 | 18.0 | 4.8 | 24.6 | 1.7 | 4.5 | 12.5 | 3.1 | 1.8 | 165.5 | 10.8 | 460 | 315 | 145 |
| MRAC0727 | MR15259 | 40 | 43 | 49.8 | 17.7 | 11.3 | 4.7 | 16.2 | 3.9 | 32.1 | 1.4 | 4.9 | 13.0 | 2.8 | 1.6 | 126.0 | 8.8 | 417 | 254 | 163 |
| MRAC0726 | MR15247 | 46 | 47 | 104.5 | 107.0 | 48.5 | 42.5 | 150.5 | 18.8 | 297.0 | 3.4 | 3.2 | 110.5 | 19.3 | 5.2 | 580.0 | 24.7 | 2446 | 1347 | 1099 |
| MRAC0726 | MR15246 | 44 | 46 | 98.6 | 126.0 | 64.6 | 46.5 | 170.5 | 26.3 | 354.0 | 5.4 | 4.1 | 118.5 | 22.4 | 7.9 | 803.0 | 37.5 | 2945 | 1740 | 1205 |
| MRAC0726 | MR15245 | 40 | 44 | 56.0 | 61.3 | 37.8 | 17.1 | 53.5 | 11.9 | 109.5 | 5.0 | 3.5 | 47.2 | 8.9 | 5.0 | 292.0 | 34.2 | 1160 | 697 | 463 |
| MRAC0724 | MR15217 | 16 | 20 | 144.5 | 9.1 | 2.3 | 6.7 | 15.7 | 1.2 | 220.0 | 0.3 | 25.0 | 28.9 | 1.9 | 0.3 | 19.1 | 1.8 | 789 | 102 | 687 |
| MRAC0722 | MR15202 | 58 | 59 | 45.5 | 30.6 | 16.7 | 10.2 | 33.6 | 6.2 | 64.0 | 1.9 | 3.9 | 32.1 | 5.0 | 2.2 | 166.0 | 12.5 | 683 | 384 | 299 |
| MRAC0722 | MR15201 | 56 | 58 | 58.6 | 69.2 | 33.4 | 27.5 | 86.4 | 13.1 | 174.5 | 3.4 | 4.1 | 90.3 | 12.4 | 4.2 | 329.0 | 24.2 | 1613 | 839 | 774 |
| MRAC0721 | MR15185 | 67 | 68 | 42.0 | 16.7 | 9.2 | 5.1 | 22.7 | 3.4 | 49.4 | 0.7 | 3.6 | 13.1 | 2.8 | 1.0 | 159.0 | 4.9 | 479 | 294 | 185 |
| MRAC0721 | MR15184 | 64 | 67 | 23.0 | 18.0 | 10.6 | 4.6 | 20.0 | 3.7 | 32.7 | 1.0 | 5.2 | 12.0 | 2.8 | 1.3 | 125.0 | 6.5 | 380 | 250 | 130 |
| MRAC0721 | MR15183 | 60 | 64 | 79.1 | 76.2 | 41.4 | 22.6 | 101.5 | 15.3 | 208.0 | 3.2 | 2.9 | 59.6 | 12.9 | 4.5 | 596.0 | 22.4 | 1850 | 1171 | 679 |
| MRAC0721 | MR15182 | 56 | 60 | 172.0 | 179.5 | 92.2 | 60.3 | 236.0 | 36.5 | 505.0 | 9.8 | 3.1 | 164.5 | 31.3 | 12.3 | 1005.0 | 69.0 | 4039 | 2303 | 1736 |
| MRAC0721 | MR15181 | 52 | 56 | 81.7 | 96.2 | 42.5 | 44.0 | 122.5 | 17.3 | 222.0 | 5.4 | 3.2 | 136.0 | 17.6 | 6.3 | 375.0 | 39.7 | 2162 | 1084 | 1078 |
| MRAC0720 | MR15167 | 57 | 58 | 56.5 | 22.1 | 12.6 | 6.5 | 22.3 | 4.6 | 46.6 | 1.6 | 3.5 | 19.2 | 3.6 | 1.7 | 128.5 | 10.3 | 512 | 283 | 229 |
| MRAC0720 | MR15166 | 56 | 57 | 55.3 | 33.2 | 18.6 | 10.2 | 33.8 | 6.9 | 67.1 | 2.4 | 2.9 | 29.5 | 5.4 | 2.5 | 172.5 | 15.6 | 711 | 401 | 310 |
| MRAC0720 | MR15165 | 52 | 56 | 84.8 | 17.9 | 12.5 | 3.6 | 13.3 | 4.2 | 50.1 | 1.8 | 4.6 | 10.9 | 2.5 | 1.8 | 131.5 | 10.9 | 482 | 258 | 224 |
| MRAC0719 | MR15151 | 54 | 55 | 28.8 | 14.8 | 8.7 | 4.0 | 17.0 | 3.4 | 38.2 | 1.0 | 3.0 | 10.5 | 2.4 | 1.1 | 130.5 | 5.8 | 384 | 246 | 138 |
| MRAC0719 | MR15149 | 52 | 54 | 48.8 | 41.3 | 24.0 | 11.3 | 45.1 | 9.0 | 94.2 | 2.6 | 3.4 | 31.4 | 6.7 | 3.1 | 301.0 | 16.2 | 944 | 600 | 344 |
| MRAC0719 | MR15148 | 48 | 52 | 52.7 | 51.0 | 30.1 | 13.4 | 49.9 | 11.1 | 104.5 | 3.5 | 3.9 | 36.7 | 7.9 | 4.0 | 330.0 | 21.9 | 1072 | 684 | 388 |
| MRAC0718 | MR15133 | 48 | 52 | 51.5 | 19.5 | 13.5 | 5.3 | 19.6 | 4.6 | 31.4 | 1.4 | 9.5 | 14.5 | 3.0 | 1.7 | 207.0 | 9.2 | 539 | 369 | 170 |
| MRAC0718 | MR15132 | 44 | 48 | 32.4 | 19.3 | 12.3 | 5.2 | 19.2 | 4.2 | 31.5 | 1.5 | 3.6 | 13.6 | 3.2 | 1.6 | 155.0 | 9.4 | 445 | 301 | 144 |
| MRAC0717 | MR15117 | 40 | 44 | 64.9 | 35.0 | 19.6 | 11.7 | 41.6 | 7.2 | 80.6 | 2.2 | 3.8 | 33.0 | 6.0 | 2.5 | 231.0 | 14.6 | 842 | 492 | 350 |
| MRAC0717 | MR15116 | 36 | 40 | 187.5 | 111.5 | 55.6 | 44.7 | 145.0 | 21.2 | 363.0 | 5.9 | 3.8 | 130.0 | 20.5 | 7.1 | 650.0 | 41.3 | 2907 | 1497 | 1410 |

| Table 10<br>Anomalous Sample Analyses: TREO>300ppm | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Hole ID | Sample | From | To | Ce | Dy | Er | Eu | Gd | Ho | La | Lu | Nb | Sm | Tb | Tm | Y | Yb | TREO | HREO | LREO |
| | | (m) | (m) | (ppm) | (ppm) | (ppm) | (ppm) | (ppm) | (ppm) | (ppm) | (ppm) | (ppm) | (ppm) | (ppm) | (ppm) | (ppm) | (ppm) | (ppm) | (ppm) | (ppm) |
| MRAC0717 | MR15115 | 32 | 36 | 76.1 | 49.0 | 30.7 | 14.8 | 50.2 | 10.5 | 105.5 | 3.7 | 4.4 | 41.4 | 7.9 | 4.0 | 322.0 | 24.6 | 1129 | 681 | 448 |
| MRAC0716 | MR15105 | 32 | 34 | 53.3 | 19.0 | 11.1 | 6.6 | 21.4 | 3.9 | 47.3 | 1.2 | 1.8 | 18.7 | 3.3 | 1.4 | 124.5 | 8.4 | 488 | 269 | 219 |
| MRAC0715 | MR15095 | 25 | 26 | 122.0 | 19.0 | 11.6 | 6.8 | 19.6 | 3.9 | 46.5 | 1.4 | 6.1 | 17.4 | 3.1 | 1.6 | 116.5 | 9.7 | 551 | 257 | 294 |
| MRAC0715 | MR15094 | 24 | 25 | 210.0 | 27.9 | 16.4 | 10.1 | 28.9 | 5.7 | 68.4 | 2.1 | 6.4 | 26.0 | 4.6 | 2.2 | 154.0 | 13.8 | 835 | 354 | 481 |
| MRAC0714 | MR15086 | 28 | 29 | 106.0 | 6.6 | 3.7 | 3.6 | 7.4 | 1.3 | 39.3 | 0.6 | 6.1 | 9.5 | 1.2 | 0.5 | 30.1 | 3.5 | 315 | 82 | 233 |
| MRAC0712 | MR15071 | 24 | 28 | 43.3 | 12.7 | 8.5 | 3.6 | 13.5 | 2.9 | 29.6 | 1.2 | 3.8 | 9.5 | 1.9 | 1.2 | 98.9 | 7.4 | 337 | 197 | 140 |
| MRAC0712 | MR15070 | 20 | 24 | 72.3 | 29.3 | 20.7 | 8.8 | 31.4 | 7.0 | 66.7 | 2.8 | 2.7 | 22.0 | 4.5 | 2.9 | 225.0 | 17.2 | 747 | 455 | 292 |
| MRAC0712 | MR15069 | 16 | 20 | 98.7 | 30.8 | 21.0 | 8.5 | 31.0 | 7.4 | 48.3 | 3.0 | 4.1 | 23.3 | 4.5 | 2.9 | 278.0 | 18.3 | 824 | 525 | 299 |
| MRAC0711 | MR15064 | 23 | 24 | 212.0 | 385.0 | 199.0 | 177.0 | 486.0 | 77.6 | 1340.0 | 24.5 | 6.2 | 475.0 | 63.6 | 27.0 | 2310.0 | 159.0 | 10461 | 5323 | 5138 |
| MRAC0711 | MR15063 | 20 | 23 | 176.5 | 121.0 | 63.8 | 55.7 | 154.5 | 24.6 | 442.0 | 8.0 | 5.1 | 149.0 | 20.1 | 8.7 | 750.0 | 51.8 | 3393 | 1709 | 1684 |
| MRAC0711 | MR15062 | 16 | 20 | 41.8 | 12.3 | 6.3 | 6.3 | 16.6 | 2.4 | 54.5 | 0.9 | 7.8 | 20.4 | 2.1 | 0.9 | 55.2 | 5.6 | 410 | 154 | 256 |
| MRAC0709 | MR15051 | 40 | 44 | 91.8 | 22.7 | 11.4 | 12.8 | 33.5 | 4.2 | 111.5 | 1.1 | 5.9 | 32.7 | 4.3 | 1.3 | 122.0 | 7.9 | 748 | 308 | 440 |
| MRAC0709 | MR15048 | 32 | 36 | 61.5 | 10.9 | 6.8 | 4.9 | 10.1 | 2.3 | 24.1 | 1.1 | 11.4 | 10.4 | 1.7 | 1.0 | 56.4 | 6.5 | 300 | 137 | 163 |
| MRAC0708 | MR15036 | 28 | 32 | 77.6 | 11.9 | 7.3 | 5.4 | 14.0 | 2.5 | 45.4 | 0.9 | 7.1 | 13.7 | 1.9 | 1.0 | 84.2 | 5.9 | 412 | 181 | 231 |
| MRAC0708 | MR15035 | 24 | 28 | 119.0 | 13.6 | 9.3 | 5.4 | 14.9 | 3.0 | 41.2 | 1.2 | 8.5 | 14.0 | 2.1 | 1.2 | 95.3 | 7.8 | 474 | 204 | 270 |
| MRAC0708 | MR15034 | 20 | 24 | 56.5 | 13.0 | 9.8 | 4.5 | 13.3 | 3.1 | 17.1 | 1.5 | 10.5 | 10.9 | 2.0 | 1.3 | 106.5 | 8.5 | 358 | 213 | 145 |
| MRAC0707 | MR15026 | 16 | 20 | 121.5 | 12.5 | 6.7 | 5.2 | 12.6 | 2.5 | 36.9 | 1.0 | 5.1 | 13.2 | 2.1 | 1.0 | 55.9 | 6.3 | 409 | 142 | 267 |
| MRAC0707 | MR15025 | 12 | 16 | 141.0 | 8.7 | 5.3 | 2.6 | 6.3 | 1.7 | 64.2 | 0.8 | 7.2 | 6.7 | 1.2 | 0.8 | 30.0 | 5.4 | 379 | 83 | 296 |
| MRAC0706 | MR15021 | 23 | 24 | 94.4 | 25.3 | 16.9 | 7.7 | 23.1 | 5.5 | 59.1 | 2.3 | 5.5 | 19.2 | 3.8 | 2.4 | 134.5 | 15.7 | 598 | 311 | 287 |
| MRAC0706 | MR15020 | 20 | 23 | 64.7 | 25.9 | 20.1 | 5.9 | 19.6 | 6.1 | 35.0 | 3.0 | 5.8 | 14.4 | 3.5 | 2.9 | 156.5 | 19.2 | 524 | 338 | 186 |
| MRAC0706 | MR15019 | 16 | 20 | 77.8 | 33.6 | 25.6 | 7.0 | 24.5 | 7.9 | 30.8 | 4.1 | 7.0 | 16.5 | 4.6 | 4.0 | 174.0 | 26.7 | 597 | 398 | 199 |
| MRAC0706 | MR15018 | 12 | 16 | 75.5 | 49.3 | 40.9 | 8.8 | 30.0 | 12.0 | 25.7 | 6.9 | 9.6 | 20.5 | 6.2 | 6.3 | 259.0 | 45.8 | 786 | 590 | 196 |
| MRAC0706 | MR15017 | 8 | 12 | 119.5 | 2.5 | 1.4 | 1.2 | 2.4 | 0.5 | 67.8 | 0.3 | 6.9 | 4.4 | 0.4 | 0.2 | 8.6 | 1.6 | 306 | 28 | 278 |
| MRAC0705 | MR15014 | 13 | 14 | 221.0 | 15.1 | 5.2 | 9.6 | 18.6 | 2.3 | 101.0 | 0.5 | 7.2 | 24.7 | 2.9 | 0.7 | 43.6 | 4.0 | 704 | 152 | 552 |
| MRAC0705 | MR15013 | 12 | 13 | 110.5 | 7.2 | 2.5 | 4.9 | 9.1 | 1.1 | 50.5 | 0.2 | 5.5 | 12.3 | 1.4 | 0.3 | 20.3 | 1.9 | 347 | 72 | 275 |
| MRAC0822 | MR14946 | 38 | 39 | 136.0 | 4.3 | 2.2 | 1.1 | 4.9 | 0.8 | 30.3 | 0.3 | 5.7 | 8.4 | 0.8 | 0.3 | 15.7 | 2.3 | 309 | 49 | 260 |
| MRAC0828 | MR14903 | 26 | 27 | 129.5 | 3.7 | 1.6 | 1.2 | 4.7 | 0.7 | 49.1 | 0.2 | 7.4 | 7.1 | 0.7 | 0.2 | 14.0 | 1.4 | 311 | 42 | 269 |
| MRAC0831 | MR14884 | 50 | 51 | 99.9 | 6.9 | 3.6 | 1.4 | 7.2 | 1.3 | 48.6 | 0.5 | 7.1 | 9.0 | 1.1 | 0.5 | 33.3 | 3.2 | 322 | 82 | 240 |
| MRAC0699 | MR13987 | 14 | 15 | 195.0 | 17.8 | 8.2 | 7.9 | 19.8 | 3.3 | 77.9 | 1.0 | 5.5 | 22.4 | 3.1 | 1.2 | 70.3 | 7.1 | 660 | 194 | 466 |
| MRAC0699 | MR13986 | 12 | 14 | 165.5 | 10.8 | 4.8 | 6.1 | 13.2 | 1.8 | 61.5 | 0.5 | 5.6 | 17.9 | 1.9 | 0.6 | 35.3 | 3.8 | 498 | 116 | 382 |
| MRAC0698 | MR13981 | 20 | 21 | 119.5 | 32.3 | 25.8 | 6.8 | 23.6 | 7.7 | 35.9 | 4.2 | 4.8 | 17.4 | 4.2 | 3.9 | 214.0 | 26.5 | 707 | 447 | 260 |
| MRAC0698 | MR13980 | 16 | 20 | 194.0 | 26.9 | 15.2 | 9.5 | 26.4 | 5.1 | 57.4 | 2.0 | 4.5 | 27.0 | 4.3 | 2.1 | 103.0 | 14.3 | 710 | 282 | 428 |
| MRAC0697 | MR13975 | 30 | 31 | 112.0 | 33.7 | 20.4 | 15.1 | 43.2 | 7.0 | 136.5 | 2.6 | 5.7 | 45.4 | 5.8 | 2.7 | 189.5 | 16.8 | 1031 | 463 | 568 |
| MRAC0697 | MR13974 | 28 | 30 | 98.2 | 24.1 | 16.0 | 8.8 | 25.9 | 5.1 | 93.9 | 2.2 | 5.9 | 26.0 | 3.8 | 2.2 | 144.5 | 14.0 | 716 | 330 | 386 |
| MRAC0697 | MR13973 | 24 | 28 | 59.0 | 24.2 | 19.1 | 5.4 | 18.4 | 5.8 | 25.3 | 3.1 | 6.6 | 13.5 | 3.4 | 2.8 | 135.5 | 19.0 | 464 | 305 | 159 |
| MRAC0697 | MR13972 | 20 | 24 | 131.5 | 27.9 | 19.5 | 8.0 | 22.2 | 6.0 | 46.5 | 3.1 | 7.6 | 22.2 | 4.0 | 3.0 | 118.0 | 21.3 | 628 | 308 | 320 |
| MRAC0696 | MR13966 | 34 | 35 | 39.9 | 15.7 | 8.8 | 7.7 | 20.3 | 3.1 | 76.4 | 1.0 | 4.3 | 21.1 | 2.8 | 1.1 | 84.9 | 7.0 | 477 | 209 | 268 |
| MRAC0696 | MR13965 | 32 | 34 | 44.4 | 22.9 | 11.8 | 16.0 | 35.4 | 4.2 | 177.0 | 1.4 | 4.3 | 42.9 | 4.3 | 1.5 | 109.5 | 9.3 | 865 | 312 | 553 |

| Table 10<br>Anomalous Sample Analyses: TREO>300ppm | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Hole ID** | **Sample** | **From** | **To** | **Ce** | **Dy** | **Er** | **Eu** | **Gd** | **Ho** | **La** | **Lu** | **Nb** | **Sm** | **Tb** | **Tm** | **Y** | **Yb** | **TREO** | **HREO** | **LREO** |
| | | **(m)** | **(m)** | **(ppm)** | **(ppm)** | **(ppm)** | **(ppm)** | **(ppm)** | **(ppm)** | **(ppm)** | **(ppm)** | **(ppm)** | **(ppm)** | **(ppm)** | **(ppm)** | **(ppm)** | **(ppm)** | **(ppm)** | **(ppm)** | **(ppm)** |
| MRAC0438 | MR10465 | 40 | 44 | 161.5 | 62.2 | 36.0 | 21.8 | 71.7 | 13.0 | 306.0 | 3.4 | 3.3 | 60.3 | 9.8 | 4.1 | 359.0 | 24.9 | 1767 | 810 | 957 |
| MRAC0438 | MR10466 | 44 | 45 | 76.2 | 28.3 | 15.3 | 9.6 | 28.5 | 5.8 | 107.5 | 1.6 | 3.6 | 24.9 | 4.5 | 2.0 | 153.0 | 11.0 | 721 | 345 | 376 |
| MRAC0439 | MR10479 | 40 | 44 | 359.0 | 97.3 | 57.1 | 37.5 | 97.3 | 21.1 | 351.0 | 7.1 | 6.9 | 93.7 | 15.4 | 7.7 | 704.0 | 45.8 | 2885 | 1446 | 1439 |
| MRAC0439 | MR10480 | 44 | 47 | 120.0 | 57.2 | 40.9 | 19.3 | 55.9 | 14.2 | 124.5 | 4.7 | 5.5 | 37.8 | 8.6 | 5.3 | 466.0 | 30.6 | 1414 | 907 | 507 |
| MRAC0439 | MR10482 | 47 | 48 | 230.0 | 115.5 | 78.6 | 39.1 | 125.5 | 28.3 | 276.0 | 8.0 | 3.6 | 73.3 | 18.0 | 9.9 | 980.0 | 51.2 | 2893 | 1873 | 1020 |
| MRAC0440 | MR10483 | 0 | 4 | 77.2 | 30.4 | 17.9 | 11.1 | 31.3 | 6.5 | 70.8 | 1.9 | 3.8 | 23.3 | 4.9 | 2.3 | 194.0 | 12.7 | 715 | 409 | 306 |
| MRAC0440 | MR10491 | 32 | 36 | 95.9 | 11.3 | 6.0 | 6.7 | 15.5 | 2.0 | 60.7 | 0.8 | 13.8 | 16.0 | 2.1 | 0.8 | 42.8 | 5.2 | 414 | 132 | 282 |
| MRAC0440 | MR10492 | 36 | 40 | 70.2 | 13.0 | 7.5 | 6.0 | 17.0 | 2.6 | 51.2 | 0.8 | 10.3 | 15.4 | 2.3 | 1.0 | 71.5 | 5.9 | 408 | 175 | 233 |
| MRAC0441 | MR10503 | 20 | 24 | 159.5 | 73.3 | 39.0 | 42.5 | 101.5 | 14.1 | 350.0 | 3.5 | 8.2 | 84.8 | 13.1 | 4.5 | 491.0 | 24.7 | 2217 | 1084 | 1133 |
| MRAC0441 | MR10504 | 24 | 25 | 210.0 | 87.3 | 55.2 | 41.6 | 109.0 | 18.8 | 329.0 | 5.6 | 9.5 | 78.0 | 14.6 | 6.5 | 756.0 | 37.0 | 2582 | 1481 | 1101 |
| MRAC0442 | MR10505 | 0 | 4 | 32.5 | 10.9 | 6.4 | 5.7 | 15.2 | 2.3 | 44.4 | 0.6 | 4.1 | 10.8 | 1.9 | 0.8 | 78.9 | 4.5 | 328 | 169 | 159 |
| MRAC0442 | MR10514 | 36 | 40 | 168.0 | 5.6 | 4.5 | 1.6 | 4.6 | 1.3 | 19.9 | 0.7 | 13.1 | 3.6 | 0.9 | 0.7 | 29.2 | 4.5 | 311 | 68 | 243 |
| MRAC0442 | MR10515 | 40 | 43 | 87.0 | 13.1 | 8.1 | 5.7 | 15.3 | 2.7 | 49.4 | 1.0 | 11.6 | 13.5 | 2.3 | 1.1 | 77.8 | 7.1 | 420 | 180 | 240 |
| MRAC0442 | MR10516 | 43 | 44 | 162.5 | 53.8 | 31.6 | 23.6 | 66.9 | 11.0 | 150.5 | 3.2 | 10.8 | 53.0 | 9.2 | 3.9 | 408.0 | 22.6 | 1516 | 839 | 677 |
| MRAC0443 | MR10517 | 0 | 4 | 81.9 | 32.3 | 19.1 | 13.4 | 38.9 | 6.6 | 97.3 | 1.9 | 6.7 | 30.6 | 5.3 | 2.3 | 234.0 | 13.1 | 878 | 486 | 392 |
| MRAC0445 | MR10560 | 48 | 52 | 151.5 | 25.9 | 16.8 | 7.6 | 28.3 | 5.7 | 82.8 | 2.3 | 13.9 | 26.3 | 4.4 | 2.4 | 165.5 | 14.0 | 797 | 365 | 432 |
| MRAC0446 | MR10563 | 0 | 4 | 89.5 | 16.3 | 9.0 | 4.5 | 17.4 | 3.3 | 45.1 | 1.1 | 8.7 | 15.6 | 2.8 | 1.3 | 92.4 | 7.3 | 453 | 206 | 247 |
| MRAC0446 | MR10575 | 45 | 46 | 155.0 | 8.1 | 5.0 | 2.6 | 6.9 | 1.7 | 17.6 | 0.9 | 3.6 | 7.6 | 1.2 | 0.8 | 33.6 | 5.6 | 335 | 89 | 246 |
| MRAC0450 | MR10628 | 36 | 40 | 110.5 | 3.4 | 1.8 | 1.3 | 4.4 | 0.7 | 71.0 | 0.3 | 23.8 | 6.2 | 0.6 | 0.3 | 19.8 | 1.5 | 326 | 49 | 277 |
| MRAC0450 | MR10630 | 44 | 48 | 53.9 | 14.7 | 7.5 | 4.8 | 15.1 | 2.9 | 55.4 | 0.9 | 2.2 | 13.2 | 2.4 | 1.0 | 75.3 | 6.1 | 388 | 175 | 213 |
| MRAC0450 | MR10631 | 48 | 51 | 136.5 | 10.3 | 4.5 | 4.1 | 12.2 | 1.8 | 92.2 | 0.5 | 2.5 | 14.0 | 1.8 | 0.6 | 43.0 | 3.4 | 492 | 117 | 375 |
| MRAC0450 | MR10632 | 51 | 52 | 74.1 | 8.2 | 3.9 | 2.8 | 8.7 | 1.5 | 49.5 | 0.4 | 2.0 | 9.1 | 1.4 | 0.5 | 39.0 | 3.3 | 305 | 96 | 209 |
| MRAC0451 | MR10645 | 48 | 50 | 29.7 | 14.8 | 6.0 | 10.2 | 17.5 | 2.4 | 68.0 | 0.7 | 0.8 | 22.0 | 2.8 | 0.8 | 53.0 | 5.0 | 410 | 163 | 247 |
| MRAC0451 | MR10646 | 50 | 51 | 35.5 | 14.8 | 6.4 | 9.9 | 17.2 | 2.6 | 67.6 | 0.9 | 0.2 | 21.3 | 2.7 | 0.9 | 50.2 | 5.9 | 412 | 159 | 253 |
| MRAC0453 | MR10671 | 44 | 45 | 123.0 | 27.5 | 16.2 | 8.8 | 28.9 | 5.4 | 67.1 | 1.8 | 3.6 | 26.0 | 4.6 | 2.1 | 149.5 | 12.7 | 702 | 342 | 360 |
| MRAC0454 | MR10681 | 36 | 40 | 137.0 | 8.2 | 3.6 | 6.3 | 10.2 | 1.4 | 50.9 | 0.5 | 16.7 | 14.6 | 1.5 | 0.5 | 26.0 | 3.2 | 405 | 92 | 313 |
| MRAC0454 | MR10682 | 40 | 42 | 314.0 | 53.2 | 29.3 | 30.2 | 56.6 | 11.0 | 136.5 | 3.9 | 19.8 | 51.9 | 8.7 | 4.2 | 275.0 | 26.3 | 1483 | 666 | 817 |
| MRAC0455 | MR10694 | 32 | 36 | 135.5 | 17.1 | 11.4 | 5.5 | 14.4 | 3.8 | 37.7 | 1.9 | 5.4 | 13.4 | 2.5 | 1.8 | 83.6 | 12.0 | 478 | 202 | 276 |
| MRAC0455 | MR10695 | 36 | 37 | 96.4 | 77.5 | 35.4 | 45.5 | 84.8 | 14.0 | 196.5 | 5.0 | 6.6 | 114.0 | 13.8 | 5.3 | 225.0 | 34.6 | 1739 | 781 | 958 |
| MRAC0455 | MR10696 | 37 | 38 | 43.5 | 20.0 | 11.4 | 10.7 | 19.4 | 4.0 | 54.3 | 2.0 | 6.6 | 23.4 | 3.2 | 1.8 | 70.2 | 13.2 | 464 | 214 | 250 |
| MRAC0456 | MR10700 | 12 | 16 | 47.1 | 2.6 | 1.3 | 3.9 | 3.8 | 0.5 | 142.5 | 0.3 | 8.8 | 14.0 | 0.5 | 0.2 | 7.9 | 1.7 | 436 | 43 | 393 |
| MRAC0456 | MR10701 | 16 | 20 | 74.5 | 4.1 | 2.1 | 6.3 | 5.4 | 0.7 | 164.5 | 0.6 | 10.6 | 23.8 | 0.8 | 0.4 | 9.7 | 3.5 | 609 | 67 | 542 |
| MRAC0456 | MR10704 | 28 | 32 | 223.0 | 97.2 | 59.5 | 38.8 | 88.6 | 20.9 | 143.0 | 7.9 | 11.6 | 74.3 | 15.0 | 8.3 | 561.0 | 50.9 | 2063 | 1243 | 820 |
| MRAC0456 | MR10705 | 32 | 36 | 108.0 | 99.9 | 56.3 | 45.2 | 110.0 | 21.5 | 216.0 | 6.4 | 8.8 | 95.9 | 16.8 | 7.3 | 577.0 | 41.6 | 2200 | 1309 | 891 |
| MRAC0456 | MR10706 | 36 | 37 | 55.2 | 29.5 | 16.6 | 14.1 | 31.2 | 6.1 | 61.2 | 2.3 | 6.1 | 28.5 | 4.9 | 2.3 | 141.0 | 14.3 | 640 | 352 | 288 |
| MRAC0456 | MR10707 | 37 | 38 | 62.4 | 33.2 | 18.7 | 15.9 | 35.4 | 7.0 | 71.2 | 2.5 | 6.0 | 32.3 | 5.6 | 2.6 | 163.0 | 16.1 | 733 | 401 | 332 |
| MRAC0458 | MR10729 | 40 | 44 | 35.9 | 25.2 | 18.8 | 3.2 | 19.2 | 6.5 | 10.0 | 1.9 | 4.3 | 8.1 | 3.4 | 2.3 | 316.0 | 13.3 | 599 | 517 | 82 |
| MRAC0458 | MR10730 | 44 | 48 | 43.4 | 91.2 | 58.6 | 16.9 | 74.6 | 20.6 | 74.3 | 7.0 | 4.2 | 49.9 | 13.0 | 7.9 | 676.0 | 49.3 | 1666 | 1306 | 360 |

MOUNT RIDLEY MINES

**Table 10**
**Anomalous Sample Analyses: TREO>300ppm**

| Hole ID | Sample | From | To | Ce | Dy | Er | Eu | Gd | Ho | La | Lu | Nb | Sm | Tb | Tm | Y | Yb | TREO | HREO | LREO |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | (m) | (m) | (ppm) | (ppm) | (ppm) | (ppm) | (ppm) | (ppm) | (ppm) | (ppm) | (ppm) | (ppm) | (ppm) | (ppm) | (ppm) | (ppm) | (ppm) | (ppm) | (ppm) |
| MRAC0458 | MR10731 | 48 | 52 | 16.8 | 41.9 | 25.4 | 10.7 | 36.3 | 9.0 | 63.0 | 3.2 | 5.0 | 29.2 | 6.3 | 3.5 | 259.0 | 21.3 | 798 | 543 | 255 |
| MRAC0459 | MR10745 | 44 | 45 | 107.5 | 237.0 | 131.0 | 78.7 | 261.0 | 49.2 | 489.0 | 15.5 | 4.9 | 212.0 | 38.9 | 17.6 | 1500.0 | 99.7 | 5095 | 3218 | 1877 |
| MRAC0459 | MR10746 | 45 | 46 | 85.5 | 175.0 | 99.2 | 50.9 | 209.0 | 37.0 | 379.0 | 10.3 | 3.9 | 150.5 | 29.5 | 12.5 | 1285.0 | 71.3 | 3963 | 2604 | 1359 |
| MRAC0460 | MR10747 | 0 | 4 | 20.7 | 18.2 | 10.6 | 5.6 | 20.0 | 3.8 | 42.7 | 1.1 | 5.6 | 15.2 | 3.0 | 1.3 | 128.0 | 7.1 | 426 | 260 | 166 |
| MRAC0460 | MR10749 | 8 | 12 | 31.2 | 13.1 | 7.3 | 4.0 | 14.1 | 2.7 | 36.6 | 0.7 | 5.1 | 11.0 | 2.2 | 1.0 | 87.3 | 5.1 | 332 | 182 | 150 |
| MRAC0460 | MR10752 | 20 | 22 | 144.5 | 39.0 | 22.8 | 14.2 | 37.8 | 7.9 | 64.2 | 2.9 | 10.6 | 31.4 | 6.1 | 3.2 | 203.0 | 19.9 | 890 | 471 | 419 |
| MRAC0461 | MR10763 | 36 | 40 | 235.0 | 17.1 | 10.1 | 7.0 | 19.9 | 3.6 | 126.0 | 1.3 | 7.1 | 22.5 | 3.0 | 1.4 | 94.3 | 8.4 | 821 | 229 | 592 |
| MRAC0463 | MR10788 | 32 | 34 | 145.0 | 47.8 | 27.6 | 15.2 | 48.5 | 9.4 | 120.0 | 4.6 | 3.2 | 55.4 | 8.2 | 4.3 | 204.0 | 29.4 | 1163 | 548 | 615 |
| MRAC0463 | MR10789 | 34 | 35 | 89.8 | 30.9 | 18.7 | 9.4 | 30.6 | 6.1 | 75.4 | 3.3 | 2.9 | 32.9 | 5.1 | 3.0 | 143.5 | 20.5 | 741 | 365 | 376 |
| MRAC0467 | MR10834 | 44 | 48 | 174.5 | 59.1 | 40.3 | 12.0 | 48.2 | 13.2 | 87.6 | 5.0 | 13.2 | 32.7 | 8.9 | 5.5 | 376.0 | 32.8 | 1237 | 773 | 464 |
| MRAC0467 | MR10835 | 48 | 52 | 54.7 | 20.2 | 13.9 | 4.2 | 16.1 | 4.6 | 25.6 | 1.8 | 3.0 | 11.4 | 3.1 | 1.9 | 131.5 | 11.4 | 413 | 268 | 145 |
| MRAC0470 | MR10858 | 16 | 17 | 110.5 | 8.0 | 5.0 | 3.4 | 7.5 | 1.6 | 29.1 | 0.8 | 7.0 | 7.7 | 1.3 | 0.8 | 35.0 | 5.3 | 303 | 93 | 210 |
| MRAC0470 | MR10859 | 17 | 18 | 643.0 | 37.3 | 17.6 | 19.9 | 45.1 | 6.8 | 149.5 | 1.9 | 7.6 | 47.7 | 6.7 | 2.3 | 159.0 | 14.0 | 1663 | 432 | 1231 |
| MRAC0471 | MR10867 | 28 | 32 | 119.5 | 8.3 | 4.7 | 3.4 | 8.8 | 1.6 | 32.4 | 0.6 | 16.7 | 9.5 | 1.4 | 0.6 | 37.7 | 4.1 | 335 | 98 | 237 |
| MRAC0471 | MR10868 | 32 | 36 | 108.5 | 53.0 | 31.5 | 17.8 | 53.9 | 11.0 | 94.9 | 3.7 | 16.5 | 43.9 | 8.5 | 4.3 | 317.0 | 25.1 | 1182 | 694 | 488 |
| MRAC0471 | MR10869 | 36 | 39 | 199.5 | 115.5 | 67.8 | 37.0 | 120.0 | 24.6 | 208.0 | 7.5 | 9.2 | 88.9 | 18.8 | 8.7 | 754.0 | 48.5 | 2564 | 1575 | 989 |
| MRAC0472 | MR10880 | 36 | 40 | 132.5 | 23.0 | 12.8 | 8.7 | 26.9 | 4.6 | 94.1 | 1.6 | 7.3 | 25.2 | 4.0 | 1.7 | 136.0 | 10.0 | 731 | 309 | 422 |
| MRAC0472 | MR10881 | 40 | 41 | 106.0 | 22.0 | 12.7 | 7.8 | 25.4 | 4.6 | 77.8 | 1.6 | 4.5 | 22.6 | 3.8 | 1.7 | 139.5 | 9.9 | 653 | 304 | 349 |
| MRAC0473 | MR10892 | 36 | 40 | 169.0 | 32.0 | 16.8 | 16.0 | 35.1 | 5.9 | 93.1 | 2.2 | 8.1 | 38.7 | 5.5 | 2.3 | 133.5 | 14.5 | 878 | 363 | 515 |
| MRAC0473 | MR10893 | 40 | 44 | 111.0 | 32.1 | 20.0 | 10.4 | 32.0 | 7.1 | 69.9 | 2.7 | 5.0 | 23.9 | 5.0 | 2.8 | 195.0 | 17.1 | 758 | 424 | 334 |
| MRAC0474 | MR10904 | 32 | 36 | 119.5 | 7.5 | 4.8 | 3.2 | 8.6 | 1.5 | 52.6 | 0.9 | 51.6 | 10.2 | 1.3 | 0.7 | 42.0 | 5.1 | 382 | 105 | 277 |
| MRAC0474 | MR10905 | 36 | 40 | 137.5 | 55.7 | 35.8 | 19.1 | 57.7 | 12.1 | 86.9 | 4.6 | 12.9 | 42.4 | 9.1 | 4.9 | 364.0 | 28.7 | 1252 | 774 | 478 |
| MRAC0474 | MR10906 | 40 | 44 | 114.5 | 45.9 | 33.4 | 11.7 | 45.7 | 11.2 | 141.5 | 3.9 | 8.7 | 30.7 | 7.0 | 4.2 | 493.0 | 22.9 | 1375 | 875 | 500 |
| MRAC0474 | MR10907 | 44 | 48 | 38.5 | 23.8 | 16.4 | 5.6 | 22.0 | 5.5 | 53.8 | 1.9 | 5.0 | 15.9 | 3.6 | 2.2 | 236.0 | 12.1 | 621 | 424 | 197 |
| MRAC0474 | MR10908 | 48 | 50 | 56.9 | 21.8 | 14.8 | 6.2 | 21.0 | 5.1 | 45.7 | 1.8 | 4.3 | 17.7 | 3.4 | 1.9 | 210.0 | 10.8 | 606 | 387 | 219 |
| MRAC0475 | MR10919 | 36 | 40 | 124.5 | 44.8 | 23.9 | 20.2 | 59.7 | 9.0 | 206.0 | 2.4 | 7.1 | 56.1 | 8.2 | 2.9 | 294.0 | 15.1 | 1404 | 651 | 753 |
| MRAC0475 | MR10920 | 40 | 41 | 50.7 | 10.7 | 6.1 | 4.0 | 14.1 | 2.3 | 55.0 | 0.6 | 4.0 | 10.9 | 1.9 | 0.8 | 84.4 | 4.0 | 367 | 172 | 195 |
| MRAC0475 | MR10921 | 41 | 42 | 102.5 | 9.1 | 5.3 | 3.9 | 12.9 | 2.0 | 73.8 | 0.6 | 4.8 | 12.4 | 1.7 | 0.7 | 71.3 | 3.7 | 452 | 151 | 301 |
| MRAC0476 | MR10923 | 0 | 4 | 65.5 | 39.4 | 18.0 | 19.7 | 58.4 | 7.3 | 232.0 | 1.5 | 7.7 | 53.3 | 7.5 | 2.1 | 241.0 | 10.3 | 1258 | 557 | 701 |
| MRAC0476 | MR10924 | 4 | 8 | 69.4 | 7.0 | 2.1 | 6.3 | 12.3 | 1.0 | 97.7 | 0.2 | 23.7 | 18.6 | 1.6 | 0.2 | 17.4 | 1.3 | 413 | 79 | 334 |
| MRAC0476 | MR10926 | 12 | 16 | 132.0 | 6.4 | 4.2 | 2.5 | 6.3 | 1.3 | 29.0 | 0.8 | 21.4 | 8.2 | 1.1 | 0.7 | 25.4 | 5.0 | 316 | 74 | 242 |
| MRAC0476 | MR10927 | 16 | 20 | 437.0 | 11.7 | 5.8 | 6.1 | 15.3 | 2.1 | 66.9 | 0.9 | 18.2 | 19.9 | 2.3 | 0.8 | 43.4 | 5.4 | 853 | 136 | 717 |
| MRAC0476 | MR10928 | 20 | 24 | 159.5 | 69.9 | 46.0 | 17.8 | 59.5 | 15.5 | 59.5 | 6.1 | 10.2 | 38.1 | 10.6 | 6.5 | 407.0 | 39.6 | 1290 | 873 | 417 |
| MRAC0476 | MR10929 | 24 | 26 | 68.4 | 24.1 | 16.0 | 7.4 | 21.4 | 5.3 | 32.1 | 2.2 | 3.7 | 14.6 | 3.8 | 2.2 | 140.0 | 14.2 | 494 | 307 | 187 |
| MRAC0476 | MR10930 | 26 | 27 | 104.0 | 35.1 | 21.8 | 10.7 | 30.1 | 7.5 | 48.3 | 2.9 | 4.3 | 22.6 | 5.3 | 3.1 | 196.5 | 21.1 | 726 | 433 | 293 |
| MRAC0521 | MR12334 | 32 | 33 | 39.2 | 14.2 | 7.8 | 3.8 | 14.2 | 2.8 | 42.2 | 0.9 | 4.8 | 11.7 | 2.1 | 1.1 | 89.3 | 6.9 | 356 | 188 | 168 |
| MRAC0522 | MR12341 | 20 | 21 | 61.4 | 9.2 | 4.8 | 3.4 | 10.1 | 1.8 | 37.2 | 0.6 | 4.4 | 10.5 | 1.5 | 0.7 | 45.2 | 4.4 | 301 | 113 | 188 |
| MRAC0523 | MR12350 | 24 | 28 | 120.0 | 22.3 | 12.5 | 8.7 | 24.0 | 4.4 | 77.3 | 1.4 | 7.0 | 24.3 | 3.6 | 1.6 | 137.5 | 10.2 | 696 | 306 | 390 |

| Table 10<br>Anomalous Sample Analyses: TREO>300ppm | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Hole ID** | **Sample** | **From** | **To** | **Ce** | **Dy** | **Er** | **Eu** | **Gd** | **Ho** | **La** | **Lu** | **Nb** | **Sm** | **Tb** | **Tm** | **Y** | **Yb** | **TREO** | **HREO** | **LREO** |
| | | **(m)** | **(m)** | **(ppm)** | **(ppm)** | **(ppm)** | **(ppm)** | **(ppm)** | **(ppm)** | **(ppm)** | **(ppm)** | **(ppm)** | **(ppm)** | **(ppm)** | **(ppm)** | **(ppm)** | **(ppm)** | **(ppm)** | **(ppm)** | **(ppm)** |
| MRAC0524 | MR12407 | 16 | 20 | 71.6 | 4.6 | 1.9 | 3.8 | 6.9 | 0.8 | 106.0 | 0.2 | 11.8 | 12.0 | 0.9 | 0.3 | 13.9 | 1.7 | 379 | 55 | 324 |
| MRAC0524 | MR12410 | 28 | 32 | 97.8 | 8.4 | 3.8 | 7.4 | 10.7 | 1.5 | 55.7 | 0.5 | 20.8 | 11.9 | 1.5 | 0.5 | 33.4 | 3.1 | 364 | 101 | 263 |
| MRAC0526 | MR12428 | 24 | 26 | 124.0 | 11.3 | 6.1 | 5.2 | 12.0 | 2.3 | 58.6 | 0.8 | 12.4 | 11.9 | 1.9 | 0.8 | 63.9 | 5.4 | 446 | 148 | 298 |
| MRAC0526 | MR12429 | 26 | 27 | 104.5 | 8.8 | 4.7 | 4.2 | 9.2 | 1.7 | 47.4 | 0.6 | 15.0 | 9.7 | 1.5 | 0.6 | 45.2 | 4.0 | 356 | 110 | 246 |
| MRAC0527 | MR12433 | 12 | 16 | 176.0 | 19.5 | 10.3 | 9.8 | 21.6 | 3.8 | 54.9 | 1.5 | 11.4 | 24.6 | 3.2 | 1.5 | 79.1 | 9.8 | 632 | 222 | 410 |
| MRAC0527 | MR12434 | 16 | 20 | 108.0 | 20.0 | 13.4 | 9.3 | 19.7 | 4.5 | 47.4 | 2.3 | 22.7 | 18.0 | 3.1 | 2.0 | 138.0 | 13.2 | 584 | 297 | 287 |
| MRAC0527 | MR12435 | 20 | 24 | 64.2 | 11.2 | 7.9 | 4.9 | 11.1 | 2.5 | 29.9 | 1.2 | 12.3 | 9.6 | 1.7 | 1.2 | 70.4 | 7.4 | 324 | 156 | 168 |
| MRAC0528 | MR12444 | 16 | 20 | 56.0 | 16.2 | 11.4 | 4.1 | 15.1 | 3.8 | 22.4 | 1.4 | 12.1 | 11.4 | 2.4 | 1.5 | 141.5 | 8.8 | 419 | 268 | 151 |
| MRAC0528 | MR12445 | 20 | 24 | 106.0 | 28.3 | 17.1 | 8.3 | 29.6 | 6.2 | 54.0 | 2.3 | 10.7 | 21.1 | 4.3 | 2.6 | 182.5 | 14.7 | 692 | 386 | 306 |
| MRAC0529 | MR12452 | 16 | 20 | 74.9 | 9.8 | 5.3 | 4.0 | 11.5 | 1.9 | 50.0 | 0.8 | 5.6 | 14.9 | 1.7 | 0.8 | 46.0 | 5.0 | 368 | 122 | 246 |
| MRAC0529 | MR12453 | 20 | 21 | 99.3 | 26.3 | 12.9 | 11.6 | 33.3 | 4.9 | 167.5 | 1.6 | 3.9 | 44.1 | 4.8 | 1.9 | 124.0 | 11.0 | 938 | 332 | 606 |
| MRAC0532 | MR12475 | 20 | 24 | 91.0 | 17.1 | 10.0 | 4.9 | 17.4 | 3.7 | 44.4 | 1.3 | 6.6 | 15.2 | 2.8 | 1.5 | 104.5 | 8.6 | 471 | 228 | 243 |
| MRAC0538 | MR12502 | 11 | 12 | 141.5 | 13.4 | 6.0 | 6.7 | 16.5 | 2.2 | 86.7 | 0.7 | 9.2 | 19.0 | 2.4 | 0.7 | 57.7 | 4.8 | 552 | 156 | 396 |
| MRAC0539 | MR12508 | 16 | 20 | 44.8 | 19.0 | 13.1 | 4.8 | 18.1 | 4.0 | 55.8 | 1.8 | 2.5 | 11.1 | 2.7 | 1.8 | 155.5 | 11.2 | 482 | 299 | 183 |
| MRAC0540 | MR12518 | 24 | 28 | 107.5 | 21.5 | 11.5 | 7.3 | 24.2 | 3.8 | 79.0 | 1.1 | 5.1 | 22.9 | 3.4 | 1.4 | 100.5 | 8.9 | 614 | 250 | 364 |
| MRAC0540 | MR12519 | 28 | 32 | 94.8 | 10.9 | 8.1 | 2.7 | 11.4 | 2.3 | 60.6 | 0.9 | 3.7 | 8.9 | 1.4 | 1.0 | 83.4 | 6.1 | 422 | 167 | 255 |
| MRAC0540 | MR12520 | 32 | 36 | 67.9 | 11.5 | 9.3 | 2.0 | 10.2 | 2.7 | 43.8 | 1.2 | 6.5 | 6.5 | 1.4 | 1.3 | 113.5 | 8.5 | 387 | 206 | 181 |
| MRAC0541 | MR12527 | 16 | 20 | 70.6 | 23.7 | 15.3 | 6.9 | 23.7 | 5.0 | 64.9 | 1.6 | 5.9 | 16.3 | 3.4 | 2.0 | 178.5 | 10.9 | 615 | 351 | 264 |
| MRAC0542 | MR12534 | 8 | 12 | 233.0 | 79.6 | 40.8 | 29.8 | 85.9 | 13.8 | 184.0 | 4.8 | 5.4 | 80.0 | 12.2 | 5.4 | 287.0 | 37.5 | 1763 | 813 | 950 |
| MRAC0542 | MR12537 | 20 | 21 | 44.3 | 10.6 | 7.4 | 2.6 | 10.8 | 2.3 | 31.8 | 0.8 | 4.1 | 7.0 | 1.5 | 0.9 | 105.5 | 5.6 | 321 | 190 | 131 |
| MRAC0543 | MR12542 | 12 | 16 | 79.0 | 9.2 | 5.2 | 3.3 | 9.8 | 1.7 | 32.0 | 0.6 | 8.7 | 10.2 | 1.5 | 0.7 | 39.2 | 4.9 | 301 | 106 | 195 |
| MRAC0544 | MR12550 | 16 | 20 | 63.5 | 14.2 | 8.1 | 4.9 | 14.8 | 2.6 | 42.4 | 0.8 | 14.7 | 12.3 | 2.2 | 1.1 | 67.7 | 6.9 | 367 | 164 | 203 |
| MRAC0544 | MR12551 | 20 | 24 | 85.4 | 19.0 | 11.0 | 5.8 | 17.4 | 3.5 | 45.6 | 1.3 | 6.9 | 15.2 | 2.7 | 1.5 | 85.2 | 9.9 | 453 | 210 | 243 |
| MRAC0544 | MR12552 | 24 | 28 | 42.7 | 27.7 | 13.8 | 10.2 | 31.2 | 5.0 | 83.7 | 1.4 | 4.4 | 28.4 | 4.2 | 1.8 | 137.5 | 10.8 | 646 | 331 | 315 |
| MRAC0544 | MR12553 | 28 | 32 | 44.1 | 18.0 | 12.2 | 5.1 | 19.6 | 3.8 | 63.1 | 1.2 | 5.7 | 12.2 | 2.4 | 1.5 | 178.0 | 7.8 | 528 | 323 | 205 |
| MRAC0545 | MR12559 | 11 | 12 | 85.0 | 14.5 | 7.8 | 4.1 | 14.5 | 2.5 | 38.8 | 1.0 | 3.7 | 12.9 | 2.1 | 1.1 | 62.5 | 7.3 | 377 | 157 | 220 |
| MRAC0551 | MR12576 | 16 | 20 | 74.7 | 24.5 | 16.4 | 6.3 | 23.0 | 4.9 | 54.9 | 1.5 | 4.2 | 22.4 | 3.4 | 2.0 | 197.5 | 11.3 | 658 | 385 | 273 |
| MRAC0551 | MR12577 | 20 | 24 | 60.8 | 24.5 | 15.5 | 5.3 | 22.6 | 4.8 | 48.9 | 1.8 | 3.0 | 17.1 | 3.3 | 2.1 | 167.0 | 12.8 | 561 | 338 | 223 |
| MRAC0551 | MR12578 | 24 | 26 | 200.0 | 45.8 | 22.9 | 15.4 | 53.5 | 7.8 | 133.5 | 2.3 | 2.6 | 52.5 | 7.2 | 3.0 | 218.0 | 18.9 | 1234 | 541 | 693 |
| MRAC0551 | MR12579 | 26 | 27 | 68.7 | 32.9 | 22.2 | 5.9 | 29.3 | 6.8 | 55.4 | 2.8 | 2.0 | 17.2 | 4.4 | 3.1 | 231.0 | 19.5 | 696 | 459 | 237 |
| MRAC0554 | MR12593 | 20 | 24 | 469.0 | 34.9 | 16.0 | 14.2 | 40.4 | 6.2 | 305.0 | 1.7 | 15.7 | 48.2 | 6.2 | 2.1 | 131.0 | 12.5 | 1659 | 375 | 1284 |
| MRAC0554 | MR12594 | 24 | 25 | 101.5 | 7.9 | 3.9 | 2.9 | 8.7 | 1.5 | 42.4 | 0.5 | 7.5 | 8.9 | 1.4 | 0.5 | 36.1 | 3.2 | 330 | 92 | 238 |
| MRAC0556 | MR12610 | 12 | 16 | 63.0 | 39.7 | 29.6 | 5.9 | 26.2 | 8.5 | 29.9 | 3.6 | 16.3 | 16.6 | 4.8 | 4.0 | 281.0 | 26.4 | 728 | 548 | 180 |
| MRAC0556 | MR12611 | 16 | 20 | 172.5 | 30.6 | 16.7 | 8.7 | 33.2 | 5.6 | 76.5 | 1.9 | 7.3 | 29.4 | 4.6 | 2.2 | 158.5 | 14.1 | 818 | 368 | 450 |
| MRAC0556 | MR12612 | 20 | 21 | 156.5 | 18.5 | 9.8 | 5.2 | 20.0 | 3.1 | 63.6 | 1.2 | 5.9 | 20.4 | 2.9 | 1.3 | 80.5 | 8.4 | 590 | 206 | 384 |
| MRAC0557 | MR12617 | 11 | 12 | 125.0 | 5.0 | 2.7 | 2.8 | 6.3 | 1.1 | 42.5 | 0.3 | 7.2 | 7.7 | 0.9 | 0.4 | 26.0 | 2.1 | 323 | 65 | 258 |
| MRAC0559 | MR12624 | 8 | 11 | 74.0 | 14.7 | 9.0 | 6.1 | 14.0 | 3.1 | 40.2 | 1.3 | 13.1 | 12.4 | 2.3 | 1.3 | 81.4 | 8.5 | 395 | 186 | 209 |
| MRAC0559 | MR12625 | 11 | 12 | 66.8 | 12.5 | 7.5 | 5.3 | 12.3 | 2.6 | 36.1 | 1.1 | 14.3 | 11.2 | 2.0 | 1.1 | 63.8 | 7.1 | 339 | 152 | 187 |

**Table 10**

**Anomalous Sample Analyses: TREO>300ppm**

| Hole ID | Sample | From (m) | To (m) | Ce (ppm) | Dy (ppm) | Er (ppm) | Eu (ppm) | Gd (ppm) | Ho (ppm) | La (ppm) | Lu (ppm) | Nb (ppm) | Sm (ppm) | Tb (ppm) | Tm (ppm) | Y (ppm) | Yb (ppm) | TREO (ppm) | HREO (ppm) | LREO (ppm) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| MRAC0560 | MR12629 | 12 | 16 | 63.2 | 31.6 | 24.7 | 6.5 | 22.1 | 7.0 | 32.6 | 3.3 | 6.3 | 15.4 | 4.0 | 3.4 | 240.0 | 21.8 | 654 | 466 | 188 |
| MRAC0560 | MR12630 | 16 | 17 | 80.7 | 36.5 | 22.8 | 10.9 | 40.0 | 7.3 | 94.1 | 2.7 | 4.1 | 30.9 | 5.3 | 3.0 | 254.0 | 18.3 | 903 | 526 | 377 |
| MRAC0561 | MR12634 | 8 | 9 | 108.0 | 98.7 | 58.6 | 40.6 | 111.5 | 18.6 | 484.0 | 6.2 | 3.4 | 96.2 | 14.6 | 7.3 | 624.0 | 44.0 | 2676 | 1363 | 1313 |
| MRAC0563 | MR12652 | 28 | 32 | 103.5 | 34.7 | 21.5 | 11.9 | 33.8 | 6.7 | 73.7 | 2.5 | 5.9 | 31.0 | 5.0 | 2.7 | 207.0 | 17.9 | 834 | 457 | 377 |
| MRAC0563 | MR12653 | 32 | 34 | 62.7 | 19.8 | 12.0 | 5.5 | 18.8 | 3.7 | 45.7 | 1.4 | 4.1 | 14.4 | 2.7 | 1.5 | 121.0 | 9.8 | 469 | 258 | 211 |
| MRAC0564 | MR12663 | 32 | 36 | 182.0 | 25.8 | 13.7 | 10.5 | 30.3 | 4.6 | 110.0 | 1.4 | 3.5 | 28.1 | 4.0 | 1.7 | 141.5 | 10.4 | 856 | 332 | 524 |
| MRAC0567 | MR12690 | 32 | 36 | 56.5 | 24.6 | 12.7 | 12.0 | 29.2 | 4.1 | 98.7 | 1.4 | 9.4 | 32.0 | 3.8 | 1.5 | 114.5 | 10.5 | 680 | 298 | 382 |
| MRAC0567 | MR12691 | 36 | 40 | 63.4 | 12.2 | 7.2 | 6.2 | 12.8 | 2.6 | 43.5 | 1.0 | 11.4 | 11.5 | 1.9 | 1.0 | 81.1 | 5.9 | 373 | 174 | 199 |
| MRAC0568 | MR12698 | 16 | 20 | 133.5 | 6.0 | 3.8 | 2.3 | 5.2 | 1.2 | 67.5 | 0.6 | 10.4 | 6.6 | 0.9 | 0.6 | 21.7 | 4.2 | 357 | 65 | 292 |
| MRAC0568 | MR12699 | 20 | 24 | 65.3 | 14.3 | 8.9 | 4.9 | 13.2 | 3.1 | 13.7 | 1.3 | 6.3 | 11.2 | 2.2 | 1.3 | 70.8 | 8.4 | 317 | 171 | 146 |
| MRAC0568 | MR12702 | 32 | 36 | 80.4 | 68.7 | 35.0 | 32.3 | 90.4 | 14.2 | 421.0 | 3.6 | 8.4 | 78.0 | 11.9 | 4.4 | 507.0 | 23.9 | 2225 | 1060 | 1165 |
| MRAC0568 | MR12703 | 36 | 37 | 42.1 | 37.6 | 28.4 | 8.5 | 33.5 | 8.3 | 53.9 | 3.3 | 8.6 | 19.8 | 5.0 | 3.4 | 331.0 | 22.1 | 830 | 616 | 214 |
| MRAC0568 | MR12704 | 37 | 38 | 53.9 | 57.9 | 37.3 | 18.4 | 64.1 | 11.9 | 198.5 | 3.9 | 7.2 | 47.7 | 8.4 | 4.3 | 483.0 | 26.1 | 1539 | 935 | 604 |
| MRAC0569 | MR12708 | 12 | 13 | 163.5 | 10.6 | 4.0 | 5.8 | 13.6 | 1.6 | 95.8 | 0.4 | 5.3 | 16.9 | 1.8 | 0.5 | 35.1 | 2.7 | 544 | 113 | 431 |
| MRAC0573 | MR12722 | 16 | 20 | 73.0 | 21.2 | 10.6 | 8.8 | 27.2 | 3.7 | 50.9 | 1.1 | 14.9 | 23.2 | 3.3 | 1.3 | 95.7 | 8.4 | 519 | 245 | 274 |
| MRAC0573 | MR12723 | 20 | 24 | 107.0 | 11.2 | 6.2 | 4.5 | 12.8 | 2.0 | 51.5 | 0.7 | 11.2 | 13.1 | 1.7 | 0.8 | 51.7 | 5.3 | 405 | 133 | 272 |
| MRAC0573 | MR12724 | 24 | 28 | 76.4 | 10.5 | 5.9 | 3.0 | 10.7 | 1.8 | 37.5 | 0.7 | 7.4 | 9.5 | 1.6 | 0.7 | 57.4 | 4.8 | 323 | 129 | 194 |
| MRAC0573 | MR12725 | 28 | 29 | 97.8 | 11.0 | 5.8 | 4.3 | 12.3 | 1.9 | 45.1 | 0.8 | 16.7 | 12.6 | 1.7 | 0.8 | 55.6 | 5.0 | 384 | 137 | 247 |
| MRAC0573 | MR12726 | 29 | 30 | 96.5 | 10.9 | 5.8 | 4.6 | 12.5 | 1.9 | 43.0 | 0.7 | 17.3 | 12.3 | 1.7 | 0.7 | 52.8 | 4.9 | 375 | 131 | 244 |
| MRAC0574 | MR12732 | 20 | 24 | 109.0 | 19.1 | 10.0 | 5.4 | 20.9 | 3.3 | 76.7 | 1.2 | 8.4 | 20.6 | 2.8 | 1.3 | 84.3 | 8.7 | 560 | 213 | 347 |
| MRAC0574 | MR12733 | 24 | 26 | 92.1 | 16.2 | 11.8 | 4.2 | 15.9 | 3.4 | 54.6 | 1.4 | 7.1 | 12.1 | 2.2 | 1.4 | 130.0 | 9.2 | 507 | 255 | 252 |
| MRAC0605 | MR13055 | 36 | 40 | 157.5 | 104.5 | 55.2 | 40.2 | 136.5 | 20.7 | 505.0 | 6.1 | 9.2 | 126.5 | 17.8 | 7.2 | 680.0 | 44.6 | 3109 | 1508 | 1601 |
| MRAC0605 | MR13056 | 40 | 44 | 76.9 | 35.8 | 20.6 | 12.7 | 44.1 | 7.7 | 144.0 | 2.4 | 6.4 | 38.3 | 5.9 | 2.7 | 246.0 | 17.2 | 1031 | 529 | 502 |
| MRAC0605 | MR13057 | 44 | 47 | 45.3 | 14.0 | 8.2 | 5.0 | 16.7 | 3.0 | 52.8 | 1.0 | 4.8 | 15.1 | 2.4 | 1.1 | 95.7 | 7.1 | 410 | 205 | 205 |
| MRAC0606 | MR13068 | 36 | 40 | 73.6 | 15.1 | 8.1 | 9.1 | 17.1 | 2.5 | 49.9 | 1.0 | 9.4 | 18.9 | 2.4 | 1.0 | 55.8 | 7.3 | 423 | 166 | 257 |
| MRAC0606 | MR13069 | 40 | 44 | 71.6 | 63.7 | 34.5 | 32.5 | 71.0 | 11.6 | 200.0 | 4.1 | 8.4 | 63.1 | 9.4 | 4.4 | 340.0 | 28.1 | 1514 | 803 | 711 |
| MRAC0606 | MR13071 | 45 | 46 | 53.5 | 18.1 | 9.7 | 9.0 | 20.6 | 3.2 | 64.6 | 1.2 | 5.3 | 17.4 | 2.6 | 1.2 | 94.7 | 8.0 | 478 | 224 | 254 |
| MRAC0607 | MR13080 | 32 | 35 | 58.0 | 13.1 | 7.9 | 7.1 | 13.9 | 2.8 | 38.0 | 1.1 | 6.2 | 12.5 | 2.1 | 1.1 | 89.0 | 6.7 | 382 | 190 | 192 |
| MRAC0608 | MR13089 | 28 | 32 | 161.5 | 9.0 | 4.9 | 2.9 | 11.7 | 1.6 | 52.7 | 0.5 | 12.3 | 13.4 | 1.5 | 0.7 | 47.0 | 3.9 | 471 | 118 | 353 |
| MRAC0608 | MR13091 | 36 | 40 | 132.0 | 12.8 | 6.6 | 6.5 | 14.2 | 2.1 | 75.7 | 0.9 | 23.3 | 17.4 | 2.0 | 0.9 | 48.3 | 6.8 | 496 | 142 | 354 |
| MRAC0608 | MR13092 | 40 | 41 | 100.5 | 51.8 | 30.2 | 18.7 | 55.9 | 9.6 | 170.5 | 3.4 | 11.1 | 48.8 | 7.6 | 3.6 | 312.0 | 23.8 | 1300 | 688 | 612 |
| MRAC0608 | MR13093 | 41 | 42 | 81.0 | 43.4 | 26.1 | 15.4 | 47.2 | 8.3 | 144.0 | 3.1 | 9.6 | 40.0 | 6.3 | 3.2 | 276.0 | 21.5 | 1104 | 596 | 508 |
| MRAC0609 | MR13100 | 24 | 28 | 126.0 | 8.1 | 3.1 | 3.4 | 12.1 | 1.1 | 66.7 | 0.3 | 19.9 | 14.4 | 1.5 | 0.3 | 26.7 | 2.3 | 423 | 88 | 335 |
| MRAC0609 | MR13101 | 28 | 32 | 147.5 | 8.9 | 2.9 | 4.2 | 13.9 | 1.1 | 68.5 | 0.3 | 25.6 | 20.4 | 1.7 | 0.3 | 18.2 | 2.0 | 471 | 86 | 385 |
| MRAC0609 | MR13103 | 36 | 40 | 148.0 | 67.3 | 45.9 | 11.1 | 47.5 | 15.4 | 90.8 | 6.6 | 24.5 | 36.3 | 9.3 | 6.8 | 412.0 | 45.9 | 1325 | 859 | 466 |
| MRAC0609 | MR13104 | 40 | 44 | 148.0 | 76.8 | 50.1 | 14.2 | 69.2 | 17.5 | 90.4 | 6.2 | 19.1 | 47.9 | 11.2 | 6.8 | 513.0 | 41.3 | 1566 | 1043 | 523 |
| MRAC0609 | MR13105 | 44 | 45 | 74.8 | 14.8 | 9.0 | 3.6 | 13.8 | 3.1 | 33.4 | 1.2 | 14.6 | 11.7 | 2.2 | 1.3 | 89.5 | 7.8 | 387 | 193 | 194 |
| MRAC0609 | MR13106 | 45 | 46 | 82.3 | 14.3 | 8.5 | 3.7 | 14.3 | 3.0 | 37.1 | 1.2 | 15.3 | 12.3 | 2.3 | 1.2 | 88.2 | 7.3 | 402 | 188 | 214 |

**Table 10**
**Anomalous Sample Analyses: TREO>300ppm**

| Hole ID | Sample | From | To | Ce | Dy | Er | Eu | Gd | Ho | La | Lu | Nb | Sm | Tb | Tm | Y | Yb | TREO | HREO | LREO |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | (m) | (m) | (ppm) | (ppm) | (ppm) | (ppm) | (ppm) | (ppm) | (ppm) | (ppm) | (ppm) | (ppm) | (ppm) | (ppm) | (ppm) | (ppm) | (ppm) | (ppm) | (ppm) |
| MRAC0611 | MR13114 | 20 | 24 | 108.0 | 8.7 | 3.8 | 4.3 | 11.8 | 1.5 | 73.7 | 0.6 | 27.8 | 18.4 | 1.6 | 0.6 | 25.8 | 3.8 | 441 | 97 | 344 |
| MRAC0611 | MR13115 | 24 | 28 | 78.9 | 8.0 | 4.5 | 3.0 | 9.2 | 1.6 | 34.6 | 0.7 | 28.9 | 11.7 | 1.4 | 0.7 | 35.2 | 4.6 | 302 | 98 | 204 |
| MRAC0611 | MR13116 | 28 | 32 | 188.0 | 21.9 | 8.5 | 11.6 | 35.5 | 3.4 | 92.4 | 1.2 | 32.3 | 42.9 | 4.5 | 1.2 | 66.8 | 7.8 | 805 | 244 | 561 |
| MRAC0611 | MR13117 | 32 | 36 | 180.5 | 32.8 | 11.3 | 16.0 | 52.5 | 4.9 | 111.5 | 1.3 | 31.4 | 57.4 | 6.8 | 1.4 | 86.6 | 8.9 | 970 | 335 | 635 |
| MRAC0611 | MR13118 | 36 | 39 | 131.0 | 33.0 | 19.9 | 8.2 | 33.6 | 7.0 | 67.1 | 2.9 | 28.5 | 28.0 | 5.3 | 2.9 | 189.5 | 18.9 | 805 | 423 | 382 |
| MRAC0611 | MR13119 | 39 | 40 | 128.0 | 41.9 | 27.8 | 8.4 | 37.5 | 9.6 | 62.0 | 4.0 | 23.4 | 28.6 | 6.3 | 4.0 | 265.0 | 25.7 | 931 | 559 | 372 |
| MRAC0603B | MR13126 | 24 | 28 | 107.5 | 30.0 | 20.6 | 8.5 | 28.7 | 6.9 | 97.4 | 3.2 | 7.0 | 25.7 | 4.5 | 3.0 | 240.0 | 19.1 | 882 | 478 | 404 |
| MRAC0603B | MR13127 | 28 | 29 | 117.0 | 22.3 | 12.1 | 6.0 | 22.1 | 4.6 | 43.9 | 1.4 | 5.0 | 16.8 | 3.5 | 1.6 | 135.5 | 9.7 | 570 | 287 | 283 |
| MRAC0603B | MR13128 | 29 | 30 | 72.2 | 15.4 | 9.3 | 4.1 | 14.4 | 3.3 | 29.7 | 1.1 | 4.6 | 10.6 | 2.3 | 1.2 | 100.5 | 7.5 | 390 | 209 | 181 |
| MRAC0604 | MR13135 | 24 | 28 | 135.0 | 19.1 | 10.3 | 6.3 | 21.4 | 3.8 | 97.4 | 1.2 | 21.4 | 20.3 | 3.1 | 1.4 | 98.9 | 8.2 | 647 | 236 | 411 |
| MRAC0604 | MR13136 | 28 | 32 | 87.7 | 22.2 | 10.5 | 7.5 | 26.1 | 4.2 | 49.2 | 1.2 | 4.6 | 22.5 | 3.9 | 1.4 | 94.2 | 8.3 | 534 | 244 | 290 |
| MRAC0604 | MR13137 | 32 | 36 | 62.4 | 16.9 | 9.2 | 4.9 | 18.3 | 3.4 | 31.6 | 1.1 | 4.4 | 14.3 | 2.9 | 1.2 | 91.0 | 7.2 | 399 | 207 | 192 |
| MRAC0612 | MR13146 | 24 | 28 | 108.0 | 4.4 | 2.6 | 1.3 | 4.9 | 0.8 | 58.0 | 0.3 | 21.7 | 5.9 | 0.7 | 0.4 | 24.2 | 2.4 | 308 | 59 | 249 |
| MRAC0612 | MR13147 | 28 | 32 | 108.5 | 6.4 | 4.0 | 1.9 | 7.3 | 1.3 | 40.5 | 0.6 | 13.1 | 8.5 | 1.1 | 0.6 | 41.7 | 3.7 | 338 | 94 | 244 |
| MRAC0612 | MR13148 | 32 | 36 | 59.8 | 37.6 | 21.8 | 10.8 | 34.2 | 7.7 | 51.7 | 2.8 | 9.1 | 30.4 | 5.9 | 3.0 | 189.0 | 19.1 | 710 | 438 | 272 |
| MRAC0612 | MR13149 | 36 | 40 | 70.2 | 24.7 | 15.0 | 6.5 | 21.9 | 5.2 | 33.5 | 1.9 | 7.7 | 18.3 | 3.9 | 2.1 | 135.5 | 12.7 | 507 | 299 | 208 |
| MRAC0612 | MR13150 | 40 | 44 | 80.0 | 46.1 | 26.1 | 14.2 | 54.1 | 10.1 | 119.5 | 2.5 | 10.0 | 39.4 | 7.7 | 3.1 | 342.0 | 16.7 | 1156 | 688 | 468 |
| MRAC0612 | MR13151 | 44 | 45 | 55.0 | 23.2 | 14.5 | 5.6 | 23.1 | 5.3 | 45.1 | 1.6 | 8.2 | 15.6 | 3.5 | 1.9 | 198.0 | 10.5 | 574 | 372 | 202 |
| MRAC0613 | MR13160 | 28 | 32 | 103.5 | 5.2 | 2.9 | 1.6 | 5.8 | 1.0 | 51.9 | 0.4 | 16.5 | 7.5 | 0.8 | 0.4 | 32.0 | 2.7 | 317 | 73 | 244 |
| MRAC0613 | MR13163 | 40 | 44 | 74.5 | 11.7 | 7.1 | 4.4 | 11.9 | 2.4 | 31.7 | 1.0 | 11.2 | 11.4 | 1.8 | 1.0 | 56.4 | 6.6 | 332 | 140 | 192 |
| MRAC0613 | MR13166 | 51 | 52 | 64.2 | 10.7 | 6.5 | 3.2 | 10.7 | 2.3 | 28.0 | 0.9 | 11.9 | 9.7 | 1.7 | 0.9 | 71.1 | 6.0 | 315 | 150 | 165 |
| MRAC0615 | MR13179 | 24 | 28 | 118.0 | 5.0 | 3.2 | 1.6 | 5.8 | 1.0 | 64.3 | 0.5 | 19.1 | 7.2 | 0.8 | 0.5 | 32.4 | 3.1 | 351 | 76 | 275 |
| MRAC0615 | MR13183 | 40 | 44 | 71.0 | 28.3 | 16.1 | 8.7 | 25.8 | 5.7 | 72.6 | 2.2 | 5.1 | 27.5 | 4.5 | 2.3 | 127.0 | 15.2 | 641 | 316 | 325 |
| MRAC0617 | MR13197 | 24 | 28 | 178.5 | 43.8 | 26.6 | 14.0 | 42.3 | 9.2 | 122.0 | 3.8 | 7.1 | 54.1 | 6.9 | 3.9 | 242.0 | 25.6 | 1254 | 571 | 683 |
| MRAC0617 | MR13198 | 28 | 32 | 242.0 | 97.7 | 55.6 | 26.1 | 100.0 | 20.5 | 314.0 | 6.5 | 25.5 | 92.9 | 15.5 | 7.3 | 609.0 | 43.2 | 2531 | 1307 | 1224 |
| MRAC0617 | MR13199 | 32 | 36 | 144.0 | 22.3 | 12.1 | 7.4 | 26.0 | 4.5 | 124.5 | 1.5 | 5.3 | 27.6 | 3.8 | 1.6 | 123.0 | 10.2 | 800 | 292 | 508 |
| MRAC0617 | MR13202 | 44 | 45 | 147.5 | 22.5 | 12.2 | 7.7 | 27.7 | 4.3 | 126.0 | 1.4 | 6.2 | 30.2 | 4.0 | 1.6 | 121.0 | 10.4 | 825 | 296 | 529 |
| MRAC0618 | MR13208 | 16 | 20 | 104.0 | 12.2 | 5.7 | 6.3 | 15.3 | 2.0 | 79.0 | 0.8 | 15.2 | 19.2 | 2.2 | 0.8 | 39.5 | 5.7 | 474 | 131 | 343 |
| MRAC0618 | MR13209 | 20 | 24 | 128.0 | 21.1 | 10.7 | 8.4 | 25.2 | 3.8 | 63.9 | 1.4 | 9.9 | 24.5 | 3.7 | 1.4 | 91.8 | 9.4 | 614 | 243 | 371 |
| MRAC0618 | MR13210 | 24 | 28 | 75.4 | 13.9 | 8.3 | 4.2 | 13.7 | 2.9 | 34.9 | 1.2 | 7.4 | 12.4 | 2.2 | 1.2 | 78.0 | 7.3 | 375 | 175 | 200 |
| MRAC0620 | MR13222 | 12 | 13 | 205.0 | 22.2 | 11.4 | 9.5 | 26.1 | 4.0 | 90.0 | 1.4 | 9.7 | 28.6 | 3.9 | 1.5 | 100.5 | 9.6 | 793 | 265 | 528 |
| MRAC0622 | MR13231 | 12 | 16 | 91.4 | 17.7 | 9.2 | 11.1 | 24.5 | 3.2 | 71.7 | 1.1 | 15.0 | 26.2 | 3.4 | 1.2 | 84.2 | 7.9 | 588 | 227 | 361 |
| MRAC0622 | MR13232 | 16 | 18 | 287.0 | 40.3 | 18.6 | 25.1 | 57.4 | 6.9 | 126.0 | 2.1 | 17.0 | 62.8 | 7.7 | 2.3 | 178.0 | 15.0 | 1361 | 500 | 861 |
| MRAC0622 | MR13233 | 18 | 19 | 291.0 | 40.6 | 18.6 | 25.8 | 58.7 | 6.9 | 126.5 | 2.0 | 18.0 | 64.9 | 7.8 | 2.3 | 174.5 | 15.0 | 1376 | 502 | 874 |
| MRAC0623 | MR13237 | 12 | 14 | 71.8 | 24.0 | 16.3 | 6.3 | 18.2 | 5.5 | 34.7 | 2.3 | 13.4 | 15.8 | 3.4 | 2.3 | 163.0 | 15.1 | 539 | 333 | 206 |
| MRAC0623 | MR13238 | 14 | 15 | 119.0 | 29.2 | 18.2 | 9.1 | 24.6 | 6.4 | 55.9 | 2.4 | 12.4 | 23.7 | 4.3 | 2.6 | 176.5 | 16.0 | 719 | 381 | 338 |
| MRAC0624 | MR13242 | 12 | 16 | 98.6 | 14.9 | 8.1 | 5.8 | 16.8 | 3.0 | 76.3 | 0.9 | 5.9 | 14.9 | 2.4 | 1.0 | 130.5 | 6.1 | 558 | 250 | 308 |
| MRAC0624 | MR13243 | 16 | 17 | 165.5 | 23.1 | 11.9 | 10.1 | 26.7 | 4.6 | 122.0 | 1.4 | 8.0 | 25.8 | 4.0 | 1.6 | 140.5 | 9.8 | 830 | 317 | 513 |

MOUNT RIDLEY MINES

**Table 10**
**Anomalous Sample Analyses: TREO>300ppm**

| Hole ID | Sample | From | To | Ce | Dy | Er | Eu | Gd | Ho | La | Lu | Nb | Sm | Tb | Tm | Y | Yb | TREO | HREO | LREO |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | (m) | (m) | (ppm) | (ppm) | (ppm) | (ppm) | (ppm) | (ppm) | (ppm) | (ppm) | (ppm) | (ppm) | (ppm) | (ppm) | (ppm) | (ppm) | (ppm) | (ppm) | (ppm) |
| MRAC0628 | MR13267 | 20 | 24 | 105.0 | 16.2 | 8.6 | 8.8 | 18.4 | 3.2 | 84.7 | 1.1 | 7.8 | 21.6 | 2.8 | 1.2 | 79.7 | 7.4 | 573 | 203 | 370 |
| MRAC0628 | MR13268 | 24 | 27 | 53.7 | 17.6 | 9.9 | 7.9 | 19.5 | 3.7 | 82.7 | 1.1 | 7.6 | 17.7 | 2.8 | 1.3 | 113.0 | 7.8 | 521 | 244 | 277 |
| MRAC0628 | MR13269 | 27 | 28 | 49.7 | 11.2 | 6.3 | 4.9 | 11.8 | 2.4 | 52.3 | 0.8 | 6.1 | 10.6 | 1.7 | 0.9 | 75.7 | 5.5 | 351 | 161 | 190 |
| MRAC0629 | MR13275 | 20 | 23 | 152.5 | 21.3 | 11.4 | 12.2 | 24.5 | 4.2 | 77.5 | 1.5 | 7.3 | 28.0 | 3.6 | 1.6 | 98.7 | 10.4 | 707 | 261 | 446 |
| MRAC0629 | MR13276 | 23 | 27 | 85.8 | 20.5 | 11.8 | 9.6 | 23.6 | 4.4 | 73.1 | 1.4 | 5.4 | 19.8 | 3.4 | 1.5 | 163.5 | 9.0 | 639 | 329 | 310 |
| MRAC0629 | MR13277 | 27 | 28 | 78.7 | 16.7 | 9.9 | 7.9 | 18.5 | 3.6 | 59.6 | 1.2 | 6.1 | 15.8 | 2.7 | 1.2 | 133.5 | 7.5 | 526 | 265 | 261 |
| MRAC0629 | MR13278 | 28 | 29 | 54.8 | 15.3 | 9.8 | 6.1 | 15.0 | 3.4 | 44.2 | 1.2 | 5.9 | 11.7 | 2.4 | 1.3 | 128.5 | 7.5 | 437 | 248 | 189 |
| MRAC0630 | MR13287 | 28 | 30 | 60.5 | 10.2 | 5.6 | 3.8 | 11.0 | 2.1 | 35.8 | 0.8 | 9.9 | 11.1 | 1.7 | 0.8 | 58.3 | 5.2 | 310 | 134 | 176 |
| MRAC0631 | MR13293 | 16 | 20 | 145.0 | 38.5 | 20.8 | 15.9 | 46.0 | 7.2 | 174.5 | 2.5 | 10.2 | 46.7 | 6.6 | 2.6 | 215.0 | 16.8 | 1187 | 507 | 680 |
| MRAC0631 | MR13294 | 20 | 21 | 83.9 | 32.5 | 20.5 | 10.6 | 35.2 | 6.7 | 120.0 | 2.4 | 6.5 | 28.6 | 5.3 | 2.6 | 248.0 | 15.5 | 921 | 499 | 422 |
| MRAC0632 | MR13297 | 4 | 8 | 105.5 | 4.1 | 1.4 | 2.5 | 6.5 | 0.6 | 74.6 | 0.2 | 16.8 | 10.6 | 0.8 | 0.2 | 10.7 | 1.4 | 349 | 47 | 302 |
| MRAC0632 | MR13298 | 8 | 12 | 159.0 | 4.3 | 2.3 | 1.8 | 5.3 | 0.8 | 53.8 | 0.4 | 21.6 | 8.0 | 0.7 | 0.3 | 19.4 | 3.2 | 370 | 56 | 314 |
| MRAC0632 | MR13299 | 12 | 16 | 436.0 | 116.0 | 51.8 | 44.6 | 157.5 | 20.6 | 258.0 | 5.8 | 16.3 | 160.0 | 21.4 | 7.2 | 540.0 | 47.5 | 3067 | 1416 | 1651 |
| MRAC0632 | MR13300 | 16 | 17 | 250.0 | 53.3 | 28.0 | 18.5 | 66.3 | 10.4 | 105.0 | 3.7 | 13.3 | 63.1 | 9.3 | 4.1 | 299.0 | 27.2 | 1449 | 706 | 743 |
| MRAC0660 | MR13585 | 48 | 52 | 72.8 | 20.9 | 11.8 | 6.6 | 25.7 | 4.3 | 41.0 | 1.5 | 11.2 | 21.3 | 3.6 | 1.6 | 123.5 | 11.1 | 528 | 283 | 245 |
| MRAC0660 | MR13586 | 52 | 54 | 101.5 | 79.1 | 50.1 | 16.5 | 79.8 | 17.3 | 51.6 | 6.1 | 9.8 | 45.1 | 12.2 | 6.8 | 595.0 | 43.6 | 1525 | 1165 | 360 |
| MRAC0660 | MR13587 | 54 | 55 | 86.5 | 79.4 | 51.3 | 15.2 | 75.5 | 17.8 | 41.9 | 6.3 | 8.5 | 39.4 | 12.1 | 7.0 | 603.0 | 44.7 | 1460 | 1167 | 293 |
| MRAC0662 | MR13602 | 28 | 32 | 106.5 | 12.8 | 6.0 | 6.0 | 15.1 | 2.3 | 62.4 | 0.7 | 7.2 | 18.5 | 2.3 | 0.8 | 53.5 | 5.1 | 459 | 149 | 310 |
| MRAC0662 | MR13603 | 32 | 36 | 91.8 | 20.2 | 11.0 | 7.2 | 21.4 | 4.1 | 47.6 | 1.4 | 5.9 | 20.5 | 3.3 | 1.5 | 118.5 | 9.6 | 542 | 267 | 275 |
| MRAC0662 | MR13604 | 36 | 40 | 79.2 | 19.0 | 10.7 | 5.9 | 19.8 | 3.9 | 46.6 | 1.3 | 4.6 | 17.3 | 3.1 | 1.4 | 119.0 | 8.8 | 499 | 257 | 242 |
| MRAC0663 | MR13617 | 32 | 36 | 132.0 | 10.6 | 6.2 | 3.8 | 10.9 | 2.2 | 28.8 | 0.8 | 6.6 | 12.2 | 1.8 | 0.9 | 60.2 | 5.8 | 398 | 140 | 258 |
| MRAC0663 | MR13618 | 36 | 40 | 68.2 | 19.6 | 12.2 | 5.8 | 20.2 | 4.5 | 56.4 | 1.6 | 4.7 | 16.9 | 3.1 | 1.6 | 155.5 | 9.7 | 552 | 307 | 245 |
| MRAC0664 | MR13629 | 28 | 32 | 146.5 | 6.6 | 3.4 | 2.2 | 7.2 | 1.2 | 42.8 | 0.4 | 3.9 | 9.6 | 1.1 | 0.5 | 33.2 | 3.0 | 384 | 83 | 301 |
| MRAC0664 | MR13631 | 36 | 40 | 88.8 | 24.2 | 11.9 | 9.1 | 28.6 | 4.6 | 79.1 | 1.3 | 5.3 | 29.4 | 4.3 | 1.5 | 122.0 | 9.1 | 659 | 298 | 361 |
| MRAC0666 | MR13659 | 32 | 36 | 67.3 | 59.3 | 30.3 | 21.6 | 67.1 | 11.0 | 172.5 | 2.8 | 8.4 | 68.8 | 10.3 | 3.6 | 342.0 | 20.8 | 1454 | 775 | 679 |
| MRAC0667 | MR13676 | 36 | 40 | 162.5 | 123.0 | 67.8 | 36.3 | 148.0 | 26.1 | 331.0 | 8.0 | 4.2 | 118.0 | 20.0 | 9.1 | 836.0 | 52.9 | 3035 | 1763 | 1272 |
| MRAC0668 | MR13688 | 20 | 24 | 151.0 | 17.8 | 7.6 | 9.5 | 25.9 | 2.9 | 107.5 | 0.8 | 35.5 | 35.3 | 3.5 | 0.9 | 63.6 | 6.3 | 755 | 208 | 547 |
| MRAC0668 | MR13689 | 24 | 25 | 133.5 | 23.6 | 13.6 | 6.7 | 25.1 | 4.6 | 46.9 | 1.6 | 23.4 | 21.4 | 3.9 | 1.8 | 146.0 | 11.0 | 647 | 316 | 331 |
| MRAC0668 | MR13690 | 25 | 26 | 151.5 | 29.9 | 18.4 | 7.6 | 29.4 | 6.0 | 48.6 | 2.3 | 24.8 | 23.8 | 4.7 | 2.4 | 195.0 | 15.2 | 770 | 410 | 360 |
| MRAC0669 | MR13700 | 32 | 36 | 143.0 | 11.0 | 5.5 | 4.3 | 12.7 | 2.0 | 53.7 | 0.7 | 5.7 | 14.8 | 1.9 | 0.8 | 47.7 | 4.8 | 457 | 128 | 329 |
| MRAC0669 | MR13701 | 36 | 37 | 98.4 | 14.2 | 8.4 | 4.0 | 14.5 | 2.9 | 39.1 | 1.1 | 4.5 | 13.6 | 2.3 | 1.1 | 73.6 | 7.7 | 409 | 174 | 235 |
| MRAC0669 | MR13702 | 37 | 38 | 112.0 | 16.6 | 10.2 | 4.6 | 16.1 | 3.2 | 44.5 | 1.3 | 6.0 | 15.3 | 2.6 | 1.4 | 85.6 | 9.4 | 470 | 203 | 267 |
| MRAC0670 | MR13710 | 24 | 28 | 164.0 | 5.3 | 1.7 | 3.8 | 8.6 | 0.7 | 81.7 | 0.2 | 12.3 | 14.2 | 1.1 | 0.2 | 10.6 | 1.2 | 451 | 54 | 397 |
| MRAC0670 | MR13711 | 28 | 32 | 80.9 | 14.9 | 10.5 | 4.0 | 13.3 | 3.3 | 32.9 | 1.6 | 9.2 | 11.6 | 2.2 | 1.5 | 102.5 | 10.6 | 416 | 215 | 201 |
| MRAC0671 | MR13725 | 24 | 28 | 253.0 | 29.6 | 17.4 | 10.7 | 34.7 | 5.8 | 125.5 | 2.0 | 20.5 | 35.1 | 5.0 | 2.2 | 175.5 | 13.2 | 1082 | 403 | 679 |
| MRAC0671 | MR13726 | 28 | 29 | 216.0 | 40.3 | 25.8 | 11.3 | 42.0 | 8.4 | 102.0 | 3.2 | 18.6 | 34.9 | 6.4 | 3.3 | 290.0 | 21.4 | 1175 | 595 | 580 |
| MRAC0671 | MR13727 | 29 | 30 | 169.0 | 36.5 | 24.1 | 9.8 | 36.8 | 7.8 | 75.4 | 3.0 | 16.4 | 28.8 | 5.8 | 3.1 | 268.0 | 19.8 | 995 | 541 | 454 |
| MRAC0672 | MR13736 | 32 | 35 | 120.5 | 10.5 | 5.8 | 4.2 | 12.7 | 2.0 | 68.8 | 0.7 | 12.8 | 12.5 | 1.9 | 0.8 | 61.3 | 4.7 | 458 | 142 | 316 |

| Table 10<br>Anomalous Sample Analyses: TREO>300ppm | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Hole ID** | **Sample** | **From** | **To** | **Ce** | **Dy** | **Er** | **Eu** | **Gd** | **Ho** | **La** | **Lu** | **Nb** | **Sm** | **Tb** | **Tm** | **Y** | **Yb** | **TREO** | **HREO** | **LREO** |
| | | **(m)** | **(m)** | **(ppm)** | **(ppm)** | **(ppm)** | **(ppm)** | **(ppm)** | **(ppm)** | **(ppm)** | **(ppm)** | **(ppm)** | **(ppm)** | **(ppm)** | **(ppm)** | **(ppm)** | **(ppm)** | **(ppm)** | **(ppm)** | **(ppm)** |
| MRAC0672 | MR13737 | 35 | 36 | 277.0 | 12.7 | 6.3 | 6.0 | 15.8 | 2.2 | 111.0 | 0.7 | 8.3 | 20.9 | 2.3 | 0.8 | 55.2 | 5.2 | 802 | 155 | 647 |
| MRAC0673 | MR13742 | 16 | 20 | 434.0 | 7.3 | 4.1 | 3.9 | 9.4 | 1.5 | 71.9 | 0.7 | 8.0 | 11.2 | 1.2 | 0.7 | 38.9 | 4.3 | 780 | 101 | 679 |
| MRAC0673 | MR13743 | 20 | 21 | 271.0 | 5.3 | 2.5 | 3.3 | 8.6 | 1.0 | 147.5 | 0.2 | 10.6 | 10.9 | 1.0 | 0.3 | 34.9 | 1.4 | 691 | 84 | 607 |
| MRAC0673 | MR13744 | 21 | 22 | 344.0 | 6.0 | 2.9 | 3.6 | 8.9 | 1.2 | 110.0 | 0.4 | 14.0 | 11.8 | 1.1 | 0.4 | 34.6 | 2.6 | 727 | 87 | 640 |
| MRAC0675 | MR13752 | 8 | 12 | 106.5 | 6.3 | 2.3 | 3.4 | 9.1 | 0.9 | 57.5 | 0.2 | 15.8 | 12.0 | 1.3 | 0.2 | 15.4 | 1.5 | 338 | 64 | 274 |
| MRAC0675 | MR13753 | 12 | 16 | 354.0 | 11.4 | 3.6 | 7.3 | 17.5 | 1.6 | 176.0 | 0.3 | 14.1 | 28.2 | 2.5 | 0.4 | 25.4 | 2.2 | 974 | 118 | 856 |
| MRAC0675 | MR13754 | 16 | 20 | 166.5 | 6.8 | 2.3 | 4.3 | 10.3 | 1.0 | 67.8 | 0.2 | 12.3 | 18.5 | 1.4 | 0.3 | 15.6 | 1.7 | 505 | 74 | 431 |
| MRAC0675 | MR13756 | 24 | 25 | 67.2 | 9.5 | 6.5 | 3.0 | 9.0 | 2.0 | 31.2 | 0.9 | 4.6 | 9.4 | 1.5 | 0.9 | 60.4 | 6.1 | 305 | 133 | 172 |
| MRAC0675 | MR13757 | 25 | 26 | 150.5 | 25.2 | 15.2 | 8.5 | 26.4 | 4.9 | 58.6 | 2.0 | 5.7 | 25.3 | 4.2 | 2.1 | 138.0 | 14.0 | 708 | 321 | 387 |
| MRAC0676 | MR13762 | 16 | 20 | 75.8 | 25.0 | 15.7 | 6.9 | 27.1 | 5.2 | 39.5 | 1.9 | 10.9 | 18.5 | 4.1 | 2.0 | 178.0 | 12.5 | 595 | 362 | 233 |
| MRAC0676 | MR13763 | 20 | 24 | 85.1 | 14.4 | 8.8 | 4.1 | 14.5 | 3.0 | 36.0 | 1.1 | 12.6 | 13.5 | 2.3 | 1.2 | 83.8 | 7.4 | 405 | 186 | 219 |
| MRAC0676 | MR13764 | 24 | 28 | 69.0 | 11.5 | 7.0 | 3.2 | 11.2 | 2.4 | 29.8 | 0.9 | 10.3 | 9.8 | 1.8 | 1.0 | 67.2 | 5.9 | 324 | 148 | 176 |
| MRAC0677 | MR13770 | 12 | 16 | 285.0 | 10.7 | 5.6 | 2.9 | 13.4 | 1.9 | 214.0 | 0.7 | 57.5 | 25.8 | 2.0 | 0.8 | 50.1 | 5.0 | 951 | 142 | 809 |
| MRAC0677 | MR13771 | 16 | 20 | 638.0 | 19.0 | 7.9 | 5.6 | 27.8 | 3.1 | 418.0 | 0.9 | 59.6 | 52.5 | 3.8 | 1.0 | 70.4 | 6.4 | 1935 | 236 | 1699 |
| MRAC0677 | MR13776 | 36 | 40 | 226.0 | 6.9 | 4.0 | 2.0 | 8.0 | 1.3 | 126.5 | 0.6 | 14.1 | 14.1 | 1.2 | 0.6 | 36.5 | 3.4 | 632 | 95 | 537 |
| MRAC0677 | MR13778 | 44 | 48 | 156.5 | 6.1 | 3.9 | 1.2 | 5.6 | 1.3 | 38.8 | 0.6 | 14.6 | 7.5 | 0.9 | 0.6 | 28.2 | 4.1 | 350 | 72 | 278 |
| MRAC0677 | MR13780 | 52 | 55 | 59.3 | 11.7 | 6.8 | 2.8 | 12.6 | 2.3 | 41.6 | 0.9 | 6.8 | 13.5 | 1.9 | 1.0 | 63.4 | 6.4 | 345 | 148 | 197 |
| MRAC0678 | MR13788 | 20 | 24 | 202.0 | 20.4 | 9.3 | 8.3 | 22.4 | 3.7 | 81.3 | 0.9 | 12.1 | 25.2 | 3.5 | 1.2 | 79.9 | 7.5 | 710 | 219 | 491 |
| MRAC0678 | MR13789 | 24 | 28 | 83.1 | 11.7 | 6.8 | 4.2 | 13.0 | 2.5 | 38.7 | 0.8 | 13.5 | 11.7 | 1.9 | 0.9 | 66.6 | 5.6 | 369 | 153 | 216 |
| MRAC0679 | MR13797 | 16 | 20 | 327.0 | 18.4 | 9.9 | 8.5 | 23.4 | 3.5 | 127.0 | 1.1 | 23.1 | 29.8 | 3.3 | 1.3 | 89.1 | 8.0 | 972 | 236 | 736 |
| MRAC0679 | MR13798 | 20 | 24 | 253.0 | 33.6 | 21.7 | 9.9 | 35.1 | 7.2 | 91.3 | 2.8 | 19.3 | 32.0 | 5.2 | 2.9 | 207.0 | 18.8 | 1054 | 456 | 598 |
| MRAC0679 | MR13799 | 24 | 28 | 121.0 | 24.1 | 17.3 | 5.6 | 23.5 | 5.7 | 52.8 | 2.3 | 17.4 | 17.2 | 3.6 | 2.3 | 185.0 | 14.7 | 674 | 370 | 304 |
| MRAC0683 | MR13833 | 12 | 16 | 156.5 | 9.6 | 5.0 | 5.9 | 10.8 | 1.8 | 85.6 | 0.8 | 21.4 | 13.2 | 1.6 | 0.7 | 38.7 | 5.2 | 501 | 112 | 389 |
| MRAC0683 | MR13834 | 16 | 19 | 271.0 | 43.6 | 25.1 | 21.6 | 46.7 | 9.3 | 109.5 | 3.2 | 11.4 | 43.9 | 6.9 | 3.4 | 291.0 | 20.9 | 1338 | 629 | 709 |
| MRAC0683 | MR13835 | 19 | 20 | 84.9 | 15.5 | 9.8 | 7.7 | 15.2 | 3.5 | 43.7 | 1.4 | 15.7 | 12.2 | 2.4 | 1.3 | 116.0 | 8.4 | 463 | 236 | 227 |
| MRAC0684 | MR13842 | 24 | 28 | 70.8 | 91.2 | 60.1 | 31.0 | 80.7 | 21.4 | 212.0 | 6.4 | 5.4 | 63.0 | 13.4 | 7.6 | 734.0 | 41.3 | 2136 | 1412 | 724 |
| MRAC0684 | MR13843 | 28 | 31 | 36.1 | 26.3 | 12.9 | 13.8 | 31.3 | 5.1 | 81.0 | 1.4 | 4.1 | 30.2 | 4.6 | 1.6 | 136.5 | 9.6 | 654 | 331 | 323 |
| MRAC0689 | MR13878 | 16 | 20 | 80.3 | 17.6 | 8.2 | 8.4 | 17.9 | 3.3 | 54.4 | 1.0 | 7.5 | 21.3 | 3.0 | 1.2 | 61.3 | 7.4 | 478 | 180 | 298 |
| MRAC0689 | MR13879 | 20 | 24 | 89.7 | 41.5 | 21.4 | 17.1 | 41.5 | 8.3 | 85.1 | 2.6 | 8.1 | 40.4 | 6.6 | 2.9 | 204.0 | 18.2 | 924 | 490 | 434 |
| MRAC0689 | MR13880 | 24 | 28 | 58.4 | 55.1 | 31.9 | 20.3 | 58.3 | 11.8 | 122.0 | 3.9 | 4.9 | 47.4 | 8.9 | 4.1 | 360.0 | 24.8 | 1246 | 762 | 484 |
| MRAC0689 | MR13881 | 28 | 32 | 26.4 | 14.3 | 9.1 | 4.8 | 14.2 | 3.2 | 33.2 | 1.1 | 3.5 | 9.9 | 2.2 | 1.2 | 111.5 | 7.2 | 348 | 218 | 130 |
| MRAC0689 | MR13882 | 32 | 34 | 63.9 | 14.0 | 8.5 | 4.6 | 14.0 | 3.1 | 38.3 | 1.2 | 13.1 | 12.2 | 2.2 | 1.2 | 89.9 | 7.6 | 385 | 193 | 192 |
| MRAC0689 | MR13883 | 34 | 35 | 94.7 | 12.6 | 7.8 | 4.6 | 13.4 | 2.8 | 46.5 | 1.1 | 21.1 | 12.8 | 2.1 | 1.1 | 76.1 | 6.8 | 419 | 170 | 249 |
| MRAC0690 | MR13893 | 32 | 36 | 64.5 | 12.8 | 8.3 | 4.2 | 11.7 | 2.7 | 39.1 | 1.2 | 5.7 | 10.0 | 2.0 | 1.2 | 79.7 | 7.5 | 350 | 171 | 179 |
| MRAC0690 | MR13894 | 36 | 40 | 39.0 | 23.7 | 12.7 | 9.1 | 27.6 | 4.7 | 94.8 | 1.3 | 4.8 | 22.4 | 4.1 | 1.6 | 145.5 | 9.2 | 614 | 320 | 294 |
| MRAC0692 | MR13918 | 32 | 36 | 21.1 | 11.1 | 7.3 | 3.7 | 11.0 | 2.4 | 46.1 | 1.0 | 4.2 | 9.2 | 1.7 | 1.0 | 76.3 | 6.7 | 301 | 161 | 140 |
| MRAC0692 | MR13919 | 36 | 37 | 111.5 | 32.5 | 22.7 | 10.0 | 34.1 | 8.0 | 122.0 | 2.7 | 5.5 | 23.4 | 5.0 | 2.8 | 332.0 | 15.8 | 1035 | 601 | 434 |
| MRAC0693 | MR13930 | 36 | 37 | 40.4 | 18.6 | 11.7 | 6.2 | 20.4 | 4.0 | 78.6 | 1.4 | 3.8 | 14.2 | 3.1 | 1.5 | 147.5 | 8.7 | 521 | 291 | 230 |

**Table 10**
**Anomalous Sample Analyses: TREO>300ppm**

| Hole ID | Sample | From | To | Ce | Dy | Er | Eu | Gd | Ho | La | Lu | Nb | Sm | Tb | Tm | Y | Yb | TREO | HREO | LREO |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | (m) | (m) | (ppm) | (ppm) | (ppm) | (ppm) | (ppm) | (ppm) | (ppm) | (ppm) | (ppm) | (ppm) | (ppm) | (ppm) | (ppm) | (ppm) | (ppm) | (ppm) | (ppm) |
| MRAC0694 | MR13936 | 16 | 20 | 64.3 | 15.0 | 10.5 | 4.1 | 12.3 | 3.4 | 25.7 | 1.9 | 9.0 | 10.3 | 2.2 | 1.6 | 70.3 | 10.9 | 327 | 172 | 155 |
| MRAC0694 | MR13939 | 28 | 32 | 77.5 | 15.9 | 8.4 | 9.1 | 18.1 | 3.0 | 61.1 | 1.0 | 8.1 | 22.3 | 2.7 | 1.1 | 76.1 | 7.1 | 503 | 199 | 304 |
| MRAC0694 | MR13940 | 32 | 36 | 102.0 | 23.8 | 12.4 | 11.6 | 26.9 | 4.7 | 86.4 | 1.4 | 10.6 | 24.5 | 4.0 | 1.6 | 134.0 | 9.8 | 686 | 308 | 378 |
| MRAC0694 | MR13941 | 36 | 40 | 51.1 | 25.5 | 13.6 | 11.6 | 29.3 | 5.2 | 107.5 | 1.5 | 5.9 | 25.9 | 4.3 | 1.7 | 176.0 | 9.8 | 727 | 371 | 356 |
| MRAC0695 | MR13951 | 24 | 28 | 150.5 | 10.5 | 7.1 | 4.0 | 8.8 | 2.3 | 21.5 | 1.1 | 11.5 | 7.8 | 1.5 | 1.0 | 59.8 | 6.8 | 380 | 135 | 245 |
| MRAC0695 | MR13952 | 28 | 32 | 118.0 | 35.4 | 17.9 | 22.2 | 43.5 | 6.9 | 178.5 | 2.1 | 13.9 | 43.9 | 6.2 | 2.4 | 182.0 | 14.0 | 1097 | 455 | 642 |
| MRAC0695 | MR13953 | 32 | 36 | 128.0 | 101.5 | 55.7 | 48.9 | 112.0 | 21.3 | 301.0 | 6.3 | 10.7 | 90.8 | 16.5 | 7.1 | 684.0 | 40.8 | 2505 | 1443 | 1062 |
| MRAC0695 | MR13954 | 36 | 40 | 65.5 | 18.1 | 10.9 | 10.6 | 20.3 | 4.0 | 62.1 | 1.4 | 11.0 | 16.4 | 3.0 | 1.4 | 131.0 | 8.7 | 532 | 276 | 256 |
| MRAC0696 | MR13964 | 28 | 32 | 99.0 | 37.2 | 22.3 | 16.4 | 41.6 | 7.8 | 130.0 | 2.4 | 8.7 | 40.9 | 6.2 | 2.7 | 239.0 | 16.1 | 1040 | 526 | 514 |

## Appendix 2

# JORC Code, 2012 Edition – Table 1 Report for the Mount Ridley Project

### Section 1 Sampling Techniques and Data: Aircore Drilling

(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.* | Mount Ridley Mines Limited (ASX: MRD) has re-assayed parts 194 aircore holes (MRAC0438 – MRAC0858) drilled by the Company in 2017and 2018. Samples from these holes were available for re-assay as the pulps were stored at ALS Laboratories, Perth, since the first assays were completed.<br>In the respective years' Annual Technical Report, the Company notes that samples were generally 4m composites and a 1m end of hole sample. |
| | *Include reference to measures taken to ensure sample representivity and the appropriate calibration of any measurement tools or systems used.* | Drill hole collar locations reported herein were picked-up using a Garmin hand-held GPS with approximately +-3m accuracy.<br>No downhole surveying was undertaken |
| | *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.* | Aircore drilling to deliver Im interval sample piles. Samples of between 1 metre and 4 composited metres taken for analysis.<br>The size of the sample submitted to the laboratory was 2-4kg in weight, which was dried, pulverized and packaged in a computer-coded packet. A sub-sample was analysed and the coded packed then stored.<br>Analyses reported herein by ALS Laboratory's ME-MS81, a lithium borate fusion with ICP-MS finish.<br>Selected samples were also analysed by the ALS ME-ICP06 whole rock package. |
| *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).* | Aircore. A type of reverse circulation drilling using slim rods and a blade bit. |
| *Drill sample recovery* | *Method of recording and assessing core and chip sample recoveries and results assessed.* | Recovery was visually assessed, recorded on drill logs, and considered to be acceptable within industry standards. |
| | *Measures taken to maximise sample recovery and ensure representative nature of the samples.* | Samples were visually checked for recovery, moisture, and contamination. A cyclone was used to deliver the sample into buckets. |
| | *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.* | Not evaluated |
| *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.* | Geological logging appropriate for this style of drilling and the stage of the project. |

| | | |
|---|---|---|
| | *Whether logging is qualitative or quantitative in nature. Core (or costean, channel, etc) photography.* | Geological logging is inherently qualitative. More specific logging may be undertaken if chemical analyses warrant it. |
| | *The total length and percentage of the relevant intersections logged.* | Logging of the drill holes was cursory. |
| *Sub-sampling techniques and sample preparation* | *If core, whether cut or sawn and whether quarter, half or all core taken.* | Not applicable. |
| | *If non-core, whether riffled, tube sampled, rotary split, etc and whether sampled wet or dry.* | Original aircore samples were collected by a cyclone into a bucket and laid out in rows.<br>Im or up to 4m composite samples were 'speared' from the sample piles. |
| | *For all sample types, the nature, quality, and appropriateness of the sample preparation technique.* | Sampling technique is appropriate for the stage of the project. |
| | *Quality control procedures adopted for all sub-sampling stages to maximize representivity of samples.* | Not undertaken, as reported analyses are of previously prepared sample pulps. |
| | *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.* | While field QAQC procedures included the insertion of field duplicates and commercial standards at pre-specified intervals at the time of drilling, these were not available for the program of re-analysis. |
| | *Whether sample sizes are appropriate to the grain size of the material being sampled.* | Sample size meets the industry standard. |
| *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.* | Analyses reported herein by ALS Laboratory's ME-MS81, a lithium borate fusion with ICP-MS finish.<br>Selected samples were also analysed by the ALS ME-ICP06 whole rock package.<br>A suits of 15 Rare Earth Elements was targeted, plus whole rock analysis to assist with identifying the underlying geological units. The analytical techniques were recommended by the Company's geochemical consultant, and nominated as appropriate by ALS. |
| | *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.* | None used |
| | *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.* | ALS analysed 6 different standards, which were predominantly 3rd party independently manufactured. |
| *Verification of sampling and assaying* | *The verification of significant intersections by either independent or alternative company personnel.* | Significant intersections verified by an independent consultant. |
| | *The use of twinned holes.* | Not applicable. |
| | *Documentation of primary data, data entry procedures, data verification, data storage (physical and electronic) protocols.* | All collected data stored in a commercially managed database. |
| | *Discuss any adjustment to assay data.* | Raw assays are stored in the commercially managed database |
| *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.* | Preliminary drill hole collar locations noted in Table 6 were surveyed using a hand-held GPS with +- 3m accuracy. |
| | *Specification of the grid system used.* | GDA94-51 |

| | | |
|---|---|---|
| | *Quality and adequacy of topographic control.* | RL's estimated from a digital elevation model with points gained as a component of an aeromagnetic survey. The datum may have some error, but RL of holes should be fit for purpose on a hole to hole basis. |
| *Data spacing and distribution* | *Data spacing for reporting of Exploration Results.* | Varies. Generally 400 x 100m. Occasional infills on 100 x 20m, and additional semi regional traverses. |
| | *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.* | Insufficient data collected for an Mineral Resource Estimate. |
| | *Whether sample compositing has been applied.* | 1m intervals and 2-4m composites analysed. |
| *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.* | Not determined yet. Likely unbiased as vertical holes are sampling a horizontal mineralized feature. |
| | *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.* | Unlikely to be biased. |
| *Sample security* | *The measures taken to ensure sample security.* | Samples were stored at the laboratory. |
| *Audits or reviews* | *The results of any audits or reviews of sampling techniques and data.* | Sampling techniques are consistent with industry standards. A third party geochemical specialist is reviewing the data. |

## 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.* | Tenements E63/1547, E63/1564 and E63/1617, located from 35km northwest of Esperance, Western Australia. Registered Holder is Mount Ridley Mines Limited (Company) (100%).<br>The Project is subject to a Full Determination of Native Title: which is held by the Esperance Nyungars<br>NNTT Number: WC2004/010, Federal Court Number : WAD28/2019 |
| | *The security of the tenure held at the time of reporting along with any known impediments to obtaining a license to operate in the area.* | The tenements are in good standing, and there are no impediments to operating in the targeted areas other than requirements of the DMIRS and Heritage Protection Agreements, all of which are industry-standard. |
| *Exploration done by other parties* | *Acknowledgment and appraisal of exploration by other parties.* | Many parties, including Government organisations, private and public companies, have explored the area. A substantial compilation of work prior to Mount Ridley was by Bishop who was the first to research and champion the potential of Grass Patch, interpreted as a large, crudely layered, amphibolite-gabbro complex beneath shallow cover sediments. The mafic complex is considered to have the potential to host nickel-copper sulphide deposits and PGE deposits. completed detailed litho-geochemistry interpretation from 'best available' end of hole assays, development of a geological map based on this information. Additional drilling tested the models but didn't return assays of commercial consequence.<br>Mount Ridley has completed a large complement of geophysical surveys and drilling, aimed at nickel sulphides and gold. The samples reported herein were generated during the search for nickel sulphides.<br>Nearby, Salazar Gold Pty Ltd were the first company to search for REE in the Great Southern, identifying the Splinter REE deposit. Work started in 2010 and continues now. |
| *Geology* | *Deposit type, geological setting, and style of mineralisation.* | Ionic Adsorption Clay or Saprolite-hosted Rare Earth Deposit. |
| *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: 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.* | All relevant data for the drilling conducted is tabulated in Appendix 1 of this announcement.<br>It should be noted that RL is estimated from a digital elevation model gained during an aeromagnetic survey. |

<table>
<tr>
<td>Data aggregation methods</td>
<td>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.</td>
<td>Assay results not reported.<br>Conversions from elements to oxides:
<table>
<tr><td>Ce_ppm</td><td>1.1713</td><td>Ce2O3_ppm</td></tr>
<tr><td>Dy_ppm</td><td>1.1477</td><td>Dy2O3_ppm</td></tr>
<tr><td>Er_ppm</td><td>1.1435</td><td>Er2O3_ppm</td></tr>
<tr><td>Eu_ppm</td><td>1.1579</td><td>Eu2O3_ppm</td></tr>
<tr><td>Gd_ppm</td><td>1.1526</td><td>Gd2O3_ppm</td></tr>
<tr><td>Ho_ppm</td><td>1.1455</td><td>Ho2O3_ppm</td></tr>
<tr><td>La_ppm</td><td>1.1728</td><td>La2O3_ppm</td></tr>
<tr><td>Lu_ppm</td><td>1.1372</td><td>Lu2O3_ppm</td></tr>
<tr><td>Nd_ppm</td><td>1.1664</td><td>Nd2O3_ppm</td></tr>
<tr><td>Pr_ppm</td><td>1.2082</td><td>Pr6O11_ppm</td></tr>
<tr><td>Sm_ppm</td><td>1.1596</td><td>Sm2O3_ppm</td></tr>
<tr><td>Tb_ppm</td><td>1.1762</td><td>Tb4O7_ppm</td></tr>
<tr><td>Tm_ppm</td><td>1.1421</td><td>Tm2O3_ppm</td></tr>
<tr><td>Y_ppm</td><td>1.2695</td><td>Y2O3_ppm</td></tr>
<tr><td>Yb_ppm</td><td>1.1387</td><td>Yb2O3_ppm</td></tr>
<tr><td colspan="3">Source:<br>www.geol.umd.edu/~piccoli/probe/molweight.html</td></tr>
</table>
TREO: the sum of $Sm_2O_3$, $Dy_2O_3$, $Er_2O_3$, $Eu_2O_3$, $Gd_2O_3$, $Ho_2O_3$, $Lu_2O_3$, $Tb_4O_7$, $Tm_2O_3$, $Y_2O_3$, $Yb_2O_3$, $Ce_2O_3$, $La_2O_3$, $Nd_2O_3$, and $Pr_2O_3$.<br>TREO-Ce: TREO- $Ce_2O_3$<br>HREO: the sum of $Sm_2O_3$, $Dy_2O_3$, $Er_2O_3$, $Eu_2O_3$, $Gd_2O_3$, $Ho_2O_3$, $Lu_2O_3$, $Tb_4O_7$, $Tm_2O_3$, $Y_2O_3$, and $Yb_2O_3$.<br>LREO: the sum of $Ce_2O_3$, $La_2O_3$, $Nd_2O_3$, and $Pr_2O_3$.<br>CREO: the sum of $Dy_2O_3$, $Eu_2O_3$, $Nd_2O_3$, $Tb_4O_7$, and $Y_2O_3$.</td>
</tr>
<tr>
<td>Relationship between mineralisation widths and intercept lengths</td>
<td>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').</td>
<td>The interdependence of mineralisation width and length has not been established. To date the targeted mineralisation seems to be a flat-lying sheet. The sheet margins have not been determined.</td>
</tr>
<tr>
<td>Diagrams</td>
<td>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.</td>
<td>Refer to Figures 2 to 6 in the body of text.</td>
</tr>
</table>

| | | |
|---|---|---|
| *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.* | Assay results where TREO > 300ppm is reported in Table 7. |
| *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.* | All new, meaningful, and material exploration data has been reported |
| *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.* | Analysis of additional samples is progressing and will be reported when received. Drilling is then planned. |