

African Mineral Standards

Certificate of Analysis

Uranium standard made from
calcretized fluvial sediment,
Langer Heinrich, Namibia

AMIS0114

Recommended Concentration and two "Between Laboratory"
Standard Deviations

Certified Concentrations

| | | | | |
|------------------|------|-----|------|------|
| U (XRF) | 550 | + - | 29 | ppm |
| Ba (M/ICP) | 290 | + - | 30 | ppm |
| Sr (M/ICP) | 206 | + - | 16 | ppm |
| Specific Gravity | 2.66 | + - | 0.22 | g/cc |

Provisional Concentrations

| | | | | |
|------------|-------|-----|-------|-----|
| U (M/ICP) | 528 | + - | 90 | ppm |
| Cu (M/ICP) | 15.0 | + - | 3.4 | ppm |
| Mn (M/ICP) | 267 | + - | 40 | ppm |
| P (M/ICP) | 432 | + - | 82 | ppm |
| S | 0.047 | + - | 0.006 | % |
| V (M/ICP) | 157 | + - | 20 | ppm |
| Zn (M/ICP) | 58 | + - | 12 | ppm |

Indicated Mean

| | | |
|------------|------|-----|
| Co (M/ICP) | 6.2 | ppm |
| Cr (M/ICP) | 104 | ppm |
| Ni (M/ICP) | 14.4 | ppm |
| Zr (M/ICP) | 41 | ppm |

**** Or, by applying a chemical conversion factor of U x 1.1793 = U₃O₈
U₃O₈ by multi acid digestion: 623 ± 106 ppm
U₃O₈ by XRF: 649 ± 34 ppm**

Intended use: AMIS0114 is suitable for monitoring the accuracy of a single analysis of uraniferous calcareous grit. The material can be used for routine quality control by inserting within a batch of samples.

Additional geochemical data is presented for this material that will enable its use for method development and for the calibration of equipment.

The recommended mean and "Between Lab" standard deviations for this standard reflect the average results from the laboratories that participated in the round robin. Slight variations in analytical procedures between laboratories will reflect as slight biases to the recommended concentrations and this is acceptable. Good laboratories however will report results within the two standard deviation levels with a failure of <10 %.

Origin of material: This material was supplied by Paladin Energy from their Langer Heinrich Mine, 80km east of Swakopmund in Namibia. This deposit is a "calcrete deposit"; one of the surficial uranium occurrences discovered in Southern Africa during the 1970's.

Uranium mineralization is associated with calcretization of valley-fill fluvial sediments in an extensive tertiary palaeo-channel drainage system. These sediments, also known as the Langer Heinrich Formation, comprise mainly grits and conglomerates. Detrital components include quartz- and feldspar granules, minor mica flakes as well as rock fragments derived from surrounding Proterozoic country rock.

Uranium mineralization occurs in the form of carnotite, which is a secondary uranium and vanadium mineral and has been precipitated from groundwater. Uranium as well as vanadium originates from the Proterozoic country rock, the former was most likely sourced from granites, whereas the latter was probably sourced from mafic schists.

Mineral and chemical composition:

The AMIS0114 major element chemistry for this material has also been determined by predominantly XRF analyses from fourteen of the laboratories. The statistics are set out in the table below. This data has not been independently certified. Additional trace element chemistry for this product is available on request.

| | mean | 2SD | RSD% | n |
|--------------------------------|-------|------|-------|-----|
| Al ₂ O ₃ | 8.63 | 0.34 | 1.97 | 98 |
| CaO | 15.60 | 0.24 | 0.76 | 82 |
| Cr ₂ O ₃ | 0.02 | 0.00 | 10.56 | 69 |
| Fe ₂ O ₃ | 2.08 | 0.13 | 3.10 | 92 |
| K ₂ O | 2.68 | 0.12 | 2.24 | 91 |
| MgO | 1.23 | 0.07 | 3.04 | 87 |
| MnO | 0.04 | 0.01 | 7.08 | 76 |
| Na ₂ O | 1.65 | 0.21 | 6.37 | 103 |
| P ₂ O ₅ | 0.09 | 0.01 | 6.09 | 78 |
| SiO ₂ | 54.09 | 0.55 | 0.51 | 69 |
| TiO ₂ | 0.23 | 0.02 | 3.81 | 92 |
| S | 0.05 | 0.01 | 7.05 | 39 |
| LOI | 14.07 | 0.83 | 2.94 | 88 |

Appearance: The material is a very fine powder. It is coloured a Very Light Grey (Corstor 5Y 8/1).

Radioactivity: Shipments of this material do not require special marking, labeling or placarding. AMIS0114 does contain U (6.9 Bq/g) and Th (0.03 Bq/g), but due to low activity concentrations it is classified as EXEMPT MATERIAL in terms of "Safety Standards Series No. TS-R-1: Regulations for the Safe Transport of Radioactive Material, International Atomic Energy Agency, 2005, para 403, Table 1".

Method of preparation: The material was crushed, dry-milled and air-classified to 100% <54µm. Wet sieve particle size analysis of random samples confirmed the material was 100% <54µm. It was then blended in a bi-conical mixer, systematically divided and then sealed into 1kg Laboratory Packs. Samples were randomly selected for homogeneity testing and third party analysis. Statistical analysis for the consensus test results were carried out by an independent statistician. Explorer Packs are subdivided from the Laboratory packs as required.

Methods of analysis requested:

1. Multi-acid digest, including HF, ICP- OES or ICP-MS. Multi element scan (to include U).
2. U XRF.
3. Majors (Al₂O₃, CaO, Cr₂O₃, Fe₂O₃, K₂O, MgO, MnO, Na₂O, SiO₂, TiO₂, LOI.) XRF fusion.
4. SG (gas pycnometer).

Method of certification: Sixteen laboratories were each given eight randomly selected packages of sample. The results from the fifteen laboratories that issued results timeously were used for the certification.

The mean and standard deviation for all data was calculated. Outliers were defined as samples beyond the mean \pm 2 Standard Deviations from all data. These outliers were removed from the data and a new mean and standard deviation was determined.

Standards with an RSD of near or less than 5 % are then certified, RSD's of between near 5 % and 15 % are given Provisional Concentrations and limits, those with RSD's over 15 % are given Indicated Concentrations.

This method is different from that used to calculate the Confidence Interval shown on many Government-produced standards in that the actual "between-laboratory" standard deviation is used in the calculations. This produces upper and lower limits that reflect actual individual analyses rather than a grouped set of analyses. The limits can therefore be used to monitor accuracy from individual analyses, unlike the Certified Limits published on other standards which quote a Confidence Interval.

Participating laboratories: (Not in same order as in the table of assays)

1. ACME Analytical Laboratories Ltd., (Canada).
2. ALS Chemex South Africa (Pty) Ltd.
3. ALS Chemex, (Perth, Australia).
4. Assayers Canada, (Vancouver).
5. Genalysis Laboratory Services (Pty) Ltd., (Australia).
6. Geoscience Laboratories, (Geo Labs, Sudbury, Canada).
7. Labtium Inc. (Finland)
8. Langer Heinrich Mine Laboratory (Namibia)
9. OMAC Laboratories (Ireland).
10. Pt Intertek Utama Services (Intertek, Indonesia)
11. Set Point Laboratories (Pty) Ltd (South Africa)
12. SGS Lakefield Research (Canada)
13. SGS Lakefield Research Africa (Pty) Ltd. (Joburg, South Africa)
14. SGS Welshpool (Australia).
15. Ultra Trace (Pty) Ltd. (Australia)

Assay Data: Data as received from the laboratories for the important certified elements listed on p1 is set out below. A proficiency report has been sent to the managers of the participating laboratories. Additional data from this round robin is available on request.

| Lab Code | Ba (M/ICP) ppm | Co (M/ICP) ppm | Cr (M/ICP) ppm | Cu (M/ICP) ppm | Mn (M/ICP) ppm | Ni (M/ICP) ppm | P (M/ICP) ppm | S (M/ICP) % | SG g/cc | Sr (M/ICP) ppm | U (M/ICP) ppm | U (XRF) ppm | V (M/ICP) ppm | Zn (M/ICP) ppm | Zr (M/ICP) ppm |
|----------|----------------|----------------|----------------|----------------|----------------|----------------|---------------|-------------|---------|----------------|---------------|-------------|---------------|----------------|----------------|
| A | 280 | 6.0 | 105 | 21 | 272 | 14 | 400 | 0.1 | 2.44 | 205 | 594 | | 167 | 66 | 79 |
| A | 290 | 6.0 | 77 | 15 | 322 | 15 | 400 | 0.0 | 2.45 | 211 | 519 | | 180 | 54 | 83 |
| A | 287 | 5.0 | 72 | 16 | 319 | 13 | 400 | 0.1 | 2.56 | 211 | 511 | | 175 | 53 | 79 |
| A | 292 | 6.0 | 57 | 15 | 322 | 14 | 400 | 0.1 | 2.50 | 211 | 511 | | 181 | 52 | 80 |
| A | 284 | 6.0 | 63 | 19 | 318 | 13 | 400 | 0.0 | 2.28 | 208 | 517 | | 176 | 55 | 77 |
| A | 291 | 6.0 | 72 | 14 | 322 | 15 | 400 | 0.1 | 2.21 | 213 | 521 | | 174 | 53 | 80 |
| A | 284 | 7.0 | 84 | 14 | 309 | 14 | 400 | 0.0 | 2.31 | 202 | 515 | | 176 | 52 | 77 |
| A | 281 | 6.0 | 75 | 13 | 319 | 11 | 400 | 0.1 | 2.34 | 205 | 527 | | 183 | 54 | 74 |
| B | 320 | 6.3 | 119 | 17 | 295 | 19 | 490 | 0.1 | 2.60 | 238 | 590 | | 158 | 55 | 50 |
| B | 330 | 6.6 | 130 | 18 | 309 | 20 | 500 | 0.1 | 2.59 | 249 | 620 | | 168 | 60 | 40 |
| B | 320 | 7.1 | 110 | 17 | 296 | 19 | 480 | 0.1 | 2.58 | 240 | 600 | | 155 | 54 | 37 |
| B | 330 | 6.8 | 125 | 18 | 302 | 20 | 500 | 0.1 | 2.59 | 243 | 600 | | 163 | 65 | 36 |
| B | 290 | 6.0 | 109 | 13 | 267 | 15 | 420 | 0.0 | 2.57 | 212 | 520 | | 157 | 51 | 51 |
| B | 330 | 7.0 | 149 | 17 | 300 | 20 | 500 | 0.1 | 2.55 | 239 | 600 | | 173 | 62 | 40 |
| B | 310 | 6.3 | 122 | 13 | 280 | 16 | 440 | 0.0 | 2.54 | 217 | 550 | | 166 | 53 | 53 |
| B | 330 | 6.7 | 124 | 18 | 302 | 20 | 500 | 0.1 | 2.61 | 242 | 600 | | 166 | 60 | 37 |
| C | | | | | | | | | | | | | | | |
| C | | | | | | | | | | | | | | | |
| C | | | | | | | | | | | | | | | |
| C | | | | | | | | | | | | | | | |
| C | | | | | | | | | | | | | | | |
| C | | | | | | | | | | | | | | | |
| C | | | | | | | | | | | | | | | |
| D | 270 | 7.2 | 112 | 16 | 260 | 13 | 400 | 0.1 | 2.54 | 215 | 480 | 490 | 159 | 54 | 45 |
| D | 270 | 6.8 | 112 | 15 | 254 | 13 | 390 | 0.1 | 2.51 | 209 | 470 | 500 | 154 | 52 | 44 |
| D | 260 | 7.0 | 103 | 16 | 251 | 13 | 380 | 0.1 | 2.54 | 209 | 470 | 500 | 151 | 50 | 49 |
| D | 260 | 7.0 | 116 | 16 | 252 | 13 | 390 | 0.1 | 2.53 | 209 | 470 | 490 | 155 | 53 | 49 |
| D | 280 | 7.2 | 114 | 16 | 265 | 15 | 400 | 0.1 | 2.52 | 218 | 490 | 480 | 161 | 53 | 49 |
| D | 270 | 7.1 | 113 | 16 | 255 | 13 | 390 | 0.1 | 2.57 | 210 | 470 | 500 | 154 | 52 | 48 |
| D | 260 | 6.9 | 106 | 15 | 250 | 13 | 370 | 0.1 | 2.52 | 206 | 460 | 480 | 149 | 55 | 45 |
| D | 270 | 6.8 | 112 | 15 | 258 | 14 | 380 | 0.1 | 2.51 | 210 | 470 | 490 | 153 | 53 | 48 |
| E | 300 | 9.7 | 107 | 18 | 276 | 20 | 470 | | | 217 | 592 | | 229 | 62 | 36 |
| E | 286 | 11.0 | 102 | 19 | 254 | 20 | 420 | | | 203 | 589 | | 173 | 64 | 39 |
| E | 295 | 10.9 | 93 | 17 | 257 | 19 | 440 | | | 199 | 592 | | 202 | 63 | 35 |
| E | 302 | 10.1 | 102 | 19 | 262 | 20 | 370 | | | 211 | 582 | | 182 | 64 | 37 |
| E | 302 | 10.7 | 108 | 18 | 269 | 21 | 440 | | | 201 | 592 | | 181 | 58 | 32 |
| E | 307 | 11.2 | 108 | 16 | 273 | 20 | 420 | | | 212 | 593 | | 216 | 63 | 34 |
| E | 307 | 10.0 | 104 | 17 | 260 | 22 | 390 | | | 210 | 579 | | 189 | 63 | 36 |
| E | 303 | 10.0 | 103 | 17 | 252 | 20 | 450 | | | 211 | 580 | | 198 | 62 | 35 |
| F | | 5.0 | 129 | 18 | 275 | 15 | 410 | 0.0 | 2.73 | 212 | 498 | 522 | 155 | 57 | 46 |
| F | | 5.0 | 127 | 16 | 268 | 13 | 412 | 0.0 | 2.68 | 217 | 496 | 515 | 160 | 59 | 46 |
| F | | 5.0 | 133 | 17 | 273 | 14 | 415 | 0.0 | 2.74 | 214 | 510 | 532 | 164 | 57 | 44 |
| F | | 5.0 | 141 | 17 | 276 | 14 | 415 | 0.0 | 2.74 | 211 | 508 | 527 | 160 | 58 | 49 |
| F | | 5.0 | 126 | 16 | 274 | 13 | 418 | 0.0 | 2.72 | 224 | 523 | 528 | 161 | 58 | 46 |
| F | | 5.0 | 126 | 18 | 275 | 13 | 419 | 0.0 | 2.73 | 219 | 513 | 534 | 158 | 60 | 47 |
| F | | 5.0 | 138 | 17 | 278 | 14 | 414 | 0.0 | 2.67 | 218 | 512 | 529 | 158 | 58 | 47 |
| F | | 5.0 | 130 | 19 | 273 | 14 | 413 | 0.0 | 2.78 | 217 | 500 | 529 | 156 | 60 | 47 |
| G | 301 | 6.2 | 143 | 14 | | 16 | | | | 204 | | 566 | 151 | 49 | 78 |
| G | 303 | 6.1 | 146 | 14 | | 16 | | | | 200 | | 567 | 153 | 49 | 78 |
| G | 300 | 5.8 | 142 | 14 | | 15 | | | | 191 | | 568 | 142 | 49 | 76 |
| G | 296 | 5.9 | 143 | 14 | | 15 | | | | 198 | | 567 | 149 | 50 | 75 |
| G | 296 | 6.8 | 144 | 15 | | 16 | | | | 200 | | 568 | 147 | 52 | 79 |
| G | 295 | 6.6 | 139 | 15 | | 15 | | | | 195 | | 567 | 144 | 46 | 75 |
| G | 295 | 6.2 | 154 | 15 | | 16 | | | | 202 | | 568 | 155 | 50 | 79 |
| G | 303 | 6.1 | 148 | 14 | | 16 | | | | 202 | | 567 | 152 | 51 | 80 |
| H | | 5.8 | 120 | | 251 | 17 | 473 | 0.0 | | 209 | 421 | 555 | 160 | 65 | |
| H | | 5.8 | 122 | | 253 | 16 | 477 | 0.0 | | 209 | 405 | 552 | 159 | 63 | |
| H | | 5.8 | 86 | | 249 | 16 | 488 | 0.0 | | 208 | 427 | 562 | 159 | 66 | |
| H | | 5.9 | 79 | | 253 | 17 | 488 | 0.0 | | 209 | 409 | 546 | 159 | 68 | |
| H | | 5.6 | 79 | | 255 | 17 | 483 | 0.0 | | 209 | 414 | 552 | 160 | 66 | |
| H | | 5.8 | 106 | | 251 | 18 | 489 | 0.0 | | 211 | 411 | 555 | 162 | 66 | |
| H | | 5.4 | 72 | | 251 | 17 | 484 | 0.0 | | 208 | 390 | 549 | 160 | 72 | |
| H | | 5.5 | 103 | | 253 | 16 | 486 | 0.0 | | 210 | 402 | 545 | 160 | 68 | |
| I | | | | | | | | | | | | 534 | | | |
| I | | | | | | | | | | | | 536 | | | |
| I | | | | | | | | | | | | 540 | | | |
| I | | | | | | | | | | | | 542 | | | |
| I | | | | | | | | | | | | 535 | | | |
| I | | | | | | | | | | | | 541 | | | |
| I | | | | | | | | | | | | 541 | | | |
| J | 295 | 6.6 | 127 | 15 | 288 | 15 | 434 | 0.0 | | 212 | 518 | | 164 | 65 | 41 |
| J | 297 | 6.8 | 127 | 17 | 285 | 16 | 422 | 0.0 | | 209 | 511 | | 158 | 64 | 44 |
| J | 297 | 6.1 | 124 | 15 | 290 | 16 | 446 | 0.0 | | 211 | 508 | | 162 | 65 | 38 |
| J | 295 | 6.2 | 126 | 15 | 285 | 15 | 436 | 0.0 | | 210 | 513 | | 158 | 61 | 41 |
| J | 292 | 6.7 | 118 | 15 | 279 | 15 | 420 | 0.0 | | 208 | 510 | | 159 | 63 | 38 |
| J | 291 | 6.9 | 132 | 16 | 283 | 16 | 438 | 0.0 | | 209 | 511 | | 161 | 61 | 41 |
| J | 295 | 7.0 | 133 | 16 | 287 | 17 | 433 | 0.0 | | 209 | 521 | | 162 | 61 | 40 |
| J | 292 | 6.8 | 125 | 15 | 285 | 16 | 421 | 0.0 | | 207 | 507 | | 163 | 67 | 40 |
| K | 286 | 4.0 | 75 | 15 | 246 | 10 | | | 2.48 | 197 | | | 151 | 57 | 31 |
| K | 291 | 5.0 | 75 | 16 | 248 | 11 | | | 2.47 | 197 | | | 156 | 59 | 32 |
| K | 290 | 5.0 | 79 | 13 | 245 | 13 | | | 2.44 | 193 | | | 153 | 59 | 32 |
| K | 293 | 4.0 | 78 | 13 | 247 | 10 | | | 2.48 | 195 | | | 155 | 59 | 29 |
| K | 287 | 4.0 | 77 | 15 | 249 | 11 | | | 2.44 | 205 | | | 152 | 57 | 30 |
| K | 287 | 4.0 | 72 | 13 | 251 | 10 | | | 2.49 | 201 | | | 151 | 58 | 29 |
| K | 297 | 6.0 | 87 | 13 | 251 | 10 | | | 2.47 | 207 | | | 152 | 58 | 28 |
| K | 291 | 4.0 | 77 | 14 | 245 | 11 | | | 2.48 | 204 | | | 150 | 60 | 29 |

Assay Data (cont):

| Lab Code | Ba (M/ICP) ppm | Co (M/ICP) ppm | Cr (M/ICP) ppm | Cu (M/ICP) ppm | Mn (M/ICP) ppm | Ni (M/ICP) ppm | P (M/ICP) ppm | S (M/ICP) % | SG g/cc | Sr (M/ICP) ppm | U (M/ICP) ppm | U (XRF) ppm | V (M/ICP) ppm | Zn (M/ICP) ppm | Zr (M/ICP) ppm |
|----------|----------------|----------------|----------------|----------------|----------------|----------------|---------------|-------------|---------|----------------|---------------|-------------|---------------|----------------|----------------|
| L | | 8.0 | 179 | 21 | 309 | 24 | 467 | | 2.76 | 219 | 524 | 545 | 155 | 81 | 37 |
| L | | 8.2 | 161 | 22 | 294 | 14 | 445 | | 2.79 | 214 | 523 | 546 | 152 | 75 | 34 |
| L | | 7.3 | 176 | 22 | 311 | 23 | 490 | | 2.78 | 226 | 530 | 547 | 160 | 78 | 34 |
| L | | 7.7 | 203 | 22 | 317 | 24 | 501 | | 2.77 | 230 | 538 | 544 | 163 | 79 | 39 |
| L | | 7.3 | 177 | 20 | 303 | 28 | 470 | | 2.79 | 215 | 519 | 553 | 155 | 72 | 33 |
| L | | 8.0 | 139 | 21 | 302 | 34 | 478 | | 2.76 | 217 | 512 | 547 | 155 | 71 | 34 |
| L | | 8.0 | 151 | 21 | 294 | 22 | 497 | | 2.78 | 215 | 511 | 546 | 153 | 82 | 36 |
| L | | 6.3 | 160 | 19 | 291 | 21 | 448 | | 2.77 | 209 | 510 | 544 | 150 | 71 | 33 |
| M | 281 | 7.9 | 70 | 10 | 220 | 10 | 340 | | 2.75 | 190 | 420 | 564 | 130 | 70 | 60 |
| M | 281 | 7.7 | 70 | 10 | 220 | 10 | 340 | | 2.76 | 200 | 420 | 569 | 130 | 70 | 50 |
| M | 285 | 7.9 | 60 | 10 | 220 | 10 | 350 | | 2.72 | 200 | 440 | 567 | 140 | 70 | 60 |
| M | 288 | 7.7 | 70 | 10 | 220 | 10 | 340 | | 2.75 | 200 | 420 | 568 | 140 | 70 | 50 |
| M | 277 | 7.9 | 80 | 10 | 210 | 10 | 320 | | 2.77 | 190 | 400 | 566 | 130 | 70 | 50 |
| M | 285 | 8.0 | 70 | 10 | 220 | 20 | 340 | | 2.72 | 200 | 420 | 565 | 140 | 70 | 60 |
| M | 280 | 7.9 | 60 | 10 | 220 | 10 | 340 | | 2.75 | 200 | 420 | 563 | 130 | 70 | 60 |
| M | 288 | 8.1 | 70 | 10 | 220 | 10 | 350 | | 2.72 | 200 | 420 | 571 | 140 | 60 | 50 |
| N | 268 | 9.0 | 110 | 14 | 250 | 13 | 340 | | | 196 | 466 | 531 | 139 | 25 | 46 |
| N | 271 | 10.0 | 110 | 14 | 240 | 11 | 360 | | | 199 | 476 | 530 | 140 | 25 | 45 |
| N | 269 | 10.0 | 100 | 14 | 240 | 10 | 350 | | | 196 | 474 | 535 | 140 | 25 | 44 |
| N | 269 | 10.0 | 100 | 14 | 240 | 12 | 350 | | | 198 | 475 | 540 | 139 | 25 | 46 |
| N | 274 | 10.0 | 110 | 14 | 250 | 12 | 360 | | | 202 | 484 | 528 | 142 | 24 | 44 |
| N | 262 | 9.0 | 110 | 13 | 240 | 12 | 340 | | | 192 | 452 | 534 | 136 | 26 | 45 |
| N | 267 | 10.0 | 110 | 14 | 240 | 12 | 350 | | | 196 | 462 | 534 | 138 | 24 | 43 |
| N | 264 | 10.0 | 110 | 14 | 240 | 12 | 340 | | | 196 | 462 | 538 | 138 | 23 | 46 |
| O | 270 | | 79 | 14 | 240 | | 370 | | 2.72 | 180 | 560 | 600 | 140 | 58 | |
| O | 280 | | 86 | 13 | 260 | | 360 | | 2.71 | 190 | 580 | 600 | 150 | 49 | |
| O | 300 | | 94 | 14 | 250 | | 400 | | 2.72 | 200 | 620 | 600 | 160 | 78 | |
| O | 300 | | 86 | 13 | 260 | | 380 | | 2.72 | 210 | 630 | 600 | 150 | 46 | |
| O | 300 | | 94 | 14 | 260 | | 390 | | 2.73 | 200 | 610 | 600 | 150 | 53 | |
| O | 280 | | 85 | 13 | 240 | | 370 | | 2.66 | 190 | 570 | 600 | 140 | 51 | |
| O | 280 | | 77 | 13 | 240 | | 360 | | 2.68 | 180 | 570 | 600 | 140 | 47 | |
| O | 300 | | 86 | 13 | 260 | | 390 | | 2.66 | 200 | 600 | 600 | 150 | 49 | |
| P | 319 | 5.0 | 200 | 12 | 284 | 14 | 400 | 0.0 | 2.72 | 214 | 529 | 570 | 175 | 60 | 45 |
| P | 313 | 10.0 | 200 | 14 | 284 | 12 | 450 | 0.1 | 2.74 | 213 | 524 | 550 | 175 | 58 | 53 |
| P | 306 | 5.0 | 150 | 16 | 286 | 14 | 450 | 0.1 | 2.73 | 206 | 519 | 570 | 175 | 60 | 54 |
| P | 310 | 5.0 | 200 | 14 | 298 | 16 | 450 | 0.1 | 2.73 | 211 | 515 | 550 | 175 | 62 | 36 |
| P | 309 | 5.0 | 150 | 12 | 286 | 14 | 450 | 0.1 | 2.74 | 214 | 526 | 560 | 175 | 58 | 45 |
| P | 298 | 5.0 | 150 | 14 | 282 | 12 | 400 | 0.0 | 2.71 | 215 | 518 | 550 | 175 | 58 | 25 |
| P | 303 | 10.0 | 150 | 12 | 284 | 14 | 450 | 0.0 | 2.74 | 213 | 526 | 570 | 175 | 60 | 65 |
| P | 306 | 5.0 | 150 | 14 | 284 | 14 | 500 | 0.1 | 2.73 | 212 | 524 | 560 | 175 | 58 | 55 |

Availability: This product is available in Laboratory Packs containing 1kg of material or in Explorer Packs containing client specified weights of material from 50g up to 250g. Laboratory Packs are sealed bottles delivered in sealed foil pouches. Explorer Packs contain material in standard geochem envelopes placed into foil pouches that are nitrogen flushed and vacuum sealed.

Legal notice: This certificate and the reference material described in it have been prepared with due care and attention. However AMIS, Set Point Technology (Pty) Ltd, Mike McWha, Dr Barry Smee and Smee and Associates Ltd; accept no liability for any decisions or actions taken following the use of the reference material.

14 May 2008

Certifying officers:



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