

| Sample | Distance μm | Distance Norm | Mineral | Ba $\mu\text{g/g}$ | Sr $\mu\text{g/g}$ | CaO wt.% | MgO wt.% | Na ₂ O wt.% |
|---------------|-------------------------------|---------------|------------------|--------------------|--------------------|----------------------------------|----------|------------------------|
| Nile-1 | <i>Hippopotamus amphibius</i> | | Sudan Upper Nile | Molar M3 | 21004 | Naturhistorisches Museum, Vienna | | |
| NIL1-AB-1 | 2400 | 1.224 | Dentin | 28 | 190 | 55.67 | 2.77 | 1.35 |
| NIL1-AB-2 | 2320 | 1.184 | Dentin | 29 | 183 | 55.56 | 3.16 | 1.35 |
| NIL1-AB-3 | 2240 | 1.143 | Dentin | 31 | 187 | 55.03 | 3.23 | 1.28 |
| NIL1-AB-4 | 2160 | 1.102 | Dentin | 35 | 189 | 56.22 | 3.10 | 1.13 |
| NIL1-AB-5 | 2080 | 1.061 | Dentin | 30 | 182 | 56.02 | 3.16 | 1.19 |
| NIL1-AB-6 | 2000 | 1.020 | Dentin | 29 | 187 | 56.28 | 3.06 | 1.09 |
| NIL1-AB-7 | 1920 | 0.980 | Enamel | 33 | 214 | 54.07 | 0.39 | 1.50 |
| NIL1-AB-8 | 1840 | 0.939 | Enamel | 26 | 206 | 54.20 | 0.38 | 1.41 |
| NIL1-AB-9 | 1760 | 0.898 | Enamel | 25 | 207 | 54.27 | 0.38 | 1.46 |
| NIL1-AB-10 | 1680 | 0.857 | Enamel | 21 | 202 | 54.10 | 0.36 | 1.54 |
| NIL1-AB-11 | 1600 | 0.816 | Enamel | 19 | 196 | 54.26 | 0.36 | 1.32 |
| NIL1-AB-12 | 1520 | 0.776 | Enamel | 19 | 192 | 54.16 | 0.31 | 1.41 |
| NIL1-AB-13 | 1440 | 0.735 | Enamel | 18 | 185 | 54.35 | 0.31 | 1.43 |
| NIL1-AB-14 | 1360 | 0.694 | Enamel | 16 | 176 | 54.17 | 0.30 | 1.27 |
| NIL1-AB-15 | 1280 | 0.653 | Enamel | 17 | 175 | 53.94 | 0.32 | 1.25 |
| NIL1-AB-16 | 1200 | 0.612 | Enamel | 18 | 170 | 54.18 | 0.29 | 1.30 |
| NIL1-AB-17 | 1120 | 0.571 | Enamel | 17 | 169 | 54.10 | 0.29 | 1.12 |
| NIL1-AB-18 | 1040 | 0.531 | Enamel | 15 | 164 | 54.36 | 0.26 | 1.16 |
| NIL1-AB-19 | 960 | 0.490 | Enamel | 14 | 160 | 54.13 | 0.24 | 1.18 |
| NIL1-AB-20 | 880 | 0.449 | Enamel | 14 | 155 | 54.43 | 0.24 | 1.05 |
| NIL1-AB-21 | 800 | 0.408 | Enamel | 14 | 154 | 54.59 | 0.21 | 1.10 |
| NIL1-AB-22 | 720 | 0.367 | Enamel | 15 | 153 | 54.53 | 0.23 | 1.03 |
| NIL1-AB-23 | 640 | 0.327 | Enamel | 13 | 147 | 54.60 | 0.24 | 1.04 |
| NIL1-AB-24 | 560 | 0.286 | Enamel | 12 | 146 | 54.28 | 0.23 | 0.97 |
| NIL1-AB-25 | 480 | 0.245 | Enamel | 12 | 142 | 54.39 | 0.18 | 0.96 |
| NIL1-AB-26 | 400 | 0.204 | Enamel | 11 | 142 | 54.30 | 0.20 | 0.91 |
| NIL1-AB-27 | 320 | 0.163 | Enamel | 10 | 136 | 54.35 | 0.20 | 1.02 |
| NIL1-AB-28 | 240 | 0.122 | Enamel | 10 | 135 | 54.27 | 0.21 | 0.91 |
| NIL1-AB-29 | 160 | 0.082 | Enamel | 10 | 130 | 54.30 | 0.19 | 0.87 |
| NIL1-AB-30 | 80 | 0.041 | Enamel | 9 | 120 | 54.30 | 0.23 | 0.75 |
| Nile-2 | <i>Hippopotamus amphibius</i> | | Sudan Upper Nile | Molar M3 | 21004 | Naturhistorisches Museum, Vienna | | |
| NIL2-AB-1 | 1920 | 0.985 | Enamel | 105 | 365 | 54.20 | 0.39 | 1.23 |
| NIL2-AB-2 | 1840 | 0.944 | Enamel | 104 | 354 | 53.95 | 0.39 | 1.17 |
| NIL2-AB-3 | 1760 | 0.903 | Enamel | 93 | 343 | 54.25 | 0.35 | 1.22 |
| NIL2-AB-4 | 1680 | 0.862 | Enamel | 89 | 347 | 54.18 | 0.35 | 1.17 |
| NIL2-AB-5 | 1600 | 0.821 | Enamel | 80 | 340 | 53.89 | 0.34 | 1.23 |
| NIL2-AB-6 | 1520 | 0.779 | Enamel | 75 | 338 | 53.79 | 0.34 | 1.16 |
| NIL2-AB-7 | 1440 | 0.738 | Enamel | 74 | 341 | 54.23 | 0.34 | 1.06 |
| NIL2-AB-8 | 1360 | 0.697 | Enamel | 68 | 339 | 53.95 | 0.33 | 1.11 |

| | | | | | | | | |
|------------|------|-------|--------|----|-----|-------|------|------|
| NIL2-AB-9 | 1280 | 0.656 | Enamel | 66 | 323 | 54.05 | 0.32 | 0.99 |
| NIL2-AB-10 | 1200 | 0.615 | Enamel | 65 | 333 | 54.17 | 0.30 | 1.14 |
| NIL2-AB-11 | 1120 | 0.574 | Enamel | 62 | 330 | 54.48 | 0.32 | 1.04 |
| NIL2-AB-12 | 1040 | 0.533 | Enamel | 61 | 324 | 54.24 | 0.32 | 1.03 |
| NIL2-AB-13 | 960 | 0.492 | Enamel | 58 | 315 | 54.43 | 0.33 | 0.99 |
| NIL2-AB-14 | 880 | 0.451 | Enamel | 61 | 322 | 54.62 | 0.32 | 0.97 |
| NIL2-AB-15 | 800 | 0.410 | Enamel | 67 | 315 | 53.95 | 0.46 | 0.98 |
| NIL2-AB-16 | 720 | 0.369 | Enamel | 67 | 317 | 54.53 | 0.31 | 0.99 |
| NIL2-AB-17 | 640 | 0.328 | Enamel | 66 | 307 | 54.13 | 0.33 | 0.91 |
| NIL2-AB-18 | 560 | 0.287 | Enamel | 63 | 295 | 54.40 | 0.28 | 0.92 |
| NIL2-AB-19 | 480 | 0.246 | Enamel | 64 | 296 | 53.90 | 0.30 | 0.84 |
| NIL2-AB-20 | 400 | 0.205 | Enamel | 65 | 293 | 54.23 | 0.30 | 0.95 |
| NIL2-AB-21 | 320 | 0.164 | Enamel | 64 | 296 | 54.20 | 0.29 | 0.89 |
| NIL2-AB-22 | 240 | 0.123 | Enamel | 63 | 295 | 54.19 | 0.26 | 0.91 |
| NIL2-AB-23 | 160 | 0.082 | Enamel | 59 | 277 | 54.01 | 0.27 | 0.95 |
| NIL2-AB-24 | 80 | 0.041 | Enamel | 59 | 280 | 54.41 | 0.24 | 0.92 |
| NIL2-AB-25 | 40 | 0.021 | Enamel | 57 | 270 | 53.86 | 0.22 | 0.95 |

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|---------------|-------------------------------|--|------------------|----------|------|----------------------------------|--|--|
| Nile-3 | <i>Hippopotamus amphibius</i> | | Sudan White Nile | Molar M3 | 5576 | Naturhistorisches Museum, Vienna | | |
|---------------|-------------------------------|--|------------------|----------|------|----------------------------------|--|--|

| | | | | | | | | |
|------------|------|-------|--------|-----|-----|-------|------|------|
| NIL3 AB-01 | 2300 | 0.979 | Enamel | 227 | 522 | 54.91 | 0.36 | 1.48 |
| NIL3 AB-02 | 2200 | 0.936 | Enamel | 207 | 501 | 54.42 | 0.35 | 1.40 |
| NIL3 AB-03 | 2100 | 0.894 | Enamel | 206 | 496 | 54.64 | 0.33 | 1.36 |
| NIL3 AB-04 | 2000 | 0.851 | Enamel | 175 | 497 | 54.80 | 0.34 | 1.22 |
| NIL3 AB-05 | 1900 | 0.809 | Enamel | 169 | 499 | 54.73 | 0.35 | 1.47 |
| NIL3 AB-06 | 1800 | 0.766 | Enamel | 167 | 480 | 54.71 | 0.33 | 1.39 |
| NIL3 AB-07 | 1700 | 0.723 | Enamel | 147 | 475 | 54.44 | 0.31 | 1.29 |
| NIL3 AB-08 | 1600 | 0.681 | Enamel | 127 | 462 | 54.62 | 0.32 | 1.27 |
| NIL3 AB-09 | 1500 | 0.638 | Enamel | 120 | 453 | 54.82 | 0.35 | 1.26 |
| NIL3 AB-10 | 1400 | 0.596 | Enamel | 116 | 443 | 54.98 | 0.32 | 1.16 |
| NIL3 AB-11 | 1300 | 0.553 | Enamel | 108 | 434 | 54.70 | 0.33 | 1.15 |
| NIL3 AB-12 | 1200 | 0.511 | Enamel | 103 | 432 | 55.10 | 0.34 | 1.15 |
| NIL3 AB-13 | 1100 | 0.468 | Enamel | 100 | 435 | 54.80 | 0.31 | 1.22 |
| NIL3 AB-14 | 1000 | 0.426 | Enamel | 99 | 430 | 55.02 | 0.31 | 1.12 |
| NIL3 AB-15 | 900 | 0.383 | Enamel | 98 | 430 | 55.38 | 0.35 | 1.07 |
| NIL3 AB-16 | 800 | 0.340 | Enamel | 94 | 431 | 55.03 | 0.34 | 1.08 |
| NIL3 AB-17 | 700 | 0.298 | Enamel | 93 | 428 | 55.10 | 0.30 | 1.03 |
| NIL3 AB-18 | 600 | 0.255 | Enamel | 98 | 436 | 54.86 | 0.31 | 0.98 |
| NIL3 AB-19 | 500 | 0.213 | Enamel | 110 | 435 | 54.81 | 0.33 | 1.00 |
| NIL3 AB-20 | 400 | 0.170 | Enamel | 122 | 420 | 55.00 | 0.27 | 0.99 |
| NIL3 AB-21 | 300 | 0.128 | Enamel | 120 | 409 | 54.79 | 0.25 | 0.87 |
| NIL3 AB-22 | 200 | 0.085 | Enamel | 122 | 400 | 54.79 | 0.25 | 0.91 |
| NIL3 AB-23 | 100 | 0.043 | Enamel | 121 | 401 | 54.65 | 0.30 | 0.87 |
| NIL3 AB-24 | 50 | 0.021 | Enamel | 115 | 389 | 54.84 | 0.24 | 0.93 |

| Nile-4 | <i>Hippopotamus amphibius</i> | | Sudan Blue Nile | Molar M3 | 4227 | Naturhistorisches Museum, Vienna | | |
|---------------|-----------------------------------|-------|--------------------|----------|------|-------------------------------------|------|------|
| NIL4 AB-01 | 2800 | 0.982 | Enamel | 28 | 190 | 54.30 | 0.48 | 1.65 |
| NIL4 AB-02 | 2700 | 0.947 | Enamel | 29 | 183 | 53.65 | 0.55 | 1.58 |
| NIL4 AB-03 | 2600 | 0.912 | Enamel | 31 | 187 | 54.06 | 0.50 | 1.48 |
| NIL4 AB-04 | 2500 | 0.877 | Enamel | 35 | 189 | 53.93 | 0.50 | 1.59 |
| NIL4 AB-05 | 2400 | 0.842 | Enamel | 30 | 182 | 53.95 | 0.55 | 1.49 |
| NIL4 AB-06 | 2300 | 0.807 | Enamel | 29 | 187 | 53.97 | 0.53 | 1.45 |
| NIL4 AB-07 | 2200 | 0.772 | Enamel | 33 | 214 | 54.22 | 0.47 | 1.39 |
| NIL4 AB-08 | 2100 | 0.737 | Enamel | 26 | 206 | 54.54 | 0.48 | 1.32 |
| NIL4 AB-09 | 2000 | 0.702 | Enamel | 25 | 207 | 54.32 | 0.51 | 1.35 |
| NIL4 AB-10 | 1900 | 0.667 | Enamel | 21 | 202 | 54.25 | 0.48 | 1.27 |
| NIL4 AB-11 | 1800 | 0.632 | Enamel | 19 | 196 | 53.89 | 0.45 | 1.35 |
| NIL4 AB-12 | 1700 | 0.596 | Enamel | 19 | 192 | 53.97 | 0.49 | 1.33 |
| NIL4 AB-13 | 1600 | 0.561 | Enamel | 18 | 185 | 54.67 | 0.50 | 1.22 |
| NIL4 AB-14 | 1500 | 0.526 | Enamel | 16 | 176 | 54.50 | 0.47 | 1.15 |
| NIL4 AB-15 | 1400 | 0.491 | Enamel | 17 | 175 | 54.42 | 0.41 | 1.25 |
| NIL4 AB-16 | 1300 | 0.456 | Enamel | 18 | 170 | 54.17 | 0.49 | 1.17 |
| NIL4 AB-17 | 1200 | 0.421 | Enamel | 17 | 169 | 53.89 | 0.44 | 1.17 |
| NIL4 AB-18 | 1100 | 0.386 | Enamel | 15 | 164 | 54.24 | 0.44 | 1.18 |
| NIL4 AB-19 | 1000 | 0.351 | Enamel | 14 | 160 | 54.22 | 0.44 | 1.14 |
| NIL4 AB-20 | 900 | 0.316 | Enamel | 14 | 155 | 54.43 | 0.44 | 1.16 |
| NIL4 AB-21 | 800 | 0.281 | Enamel | 14 | 154 | 54.30 | 0.43 | 1.21 |
| NIL4 AB-22 | 700 | 0.246 | Enamel | 15 | 153 | 54.29 | 0.46 | 1.15 |
| NIL4 AB-23 | 600 | 0.211 | Enamel | 13 | 147 | 54.71 | 0.48 | 1.03 |
| NIL4 AB-24 | 500 | 0.175 | Enamel | 12 | 146 | 53.97 | 0.46 | 1.00 |
| NIL4 AB-25 | 400 | 0.140 | Enamel | 12 | 142 | 53.96 | 0.46 | 1.13 |
| NIL4 AB-26 | 300 | 0.105 | Enamel | 11 | 142 | 54.16 | 0.44 | 0.91 |
| NIL4 AB-27 | 200 | 0.070 | Enamel | 10 | 136 | 54.17 | 0.41 | 0.99 |
| NIL4 AB-28 | 100 | 0.035 | Enamel | 10 | 135 | 54.21 | 0.42 | 0.86 |
| NIL4 AB-29 | 50 | 0.018 | Enamel | 10 | 130 | 54.55 | 0.34 | 0.90 |

| Sample | Distance μm | Distance Norm | Mineral | Ba $\mu\text{g/g}$ | Sr $\mu\text{g/g}$ | CaO wt.% | MgO wt.% | Na ₂ O wt.% |
|--------------|-------------------------------|---------------|----------|---|--------------------|----------|----------|------------------------|
| S-276 | <i>Hippopotamus amphibius</i> | Zoo | Molar M3 | Collection Inst. Geosciences, University Mainz, Germany | | | | |
| apical | | | | | | | | |
| S276-1AB-01 | 50 | 0.017 | Enamel | 59 | 283 | 55.15 | 0.30 | 0.63 |
| S276-1AB-02 | 126 | 0.043 | Enamel | 58 | 280 | 55.51 | 0.23 | 0.81 |
| S276-1AB-03 | 252 | 0.085 | Enamel | 55 | 288 | 55.03 | 0.34 | 0.81 |
| S276-1AB-04 | 378 | 0.128 | Enamel | 59 | 299 | 55.41 | 0.23 | 0.83 |
| S276-1AB-05 | 504 | 0.171 | Enamel | 59 | 295 | 55.54 | 0.29 | 0.92 |
| S276-1AB-06 | 630 | 0.214 | Enamel | 61 | 312 | 55.82 | 0.28 | 0.86 |
| S276-1AB-07 | 756 | 0.256 | Enamel | 68 | 337 | 55.41 | 0.27 | 0.87 |
| S276-1AB-08 | 882 | 0.299 | Enamel | 63 | 329 | 55.13 | 0.22 | 0.87 |
| S276-1AB-09 | 1008 | 0.342 | Enamel | 62 | 328 | 55.77 | 0.26 | 1.00 |
| S276-1AB-10 | 1134 | 0.384 | Enamel | 67 | 343 | 55.42 | 0.22 | 0.94 |
| S276-1AB-11 | 1260 | 0.427 | Enamel | 74 | 361 | 55.36 | 0.30 | 0.97 |
| S276-1AB-12 | 1386 | 0.470 | Enamel | 74 | 362 | 55.43 | 0.29 | 1.02 |
| S276-1AB-13 | 1512 | 0.513 | Enamel | 75 | 380 | 55.02 | 0.30 | 1.09 |
| S276-1AB-14 | 1638 | 0.555 | Enamel | 76 | 390 | 55.52 | 0.32 | 1.18 |
| S276-1AB-15 | 1764 | 0.598 | Enamel | 87 | 402 | 55.36 | 0.26 | 1.03 |
| S276-1AB-16 | 1890 | 0.641 | Enamel | 85 | 401 | 54.82 | 0.31 | 1.10 |
| S276-1AB-17 | 2016 | 0.683 | Enamel | 88 | 408 | 54.81 | 0.30 | 1.10 |
| S276-1AB-18 | 2142 | 0.726 | Enamel | 88 | 407 | 55.08 | 0.29 | 1.04 |
| S276-1AB-19 | 2268 | 0.769 | Enamel | 84 | 409 | 55.67 | 0.31 | 1.11 |
| S276-1AB-20 | 2394 | 0.812 | Enamel | 96 | 415 | 55.26 | 0.32 | 1.10 |
| S276-1AB-21 | 2520 | 0.854 | Enamel | 102 | 425 | 54.88 | 0.33 | 1.06 |
| S276-1AB-22 | 2646 | 0.897 | Enamel | 104 | 441 | 55.15 | 0.33 | 1.22 |
| S276-1AB-23 | 2772 | 0.940 | Enamel | 116 | 475 | 55.05 | 0.35 | 1.23 |
| S276-1AB-24 | 2898 | 0.982 | Enamel | 123 | 466 | 55.13 | 0.37 | 1.27 |
| S276-1AB-25 | 3024 | 1.025 | Dentin | 98 | 374 | 52.48 | 1.17 | 0.97 |
| S276-1AB-26 | 3150 | 1.068 | Dentin | 135 | 365 | 50.60 | 2.05 | 1.01 |
| S276-1AB-27 | 3276 | 1.111 | Dentin | 137 | 364 | 49.49 | 2.75 | 1.14 |
| S276-1AB-28 | 3402 | 1.153 | Dentin | 140 | 369 | 48.61 | 2.87 | 1.10 |
| S276-1AB-29 | 3528 | 1.196 | Dentin | 145 | 370 | 49.09 | 3.16 | 1.11 |
| S276-1AB-30 | 3654 | 1.239 | Dentin | 128 | 334 | 48.60 | 3.21 | 1.23 |
| apical | | | | | | | | |
| S276-2AB-01 | 50 | 0.009 | Cement | 312 | 351 | 51.04 | 1.30 | 0.90 |
| S276-2AB-02 | 233 | 0.041 | Cement | 235 | 319 | 52.22 | 1.30 | 0.91 |
| S276-2AB-03 | 466 | 0.082 | Cement | 206 | 301 | 52.35 | 1.17 | 0.94 |
| S276-2AB-04 | 699 | 0.123 | Cement | 171 | 272 | 52.89 | 0.99 | 1.17 |
| S276-2AB-05 | 932 | 0.164 | Cement | 225 | 305 | 53.01 | 1.10 | 1.14 |
| S276-2AB-06 | 1165 | 0.204 | Cement | 213 | 286 | 53.47 | 1.01 | 0.93 |
| S276-2AB-07 | 1398 | 0.245 | Cement | 254 | 287 | 52.85 | 1.12 | 1.53 |
| S276-2AB-08 | 1631 | 0.286 | Cement | 244 | 319 | 52.51 | 1.41 | 1.32 |

| | | | | | | | | |
|-------------|------|-------|--------|-----|-----|-------|------|------|
| S276-2AB-09 | 1864 | 0.327 | Cement | 290 | 342 | 51.84 | 1.25 | 1.01 |
| S276-2AB-10 | 2097 | 0.368 | Enamel | 93 | 387 | 54.53 | 0.44 | 0.94 |
| S276-2AB-11 | 2330 | 0.409 | Enamel | 96 | 341 | 54.14 | 0.88 | 0.98 |
| S276-2AB-12 | 2563 | 0.450 | Enamel | 87 | 318 | 54.13 | 0.85 | 0.94 |
| S276-2AB-13 | 2796 | 0.491 | Enamel | 69 | 274 | 54.54 | 0.58 | 0.93 |
| S276-2AB-14 | 3029 | 0.531 | Enamel | 76 | 311 | 54.61 | 0.67 | 0.85 |
| S276-2AB-15 | 3262 | 0.572 | Enamel | 69 | 308 | 55.70 | 0.39 | 0.94 |
| S276-2AB-16 | 3495 | 0.613 | Enamel | 66 | 312 | 55.67 | 0.28 | 0.89 |
| S276-2AB-17 | 3728 | 0.654 | Enamel | 65 | 322 | 55.33 | 0.29 | 0.96 |
| S276-2AB-18 | 3961 | 0.695 | Enamel | 61 | 317 | 55.17 | 0.28 | 0.89 |
| S276-2AB-19 | 4194 | 0.736 | Enamel | 63 | 327 | 55.30 | 0.30 | 0.99 |
| S276-2AB-20 | 4427 | 0.777 | Enamel | 68 | 344 | 55.41 | 0.34 | 0.99 |
| S276-2AB-21 | 4660 | 0.818 | Enamel | 75 | 372 | 55.84 | 0.34 | 1.05 |
| S276-2AB-22 | 4893 | 0.858 | Enamel | 81 | 384 | 55.26 | 0.36 | 1.09 |
| S276-2AB-23 | 5126 | 0.899 | Enamel | 79 | 370 | 53.85 | 0.39 | 1.19 |
| S276-2AB-24 | 5359 | 0.940 | Enamel | 80 | 387 | 55.11 | 0.40 | 1.14 |
| S276-2AB-25 | 5592 | 0.981 | Enamel | 106 | 422 | 55.27 | 0.38 | 1.12 |
| S276-2AB-26 | 5825 | 1.022 | dentin | 115 | 459 | 55.36 | 0.45 | 1.37 |
| S276-2AB-27 | 6058 | 1.063 | dentin | 121 | 335 | 52.79 | 0.94 | 1.05 |
| S276-2AB-28 | 6291 | 1.104 | dentin | 144 | 372 | 49.40 | 3.06 | 1.09 |
| S276-2AB-29 | 6524 | 1.145 | dentin | 145 | 364 | 49.38 | 3.24 | 1.29 |
| S276-2AB-30 | 6757 | 1.185 | dentin | 138 | 360 | 49.45 | 3.25 | 1.22 |
| cervical | | | | | | | | |
| S276-3AB-01 | 50 | 0.010 | Cement | 328 | 404 | 51.46 | 1.28 | 0.91 |
| S276-3AB-02 | 184 | 0.036 | Cement | 240 | 310 | 52.10 | 1.34 | 0.93 |
| S276-3AB-03 | 368 | 0.073 | Cement | 266 | 304 | 53.11 | 1.19 | 1.10 |
| S276-3AB-04 | 552 | 0.109 | Cement | 229 | 335 | 52.34 | 1.18 | 0.96 |
| S276-3AB-05 | 736 | 0.146 | Cement | 213 | 288 | 53.26 | 1.12 | 0.89 |
| S276-3AB-06 | 920 | 0.182 | Cement | 247 | 285 | 52.79 | 1.03 | 0.98 |
| S276-3AB-07 | 1104 | 0.219 | Cement | 302 | 294 | 51.94 | 1.22 | 1.01 |
| S276-3AB-08 | 1288 | 0.255 | Enamel | 57 | 290 | 54.88 | 0.40 | 0.91 |
| S276-3AB-09 | 1472 | 0.291 | Enamel | 61 | 292 | 54.99 | 0.34 | 0.92 |
| S276-3AB-10 | 1656 | 0.328 | Enamel | 68 | 295 | 55.24 | 0.36 | 0.85 |
| S276-3AB-11 | 1840 | 0.364 | Enamel | 79 | 303 | 54.76 | 0.38 | 1.00 |
| S276-3AB-12 | 2024 | 0.401 | Enamel | 78 | 303 | 55.11 | 0.33 | 0.91 |
| S276-3AB-13 | 2208 | 0.437 | Enamel | 80 | 312 | 55.12 | 0.36 | 0.97 |
| S276-3AB-14 | 2392 | 0.474 | Enamel | 84 | 326 | 55.57 | 0.35 | 0.96 |
| S276-3AB-15 | 2576 | 0.510 | Enamel | 85 | 327 | 55.11 | 0.34 | 1.01 |
| S276-3AB-16 | 2760 | 0.547 | Enamel | 89 | 332 | 55.35 | 0.36 | 1.14 |
| S276-3AB-17 | 2944 | 0.583 | Enamel | 99 | 349 | 55.33 | 0.34 | 1.03 |
| S276-3AB-18 | 3128 | 0.619 | Enamel | 102 | 364 | 55.24 | 0.37 | 1.15 |
| S276-3AB-19 | 3312 | 0.656 | Enamel | 106 | 379 | 54.95 | 0.36 | 1.02 |
| S276-3AB-20 | 3496 | 0.692 | Enamel | 104 | 365 | 54.84 | 0.35 | 1.16 |
| S276-3AB-21 | 3680 | 0.729 | Enamel | 108 | 379 | 55.20 | 0.36 | 1.15 |
| S276-3AB-22 | 3864 | 0.765 | Enamel | 116 | 407 | 55.34 | 0.38 | 1.25 |

| | | | | | | | | |
|--------------|-------|-------|--------|-----|-----|-------|------|------|
| S276-3AB-23 | 4048 | 0.802 | Enamel | 115 | 413 | 55.73 | 0.35 | 1.23 |
| S276-3AB-24 | 4232 | 0.838 | Enamel | 126 | 449 | 55.18 | 0.34 | 1.13 |
| S276-3AB-25 | 4416 | 0.874 | Enamel | 109 | 435 | 55.07 | 0.30 | 1.11 |
| S276-3AB-26 | 4600 | 0.911 | Enamel | 109 | 445 | 55.30 | 0.41 | 1.38 |
| S276-3AB-27 | 4784 | 0.947 | Enamel | 121 | 432 | 54.43 | 0.39 | 1.28 |
| S276-3AB-28 | 4968 | 0.984 | Enamel | 113 | 344 | 52.91 | 0.81 | 0.99 |
| S276-3AB-29 | 5152 | 1.020 | dentin | 132 | 325 | 50.07 | 2.23 | 1.17 |
| longitudinal | | | | | | | | |
| S276-EF-01 | 100 | 0.002 | Enamel | 121 | 448 | 55.25 | 0.32 | 1.14 |
| S276-EF-02 | 600 | 0.011 | Enamel | 122 | 428 | 54.90 | 0.36 | 1.14 |
| S276-EF-03 | 1100 | 0.021 | Enamel | 122 | 435 | 55.03 | 0.35 | 1.13 |
| S276-EF-04 | 1600 | 0.030 | Enamel | 117 | 423 | 54.68 | 0.36 | 1.20 |
| S276-EF-05 | 2100 | 0.039 | Enamel | 114 | 428 | 54.65 | 0.36 | 1.14 |
| S276-EF-06 | 2600 | 0.049 | Enamel | 111 | 428 | 54.96 | 0.39 | 1.15 |
| S276-EF-07 | 3100 | 0.058 | Enamel | 116 | 433 | 54.66 | 0.38 | 1.22 |
| S276-EF-08 | 3600 | 0.067 | Enamel | 122 | 443 | 54.85 | 0.36 | 1.13 |
| S276-EF-09 | 4100 | 0.077 | Enamel | 112 | 440 | 55.07 | 0.40 | 1.31 |
| S276-EF-10 | 4600 | 0.086 | Enamel | 115 | 438 | 54.86 | 0.38 | 1.28 |
| S276-EF-11 | 5100 | 0.095 | Enamel | 113 | 438 | 55.06 | 0.39 | 1.18 |
| S276-EF-12 | 5600 | 0.105 | Enamel | 118 | 442 | 54.92 | 0.41 | 1.30 |
| S276-EF-13 | 6100 | 0.114 | Enamel | 115 | 440 | 54.63 | 0.38 | 1.28 |
| S276-EF-14 | 6600 | 0.123 | Enamel | 117 | 443 | 55.03 | 0.40 | 1.26 |
| S276-EF-15 | 7100 | 0.133 | Enamel | 114 | 427 | 54.72 | 0.41 | 1.21 |
| S276-EF-16 | 7600 | 0.142 | Enamel | 117 | 435 | 54.81 | 0.43 | 1.26 |
| S276-EF-17 | 8100 | 0.151 | Enamel | 112 | 415 | 54.73 | 0.40 | 1.19 |
| S276-FG-01 | 8600 | 0.161 | Enamel | 94 | 399 | 54.73 | 0.40 | 1.19 |
| S276-FG-02 | 9100 | 0.170 | Enamel | 97 | 404 | 55.04 | 0.42 | 1.18 |
| S276-FG-03 | 9600 | 0.179 | Enamel | 99 | 408 | 54.67 | 0.41 | 1.20 |
| S276-FG-04 | 10100 | 0.189 | Enamel | 105 | 416 | 54.28 | 0.40 | 1.22 |
| S276-FG-05 | 10600 | 0.198 | Enamel | 105 | 411 | 54.83 | 0.39 | 1.23 |
| S276-FG-06 | 11100 | 0.207 | Enamel | 107 | 407 | 54.24 | 0.38 | 1.20 |
| S276-FG-07 | 11600 | 0.217 | Enamel | 104 | 414 | 54.46 | 0.38 | 1.29 |
| S276-FG-08 | 12100 | 0.226 | Enamel | 104 | 413 | 54.86 | 0.36 | 1.21 |
| S276-FG-09 | 12600 | 0.236 | Enamel | 110 | 422 | 54.66 | 0.38 | 1.20 |
| S276-FG-10 | 13100 | 0.245 | Enamel | 106 | 413 | 55.06 | 0.36 | 1.29 |
| S276-FG-11 | 13600 | 0.254 | Enamel | 111 | 427 | 54.42 | 0.38 | 1.26 |
| S276-FG-12 | 14100 | 0.264 | Enamel | 112 | 427 | 54.66 | 0.44 | 1.31 |
| S276-gh-01 | 14600 | 0.273 | Enamel | 117 | 435 | 54.66 | 0.40 | 1.24 |
| S276-gh-02 | 15100 | 0.282 | Enamel | 115 | 436 | 54.66 | 0.40 | 1.24 |
| S276-gh-03 | 15600 | 0.292 | Enamel | 111 | 423 | 54.58 | 0.39 | 1.29 |
| S276-gh-04 | 16100 | 0.301 | Enamel | 116 | 440 | 54.86 | 0.39 | 1.34 |
| S276-gh-05 | 16600 | 0.310 | Enamel | 115 | 432 | 54.85 | 0.39 | 1.32 |
| S276-gh-06 | 17100 | 0.320 | Enamel | 119 | 433 | 53.83 | 0.37 | 1.33 |
| S276-gh-07 | 17600 | 0.329 | Enamel | 111 | 422 | 54.54 | 0.39 | 1.35 |
| S276-gh-08 | 18100 | 0.338 | Enamel | 112 | 424 | 53.25 | 0.36 | 1.26 |

| | | | | | | | | |
|------------|-------|-------|--------|-----|-----|-------|------|------|
| S276-gh-09 | 18600 | 0.348 | Enamel | 114 | 427 | 54.83 | 0.41 | 1.39 |
| S276-gh-10 | 19100 | 0.357 | Enamel | 115 | 424 | 54.81 | 0.42 | 1.29 |
| S276-gh-11 | 19600 | 0.366 | Enamel | 126 | 426 | 54.58 | 0.39 | 1.37 |
| S276-gh-12 | 20100 | 0.376 | Enamel | 128 | 417 | 54.75 | 0.35 | 1.34 |
| S276-gh-13 | 20600 | 0.385 | Enamel | 123 | 414 | 55.05 | 0.39 | 1.35 |
| S276-gh-14 | 21100 | 0.394 | Enamel | 120 | 404 | 54.91 | 0.40 | 1.38 |
| S276-gh-15 | 21600 | 0.404 | Enamel | 122 | 404 | 54.67 | 0.39 | 1.28 |
| S276-gh-16 | 22100 | 0.413 | Enamel | 127 | 400 | 54.89 | 0.37 | 1.29 |
| S276-gh-17 | 22600 | 0.422 | Enamel | 133 | 405 | 54.82 | 0.38 | 1.41 |
| S276-gh-18 | 23100 | 0.432 | Enamel | 138 | 414 | 55.22 | 0.41 | 1.40 |
| S276-gh-19 | 23600 | 0.441 | Enamel | 134 | 408 | 54.82 | 0.44 | 1.29 |
| S276-gh-20 | 24100 | 0.450 | Enamel | 137 | 403 | 55.09 | 0.41 | 1.35 |
| S276-gh-21 | 24600 | 0.460 | Enamel | 138 | 410 | 55.03 | 0.39 | 1.30 |
| S276-gh-22 | 25100 | 0.469 | Enamel | 134 | 401 | 55.41 | 0.39 | 1.28 |
| S276-hi-01 | 25600 | 0.479 | Enamel | 138 | 415 | 55.41 | 0.39 | 1.28 |
| S276-hi-02 | 26100 | 0.488 | Enamel | 123 | 418 | 55.13 | 0.40 | 1.23 |
| S276-hi-03 | 26600 | 0.497 | Enamel | 111 | 417 | 54.91 | 0.37 | 1.24 |
| S276-hi-04 | 27100 | 0.507 | Enamel | 106 | 414 | 54.92 | 0.42 | 1.13 |
| S276-hi-05 | 27600 | 0.516 | Enamel | 109 | 434 | 54.82 | 0.43 | 1.12 |
| S276-hi-06 | 28100 | 0.525 | Enamel | 115 | 428 | 55.00 | 0.37 | 1.17 |
| S276-hi-07 | 28600 | 0.535 | Enamel | 115 | 425 | 55.26 | 0.36 | 1.17 |
| S276-hi-08 | 29100 | 0.544 | Enamel | 122 | 431 | 55.28 | 0.36 | 1.17 |
| S276-hi-09 | 29600 | 0.553 | Enamel | 130 | 443 | 55.30 | 0.35 | 1.12 |
| S276-hi-10 | 30100 | 0.563 | Enamel | 127 | 438 | 54.73 | 0.39 | 1.10 |
| S276-hi-11 | 30600 | 0.572 | Enamel | 128 | 421 | 55.60 | 0.35 | 1.07 |
| S276-hi-12 | 31100 | 0.581 | Enamel | 126 | 411 | 55.12 | 0.41 | 1.30 |
| S276-hi-13 | 31600 | 0.591 | Enamel | 134 | 426 | 55.13 | 0.40 | 1.21 |
| S276-hi-14 | 32100 | 0.600 | Enamel | 133 | 425 | 55.22 | 0.38 | 1.27 |
| S276-hi-15 | 32600 | 0.609 | Enamel | 134 | 425 | 55.35 | 0.39 | 1.34 |
| S276-hi-16 | 33100 | 0.619 | Enamel | 144 | 420 | 55.24 | 0.40 | 1.23 |
| S276-hi-17 | 33600 | 0.628 | Enamel | 139 | 406 | 54.22 | 0.38 | 1.18 |
| S276-hi-18 | 34100 | 0.637 | Enamel | 144 | 401 | 55.48 | 0.40 | 1.27 |
| S276-hi-19 | 34600 | 0.647 | Enamel | 143 | 398 | 55.40 | 0.38 | 1.15 |
| S276-hi-20 | 35100 | 0.656 | Enamel | 144 | 402 | 55.56 | 0.38 | 1.26 |
| S276-hi-21 | 35600 | 0.665 | Enamel | 151 | 403 | 55.55 | 0.38 | 1.18 |
| S276-hi-22 | 36100 | 0.675 | Enamel | 147 | 395 | 55.34 | 0.39 | 1.24 |
| S276-hi-23 | 36600 | 0.684 | Enamel | 147 | 389 | 55.29 | 0.37 | 1.25 |
| S276-hi-24 | 37100 | 0.693 | Enamel | 146 | 392 | 55.52 | 0.38 | 1.31 |
| S276-hi-25 | 37600 | 0.703 | Enamel | 150 | 386 | 55.48 | 0.41 | 1.21 |
| S276-hi-26 | 38100 | 0.712 | Enamel | 159 | 405 | 55.03 | 0.37 | 1.32 |
| S276-hi-27 | 38600 | 0.721 | Enamel | 166 | 414 | 55.41 | 0.38 | 1.30 |
| S276-hi-28 | 39100 | 0.731 | Enamel | 160 | 402 | 55.21 | 0.45 | 1.35 |
| S276-hi-29 | 39600 | 0.740 | Enamel | 132 | 408 | 55.51 | 0.40 | 1.27 |
| S276-hi-30 | 40100 | 0.750 | Enamel | 116 | 409 | 54.68 | 0.40 | 1.27 |
| S276-hi-31 | 40600 | 0.759 | Enamel | 119 | 430 | 54.99 | 0.39 | 1.27 |

| | | | | | | | | |
|------------|-------|-------|--------|-----|-----|-------|------|------|
| S276-hi-32 | 41100 | 0.768 | Enamel | 130 | 441 | 54.84 | 0.39 | 1.28 |
| S276-hi-33 | 41600 | 0.778 | Enamel | 152 | 469 | 54.96 | 0.40 | 1.32 |
| S276-hi-34 | 42100 | 0.787 | Enamel | 143 | 448 | 55.04 | 0.37 | 1.17 |
| S276-hi-35 | 42600 | 0.796 | Enamel | 130 | 401 | 54.84 | 0.39 | 1.22 |
| S276-hi-36 | 43100 | 0.806 | Enamel | 121 | 418 | 54.40 | 0.39 | 1.17 |
| S276-ij-01 | 43600 | 0.815 | Enamel | 126 | 436 | 54.79 | 0.35 | 1.19 |
| S276-ij-02 | 44100 | 0.824 | Enamel | 146 | 388 | 54.79 | 0.35 | 1.19 |
| S276-ij-03 | 44600 | 0.834 | Enamel | 157 | 390 | 54.98 | 0.36 | 1.32 |
| S276-ij-04 | 45100 | 0.843 | Enamel | 174 | 388 | 54.07 | 0.35 | 1.35 |
| S276-ij-05 | 45600 | 0.852 | Enamel | 142 | 368 | 54.67 | 0.42 | 1.30 |
| S276-ij-06 | 46100 | 0.862 | Enamel | 187 | 386 | 54.81 | 0.39 | 1.21 |
| S276-ij-07 | 46600 | 0.871 | Enamel | 142 | 368 | 54.46 | 0.38 | 1.29 |
| S276-ij-08 | 47100 | 0.880 | Enamel | 157 | 393 | 54.21 | 0.39 | 1.44 |
| S276-ij-09 | 47600 | 0.890 | Enamel | 109 | 367 | 54.43 | 0.40 | 1.33 |
| S276-ij-10 | 48100 | 0.899 | Enamel | 126 | 378 | 54.47 | 0.39 | 1.23 |
| S276-ij-11 | 48600 | 0.908 | Enamel | 132 | 383 | 54.29 | 0.39 | 1.29 |
| S276-ij-12 | 49100 | 0.918 | Enamel | 124 | 375 | 54.30 | 0.38 | 1.31 |
| S276-ij-13 | 49600 | 0.927 | Enamel | 135 | 367 | 54.39 | 0.37 | 1.40 |
| S276-jk-01 | 50100 | 0.936 | Enamel | 158 | 367 | 54.39 | 0.37 | 1.40 |
| S276-jk-02 | 50600 | 0.946 | Enamel | 129 | 367 | 54.20 | 0.39 | 1.47 |
| S276-jk-03 | 51100 | 0.955 | Enamel | 128 | 375 | 54.41 | 0.40 | 1.43 |
| S276-jk-04 | 51600 | 0.964 | Enamel | 91 | 352 | 54.50 | 0.40 | 1.47 |
| S276-jk-05 | 52100 | 0.974 | Enamel | 108 | 318 | 54.11 | 0.55 | 1.62 |
| S276-jk-06 | 52600 | 0.983 | Enamel | 110 | 323 | 54.36 | 0.51 | 1.33 |
| S276-jk-07 | 53100 | 0.993 | Enamel | 176 | 464 | 54.23 | 0.37 | 1.29 |

| Sample | Distance μm | Distance Norm | Mineral | Ba $\mu\text{g/g}$ | Sr $\mu\text{g/g}$ | CaO wt.% | MgO wt.% | Na ₂ O wt.% |
|--------------|-------------------------------|-------------------------------|---------|--------------------|-------------------------|----------|----------|------------------------|
| Mal-8 | <i>Hippopotamus amphibius</i> | Modern Lake Malawi, Senga Bay | | Molar M3 | Buy, Safari Beach Lodge | | | |
| apical | | | | | | | | |
| Mal-8-1AB-01 | 75 | 0.021 | Cement | 88 | 332 | 57.40 | 1.26 | 1.32 |
| Mal-8-1AB-02 | 224 | 0.063 | Enamel | 48 | 348 | 54.33 | 0.60 | 1.08 |
| Mal-8-1AB-03 | 373 | 0.104 | Enamel | 52 | 383 | 54.46 | 0.44 | 0.94 |
| Mal-8-1AB-04 | 522 | 0.146 | Enamel | 115 | 379 | 55.14 | 0.57 | 1.05 |
| Mal-8-1AB-05 | 671 | 0.188 | Enamel | 79 | 360 | 54.59 | 0.72 | 1.05 |
| Mal-8-1AB-06 | 820 | 0.229 | Enamel | 46 | 351 | 54.00 | 0.87 | 0.95 |
| Mal-8-1AB-07 | 969 | 0.271 | Enamel | 44 | 361 | 54.38 | 0.69 | 0.97 |
| Mal-8-1AB-08 | 1118 | 0.313 | Enamel | 51 | 362 | 55.02 | 0.41 | 0.97 |
| Mal-8-1AB-09 | 1267 | 0.354 | Crack | 44 | 364 | 55.07 | 0.43 | 1.15 |
| Mal-8-1AB-10 | 1416 | 0.396 | Enamel | 40 | 371 | 54.86 | 0.53 | 1.05 |
| Mal-8-1AB-11 | 1565 | 0.438 | Enamel | 40 | 385 | 54.65 | 0.55 | 0.98 |
| Mal-8-1AB-12 | 1714 | 0.479 | Enamel | 44 | 396 | 55.02 | 0.43 | 1.09 |
| Mal-8-1AB-13 | 1863 | 0.521 | Enamel | 48 | 416 | 54.87 | 0.45 | 1.10 |
| Mal-8-1AB-14 | 2012 | 0.563 | Enamel | 48 | 411 | 55.13 | 0.49 | 1.18 |
| Mal-8-1AB-15 | 2161 | 0.604 | Enamel | 49 | 425 | 54.88 | 0.43 | 1.19 |
| Mal-8-1AB-16 | 2310 | 0.646 | Enamel | 51 | 426 | 54.89 | 0.50 | 1.15 |
| Mal-8-1AB-17 | 2459 | 0.688 | Enamel | 57 | 462 | 54.94 | 0.43 | 1.18 |
| Mal-8-1AB-18 | 2608 | 0.730 | Enamel | 59 | 453 | 55.14 | 0.42 | 1.21 |
| Mal-8-1AB-19 | 2757 | 0.771 | Enamel | 66 | 484 | 55.08 | 0.40 | 1.14 |
| Mal-8-1AB-20 | 2906 | 0.813 | Enamel | 69 | 475 | 55.79 | 0.39 | 1.35 |
| Mal-8-1AB-21 | 3055 | 0.855 | Enamel | 75 | 491 | 54.23 | 0.44 | 1.40 |
| Mal-8-1AB-22 | 3204 | 0.896 | Enamel | 80 | 507 | 54.73 | 0.42 | 1.44 |
| Mal-8-1AB-23 | 3353 | 0.938 | Enamel | 84 | 528 | 53.92 | 0.46 | 1.35 |
| Mal-8-1AB-24 | 3502 | 0.980 | Enamel | 87 | 527 | 54.80 | 0.46 | 1.45 |
| Mal-8-1AB-25 | 3651 | 1.021 | dentin | 90 | 500 | 55.38 | 1.18 | 1.33 |
| Mal-8-1AB-26 | 3800 | 1.063 | dentin | 100 | 477 | 53.97 | 2.74 | 1.41 |
| Mal-8-1AB-27 | 3949 | 1.105 | dentin | 121 | 470 | 53.20 | 2.68 | 1.41 |
| Mal-8-1AB-28 | 4098 | 1.146 | dentin | 126 | 464 | 51.77 | 2.76 | 1.36 |
| central | | | | | | | | |
| Mal-8-1CD-01 | 75 | 0.015 | Cement | 273 | 447 | 55.63 | 1.34 | 0.89 |
| Mal-8-1CD-02 | 282 | 0.057 | Cement | 259 | 457 | 56.49 | 1.42 | 1.14 |
| Mal-8-1CD-03 | 489 | 0.099 | Enamel | 104 | 357 | 55.13 | 0.36 | 0.76 |
| Mal-8-1CD-04 | 696 | 0.141 | Enamel | 36 | 320 | 54.53 | 0.28 | 0.71 |
| Mal-8-1CD-05 | 903 | 0.183 | Enamel | 37 | 341 | 55.15 | 0.29 | 0.74 |
| Mal-8-1CD-06 | 1110 | 0.225 | Enamel | 35 | 357 | 55.38 | 0.27 | 0.86 |
| Mal-8-1CD-07 | 1317 | 0.267 | Enamel | 36 | 369 | 55.13 | 0.28 | 0.81 |
| Mal-8-1CD-08 | 1524 | 0.309 | Enamel | 38 | 368 | 55.06 | 0.31 | 0.89 |
| Mal-8-1CD-09 | 1731 | 0.350 | Enamel | 44 | 387 | 55.01 | 0.31 | 0.99 |
| Mal-8-1CD-10 | 1938 | 0.392 | Enamel | 46 | 409 | 54.89 | 0.35 | 0.97 |
| Mal-8-1CD-11 | 2145 | 0.434 | Enamel | 49 | 422 | 54.56 | 0.33 | 0.95 |

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|--------------|------|-------|--------|-----|-----|-------|------|------|
| Mal-8-1CD-12 | 2352 | 0.476 | Enamel | 49 | 426 | 55.60 | 0.33 | 1.04 |
| Mal-8-1CD-13 | 2559 | 0.518 | Enamel | 49 | 435 | 54.03 | 0.36 | 1.11 |
| Mal-8-1CD-14 | 2766 | 0.560 | Enamel | 50 | 434 | 55.30 | 0.34 | 1.06 |
| Mal-8-1CD-15 | 2973 | 0.602 | Enamel | 55 | 453 | 55.00 | 0.37 | 1.15 |
| Mal-8-1CD-16 | 3180 | 0.644 | Enamel | 59 | 463 | 54.89 | 0.39 | 1.25 |
| Mal-8-1CD-17 | 3387 | 0.686 | Enamel | 60 | 465 | 55.02 | 0.37 | 1.21 |
| Mal-8-1CD-18 | 3594 | 0.728 | Enamel | 65 | 493 | 55.33 | 0.37 | 1.12 |
| Mal-8-1CD-19 | 3801 | 0.769 | Enamel | 72 | 506 | 54.72 | 0.37 | 1.19 |
| Mal-8-1CD-20 | 4008 | 0.811 | Enamel | 78 | 522 | 54.47 | 0.41 | 1.32 |
| Mal-8-1CD-21 | 4215 | 0.853 | Enamel | 76 | 510 | 52.60 | 0.43 | 1.20 |
| Mal-8-1CD-23 | 4629 | 0.937 | Enamel | 86 | 537 | 53.44 | 0.45 | 1.37 |
| Mal-8-1CD-24 | 4836 | 0.979 | Enamel | 85 | 538 | 53.44 | 0.47 | 1.41 |
| Mal-8-1CD-25 | 5043 | 1.021 | Dentin | 79 | 500 | 54.95 | 0.81 | 1.28 |
| Mal-8-1CD-26 | 5250 | 1.063 | Dentin | 83 | 494 | 54.81 | 1.74 | 1.20 |
| Mal-8-1CD-27 | 5457 | 1.105 | Dentin | 87 | 481 | 53.08 | 2.45 | 1.44 |
| Mal-8-1CD-28 | 5664 | 1.147 | Dentin | 117 | 479 | 54.19 | 2.50 | 1.17 |
| Mal-8-1CD-29 | 5871 | 1.188 | Dentin | 132 | 478 | 51.99 | 2.42 | 1.42 |
| Mal-8-1CD-30 | 6078 | 1.230 | Dentin | 143 | 498 | 53.57 | 2.62 | 1.47 |
| cervical | | | | | | | | |
| Mal-8-1EF-01 | 60 | 0.023 | Cement | 380 | 482 | 54.86 | 1.23 | 1.06 |
| Mal-8-1EF-02 | 180 | 0.068 | Cement | 322 | 454 | 55.60 | 1.11 | 1.10 |
| Mal-8-1EF-03 | 300 | 0.114 | Enamel | 314 | 520 | 53.85 | 0.31 | 0.73 |
| Mal-8-1EF-04 | 420 | 0.159 | Enamel | 63 | 323 | 54.57 | 0.33 | 0.86 |
| Mal-8-1EF-05 | 540 | 0.205 | Enamel | 41 | 319 | 54.07 | 0.35 | 0.99 |
| Mal-8-1EF-06 | 660 | 0.250 | Enamel | 40 | 315 | 53.91 | 0.42 | 0.82 |
| Mal-8-1EF-07 | 780 | 0.295 | Enamel | 38 | 327 | 53.77 | 0.39 | 0.81 |
| Mal-8-1EF-08 | 900 | 0.341 | Enamel | 42 | 344 | 54.20 | 0.44 | 0.98 |
| Mal-8-1EF-09 | 1020 | 0.386 | Enamel | 45 | 365 | 54.38 | 0.39 | 1.13 |
| Mal-8-1EF-10 | 1140 | 0.432 | Enamel | 52 | 376 | 54.62 | 0.42 | 1.12 |
| Mal-8-1EF-11 | 1260 | 0.477 | Enamel | 56 | 387 | 54.20 | 0.43 | 1.13 |
| Mal-8-1EF-12 | 1380 | 0.523 | Enamel | 57 | 396 | 54.41 | 0.41 | 1.11 |
| Mal-8-1EF-13 | 1500 | 0.568 | Enamel | 61 | 414 | 53.82 | 0.41 | 1.17 |
| Mal-8-1EF-14 | 1620 | 0.614 | Enamel | 61 | 419 | 54.59 | 0.41 | 1.17 |
| Mal-8-1EF-15 | 1740 | 0.659 | Enamel | 66 | 435 | 54.95 | 0.42 | 1.29 |
| Mal-8-1EF-16 | 1860 | 0.705 | Enamel | 69 | 447 | 54.85 | 0.45 | 1.34 |
| Mal-8-1EF-17 | 1980 | 0.750 | Enamel | 69 | 457 | 54.16 | 0.39 | 1.13 |
| Mal-8-1EF-18 | 2100 | 0.795 | Enamel | 70 | 457 | 54.66 | 0.44 | 1.35 |
| Mal-8-1EF-19 | 2220 | 0.841 | Enamel | 77 | 482 | 54.72 | 0.40 | 1.29 |
| Mal-8-1EF-20 | 2340 | 0.886 | Enamel | 77 | 478 | 53.89 | 0.44 | 1.43 |
| Mal-8-1EF-21 | 2460 | 0.932 | Enamel | 75 | 485 | 55.00 | 0.48 | 1.45 |
| Mal-8-1EF-22 | 2580 | 0.977 | Enamel | 81 | 503 | 54.24 | 0.43 | 1.53 |
| Mal-8-1EF-23 | 2700 | 1.023 | Dentin | 73 | 419 | 51.04 | 2.25 | 1.37 |
| Mal-8-1EF-24 | 2820 | 1.068 | Dentin | 97 | 403 | 52.80 | 2.46 | 1.42 |
| Mal-8-1EF-25 | 2940 | 1.114 | Dentin | 119 | 400 | 53.57 | 2.88 | 1.49 |
| Mal-8-1EF-26 | 3060 | 1.159 | Dentin | 123 | 379 | 53.53 | 2.91 | 1.38 |
| Mal-8-1EF-27 | 3180 | 1.205 | Dentin | 129 | 377 | 51.49 | 3.02 | 1.32 |

| | | | | | | | | |
|--------------|-------|-------|--------|-----|-----|-------|------|------|
| Mal-8-1EF-28 | 3300 | 1.250 | Dentin | 152 | 380 | 50.90 | 3.15 | 1.47 |
| Mal-8-1EF-29 | 3420 | 1.295 | Dentin | 174 | 390 | 51.35 | 2.75 | 1.44 |
| longitudinal | | | | | | | | |
| Mal-8 L-01 | 100 | 0.410 | Enamel | 78 | 530 | 54.30 | 0.59 | 1.45 |
| Mal-8 L-02 | 600 | 0.410 | Enamel | 79 | 528 | 54.01 | 0.55 | 1.55 |
| Mal-8 L-03 | 1100 | 0.410 | Enamel | 82 | 534 | 53.75 | 0.58 | 1.49 |
| Mal-8 L-04 | 1600 | 0.410 | Enamel | 81 | 533 | 54.20 | 0.56 | 1.52 |
| Mal-8 L-05 | 2100 | 0.410 | Enamel | 79 | 524 | 54.16 | 0.56 | 1.51 |
| Mal-8 L-06 | 2600 | 0.410 | Enamel | 84 | 545 | 53.99 | 0.51 | 1.48 |
| Mal-8 L-07 | 3100 | 0.410 | Enamel | 77 | 518 | 53.88 | 0.53 | 1.53 |
| Mal-8 L-08 | 3600 | 0.410 | Enamel | 82 | 528 | 54.90 | 0.50 | 1.37 |
| Mal-8 L-09 | 4100 | 0.410 | Enamel | 74 | 500 | 54.40 | 0.48 | 1.31 |
| Mal-8 L-10 | 4600 | 0.410 | Enamel | 70 | 498 | 54.59 | 0.51 | 1.44 |
| Mal-8 L-11 | 5100 | 0.410 | Enamel | 72 | 498 | 54.55 | 0.45 | 1.30 |
| Mal-8 L-12 | 5600 | 0.410 | Enamel | 71 | 492 | 54.53 | 0.40 | 1.18 |
| Mal-8 L-13 | 6100 | 0.410 | Enamel | 74 | 494 | 54.70 | 0.42 | 1.27 |
| Mal-8 L-14 | 6600 | 0.410 | Enamel | 71 | 497 | 54.76 | 0.42 | 1.27 |
| Mal-8 L-15 | 7100 | 0.410 | Enamel | 73 | 496 | 54.79 | 0.48 | 1.50 |
| Mal-8 L-16 | 7600 | 0.410 | Enamel | 76 | 504 | 54.66 | 0.50 | 1.34 |
| Mal-8 L-17 | 8100 | 0.410 | Enamel | 73 | 487 | 54.49 | 0.43 | 1.34 |
| Mal-8 L-18 | 8600 | 0.410 | Enamel | 77 | 490 | 52.88 | 0.48 | 1.45 |
| Mal-8 L-19 | 9100 | 0.410 | Enamel | 79 | 516 | 54.59 | 0.53 | 1.31 |
| Mal-8 L-20 | 9600 | 0.410 | Enamel | 79 | 503 | 54.90 | 0.48 | 1.40 |
| Mal-8 L-21 | 10100 | 0.410 | Enamel | 81 | 509 | 54.54 | 0.51 | 1.40 |
| Mal-8 L-22 | 10600 | 0.410 | Enamel | 76 | 505 | 54.17 | 0.47 | 1.29 |
| Mal-8 L-23 | 11100 | 0.410 | Enamel | 83 | 516 | 54.89 | 0.44 | 1.36 |
| Mal-8 L-24 | 11600 | 0.410 | Enamel | 84 | 515 | 54.77 | 0.43 | 1.26 |
| Mal-8 L-25 | 12100 | 0.410 | Enamel | 80 | 518 | 54.54 | 0.45 | 1.30 |
| Mal-8 L-26 | 12600 | 0.410 | Enamel | 81 | 517 | 54.30 | 0.45 | 1.24 |
| Mal-8 L-27 | 13100 | 0.410 | Enamel | 79 | 514 | 53.58 | 0.46 | 1.40 |
| Mal-8 L-28 | 13600 | 0.410 | Enamel | 77 | 509 | 54.57 | 0.52 | 1.44 |
| Mal-8 L-29 | 14100 | 0.410 | Enamel | 79 | 509 | 54.11 | 0.43 | 1.34 |
| Mal-8 L-30 | 14600 | 0.410 | Enamel | 80 | 534 | 54.74 | 0.45 | 1.31 |
| Mal-8 L-31 | 15100 | 0.410 | Enamel | 81 | 524 | 54.77 | 0.43 | 1.42 |
| Mal-8 L-32 | 15600 | 0.410 | Enamel | 83 | 538 | 53.77 | 0.47 | 1.35 |
| Mal-8 L-33 | 16100 | 0.410 | Enamel | 82 | 542 | 54.37 | 0.46 | 1.33 |
| Mal-8 L-34 | 16600 | 0.410 | Enamel | 83 | 531 | 54.43 | 0.44 | 1.32 |
| Mal-8 L-35 | 17100 | 0.410 | Enamel | 83 | 532 | 53.29 | 0.49 | 1.32 |
| Mal-8 L-36 | 17600 | 0.410 | Enamel | 82 | 536 | 54.44 | 0.47 | 1.28 |
| Mal-8 L-37 | 18100 | 0.421 | Enamel | 86 | 539 | 54.03 | 0.49 | 1.30 |
| Mal-8 L-38 | 18600 | 0.433 | Enamel | 86 | 543 | 54.84 | 0.40 | 1.36 |
| Mal-8 L-39 | 19100 | 0.444 | Enamel | 85 | 551 | 54.82 | 0.45 | 1.20 |
| Mal-8 L-40 | 19600 | 0.456 | Enamel | 85 | 538 | 54.78 | 0.46 | 1.41 |
| Mal-8 L-41 | 20100 | 0.467 | Enamel | 87 | 545 | 54.07 | 0.43 | 1.37 |
| Mal-8 L-42 | 20600 | 0.479 | Enamel | 89 | 553 | 54.78 | 0.46 | 1.41 |

| | | | | | | | | |
|--------------------|-------|-------|--------|-----|------|-------|------|------|
| Mal-8 L-43 | 21100 | 0.491 | Enamel | 89 | 552 | 54.07 | 0.43 | 1.37 |
| Line 1 Mal8,1B MN | 21000 | 0.488 | Enamel | 147 | 733 | 53.74 | 0.58 | 1.78 |
| Line 2 Mal8,1B MN | 21500 | 0.500 | Enamel | 190 | 945 | 54.88 | 0.38 | 1.41 |
| Line 3 Mal8,1B MN | 22000 | 0.512 | Enamel | 189 | 981 | 54.48 | 0.44 | 1.36 |
| Line 4 Mal8,1B MN | 22500 | 0.523 | Enamel | 179 | 952 | 54.60 | 0.45 | 1.48 |
| Line 5 Mal8,1B MN | 23000 | 0.535 | Enamel | 172 | 915 | 54.01 | 0.40 | 1.32 |
| Line 6 Mal8,1B MN | 23501 | 0.547 | Enamel | 179 | 931 | 54.61 | 0.40 | 1.31 |
| Line 7 Mal8,1B MN | 24000 | 0.558 | Enamel | 180 | 933 | 54.80 | 0.37 | 1.27 |
| Line 8 Mal8,1B MN | 24500 | 0.570 | Enamel | 173 | 918 | 54.38 | 0.39 | 1.32 |
| Line 9 Mal8,1B MN | 25000 | 0.581 | Enamel | 175 | 932 | 54.58 | 0.40 | 1.32 |
| Line 10 Mal8,1B MN | 25500 | 0.593 | Enamel | 180 | 916 | 53.81 | 0.41 | 1.21 |
| Line 11 Mal8,1B MN | 26000 | 0.605 | Enamel | 173 | 912 | 53.98 | 0.38 | 1.16 |
| Line 1 Mal8,1B OP | 26500 | 0.616 | Enamel | 180 | 910 | 54.34 | 0.44 | 1.31 |
| Line 2 Mal8,1B OP | 27000 | 0.628 | Enamel | 188 | 931 | 54.53 | 0.41 | 1.33 |
| Line 3 Mal8,1B OP | 27500 | 0.640 | Enamel | 178 | 897 | 54.44 | 0.38 | 1.21 |
| Line 4 Mal8,1B OP | 28000 | 0.651 | Enamel | 175 | 912 | 53.84 | 0.42 | 1.33 |
| Line 5 Mal8,1B OP | 28500 | 0.663 | Enamel | 168 | 884 | 54.32 | 0.45 | 1.38 |
| Line 6 Mal8,1B OP | 29000 | 0.674 | Enamel | 156 | 870 | 53.94 | 0.44 | 1.32 |
| Line 7 Mal8,1B OP | 29500 | 0.686 | Enamel | 155 | 857 | 55.27 | 0.41 | 1.35 |
| Line 8 Mal8,1B OP | 30000 | 0.698 | Enamel | 165 | 896 | 54.55 | 0.41 | 1.46 |
| Line 9 Mal8,1B OP | 30500 | 0.709 | Enamel | 159 | 905 | 54.08 | 0.39 | 1.29 |
| Line 10 Mal8,1B OP | 31000 | 0.721 | Enamel | 170 | 891 | 53.41 | 0.36 | 1.38 |
| Line 1 Mal8,1B QR | 31500 | 0.733 | Enamel | 190 | 918 | 54.07 | 0.35 | 1.33 |
| Line 2 Mal8,1B QR | 32000 | 0.744 | Enamel | 173 | 909 | 52.93 | 0.40 | 1.33 |
| Line 3 Mal8,1B QR | 32500 | 0.756 | Enamel | 196 | 929 | 52.87 | 0.43 | 1.38 |
| Line 4 Mal8,1B QR | 33000 | 0.767 | Enamel | 210 | 941 | 53.68 | 0.44 | 1.34 |
| Line 5 Mal8,1B QR | 33500 | 0.779 | Enamel | 226 | 951 | 53.79 | 0.49 | 1.51 |
| Line 6 Mal8,1B QR | 34000 | 0.791 | Enamel | 226 | 944 | 53.58 | 0.39 | 1.41 |
| Line 7 Mal8,1B QR | 34500 | 0.802 | Enamel | 237 | 963 | 53.62 | 0.41 | 1.37 |
| Line 8 Mal8,1B QR | 35000 | 0.814 | Enamel | 244 | 1030 | 54.10 | 0.36 | 1.44 |
| Line 9 Mal8,1B QR | 35500 | 0.826 | Enamel | 206 | 992 | 53.80 | 0.40 | 1.44 |
| Line 10 Mal8,1B QR | 36000 | 0.837 | Enamel | 202 | 955 | 53.91 | 0.39 | 1.46 |
| Line 11 Mal8,1B QR | 36500 | 0.849 | Enamel | 186 | 928 | 54.21 | 0.42 | 1.36 |
| Line 12 Mal8,1B QR | 37000 | 0.860 | Enamel | 188 | 921 | 53.79 | 0.42 | 1.15 |
| Line 13 Mal8,1B QR | 37500 | 0.872 | Enamel | 186 | 904 | 54.20 | 0.42 | 1.43 |
| Line 1 Mal8,1B ST | 38000 | 0.884 | Enamel | 176 | 861 | 54.39 | 0.44 | 1.25 |
| Line 2 Mal8,1B ST | 38500 | 0.895 | Enamel | 190 | 858 | 53.18 | 0.46 | 1.32 |
| Line 3 Mal8,1B ST | 39000 | 0.907 | Enamel | 191 | 865 | 53.99 | 0.40 | 1.34 |
| Line 4 Mal8,1B ST | 39500 | 0.919 | Enamel | 206 | 890 | 54.25 | 0.39 | 1.43 |
| Line 5 Mal8,1B ST | 40000 | 0.930 | Enamel | 175 | 886 | 53.71 | 0.42 | 1.28 |
| Line 6 Mal8,1B ST | 40500 | 0.942 | Enamel | 158 | 855 | 54.21 | 0.40 | 1.25 |
| Line 7 Mal8,1B ST | 41000 | 0.953 | Enamel | 164 | 871 | 54.30 | 0.39 | 1.31 |
| Line 8 Mal8,1B ST | 41500 | 0.965 | Enamel | 160 | 871 | 54.33 | 0.38 | 1.45 |
| Line 9 Mal8,1B ST | 42000 | 0.977 | Enamel | 158 | 875 | 55.24 | 0.43 | 1.49 |
| Line 10 Mal8,1B ST | 42500 | 0.988 | Cement | 130 | 712 | 52.56 | 1.15 | 1.14 |

| Sample | Distance μm | Distance Norm | Mineral | Ba $\mu\text{g/g}$ | Sr $\mu\text{g/g}$ | CaO wt.% | MgO wt.% | Na ₂ O wt.% |
|---------------|-------------------------|--|---------|--|--------------------|----------|----------|------------------------|
| <i>Mal167</i> | <i>Hippopotamus sp.</i> | <i>Fossil Malawi, Chiwondo Bed, Unit 3, 2- Premolar 1.5 Ma</i> | | <i>Collection of the Senckenberg Museum, Frankfurt</i> | | | | |
| central | | | | | | | | |
| Mal167-2CD-01 | 50 | 0.018 | Enamel | 360 | 672 | 53.00 | 0.22 | 0.66 |
| Mal167-2CD-02 | 107 | 0.039 | Enamel | 1960 | 1065 | 54.37 | 0.23 | 0.62 |
| Mal167-2CD-03 | 214 | 0.078 | Enamel | 290 | 714 | 54.83 | 0.24 | 0.72 |
| Mal167-2CD-04 | 321 | 0.118 | Enamel | 338 | 786 | 54.78 | 0.27 | 0.72 |
| Mal167-2CD-05 | 428 | 0.157 | Enamel | 361 | 799 | 54.98 | 0.30 | 0.67 |
| Mal167-2CD-06 | 535 | 0.196 | Enamel | 385 | 806 | 55.19 | 0.28 | 0.71 |
| Mal167-2CD-07 | 642 | 0.235 | Enamel | 380 | 768 | 54.91 | 0.26 | 0.68 |
| Mal167-2CD-08 | 749 | 0.274 | Enamel | 389 | 807 | 54.73 | 0.25 | 0.79 |
| Mal167-2CD-09 | 856 | 0.314 | Enamel | 409 | 841 | 55.23 | 0.22 | 0.78 |
| Mal167-2CD-10 | 963 | 0.353 | Enamel | 460 | 890 | 55.23 | 0.25 | 0.80 |
| Mal167-2CD-11 | 1070 | 0.392 | Enamel | 492 | 920 | 54.92 | 0.23 | 0.82 |
| Mal167-2CD-12 | 1177 | 0.431 | Enamel | 503 | 931 | 54.80 | 0.26 | 0.79 |
| Mal167-2CD-13 | 1284 | 0.470 | Enamel | 516 | 954 | 55.28 | 0.23 | 0.88 |
| Mal167-2CD-14 | 1391 | 0.510 | Enamel | 510 | 936 | 54.74 | 0.28 | 0.93 |
| Mal167-2CD-15 | 1498 | 0.549 | Enamel | 551 | 975 | 54.87 | 0.27 | 0.91 |
| Mal167-2CD-16 | 1605 | 0.588 | Enamel | 575 | 994 | 55.17 | 0.25 | 1.01 |
| Mal167-2CD-17 | 1712 | 0.627 | Enamel | 595 | 985 | 55.54 | 0.28 | 0.93 |
| Mal167-2CD-18 | 1819 | 0.666 | Enamel | 577 | 979 | 55.00 | 0.28 | 1.01 |
| Mal167-2CD-19 | 1926 | 0.705 | Enamel | 641 | 1030 | 55.56 | 0.29 | 1.06 |
| Mal167-2CD-20 | 2033 | 0.745 | Enamel | 613 | 1009 | 55.11 | 0.30 | 1.12 |
| Mal167-2CD-21 | 2140 | 0.784 | Enamel | 581 | 997 | 55.16 | 0.30 | 1.07 |
| Mal167-2CD-22 | 2247 | 0.823 | Enamel | 566 | 1005 | 55.47 | 0.32 | 1.08 |
| Mal167-2CD-23 | 2354 | 0.862 | Enamel | 530 | 954 | 54.96 | 0.36 | 1.15 |
| Mal167-2CD-24 | 2461 | 0.901 | Enamel | 533 | 938 | 55.16 | 0.32 | 1.23 |
| Mal167-2CD-25 | 2568 | 0.941 | Enamel | 527 | 923 | 54.80 | 0.35 | 1.34 |
| Mal167-2CD-26 | 2675 | 0.980 | Enamel | 1954 | 868 | 54.89 | 0.37 | 1.47 |
| Mal167-2CD-27 | 2782 | 1.019 | Dentin | 3427 | 758 | 58.16 | 0.13 | 0.53 |
| Mal167-2CD-28 | 2889 | 1.058 | Dentin | 390 | 773 | 57.93 | 0.17 | 0.58 |
| Mal167-2CD-29 | 2996 | 1.097 | Dentin | 824 | 843 | 57.32 | 0.12 | 0.58 |
| Mal167-2CD-30 | 3103 | 1.137 | Dentin | 4380 | 913 | 57.50 | 0.14 | 0.56 |
| cervical | | | | | | | | |
| Mal167-3EF-01 | 50 | 0.021 | Enamel | 299 | 589 | 56.43 | 0.18 | 0.57 |
| Mal167-3EF-02 | 98 | 0.041 | Enamel | 317 | 620 | 55.53 | 0.33 | 0.93 |
| Mal167-3EF-03 | 196 | 0.082 | Enamel | 372 | 776 | 54.83 | 0.27 | 0.74 |
| Mal167-3EF-04 | 294 | 0.123 | Enamel | 387 | 801 | 55.04 | 0.26 | 0.67 |
| Mal167-3EF-05 | 392 | 0.163 | Enamel | 425 | 811 | 55.19 | 0.27 | 0.79 |
| Mal167-3EF-06 | 490 | 0.204 | Enamel | 494 | 841 | 54.98 | 0.28 | 0.73 |
| Mal167-3EF-07 | 588 | 0.245 | Enamel | 579 | 873 | 55.15 | 0.24 | 0.84 |
| Mal167-3EF-08 | 686 | 0.286 | Enamel | 605 | 876 | 55.06 | 0.26 | 0.82 |

| | | | | | | | | |
|---------------|------|-------|--------|------|------|-------|------|------|
| Mal167-3EF-09 | 784 | 0.327 | Enamel | 592 | 880 | 54.97 | 0.27 | 0.84 |
| Mal167-3EF-10 | 882 | 0.368 | Enamel | 508 | 902 | 54.76 | 0.25 | 0.90 |
| Mal167-3EF-11 | 980 | 0.408 | Enamel | 509 | 915 | 55.16 | 0.28 | 0.85 |
| Mal167-3EF-12 | 1078 | 0.449 | Enamel | 663 | 911 | 55.15 | 0.27 | 0.90 |
| Mal167-3EF-13 | 1176 | 0.490 | Enamel | 1046 | 923 | 55.00 | 0.29 | 0.89 |
| Mal167-3EF-14 | 1274 | 0.531 | Enamel | 1308 | 935 | 55.00 | 0.27 | 0.92 |
| Mal167-3EF-15 | 1372 | 0.572 | Enamel | 911 | 941 | 54.97 | 0.28 | 0.87 |
| Mal167-3EF-16 | 1470 | 0.613 | Enamel | 570 | 976 | 55.26 | 0.28 | 1.00 |
| Mal167-3EF-17 | 1568 | 0.653 | Enamel | 559 | 988 | 54.90 | 0.27 | 0.95 |
| Mal167-3EF-18 | 1666 | 0.694 | Enamel | 587 | 1003 | 55.26 | 0.28 | 1.02 |
| Mal167-3EF-19 | 1764 | 0.735 | Enamel | 594 | 1008 | 55.06 | 0.28 | 1.09 |
| Mal167-3EF-20 | 1862 | 0.776 | Enamel | 650 | 1042 | 54.93 | 0.31 | 1.14 |
| Mal167-3EF-21 | 1960 | 0.817 | Enamel | 703 | 1088 | 55.06 | 0.33 | 1.12 |
| Mal167-3EF-22 | 2058 | 0.858 | Enamel | 718 | 1094 | 55.35 | 0.35 | 1.16 |
| Mal167-3EF-23 | 2156 | 0.898 | Enamel | 747 | 1109 | 55.26 | 0.33 | 1.20 |
| Mal167-3EF-24 | 2254 | 0.939 | Enamel | 756 | 1112 | 55.16 | 0.31 | 1.25 |
| Mal167-3EF-25 | 2352 | 0.980 | Enamel | 671 | 1034 | 54.95 | 0.30 | 1.41 |
| Mal167-3EF-26 | 2450 | 1.021 | Dentin | 390 | 915 | 57.93 | 0.18 | 0.63 |
| Mal167-3EF-27 | 2548 | 1.062 | Dentin | 415 | 947 | 58.36 | 0.14 | 0.63 |
| Mal167-3EF-28 | 2646 | 1.103 | Dentin | 444 | 1012 | 58.38 | 0.15 | 0.66 |
| Mal167-3EF-29 | 2744 | 1.143 | Dentin | 437 | 1003 | 58.00 | 0.13 | 0.62 |
| Mal167-3EF-30 | 2842 | 1.184 | Dentin | 410 | 961 | 55.12 | 0.16 | 0.61 |
| apical | | | | | | | | |
| Mal167-1AB-01 | 50 | 0.016 | Enamel | 478 | 1175 | 54.67 | 0.25 | 0.59 |
| Mal167-1AB-02 | 122 | 0.039 | Enamel | 294 | 680 | 54.68 | 0.29 | 0.67 |
| Mal167-1AB-03 | 244 | 0.078 | Enamel | 282 | 655 | 54.59 | 0.31 | 0.68 |
| Mal167-1AB-04 | 366 | 0.118 | Enamel | 306 | 655 | 54.68 | 0.28 | 0.71 |
| Mal167-1AB-05 | 488 | 0.157 | Enamel | 341 | 704 | 54.49 | 0.27 | 0.86 |
| Mal167-1AB-06 | 610 | 0.196 | Enamel | 386 | 699 | 55.06 | 0.23 | 0.80 |
| Mal167-1AB-07 | 732 | 0.235 | Enamel | 310 | 705 | 54.80 | 0.26 | 0.83 |
| Mal167-1AB-08 | 854 | 0.275 | Enamel | 352 | 747 | 54.77 | 0.27 | 0.84 |
| Mal167-1AB-09 | 976 | 0.314 | Enamel | 432 | 854 | 54.25 | 0.26 | 0.83 |
| Mal167-1AB-10 | 1098 | 0.353 | Enamel | 478 | 877 | 54.69 | 0.27 | 0.79 |
| Mal167-1AB-11 | 1220 | 0.392 | Enamel | 507 | 894 | 54.86 | 0.27 | 0.86 |
| Mal167-1AB-12 | 1342 | 0.432 | Enamel | 521 | 894 | 54.98 | 0.26 | 0.90 |
| Mal167-1AB-13 | 1464 | 0.471 | Enamel | 538 | 907 | 54.55 | 0.26 | 0.92 |
| Mal167-1AB-14 | 1586 | 0.510 | Enamel | 545 | 915 | 54.75 | 0.31 | 0.93 |
| Mal167-1AB-15 | 1708 | 0.549 | Enamel | 538 | 930 | 54.94 | 0.30 | 0.91 |
| Mal167-1AB-16 | 1830 | 0.588 | Enamel | 550 | 861 | 54.59 | 0.29 | 0.95 |
| Mal167-1AB-17 | 1952 | 0.628 | Enamel | 475 | 885 | 54.89 | 0.31 | 1.01 |
| Mal167-1AB-18 | 2074 | 0.667 | Enamel | 496 | 903 | 54.66 | 0.30 | 1.07 |
| Mal167-1AB-19 | 2196 | 0.706 | Enamel | 614 | 956 | 54.64 | 0.29 | 1.08 |
| Mal167-1AB-20 | 2318 | 0.745 | Enamel | 558 | 1042 | 54.73 | 0.33 | 1.06 |
| Mal167-1AB-21 | 2440 | 0.785 | Enamel | 971 | 1083 | 54.94 | 0.32 | 1.07 |
| Mal167-1AB-22 | 2562 | 0.824 | Enamel | 676 | 1101 | 54.87 | 0.33 | 1.11 |

| | | | | | | | | |
|---------------|------|-------|--------|------|------|-------|------|------|
| Mal167-1AB-23 | 2684 | 0.863 | Enamel | 624 | 1125 | 54.58 | 0.34 | 1.14 |
| Mal167-1AB-24 | 2806 | 0.902 | Enamel | 618 | 1150 | 54.83 | 0.34 | 1.29 |
| Mal167-1AB-25 | 2928 | 0.941 | Enamel | 636 | 1132 | 54.99 | 0.37 | 1.23 |
| Mal167-1AB-26 | 3050 | 0.981 | Enamel | 656 | 1148 | 54.99 | 0.35 | 1.32 |
| Mal167-1AB-27 | 3172 | 1.020 | Dentin | 2843 | 1049 | 57.29 | 0.15 | 0.56 |
| Mal167-1AB-28 | 3294 | 1.059 | Dentin | 3641 | 985 | 56.93 | 0.15 | 0.55 |
| Mal167-1AB-29 | 3416 | 1.098 | Dentin | 1702 | 1001 | 57.42 | 0.13 | 0.61 |
| Mal167-1AB-30 | 3538 | 1.138 | Dentin | 1904 | 1035 | 57.94 | 0.11 | 0.52 |

| Sample | Distance μm | Distance Norm | Mineral | Ba $\mu\text{g/g}$ | Sr $\mu\text{g/g}$ | CaO wt.% | MgO wt.% | Na ₂ O wt.% |
|---------------|-------------------------------|---------------|---------|--------------------|-----------------------------|----------|----------|------------------------|
| Alb10 | <i>Hippopotamus amphibius</i> | | | Premolar | Lake Albert, Sebugoro Beach | | | |
| core apical | | | | | | | | |
| Alb10-1 AB-01 | 30 | 0.024 | Enamel | 163 | 401 | 54.25 | 0.40 | 0.79 |
| Alb10-1 AB-03 | 110 | 0.087 | Enamel | 150 | 411 | 54.52 | 0.39 | 0.79 |
| Alb10-1 AB-05 | 220 | 0.174 | Enamel | 147 | 422 | 54.83 | 0.40 | 0.81 |
| Alb10-1 AB-07 | 330 | 0.261 | Enamel | 161 | 450 | 54.86 | 0.41 | 0.77 |
| Alb10-1 AB-09 | 440 | 0.348 | Enamel | 162 | 448 | 54.44 | 0.39 | 0.86 |
| Alb10-1 AB-11 | 550 | 0.435 | Enamel | 164 | 461 | 54.92 | 0.44 | 0.90 |
| Alb10-1 AB-13 | 660 | 0.522 | Enamel | 180 | 466 | 54.55 | 0.44 | 0.92 |
| Alb10-1 AB-15 | 770 | 0.609 | Enamel | 179 | 453 | 54.65 | 0.46 | 1.04 |
| Alb10-1 AB-17 | 880 | 0.696 | Enamel | 208 | 479 | 54.61 | 0.43 | 1.09 |
| Alb10-1 AB-19 | 990 | 0.783 | Enamel | 237 | 503 | 54.80 | 0.44 | 1.09 |
| Alb10-1 AB-21 | 1100 | 0.870 | Enamel | 252 | 519 | 54.64 | 0.41 | 1.22 |
| Alb10-1 AB-23 | 1210 | 0.957 | Enamel | 295 | 551 | 54.21 | 0.52 | 1.32 |
| Alb10-1 AB-25 | 1320 | 1.043 | Dentin | 351 | 452 | 55.74 | 3.04 | 0.93 |
| Alb10-1 AB-27 | 1430 | 1.130 | Dentin | 349 | 436 | 54.76 | 3.43 | 1.14 |
| Alb10-1 AB-29 | 1540 | 1.217 | Dentin | 323 | 412 | 54.16 | 3.73 | 1.10 |
| core cervical | | | | | | | | |
| Alb10-2 AB-01 | 30 | 0.025 | Enamel | 230 | 415 | 54.52 | 0.34 | 0.74 |
| Alb10-2 AB-03 | 104 | 0.087 | Enamel | 167 | 411 | 54.52 | 0.36 | 0.73 |
| Alb10-2 AB-05 | 208 | 0.173 | Enamel | 153 | 416 | 54.70 | 0.36 | 0.75 |
| Alb10-2 AB-07 | 312 | 0.260 | Enamel | 165 | 438 | 54.36 | 0.36 | 0.81 |
| Alb10-2 AB-09 | 416 | 0.347 | Enamel | 173 | 454 | 54.51 | 0.35 | 0.80 |
| Alb10-2 AB-11 | 520 | 0.433 | Enamel | 169 | 456 | 54.46 | 0.42 | 0.91 |
| Alb10-2 AB-13 | 624 | 0.520 | Enamel | 176 | 466 | 54.47 | 0.43 | 0.91 |
| Alb10-2 AB-15 | 728 | 0.607 | Enamel | 191 | 464 | 54.31 | 0.51 | 1.10 |
| Alb10-2 AB-17 | 832 | 0.693 | Enamel | 200 | 480 | 54.46 | 0.48 | 1.07 |
| Alb10-2 AB-19 | 936 | 0.780 | Enamel | 230 | 501 | 53.90 | 0.48 | 1.17 |
| Alb10-2 AB-21 | 1040 | 0.867 | Enamel | 260 | 540 | 54.44 | 0.47 | 1.18 |
| Alb10-2 AB-23 | 1144 | 0.953 | Enamel | 355 | 519 | 53.98 | 0.57 | 1.40 |
| Alb10-2 AB-25 | 1248 | 1.040 | Dentin | 362 | 441 | 56.05 | 3.31 | 0.92 |
| Alb10-2 AB-27 | 1352 | 1.127 | Dentin | 297 | 374 | 51.61 | 3.43 | 1.15 |
| Alb10-2 AB-29 | 1456 | 1.213 | Dentin | 323 | 420 | 52.40 | 3.56 | 1.04 |
| apical | | | | | | | | |
| Alb10 1AB-01 | 50 | 0.030 | Enamel | 141 | 360 | 52.69 | 0.37 | 0.82 |
| Alb10 1AB-03 | 178 | 0.108 | Enamel | 132 | 369 | 53.43 | 0.38 | 0.84 |
| Alb10 1AB-05 | 306 | 0.185 | Enamel | 141 | 393 | 54.80 | 0.35 | 0.88 |
| Alb10 1AB-07 | 434 | 0.263 | Enamel | 139 | 392 | 53.83 | 0.41 | 0.88 |
| Alb10 1AB-09 | 562 | 0.341 | Enamel | 145 | 398 | 54.41 | 0.43 | 0.90 |
| Alb10 1AB-11 | 690 | 0.418 | Enamel | 162 | 407 | 54.16 | 0.39 | 0.91 |
| Alb10 1AB-13 | 818 | 0.496 | Enamel | 181 | 428 | 54.33 | 0.44 | 0.92 |
| Alb10 1AB-15 | 946 | 0.573 | Enamel | 198 | 441 | 54.09 | 0.46 | 0.96 |
| Alb10 1AB-19 | 1202 | 0.728 | Enamel | 278 | 505 | 53.91 | 0.53 | 0.98 |
| Alb10 1AB-21 | 1330 | 0.806 | Enamel | 291 | 508 | 53.32 | 0.53 | 1.16 |
| Alb10 1AB-23 | 1458 | 0.884 | Enamel | 339 | 508 | 53.25 | 0.63 | 1.32 |
| Alb10 1AB-25 | 1586 | 0.961 | Enamel | 428 | 514 | 52.47 | 0.60 | 1.45 |
| Alb10 1AB-27 | 1714 | 1.039 | Dentin | 333 | 404 | 52.47 | 2.79 | 0.98 |
| Alb10 1AB-29 | 1842 | 1.116 | Dentin | 297 | 371 | 51.22 | 3.01 | 1.16 |

cervical

| | | | | | | | | |
|--------------|------|-------|--------|-----|-----|-------|------|------|
| Alb10 5AB-01 | 50 | 0.045 | Enamel | 121 | 325 | 52.78 | 0.25 | 0.65 |
| Alb10 5AB-03 | 150 | 0.136 | Enamel | 129 | 352 | 52.87 | 0.32 | 0.74 |
| Alb10 5AB-05 | 250 | 0.227 | Enamel | 140 | 370 | 52.69 | 0.31 | 0.90 |
| Alb10 5AB-07 | 350 | 0.318 | Enamel | 156 | 404 | 53.53 | 0.36 | 0.81 |
| Alb10 5AB-09 | 450 | 0.409 | Enamel | 169 | 413 | 52.80 | 0.36 | 0.93 |
| Alb10 5AB-11 | 550 | 0.500 | Enamel | 174 | 425 | 53.14 | 0.37 | 1.00 |
| Alb10 5AB-13 | 650 | 0.591 | Enamel | 186 | 443 | 52.95 | 0.41 | 1.11 |
| Alb10 5AB-15 | 750 | 0.682 | Enamel | 192 | 445 | 52.34 | 0.41 | 1.23 |
| Alb10 5AB-17 | 850 | 0.773 | Enamel | 233 | 479 | 52.46 | 0.41 | 1.22 |
| Alb10 5AB-19 | 950 | 0.864 | Enamel | 255 | 506 | 52.44 | 0.48 | 1.39 |
| Alb10 5AB-21 | 1050 | 0.955 | Enamel | 247 | 523 | 52.31 | 0.50 | 1.43 |
| Alb10 5AB-23 | 1150 | 1.045 | Dentin | 270 | 393 | 51.80 | 3.31 | 1.14 |
| Alb10 5AB-25 | 1250 | 1.136 | Dentin | 323 | 382 | 49.87 | 3.63 | 1.19 |
| Alb10 5AB-27 | 1350 | 1.227 | Dentin | 331 | 362 | 48.15 | 3.77 | 1.16 |
| Alb10 5AB-29 | 1450 | 1.318 | Dentin | 318 | 371 | 49.61 | 3.82 | 1.11 |

longitudinal

| | | | | | | | | |
|-------------|------|-------|--------|-----|-----|-------|------|------|
| Alb10 L1-01 | 100 | 0.012 | Cement | 555 | 447 | 56.39 | 1.48 | 0.72 |
| Alb10 L1-02 | 400 | 0.048 | Cement | 563 | 449 | 56.68 | 1.37 | 0.81 |
| Alb10 L1-03 | 700 | 0.084 | Cement | 626 | 450 | 56.18 | 1.58 | 0.88 |
| Alb10 L1-04 | 1000 | 0.120 | Enamel | 227 | 453 | 53.21 | 0.61 | 1.43 |
| Alb10 L1-05 | 1300 | 0.157 | Enamel | 225 | 473 | 53.53 | 0.45 | 1.45 |
| Alb10 L1-06 | 1600 | 0.193 | Enamel | 226 | 481 | 52.61 | 0.44 | 1.27 |
| Alb10 L1-07 | 1900 | 0.229 | Enamel | 253 | 501 | 53.62 | 0.43 | 1.32 |
| Alb10 L1-08 | 2200 | 0.265 | Enamel | 268 | 508 | 53.27 | 0.48 | 1.29 |
| Alb10 L1-09 | 2500 | 0.301 | Enamel | 246 | 497 | 52.84 | 0.63 | 1.36 |
| Alb10 L1-10 | 2800 | 0.337 | Enamel | 241 | 501 | 52.61 | 0.43 | 1.30 |
| Alb10 L1-11 | 3100 | 0.373 | Enamel | 224 | 482 | 52.87 | 0.42 | 1.38 |
| Alb10 L1-12 | 3400 | 0.410 | Enamel | 208 | 478 | 53.75 | 0.43 | 1.39 |
| Alb10 L1-13 | 3700 | 0.446 | Enamel | 206 | 472 | 52.60 | 0.51 | 1.38 |
| Alb10 L1-14 | 4000 | 0.482 | Enamel | 207 | 479 | 53.27 | 0.43 | 1.25 |
| Alb10 L1-15 | 4300 | 0.518 | Enamel | 214 | 490 | 53.64 | 0.46 | 1.34 |
| Alb10 L1-16 | 4600 | 0.554 | Enamel | 200 | 466 | 52.51 | 0.56 | 1.44 |
| Alb10 L1-17 | 4900 | 0.590 | Enamel | 197 | 466 | 53.48 | 0.56 | 1.44 |
| Alb10 L1-18 | 5200 | 0.627 | Enamel | 203 | 471 | 53.66 | 0.50 | 1.33 |
| Alb10 L1-19 | 5500 | 0.663 | Enamel | 215 | 478 | 53.25 | 0.45 | 1.32 |
| Alb10 L1-20 | 5800 | 0.699 | Enamel | 221 | 473 | 53.36 | 0.43 | 1.32 |
| Alb10 L1-21 | 6100 | 0.735 | Enamel | 220 | 480 | 54.04 | 0.45 | 1.31 |
| Alb10 L1-22 | 6400 | 0.771 | Enamel | 218 | 472 | 53.47 | 0.48 | 1.38 |
| Alb10 L1-23 | 6700 | 0.807 | Enamel | 221 | 474 | 53.69 | 0.45 | 1.34 |
| Alb10 L1-24 | 7000 | 0.843 | Enamel | 214 | 457 | 53.49 | 0.58 | 1.25 |
| Alb10 L1-25 | 7300 | 0.880 | Enamel | 205 | 453 | 53.85 | 0.42 | 1.29 |
| Alb10 L1-26 | 7600 | 0.916 | Enamel | 210 | 466 | 54.15 | 0.52 | 1.21 |
| Alb10 L1-27 | 7900 | 0.952 | Enamel | 208 | 453 | 53.48 | 0.44 | 1.18 |

| Sample | Distance µm | Distance Norm | Mineral | Ba µg/g | Sr µg/g | CaO wt.% | MgO wt.% | Na ₂ O wt.% |
|--------------------|------------------------|----------------------------|-------------------|---|---------|-------------|-------------|---------------------------|
| Cat# 019-06 | <i>Hippopotamus sp</i> | Lake Albert, Nkondo Fm. | Molar fragment | Surface Find; E30.882052; N1.406682895 | | | | |
| cervical | | | | | | | | |
| 1906-2AB-01 | 50 | 0.024 | Enamel | 727 | 589 | 54.32 | 0.12 | 0.53 |
| 1906-2AB-02 | 137 | 0.065 | Enamel | 695 | 331 | 55.13 | 0.17 | 0.72 |
| 1906-2AB-03 | 274 | 0.129 | Enamel | 495 | 260 | 55.55 | 0.17 | 0.74 |
| 1906-2AB-04 | 411 | 0.194 | Enamel | 402 | 257 | 55.44 | 0.20 | 0.90 |
| 1906-2AB-05 | 548 | 0.258 | Enamel | 444 | 283 | 55.50 | 0.17 | 0.76 |
| 1906-2AB-06 | 685 | 0.323 | Enamel | 465 | 310 | 55.41 | 0.22 | 0.71 |
| 1906-2AB-07 | 822 | 0.388 | Enamel | 501 | 318 | 54.49 | 0.24 | 0.85 |
| 1906-2AB-08 | 959 | 0.452 | Enamel | 507 | 323 | 55.12 | 0.23 | 0.98 |
| 1906-2AB-09 | 1096 | 0.517 | Enamel | 542 | 332 | 54.95 | 0.17 | 0.97 |
| 1906-2AB-10 | 1233 | 0.582 | Enamel | 561 | 343 | 55.41 | 0.21 | 0.99 |
| 1906-2AB-11 | 1370 | 0.646 | Enamel | 593 | 354 | 54.95 | 0.22 | 1.08 |
| 1906-2AB-12 | 1507 | 0.711 | Enamel | 642 | 373 | 54.97 | 0.23 | 1.09 |
| 1906-2AB-13 | 1644 | 0.775 | Enamel | 589 | 371 | 55.13 | 0.22 | 1.09 |
| 1906-2AB-14 | 1781 | 0.840 | Enamel | 577 | 355 | 55.02 | 0.24 | 1.21 |
| 1906-2AB-15 | 1918 | 0.905 | Enamel | 580 | 345 | 55.27 | 0.28 | 1.14 |
| 1906-2AB-16 | 2055 | 0.969 | Enamel | 577 | 347 | 54.65 | 0.31 | 1.24 |
| 1906-2AB-17 | 2192 | 1.034 | Dentin | 1046 | 1618 | 54.49 | 0.20 | 0.40 |
| 1906-2AB-18 | 2329 | 1.099 | Dentin | 1113 | 1831 | 54.12 | 0.23 | 0.47 |
| 1906-2AB-19 | 2466 | 1.163 | Dentin | 1109 | 1809 | 54.56 | 0.25 | 0.36 |
| 1906-2AB-20 | 2603 | 1.228 | Dentin | 1111 | 1832 | 54.31 | 0.15 | 0.38 |
| apical | | | | | | | | |
| 1906-1AB-02 | 2620 | 0.936 | Enamel | 661 | 370 | 56.10 | 0.10 | 0.73 |
| 1906-1AB-03 | 2489 | 0.889 | Enamel | 551 | 298 | 55.21 | 0.16 | 0.76 |
| 1906-1AB-04 | 2358 | 0.842 | Enamel | 449 | 277 | 56.03 | 0.15 | 0.80 |
| 1906-1AB-05 | 2227 | 0.795 | Enamel | 449 | 285 | 55.29 | 0.22 | 0.81 |
| 1906-1AB-06 | 2096 | 0.749 | Enamel | 426 | 292 | 55.79 | 0.25 | 0.84 |
| 1906-1AB-07 | 1965 | 0.702 | Enamel | 452 | 296 | 55.36 | 0.21 | 0.84 |
| 1906-1AB-08 | 1834 | 0.655 | Enamel | 470 | 300 | 55.64 | 0.18 | 0.85 |
| 1906-1AB-09 | 1703 | 0.608 | Enamel | 520 | 312 | 55.93 | 0.20 | 0.92 |
| 1906-1AB-10 | 1572 | 0.561 | Enamel | 541 | 318 | 56.04 | 0.18 | 0.93 |
| 1906-1AB-11 | 1441 | 0.515 | Enamel | 526 | 332 | 55.94 | 0.16 | 0.95 |
| 1906-1AB-12 | 1310 | 0.468 | Riss | 439 | 308 | 56.05 | 0.15 | 1.09 |
| 1906-1AB-13 | 1179 | 0.421 | Riss | 1672 | 406 | 55.37 | 0.17 | 0.90 |
| 1906-1AB-14 | 1048 | 0.374 | Enamel | 549 | 382 | 55.82 | 0.16 | 0.93 |
| 1906-1AB-15 | 917 | 0.328 | Enamel | 575 | 348 | 55.09 | 0.14 | 0.84 |
| 1906-1AB-16 | 786 | 0.281 | Enamel | 581 | 339 | 56.11 | 0.19 | 0.95 |
| 1906-1AB-17 | 655 | 0.234 | Enamel | 530 | 301 | 55.80 | 0.15 | 0.89 |
| 1906-1AB-18 | 524 | 0.187 | Enamel | 481 | 287 | 56.20 | 0.19 | 0.81 |
| 1906-1AB-19 | 393 | 0.140 | Enamel | 485 | 299 | 56.29 | 0.16 | 0.78 |
| 1906-1AB-20 | 262 | 0.094 | Enamel | 495 | 314 | 55.31 | 0.17 | 0.86 |

| | | | | | | | | |
|-------------|------|-------|--------|--------|------|-------|------|------|
| 1906-1AB-21 | 131 | 0.047 | Enamel | 509 | 345 | 55.40 | 0.16 | 0.91 |
| 1906-1AB-22 | 50 | 0.011 | Riss | 301952 | 8393 | 55.29 | 0.17 | 0.76 |
| 1906-1AB-23 | 131 | 0.069 | Enamel | 1091 | 337 | 55.72 | 0.22 | 0.71 |
| 1906-1AB-24 | 262 | 0.138 | Enamel | 527 | 294 | 54.94 | 0.19 | 0.77 |
| 1906-1AB-25 | 393 | 0.207 | Enamel | 511 | 299 | 55.22 | 0.17 | 0.76 |
| 1906-1AB-26 | 524 | 0.276 | Enamel | 558 | 306 | 55.86 | 0.15 | 0.88 |
| 1906-1AB-27 | 655 | 0.345 | Enamel | 612 | 327 | 55.17 | 0.18 | 0.96 |
| 1906-1AB-28 | 786 | 0.414 | Enamel | 663 | 339 | 55.51 | 0.19 | 0.94 |
| 1906-1AB-29 | 917 | 0.483 | Enamel | 666 | 342 | 55.64 | 0.15 | 0.95 |
| 1906-1AB-30 | 1048 | 0.552 | Enamel | 723 | 358 | 55.20 | 0.20 | 1.08 |

Cat# 053-06 *Hippopotamus sp* Lake Albert, Kaiso Village Fm. Molar fragment Surface Find; E30.96475396; N1.52576142

apical

| | | | | | | | | |
|-------------|------|-------|--------|------|------|-------|------|------|
| 5306-1AB-01 | 50 | 0.021 | Cement | 901 | 1337 | 48.90 | 0.26 | 0.47 |
| 5306-1AB-02 | 107 | 0.045 | Cement | 283 | 401 | 51.31 | 0.24 | 0.44 |
| 5306-1AB-03 | 214 | 0.089 | Cement | 222 | 349 | 50.16 | 0.25 | 0.45 |
| 5306-1AB-04 | 321 | 0.134 | Cement | 195 | 344 | 50.00 | 0.26 | 0.51 |
| 5306-1AB-05 | 428 | 0.178 | Cement | 206 | 361 | 51.48 | 0.26 | 0.44 |
| 5306-1AB-06 | 535 | 0.223 | Enamel | 216 | 382 | 53.88 | 0.35 | 0.84 |
| 5306-1AB-07 | 642 | 0.268 | Enamel | 220 | 397 | 53.96 | 0.34 | 0.96 |
| 5306-1AB-08 | 749 | 0.312 | Enamel | 196 | 388 | 53.43 | 0.23 | 0.94 |
| 5306-1AB-09 | 856 | 0.357 | Enamel | 195 | 398 | 53.93 | 0.19 | 0.97 |
| 5306-1AB-10 | 963 | 0.401 | Enamel | 191 | 377 | 54.13 | 0.17 | 0.83 |
| 5306-1AB-11 | 1070 | 0.446 | Enamel | 186 | 395 | 54.04 | 0.20 | 0.95 |
| 5306-1AB-12 | 1177 | 0.490 | Enamel | 195 | 432 | 54.95 | 0.20 | 0.80 |
| 5306-1AB-13 | 1284 | 0.535 | Enamel | 199 | 428 | 55.21 | 0.19 | 0.86 |
| 5306-1AB-14 | 1391 | 0.580 | Enamel | 204 | 431 | 54.93 | 0.22 | 0.94 |
| 5306-1AB-15 | 1498 | 0.624 | Enamel | 251 | 444 | 55.02 | 0.28 | 0.99 |
| 5306-1AB-16 | 1605 | 0.669 | Enamel | 222 | 481 | 55.41 | 0.31 | 1.11 |
| 5306-1AB-17 | 1712 | 0.713 | Enamel | 209 | 479 | 55.51 | 0.28 | 0.98 |
| 5306-1AB-18 | 1819 | 0.758 | Enamel | 238 | 495 | 55.42 | 0.28 | 1.07 |
| 5306-1AB-19 | 1926 | 0.803 | Enamel | 213 | 490 | 56.08 | 0.28 | 1.14 |
| 5306-1AB-20 | 2033 | 0.847 | Enamel | 247 | 507 | 55.05 | 0.34 | 1.14 |
| 5306-1AB-21 | 2140 | 0.892 | Enamel | 247 | 515 | 55.76 | 0.35 | 1.25 |
| 5306-1AB-22 | 2247 | 0.936 | Enamel | 266 | 537 | 55.58 | 0.40 | 1.32 |
| 5306-1AB-23 | 2354 | 0.981 | Enamel | 274 | 555 | 55.76 | 0.34 | 1.32 |
| 5306-1AB-24 | 2461 | 1.025 | dentin | 254 | 916 | 47.59 | 0.30 | 0.62 |
| 5306-1AB-25 | 2568 | 1.070 | dentin | 247 | 831 | 44.14 | 0.28 | 0.55 |
| 5306-1AB-26 | 2675 | 1.115 | dentin | 335 | 903 | 46.36 | 0.26 | 0.55 |
| 5306-1AB-27 | 2782 | 1.159 | dentin | 431 | 942 | 47.85 | 0.24 | 0.59 |
| 5306-1AB-28 | 2889 | 1.204 | dentin | 756 | 993 | 48.89 | 0.27 | 0.56 |
| 5306-1AB-29 | 2996 | 1.248 | dentin | 867 | 995 | 48.60 | 0.22 | 0.52 |
| 5306-1AB-30 | 3103 | 1.293 | dentin | 1078 | 1008 | 48.55 | 0.23 | 0.53 |

cervical

| | | | | | |
|---------------|------|-------|--------|-----|------|
| 5306-2a AB-01 | 50 | 0.020 | Enamel | 480 | 925 |
| 5306-2a AB-02 | 100 | 0.041 | Enamel | 397 | 734 |
| 5306-2a AB-03 | 200 | 0.082 | Enamel | 326 | 583 |
| 5306-2a AB-04 | 300 | 0.122 | Enamel | 279 | 546 |
| 5306-2a AB-05 | 400 | 0.163 | Enamel | 270 | 502 |
| 5306-2a AB-06 | 500 | 0.204 | Enamel | 269 | 456 |
| 5306-2a AB-07 | 600 | 0.245 | Enamel | 279 | 459 |
| 5306-2a AB-08 | 700 | 0.286 | Enamel | 277 | 451 |
| 5306-2a AB-09 | 800 | 0.327 | Enamel | 258 | 448 |
| 5306-2a AB-10 | 900 | 0.367 | Enamel | 288 | 470 |
| 5306-2a AB-11 | 1000 | 0.408 | Enamel | 274 | 453 |
| 5306-2a AB-12 | 1100 | 0.449 | Enamel | 278 | 461 |
| 5306-2a AB-13 | 1200 | 0.490 | Enamel | 289 | 450 |
| 5306-2a AB-14 | 1300 | 0.531 | Enamel | 258 | 466 |
| 5306-2a AB-15 | 1400 | 0.571 | Enamel | 264 | 481 |
| 5306-2a AB-16 | 1500 | 0.612 | Enamel | 252 | 489 |
| 5306-2a AB-17 | 1600 | 0.653 | Enamel | 226 | 483 |
| 5306-2a AB-18 | 1700 | 0.694 | Enamel | 218 | 494 |
| 5306-2a AB-19 | 1800 | 0.735 | Enamel | 225 | 497 |
| 5306-2a AB-20 | 1900 | 0.776 | Enamel | 218 | 505 |
| 5306-2a AB-21 | 2000 | 0.816 | Enamel | 232 | 494 |
| 5306-2a AB-22 | 2100 | 0.857 | Enamel | 249 | 529 |
| 5306-2a AB-23 | 2200 | 0.898 | Enamel | 270 | 569 |
| 5306-2a AB-24 | 2300 | 0.939 | Enamel | 224 | 530 |
| 5306-2a AB-25 | 2400 | 0.980 | Enamel | 252 | 559 |
| 5306-2a AB-26 | 2500 | 1.020 | Dentin | 926 | 1618 |
| 5306-2a AB-27 | 2600 | 1.061 | Dentin | 879 | 1517 |
| 5306-2a AB-28 | 2700 | 1.102 | Dentin | | |

longitudinal

| | | | | | | | | |
|---------------|------|-------|--------|-----|------|-------|------|------|
| 5306-L1(3)-01 | 100 | 0.008 | Enamel | 458 | 1089 | 44.69 | 0.24 | 0.67 |
| 5306-L1(3)-02 | 400 | 0.032 | Enamel | 343 | 561 | 54.26 | 0.26 | 0.93 |
| 5306-L1(3)-03 | 700 | 0.056 | Enamel | 304 | 537 | 53.43 | 0.28 | 1.27 |
| 5306-L1(3)-04 | 1000 | 0.700 | Enamel | 277 | 530 | 53.39 | 0.34 | 1.28 |
| 5306-L1(3)-05 | 1300 | 0.700 | Enamel | 268 | 519 | 53.81 | 0.34 | 1.23 |
| 5306-L1(3)-06 | 1600 | 0.700 | Enamel | 266 | 518 | 54.16 | 0.33 | 1.23 |
| 5306-L1(3)-07 | 1900 | 0.700 | Enamel | 259 | 510 | 53.84 | 0.35 | 1.16 |
| 5306-L1(3)-08 | 2200 | 0.700 | Enamel | 247 | 536 | 53.87 | 0.34 | 1.21 |
| 5306-L1(3)-09 | 2500 | 0.700 | Enamel | 232 | 579 | 53.51 | 0.31 | 1.22 |
| 5306-L1(3)-10 | 2800 | 0.700 | Enamel | 249 | 586 | 53.39 | 0.31 | 1.14 |
| 5306-L1(3)-11 | 3100 | 0.700 | Enamel | 210 | 566 | 53.15 | 0.29 | 1.15 |
| 5306-L1(3)-12 | 3400 | 0.700 | Enamel | 198 | 561 | 53.60 | 0.32 | 1.23 |
| 5306-L1(3)-13 | 3700 | 0.700 | Enamel | 212 | 565 | 53.85 | 0.29 | 1.08 |
| 5306-L1(3)-14 | 4000 | 0.700 | Enamel | 213 | 556 | 53.54 | 0.27 | 1.21 |
| 5306-L1(3)-15 | 4300 | 0.700 | Enamel | 220 | 530 | 53.83 | 0.33 | 1.36 |

| | | | | | | | | |
|---------------|-------|-------|--------|-----|-----|-------|------|------|
| 5306-L1(3)-16 | 4600 | 0.700 | Enamel | 224 | 500 | 53.78 | 0.33 | 1.18 |
| 5306-L1(3)-17 | 4900 | 0.700 | Enamel | 260 | 523 | 53.42 | 0.38 | 1.32 |
| 5306-L1(3)-18 | 5200 | 0.700 | Enamel | 247 | 485 | 54.15 | 0.39 | 1.11 |
| 5306-L1(3)-19 | 5500 | 0.700 | Enamel | 245 | 498 | 53.82 | 0.42 | 1.25 |
| 5306-L1(3)-20 | 5800 | 0.700 | Enamel | 239 | 481 | 53.99 | 0.39 | 1.17 |
| 5306-L1(3)-21 | 6100 | 0.700 | Enamel | 266 | 480 | 53.80 | 0.41 | 1.31 |
| 5306-L1(3)-22 | 6400 | 0.700 | Enamel | 238 | 463 | 53.83 | 0.40 | 1.30 |
| 5306-L1(3)-23 | 6700 | 0.700 | Enamel | 244 | 481 | 53.86 | 0.38 | 1.26 |
| 5306-L1(3)-24 | 7000 | 0.700 | Enamel | 229 | 564 | 53.73 | 0.31 | 1.26 |
| 5306-L1(3)-25 | 7300 | 0.700 | Enamel | 218 | 551 | 53.66 | 0.31 | 1.20 |
| 5306-L1(3)-26 | 7600 | 0.700 | Enamel | 224 | 543 | 53.41 | 0.33 | 1.24 |
| 5306-L1(3)-27 | 7900 | 0.700 | Enamel | 234 | 560 | 53.93 | 0.27 | 1.33 |
| 5306-L1(3)-28 | 8200 | 0.700 | Enamel | 224 | 526 | 53.39 | 0.32 | 1.25 |
| 5306-L1(3)-29 | 8500 | 0.700 | Enamel | 241 | 540 | 53.71 | 0.30 | 1.27 |
| 5306-L1(3)-30 | 8800 | 0.700 | Enamel | 240 | 541 | 53.82 | 0.31 | 1.25 |
| 5306-L1(3)-31 | 9100 | 0.728 | Enamel | 246 | 523 | 53.82 | 0.35 | 1.25 |
| 5306-L1(3)-32 | 9400 | 0.752 | Enamel | 250 | 500 | 53.64 | 0.36 | 1.23 |
| 5306-L1(3)-33 | 9700 | 0.776 | Enamel | 244 | 477 | 53.36 | 0.36 | 1.23 |
| 5306-L1(3)-34 | 10000 | 0.800 | Enamel | 226 | 475 | 53.87 | 0.37 | 1.17 |
| 5306-L1(3)-35 | 10300 | 0.824 | Enamel | 243 | 479 | 53.47 | 0.39 | 1.19 |
| 5306-L1(3)-36 | 10600 | 0.848 | Enamel | 236 | 468 | 53.27 | 0.39 | 1.21 |
| 5306-L1(3)-37 | 10900 | 0.872 | Enamel | 235 | 470 | 52.87 | 0.38 | 1.24 |
| 5306-L1(3)-38 | 11200 | 0.896 | Enamel | 231 | 499 | 53.41 | 0.39 | 1.33 |
| 5306-L1(3)-39 | 11500 | 0.920 | Enamel | 260 | 521 | 53.89 | 0.37 | 1.31 |
| 5306-L1(3)-40 | 11800 | 0.944 | Enamel | 251 | 487 | 53.62 | 0.42 | 1.26 |
| 5306-L1(3)-41 | 12100 | 0.968 | Enamel | 249 | 479 | 53.07 | 0.35 | 1.24 |

Cat# 017-06

Hippopotamus sp

Lake Albert,
Warwire Fm.

Molar
fragment

Surface Find; E30.8829189;
N1.41738233

apical

| | | | | | | | | |
|-------------|------|-------|--------|------|------|-------|------|------|
| 1706-1AB-01 | 50 | 0.020 | Enamel | 1019 | 734 | 52.49 | 0.16 | 0.44 |
| 1706-1AB-02 | 184 | 0.074 | Enamel | 978 | 823 | 50.64 | 0.14 | 0.60 |
| 1706-1AB-03 | 368 | 0.148 | Enamel | 1116 | 967 | 53.92 | 0.11 | 0.67 |
| 1706-1AB-04 | 552 | 0.223 | Enamel | 1007 | 962 | 54.55 | 0.18 | 0.77 |
| 1706-1AB-05 | 736 | 0.297 | Enamel | 979 | 919 | 53.87 | 0.22 | 0.79 |
| 1706-1AB-06 | 920 | 0.371 | Enamel | 818 | 742 | 54.45 | 0.27 | 0.88 |
| 1706-1AB-07 | 1104 | 0.445 | Enamel | 854 | 761 | 54.77 | 0.25 | 0.74 |
| 1706-1AB-08 | 1288 | 0.519 | Enamel | 833 | 770 | 54.41 | 0.19 | 0.85 |
| 1706-1AB-09 | 1472 | 0.594 | Enamel | 1145 | 841 | 54.80 | 0.22 | 0.88 |
| 1706-1AB-10 | 1656 | 0.668 | Enamel | 1369 | 872 | 54.47 | 0.21 | 0.95 |
| 1706-1AB-11 | 1840 | 0.742 | Enamel | 1671 | 943 | 55.23 | 0.24 | 0.95 |
| 1706-1AB-12 | 2024 | 0.816 | Enamel | 1898 | 968 | 54.64 | 0.24 | 1.03 |
| 1706-1AB-13 | 2208 | 0.890 | Enamel | 1780 | 999 | 54.70 | 0.23 | 1.19 |
| 1706-1AB-14 | 2392 | 0.965 | Enamel | 1728 | 1057 | 56.00 | 0.20 | 1.22 |
| 1706-1AB-15 | 2576 | 1.039 | Dentin | 1522 | 1767 | 55.83 | 0.13 | 0.47 |
| 1706-1AB-16 | 2760 | 1.113 | Dentin | 1742 | 1921 | 55.83 | 0.13 | 0.47 |

| | | | | | | | | |
|-------------|------|-------|--------|------|------|-------|------|------|
| 1706-1AB-17 | 2944 | 1.187 | Dentin | 2131 | 1855 | 53.66 | 0.18 | 0.44 |
| 1706-1AB-18 | 3128 | 1.261 | Dentin | 3046 | 1935 | 55.56 | 0.12 | 0.54 |
| 1706-1AB-19 | 3312 | 1.335 | Dentin | 2402 | 1910 | 55.73 | 0.16 | 0.45 |
| 1706-1AB-20 | 3496 | 1.410 | Dentin | 2505 | 1923 | 55.49 | 0.17 | 0.47 |
| cervical | | | | | | | | |
| 1706-2AB-01 | 50 | 0.020 | Enamel | 1079 | 970 | 53.87 | 0.11 | 0.58 |
| 1706-2AB-02 | 181 | 0.074 | Enamel | 776 | 889 | 53.41 | 0.17 | 0.60 |
| 1706-2AB-03 | 362 | 0.148 | Enamel | 728 | 837 | 53.74 | 0.19 | 0.65 |
| 1706-2AB-04 | 543 | 0.223 | Enamel | 708 | 758 | 54.31 | 0.24 | 0.68 |
| 1706-2AB-05 | 724 | 0.297 | Enamel | 760 | 783 | 54.74 | 0.20 | 0.81 |
| 1706-2AB-06 | 905 | 0.371 | Enamel | 791 | 785 | 54.62 | 0.20 | 0.77 |
| 1706-2AB-07 | 1086 | 0.445 | Enamel | 835 | 781 | 54.22 | 0.19 | 0.85 |
| 1706-2AB-08 | 1267 | 0.519 | Enamel | 1044 | 865 | 55.10 | 0.21 | 0.90 |
| 1706-2AB-09 | 1448 | 0.593 | Enamel | 885 | 832 | 54.63 | 0.25 | 0.86 |
| 1706-2AB-10 | 1629 | 0.668 | Enamel | 968 | 882 | 55.10 | 0.24 | 1.03 |
| 1706-2AB-11 | 1810 | 0.742 | Enamel | 985 | 888 | 55.01 | 0.22 | 0.96 |
| 1706-2AB-12 | 1991 | 0.816 | Enamel | 1080 | 910 | 54.81 | 0.24 | 1.01 |
| 1706-2AB-13 | 2172 | 0.890 | Enamel | 1172 | 933 | 54.75 | 0.29 | 1.12 |
| 1706-2AB-14 | 2353 | 0.964 | Enamel | 1427 | 1010 | 55.05 | 0.25 | 1.13 |
| 1706-2AB-15 | 2534 | 1.039 | Dentin | 1536 | 1829 | 51.28 | 0.15 | 0.57 |
| 1706-2AB-16 | 2715 | 1.113 | Dentin | 1414 | 1690 | 51.28 | 0.15 | 0.57 |
| 1706-2AB-17 | 2896 | 1.187 | Dentin | 1704 | 1698 | 51.41 | 0.19 | 0.45 |
| 1706-2AB-18 | 3077 | 1.261 | Dentin | 1558 | 1730 | 50.74 | 0.11 | 0.40 |
| 1706-2AB-19 | 3258 | 1.335 | Dentin | 1582 | 1872 | 55.48 | 0.15 | 0.45 |
| 1706-2AB-20 | 3439 | 1.409 | Dentin | 1594 | 1861 | 55.95 | 0.19 | 0.57 |

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|--------------------|------------------------|-------------------------|----------------|--|--|--|--|--|
| Cat# 021-06 | <i>Hippopotamus sp</i> | Lake Albert, Nkondo Fm. | Molar fragment | Surface Find; E30.8988124; N1.41939191 | | | | |
|--------------------|------------------------|-------------------------|----------------|--|--|--|--|--|

apical

| | | | | | | | | |
|-------------|------|-------|--------|------|------|-------|------|------|
| 2106-2AB-01 | 40 | 0.032 | Enamel | 523 | 454 | 54.60 | 0.22 | 0.77 |
| 2106-2AB-02 | 87 | 0.069 | Enamel | 346 | 411 | 54.94 | 0.20 | 0.73 |
| 2106-2AB-03 | 174 | 0.138 | Enamel | 560 | 373 | 54.76 | 0.15 | 0.69 |
| 2106-2AB-04 | 261 | 0.207 | Enamel | 618 | 370 | 54.82 | 0.18 | 0.81 |
| 2106-2AB-05 | 348 | 0.276 | Enamel | 589 | 361 | 55.07 | 0.17 | 0.78 |
| 2106-2AB-06 | 435 | 0.345 | Enamel | 567 | 365 | 54.48 | 0.21 | 0.82 |
| 2106-2AB-07 | 522 | 0.414 | Enamel | 586 | 369 | 55.12 | 0.17 | 0.82 |
| 2106-2AB-08 | 609 | 0.483 | Enamel | 597 | 376 | 54.80 | 0.21 | 0.80 |
| 2106-2AB-09 | 696 | 0.552 | Enamel | 594 | 352 | 55.44 | 0.17 | 0.83 |
| 2106-2AB-10 | 783 | 0.621 | Enamel | 657 | 393 | 54.77 | 0.19 | 0.95 |
| 2106-2AB-11 | 870 | 0.690 | Enamel | | | 54.58 | 0.19 | 0.96 |
| 2106-2AB-12 | 957 | 0.760 | Enamel | 793 | 427 | 55.12 | 0.22 | 1.10 |
| 2106-2AB-13 | 1044 | 0.829 | Enamel | 816 | 426 | 55.24 | 0.25 | 1.09 |
| 2106-2AB-14 | 1131 | 0.898 | Enamel | 872 | 444 | 54.92 | 0.21 | 1.07 |
| 2106-2AB-15 | 1218 | 0.967 | Enamel | 935 | 459 | 54.44 | 0.24 | 1.15 |
| 2106-2AB-16 | 1305 | 1.036 | Dentin | 1784 | 950 | 54.38 | 0.29 | 1.20 |
| 2106-2AB-17 | 1392 | 1.105 | Dentin | 2442 | 1205 | 53.13 | 0.16 | 0.53 |

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|-------------|------|-------|--------|------|------|-------|------|------|
| 2106-2AB-18 | 1479 | 1.174 | Dentin | 2626 | 1192 | 53.30 | 0.10 | 0.49 |
| 2106-2AB-19 | 1566 | 1.243 | Dentin | 2688 | 1201 | 53.22 | 0.12 | 0.57 |
| 2106-2AB-20 | 1653 | 1.312 | Dentin | 3213 | 1163 | 53.17 | 0.09 | 0.57 |
| cervical | | | | | | | | |
| 2106-3AB-01 | 45 | 0.031 | Enamel | 1048 | 464 | 54.54 | 0.14 | 0.80 |
| 2106-3AB-02 | 94 | 0.065 | Enamel | 786 | 382 | 54.65 | 0.11 | 0.76 |
| 2106-3AB-03 | 188 | 0.129 | Enamel | 787 | 391 | 54.95 | 0.17 | 0.77 |
| 2106-3AB-04 | 282 | 0.194 | Enamel | 877 | 429 | 55.20 | 0.16 | 0.78 |
| 2106-3AB-05 | 376 | 0.258 | Enamel | 874 | 439 | 55.12 | 0.16 | 0.88 |
| 2106-3AB-06 | 470 | 0.323 | Enamel | 903 | 448 | 55.27 | 0.20 | 0.90 |
| 2106-3AB-07 | 564 | 0.388 | Enamel | 921 | 454 | 54.88 | 0.20 | 0.89 |
| 2106-3AB-08 | 658 | 0.452 | Enamel | 990 | 473 | 54.77 | 0.19 | 0.92 |
| 2106-3AB-09 | 752 | 0.517 | Enamel | 1037 | 478 | 54.39 | 0.22 | 0.92 |
| 2106-3AB-10 | 846 | 0.581 | Enamel | 1111 | 500 | 54.74 | 0.20 | 0.94 |
| 2106-3AB-11 | 940 | 0.646 | Enamel | 1195 | 517 | 54.80 | 0.23 | 0.94 |
| 2106-3AB-12 | 1034 | 0.711 | Enamel | 1270 | 531 | 55.11 | 0.19 | 1.01 |
| 2106-3AB-13 | 1128 | 0.775 | Enamel | 1317 | 574 | 55.07 | 0.20 | 1.03 |
| 2106-3AB-14 | 1222 | 0.840 | Enamel | 1356 | 617 | 55.01 | 0.23 | 1.14 |
| 2106-3AB-15 | 1316 | 0.904 | Enamel | 1320 | 589 | 54.91 | 0.25 | 1.17 |
| 2106-3AB-16 | 1410 | 0.969 | Enamel | 1484 | 714 | 54.42 | 0.28 | 1.14 |
| 2106-3AB-17 | 1504 | 1.034 | Dentin | 2374 | 1259 | 54.67 | 0.26 | 1.23 |
| 2106-3AB-18 | 1598 | 1.098 | Dentin | 2513 | 1246 | 53.13 | 0.15 | 0.61 |
| 2106-3AB-19 | 1692 | 1.163 | Dentin | 2463 | 1240 | 53.30 | 0.13 | 0.55 |
| 2106-3AB-20 | 1786 | 1.227 | Dentin | 2415 | 1224 | 53.43 | 0.17 | 0.46 |

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|--------------------|------------------------|-------------------------|----------------|---|--|--|--|--|
| Cat# 050-06 | <i>Hippopotamus sp</i> | Lake Albert, Nkondo Fm. | tooth fragment | Surface Find; E30.90277269; N1.42103198 | | | | |
|--------------------|------------------------|-------------------------|----------------|---|--|--|--|--|

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|-------------|------|-------|--------|------|------|-------|------|------|
| cervical | | | | | | | | |
| 5006-1AB-01 | 50 | 0.025 | Enamel | 1390 | 730 | 54.60 | 0.22 | 0.77 |
| 5006-1AB-02 | 131 | 0.065 | Enamel | 1296 | 685 | 54.94 | 0.20 | 0.73 |
| 5006-1AB-03 | 262 | 0.129 | Enamel | 1632 | 749 | 54.76 | 0.15 | 0.69 |
| 5006-1AB-04 | 393 | 0.194 | Enamel | 1639 | 776 | 54.82 | 0.18 | 0.81 |
| 5006-1AB-05 | 524 | 0.258 | Enamel | 1738 | 819 | 55.07 | 0.17 | 0.78 |
| 5006-1AB-06 | 655 | 0.323 | Enamel | 1802 | 839 | 54.48 | 0.21 | 0.82 |
| 5006-1AB-07 | 786 | 0.387 | Enamel | 1864 | 870 | 55.12 | 0.17 | 0.82 |
| 5006-1AB-08 | 917 | 0.452 | Enamel | 1875 | 869 | 54.80 | 0.21 | 0.80 |
| 5006-1AB-09 | 1048 | 0.516 | Enamel | 1961 | 912 | 55.44 | 0.17 | 0.83 |
| 5006-1AB-10 | 1179 | 0.581 | Enamel | 1972 | 923 | 54.77 | 0.19 | 0.95 |
| 5006-1AB-11 | 1310 | 0.645 | Enamel | 2019 | 956 | 54.58 | 0.19 | 0.96 |
| 5006-1AB-12 | 1441 | 0.710 | Enamel | 1963 | 967 | 55.12 | 0.22 | 1.10 |
| 5006-1AB-13 | 1572 | 0.774 | Enamel | 2025 | 992 | 55.24 | 0.25 | 1.09 |
| 5006-1AB-14 | 1703 | 0.839 | Enamel | 2152 | 1043 | 54.92 | 0.21 | 1.07 |
| 5006-1AB-15 | 1834 | 0.903 | Enamel | 2129 | 1026 | 54.44 | 0.24 | 1.15 |
| 5006-1AB-16 | 1965 | 0.968 | Enamel | | 1724 | 54.38 | 0.29 | 1.20 |
| 5006-1AB-17 | 2096 | 1.033 | Dentin | 1822 | 2243 | 53.13 | 0.16 | 0.53 |
| 5006-1AB-18 | 2227 | 1.097 | Dentin | 1547 | 2253 | 53.30 | 0.10 | 0.49 |

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|-------------|------|-------|--------|------|------|-------|------|------|
| 5006-1AB-19 | 2358 | 1.162 | Dentin | 1596 | 2252 | 53.22 | 0.12 | 0.57 |
| 5006-1AB-20 | 2489 | 1.226 | Dentin | 1387 | 2321 | 53.17 | 0.09 | 0.57 |
| apical | | | | | | | | |
| 50062AB-01 | 50 | 0.023 | Enamel | 1429 | 779 | 54.54 | 0.14 | 0.80 |
| 50062AB-02 | 131 | 0.061 | Enamel | 1751 | 794 | 54.65 | 0.11 | 0.76 |
| 50062AB-03 | 262 | 0.121 | Enamel | 1714 | 779 | 54.95 | 0.17 | 0.77 |
| 50062AB-04 | 393 | 0.182 | Enamel | 1685 | 793 | 55.20 | 0.16 | 0.78 |
| 50062AB-05 | 524 | 0.243 | Enamel | 1718 | 822 | 55.12 | 0.16 | 0.88 |
| 50062AB-06 | 655 | 0.303 | Enamel | 1771 | 856 | 55.27 | 0.20 | 0.90 |
| 50062AB-07 | 786 | 0.364 | Enamel | 1860 | 868 | 54.88 | 0.20 | 0.89 |
| 50062AB-08 | 917 | 0.425 | Enamel | 1851 | 881 | 54.77 | 0.19 | 0.92 |
| 50062AB-09 | 1048 | 0.485 | Enamel | 1888 | 917 | 54.39 | 0.22 | 0.92 |
| 50062AB-10 | 1179 | 0.546 | Enamel | 1942 | 941 | 54.74 | 0.20 | 0.94 |
| 50062AB-11 | 1310 | 0.606 | Enamel | 1958 | 935 | 54.80 | 0.23 | 0.94 |
| 50062AB-12 | 1441 | 0.667 | Enamel | 1973 | 974 | 55.11 | 0.19 | 1.01 |
| 50062AB-13 | 1572 | 0.728 | Enamel | 1825 | 954 | 55.07 | 0.20 | 1.03 |
| 50062AB-14 | 1703 | 0.788 | Enamel | 1684 | 940 | 55.01 | 0.23 | 1.14 |
| 50062AB-15 | 1834 | 0.849 | Enamel | 1520 | 949 | 54.91 | 0.25 | 1.17 |
| 50062AB-16 | 1965 | 0.910 | Enamel | 1676 | 963 | 54.42 | 0.28 | 1.14 |
| 50062AB-17 | 2096 | 0.970 | Enamel | 1997 | 1263 | 54.67 | 0.26 | 1.23 |
| 50062AB-18 | 2227 | 1.031 | Dentin | 1289 | 2256 | 53.13 | 0.15 | 0.61 |
| 50062AB-19 | 2358 | 1.092 | Dentin | 2450 | 2196 | 53.30 | 0.13 | 0.55 |
| 50062AB-20 | 2489 | 1.152 | Dentin | 1206 | 2282 | 53.43 | 0.17 | 0.46 |

| Cat# 032-06 | <i>Hippopotamus sp</i> | Lake Albert, Nkondo Fm. | Molar fragment | Surface Find; E30.8960314; N1.41516716 | | | | |
|--------------------|------------------------|-------------------------|----------------|--|--|--|--|--|
|--------------------|------------------------|-------------------------|----------------|--|--|--|--|--|

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|-------------|------|-------|--------|------|------|-------|------|------|
| cervical | | | | | | | | |
| 3206-3AB-01 | 50 | 0.034 | Enamel | 411 | 300 | 55.05 | 0.14 | 0.58 |
| 3206-3AB-02 | 116 | 0.080 | Enamel | 430 | 326 | 54.80 | 0.22 | 0.77 |
| 3206-3AB-03 | 232 | 0.160 | Enamel | 484 | 348 | 54.15 | 0.22 | 0.83 |
| 3206-3AB-04 | 348 | 0.240 | Enamel | 532 | 369 | 54.55 | 0.28 | 0.88 |
| 3206-3AB-05 | 464 | 0.320 | Enamel | 615 | 412 | 54.54 | 0.30 | 0.88 |
| 3206-3AB-06 | 580 | 0.400 | Enamel | 699 | 451 | 54.78 | 0.28 | 0.88 |
| 3206-3AB-07 | 696 | 0.480 | Enamel | 771 | 491 | 54.07 | 0.25 | 0.99 |
| 3206-3AB-08 | 812 | 0.560 | Enamel | 806 | 520 | 54.47 | 0.25 | 0.98 |
| 3206-3AB-09 | 928 | 0.640 | Enamel | 835 | 531 | 53.99 | 0.24 | 1.05 |
| 3206-3AB-10 | 1044 | 0.720 | Enamel | 869 | 556 | 53.78 | 0.23 | 1.06 |
| 3206-3AB-11 | 1160 | 0.800 | Enamel | 946 | 575 | 54.18 | 0.26 | 1.11 |
| 3206-3AB-12 | 1276 | 0.880 | Enamel | 1023 | 581 | 53.53 | 0.28 | 1.16 |
| 3206-3AB-13 | 1392 | 0.960 | Enamel | 1249 | 653 | 53.96 | 0.26 | 1.20 |
| 3206-3AB-14 | 1508 | 1.040 | Dentin | 2848 | 2294 | 53.80 | 0.29 | 1.11 |
| 3206-3AB-15 | 1624 | 1.120 | Dentin | 2250 | 2274 | 54.40 | 0.28 | 1.32 |
| 3206-3AB-16 | 1740 | 1.200 | Dentin | 2681 | 2426 | 54.15 | 0.22 | 1.25 |
| 3206-3AB-17 | 1856 | 1.280 | Dentin | 2756 | 2464 | 52.51 | 0.28 | 0.62 |
| 3206-3AB-18 | 1972 | 1.360 | Dentin | 2676 | 2442 | 53.20 | 0.24 | 0.51 |
| 3206-3AB-19 | 2088 | 1.440 | Dentin | 2549 | 2357 | 53.25 | 0.19 | 0.59 |

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|-------------|------|-------|--------|------|------|-------|------|------|
| 3206-3AB-20 | 2204 | 1.520 | Dentin | 2504 | 2377 | 53.46 | 0.17 | 0.58 |
| apical | | | | | | | | |
| 32062AB-01 | 50 | 0.015 | Enamel | 423 | 260 | 53.68 | 0.18 | 0.57 |
| 32062AB-02 | 265 | 0.080 | Enamel | 617 | 364 | 54.59 | 0.23 | 0.70 |
| 32062AB-03 | 530 | 0.160 | Enamel | 691 | 406 | 54.51 | 0.18 | 0.65 |
| 32062AB-04 | 795 | 0.240 | Enamel | 780 | 434 | 54.95 | 0.22 | 0.77 |
| 32062AB-05 | 1060 | 0.320 | Enamel | 800 | 447 | 54.42 | 0.23 | 0.85 |
| 32062AB-06 | 1325 | 0.400 | Enamel | 872 | 467 | 54.20 | 0.24 | 0.89 |
| 32062AB-07 | 1590 | 0.480 | Enamel | 915 | 492 | 55.00 | 0.23 | 0.90 |
| 32062AB-08 | 1855 | 0.560 | Enamel | 936 | 521 | 54.77 | 0.20 | 0.97 |
| 32062AB-09 | 2120 | 0.640 | Enamel | 952 | 542 | 55.02 | 0.18 | 1.01 |
| 32062AB-10 | 2385 | 0.721 | Enamel | 979 | 565 | 54.84 | 0.21 | 0.97 |
| 32062AB-11 | 2650 | 0.801 | Enamel | 994 | 567 | 54.52 | 0.27 | 1.06 |
| 32062AB-12 | 2915 | 0.881 | Enamel | 1004 | 556 | 54.88 | 0.23 | 1.12 |
| 32062AB-13 | 3180 | 0.961 | Enamel | 990 | 576 | 54.32 | 0.20 | 1.27 |
| 32062AB-14 | 3445 | 1.041 | dentin | 2316 | 2403 | 54.45 | 0.22 | 1.19 |
| 32062AB-15 | 3710 | 1.121 | dentin | 2260 | 2348 | 54.16 | 0.25 | 1.15 |
| 32062AB-16 | 3975 | 1.201 | dentin | 2245 | 2320 | 53.23 | 0.22 | 1.20 |
| 32062AB-17 | 4240 | 1.281 | dentin | 2415 | 2491 | 53.06 | 0.24 | 0.69 |
| 32062AB-18 | 4505 | 1.361 | dentin | 2450 | 2444 | 52.60 | 0.18 | 0.63 |
| 32062AB-19 | 4770 | 1.441 | dentin | 2481 | 2547 | 52.95 | 0.17 | 0.61 |
| 32062AB-20 | 5035 | 1.521 | dentin | 2873 | 2266 | 53.27 | 0.21 | 0.53 |

GSP421

Hippopotamus sp

Lake Albert, Kagusa Mb.

Molar fragment

Surface Find; E30° 18.836'; N0000° 59.652'

core apical

| | | | | | | | | |
|----------------|------|-------|--------|-----|------|-------|------|------|
| GSP421-1 AB-01 | 50 | 0.014 | Enamel | 425 | 981 | 54.85 | 0.15 | 0.48 |
| GSP421-1 AB-02 | 166 | 0.048 | Enamel | 400 | 1034 | 55.06 | 0.16 | 0.43 |
| GSP421-1 AB-03 | 282 | 0.082 | Enamel | 737 | 1151 | 54.77 | 0.17 | 0.48 |
| GSP421-1 AB-04 | 398 | 0.115 | Enamel | 390 | 863 | 53.90 | 0.18 | 0.47 |
| GSP421-1 AB-05 | 514 | 0.149 | Enamel | 253 | 408 | 52.04 | 0.17 | 0.62 |
| GSP421-1 AB-06 | 630 | 0.183 | Enamel | 164 | 380 | 53.84 | 0.20 | 0.60 |
| GSP421-1 AB-07 | 746 | 0.216 | Enamel | 149 | 367 | 53.96 | 0.22 | 0.64 |
| GSP421-1 AB-08 | 862 | 0.250 | Enamel | 149 | 357 | 54.04 | 0.24 | 0.68 |
| GSP421-1 AB-09 | 978 | 0.283 | Enamel | 139 | 350 | 53.61 | 0.26 | 0.73 |
| GSP421-1 AB-10 | 1094 | 0.317 | Enamel | 138 | 358 | 54.40 | 0.23 | 0.80 |
| GSP421-1 AB-11 | 1210 | 0.351 | Enamel | 142 | 368 | 54.51 | 0.22 | 0.80 |
| GSP421-1 AB-12 | 1326 | 0.384 | Enamel | 142 | 365 | 54.40 | 0.22 | 0.87 |
| GSP421-1 AB-13 | 1442 | 0.418 | Enamel | 140 | 361 | 54.17 | 0.22 | 0.84 |
| GSP421-1 AB-14 | 1558 | 0.452 | Enamel | 141 | 369 | 54.68 | 0.24 | 0.84 |
| GSP421-1 AB-15 | 1674 | 0.485 | Enamel | 142 | 375 | 54.71 | 0.25 | 0.90 |
| GSP421-1 AB-16 | 1790 | 0.519 | Enamel | 144 | 376 | 54.31 | 0.23 | 0.98 |
| GSP421-1 AB-17 | 1906 | 0.552 | Enamel | 140 | 382 | 54.39 | 0.25 | 0.93 |
| GSP421-1 AB-18 | 2022 | 0.586 | Enamel | 143 | 379 | 54.65 | 0.25 | 1.01 |
| GSP421-1 AB-19 | 2138 | 0.620 | Enamel | 152 | 401 | 54.42 | 0.25 | 0.93 |
| GSP421-1 AB-20 | 2254 | 0.653 | Enamel | 160 | 417 | 54.51 | 0.28 | 1.07 |

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|----------------|------|-------|--------|-----|------|-------|------|------|
| GSP421-1 AB-21 | 2370 | 0.687 | Enamel | 160 | 408 | 53.67 | 0.30 | 1.09 |
| GSP421-1 AB-22 | 2486 | 0.721 | Enamel | 156 | 409 | 54.08 | 0.32 | 1.10 |
| GSP421-1 AB-23 | 2602 | 0.754 | Enamel | 153 | 413 | 53.60 | 0.31 | 1.21 |
| GSP421-1 AB-24 | 2718 | 0.788 | Enamel | 158 | 423 | 53.48 | 0.32 | 1.18 |
| GSP421-1 AB-25 | 2834 | 0.821 | Enamel | 159 | 434 | 53.39 | 0.32 | 1.08 |
| GSP421-1 AB-26 | 2950 | 0.855 | Enamel | 167 | 445 | 53.34 | 0.34 | 1.15 |
| GSP421-1 AB-27 | 3066 | 0.889 | Enamel | 181 | 466 | 53.18 | 0.30 | 1.19 |
| GSP421-1 AB-28 | 3182 | 0.922 | Enamel | 192 | 481 | 53.27 | 0.34 | 1.28 |
| GSP421-1 AB-29 | 3298 | 0.956 | Enamel | 197 | 488 | 53.43 | 0.36 | 1.28 |
| GSP421-1 AB-30 | 3414 | 0.990 | Enamel | 333 | 568 | 54.25 | 0.37 | 1.31 |
| core cervical | | | | | | | | |
| GPS421-2 AB-01 | 50 | 0.019 | Enamel | 584 | 1050 | 53.10 | 0.13 | 0.50 |
| GPS421-2 AB-02 | 138 | 0.052 | Enamel | 478 | 934 | 51.95 | 0.13 | 0.47 |
| GPS421-2 AB-03 | 226 | 0.085 | Enamel | 352 | 973 | 52.61 | 0.17 | 0.52 |
| GPS421-2 AB-04 | 314 | 0.118 | Enamel | 236 | 972 | 52.68 | 0.22 | 0.50 |
| GPS421-2 AB-05 | 402 | 0.152 | Enamel | 287 | 928 | 53.28 | 0.18 | 0.56 |
| GPS421-2 AB-06 | 490 | 0.185 | Enamel | 222 | 828 | 52.03 | 0.23 | 0.61 |
| GPS421-2 AB-07 | 578 | 0.218 | Enamel | 212 | 761 | 52.45 | 0.21 | 0.70 |
| GPS421-2 AB-08 | 666 | 0.251 | Enamel | 205 | 734 | 53.31 | 0.18 | 0.68 |
| GPS421-2 AB-09 | 754 | 0.285 | Enamel | 197 | 691 | 53.25 | 0.19 | 0.68 |
| GPS421-2 AB-10 | 842 | 0.318 | Enamel | 193 | 610 | 53.12 | 0.18 | 0.67 |
| GPS421-2 AB-11 | 930 | 0.351 | Enamel | 185 | 594 | 52.97 | 0.21 | 0.72 |
| GPS421-2 AB-12 | 1018 | 0.384 | Enamel | 177 | 577 | 52.54 | 0.21 | 0.72 |
| GPS421-2 AB-13 | 1106 | 0.417 | Enamel | 171 | 558 | 52.46 | 0.17 | 0.77 |
| GPS421-2 AB-14 | 1194 | 0.451 | Enamel | 175 | 558 | 52.81 | 0.19 | 0.75 |
| GPS421-2 AB-15 | 1282 | 0.484 | Enamel | 175 | 596 | 53.56 | 0.19 | 0.81 |
| GPS421-2 AB-16 | 1370 | 0.517 | Enamel | 163 | 632 | 52.74 | 0.20 | 0.84 |
| GPS421-2 AB-17 | 1458 | 0.550 | Enamel | 169 | 655 | 53.12 | 0.21 | 0.75 |
| GPS421-2 AB-18 | 1546 | 0.583 | Enamel | 175 | 681 | 53.04 | 0.23 | 0.75 |
| GPS421-2 AB-19 | 1634 | 0.617 | Enamel | 181 | 689 | 53.85 | 0.19 | 0.74 |
| GPS421-2 AB-20 | 1722 | 0.650 | Enamel | 185 | 670 | 54.01 | 0.23 | 0.81 |
| GPS421-2 AB-21 | 1810 | 0.683 | Enamel | 187 | 650 | 52.94 | 0.23 | 0.92 |
| GPS421-2 AB-22 | 1898 | 0.716 | Enamel | 197 | 643 | 53.51 | 0.21 | 0.79 |
| GPS421-2 AB-23 | 1986 | 0.749 | Enamel | 165 | 633 | 53.48 | 0.22 | 0.79 |
| GPS421-2 AB-24 | 2074 | 0.783 | Enamel | 175 | 697 | 53.80 | 0.27 | 0.94 |
| GPS421-2 AB-25 | 2162 | 0.816 | Enamel | 200 | 712 | 53.73 | 0.20 | 0.87 |
| GPS421-2 AB-26 | 2250 | 0.849 | Enamel | 211 | 743 | 52.61 | 0.27 | 0.92 |
| GPS421-2 AB-27 | 2338 | 0.882 | Enamel | 214 | 740 | 53.60 | 0.25 | 1.02 |
| GPS421-2 AB-28 | 2426 | 0.915 | Enamel | 206 | 731 | 53.21 | 0.23 | 0.96 |
| GPS421-2 AB-29 | 2514 | 0.949 | Enamel | 199 | 811 | 52.49 | 0.27 | 0.95 |
| GPS421-2 AB-30 | 2602 | 0.982 | Enamel | 226 | 853 | 52.34 | 0.28 | 0.91 |

| GSP405 | <i>Hippopotamus sp</i> | Lake Albert, Warwire Fm. | Molar M3 fragment | Surface Find; E30° 52.925' N001° 24.398' | | | | |
|---------------|------------------------|--------------------------|-------------------|--|--|--|--|--|
|---------------|------------------------|--------------------------|-------------------|--|--|--|--|--|

core apical

| | | | | | | | | |
|----------------|------|-------|--------|------|------|-------|------|------|
| GPS405-2 AB-01 | 50 | 0.020 | Enamel | 458 | 560 | 50.39 | 0.12 | 0.49 |
| GPS405-2 AB-02 | 148 | 0.060 | Enamel | 605 | 673 | 53.90 | 0.17 | 0.71 |
| GPS405-2 AB-03 | 246 | 0.100 | Enamel | 588 | 736 | 53.92 | 0.13 | 0.83 |
| GPS405-2 AB-04 | 344 | 0.140 | Enamel | 590 | 714 | 54.06 | 0.15 | 0.76 |
| GPS405-2 AB-05 | 442 | 0.180 | Enamel | 543 | 659 | 54.13 | 0.18 | 0.77 |
| GPS405-2 AB-06 | 540 | 0.220 | Enamel | 484 | 658 | 54.21 | 0.18 | 0.80 |
| GPS405-2 AB-07 | 638 | 0.260 | Enamel | 446 | 640 | 54.59 | 0.18 | 0.80 |
| GPS405-2 AB-08 | 736 | 0.300 | Enamel | 437 | 601 | 54.34 | 0.19 | 0.77 |
| GPS405-2 AB-09 | 834 | 0.340 | Enamel | 473 | 685 | 54.10 | 0.20 | 0.92 |
| GPS405-2 AB-10 | 932 | 0.380 | Enamel | 492 | 720 | 54.09 | 0.20 | 0.92 |
| GPS405-2 AB-11 | 1030 | 0.420 | Enamel | 537 | 690 | 54.04 | 0.19 | 0.97 |
| GPS405-2 AB-12 | 1128 | 0.460 | Enamel | 577 | 689 | 53.83 | 0.23 | 1.01 |
| GPS405-2 AB-13 | 1226 | 0.500 | Enamel | 576 | 686 | 53.89 | 0.21 | 1.08 |
| GPS405-2 AB-14 | 1324 | 0.540 | Enamel | 539 | 698 | 53.90 | 0.23 | 1.00 |
| GPS405-2 AB-15 | 1422 | 0.580 | Enamel | 570 | 726 | 54.25 | 0.25 | 1.06 |
| GPS405-2 AB-16 | 1520 | 0.620 | Enamel | 607 | 768 | 53.89 | 0.23 | 1.08 |
| GPS405-2 AB-17 | 1618 | 0.660 | Enamel | 667 | 817 | 53.75 | 0.24 | 1.09 |
| GPS405-2 AB-18 | 1716 | 0.700 | Enamel | 666 | 846 | 54.14 | 0.22 | 1.18 |
| GPS405-2 AB-19 | 1814 | 0.740 | Enamel | 665 | 877 | 53.80 | 0.23 | 1.22 |
| GPS405-2 AB-20 | 1912 | 0.780 | Enamel | 681 | 891 | 53.89 | 0.23 | 1.11 |
| GPS405-2 AB-21 | 2010 | 0.820 | Enamel | 691 | 892 | 53.76 | 0.24 | 1.21 |
| GPS405-2 AB-22 | 2108 | 0.860 | Enamel | 653 | 862 | 54.28 | 0.24 | 1.21 |
| GPS405-2 AB-23 | 2206 | 0.900 | Enamel | 717 | 910 | 53.93 | 0.31 | 1.22 |
| GPS405-2 AB-24 | 2304 | 0.940 | Enamel | 795 | 965 | 53.91 | 0.26 | 1.31 |
| GPS405-2 AB-25 | 2402 | 0.980 | Enamel | 925 | 1193 | 54.43 | 0.29 | 1.47 |
| GPS405-2 AB-26 | 2500 | 1.020 | Dentin | 1014 | 1233 | 54.07 | 0.21 | 0.54 |
| GPS405-2 AB-27 | 2598 | 1.060 | Dentin | 1054 | 1282 | 54.27 | 0.20 | 0.53 |
| GPS405-2 AB-28 | 2696 | 1.100 | Dentin | 1099 | 1253 | 52.08 | 0.21 | 0.52 |
| GPS405-2 AB-29 | 2794 | 1.140 | Dentin | 1135 | 1244 | 53.73 | 0.18 | 0.52 |
| GPS405-2 AB-30 | 2892 | 1.180 | Dentin | 1795 | 1252 | 51.79 | 0.27 | 0.50 |

core cervical

| | | | | | | | | |
|----------------|------|-------|--------|-----|-----|-------|------|------|
| GPS405-1 AB-01 | 50 | 0.017 | Enamel | 518 | 800 | 50.01 | 0.10 | 0.48 |
| GPS405-1 AB-02 | 175 | 0.061 | Enamel | 492 | 768 | 53.94 | 0.21 | 0.64 |
| GPS405-1 AB-03 | 300 | 0.105 | Enamel | 495 | 737 | 53.61 | 0.20 | 0.72 |
| GPS405-1 AB-04 | 425 | 0.149 | Enamel | 488 | 711 | 53.71 | 0.23 | 0.77 |
| GPS405-1 AB-05 | 550 | 0.192 | Enamel | 461 | 720 | 54.57 | 0.23 | 0.77 |
| GPS405-1 AB-06 | 675 | 0.236 | Enamel | 444 | 698 | 54.02 | 0.26 | 0.83 |
| GPS405-1 AB-07 | 800 | 0.280 | Enamel | 465 | 696 | 54.39 | 0.26 | 0.87 |
| GPS405-1 AB-08 | 925 | 0.323 | Enamel | 467 | 683 | 54.25 | 0.26 | 0.94 |
| GPS405-1 AB-09 | 1050 | 0.367 | Enamel | 492 | 698 | 54.64 | 0.22 | 0.90 |
| GPS405-1 AB-10 | 1175 | 0.411 | Enamel | 541 | 724 | 54.47 | 0.22 | 0.95 |

| | | | | | | | | |
|----------------|------|-------|--------|------|------|-------|------|------|
| GPS405-1 AB-11 | 1300 | 0.455 | Enamel | 578 | 774 | 54.03 | 0.22 | 0.94 |
| GPS405-1 AB-12 | 1425 | 0.498 | Enamel | 585 | 773 | 53.95 | 0.25 | 1.05 |
| GPS405-1 AB-13 | 1550 | 0.542 | Enamel | 598 | 783 | 53.90 | 0.26 | 1.18 |
| GPS405-1 AB-14 | 1675 | 0.586 | Enamel | 645 | 806 | 53.94 | 0.24 | 1.09 |
| GPS405-1 AB-15 | 1800 | 0.629 | Enamel | 667 | 853 | 54.16 | 0.25 | 1.21 |
| GPS405-1 AB-16 | 1925 | 0.673 | Enamel | 650 | 853 | 53.84 | 0.24 | 1.19 |
| GPS405-1 AB-17 | 2050 | 0.717 | Enamel | 689 | 894 | 54.38 | 0.23 | 1.13 |
| GPS405-1 AB-18 | 2175 | 0.760 | Enamel | 673 | 885 | 54.55 | 0.28 | 1.22 |
| GPS405-1 AB-19 | 2300 | 0.804 | Enamel | 696 | 894 | 54.52 | 0.26 | 1.23 |
| GPS405-1 AB-20 | 2425 | 0.848 | Enamel | 704 | 895 | 54.44 | 0.27 | 1.23 |
| GPS405-1 AB-21 | 2550 | 0.892 | Enamel | 738 | 935 | 54.47 | 0.29 | 1.35 |
| GPS405-1 AB-22 | 2675 | 0.935 | Enamel | 793 | 999 | 54.88 | 0.27 | 1.39 |
| GPS405-1 AB-23 | 2800 | 0.979 | Enamel | 993 | 1217 | 54.68 | 0.28 | 1.33 |
| GPS405-1 AB-24 | 2925 | 1.023 | Dentin | 1006 | 1194 | 53.49 | 0.28 | 0.51 |
| GPS405-1 AB-25 | 3050 | 1.066 | Dentin | 1021 | 1204 | 53.81 | 0.24 | 0.50 |
| GPS405-1 AB-26 | 3175 | 1.110 | Dentin | 999 | 1208 | 54.73 | 0.21 | 0.50 |
| GPS405-1 AB-27 | 3300 | 1.154 | Dentin | 514 | 793 | 54.26 | 0.21 | 0.52 |
| GPS405-1 AB-28 | 3425 | 1.198 | Dentin | 1022 | 1198 | 54.76 | 0.24 | 0.43 |
| GPS405-1 AB-29 | 3550 | 1.241 | Dentin | 996 | 1240 | 52.98 | 0.23 | 0.55 |
| GPS405-1 AB-30 | 3675 | 1.285 | Dentin | 978 | 1197 | 54.79 | 0.23 | 0.48 |

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|---------------|------------------------|--------------------------|------------------|---|--|--|--|--|
| GSP396 | <i>Hippopotamus sp</i> | Lake Albert, Warwire Fm. | molar P fragment | Surface Find; E30° 55.318' N01° 25.608' | | | | |
|---------------|------------------------|--------------------------|------------------|---|--|--|--|--|

core apical

| | | | | | | | | |
|----------------|------|-------|--------|-----|-----|-------|------|------|
| GPS396-1 AB-01 | 50 | 0.020 | Enamel | 458 | 560 | 54.20 | 0.10 | 0.50 |
| GPS396-1 AB-02 | 148 | 0.060 | Enamel | 605 | 673 | 54.30 | 0.12 | 0.50 |
| GPS396-1 AB-03 | 246 | 0.100 | Enamel | 588 | 736 | 54.35 | 0.12 | 0.46 |
| GPS396-1 AB-04 | 344 | 0.140 | Enamel | 590 | 714 | 54.37 | 0.16 | 0.56 |
| GPS396-1 AB-05 | 442 | 0.180 | Enamel | 543 | 659 | 54.16 | 0.15 | 0.54 |
| GPS396-1 AB-06 | 540 | 0.220 | Enamel | 484 | 658 | 54.14 | 0.15 | 0.49 |
| GPS396-1 AB-07 | 638 | 0.260 | Enamel | 446 | 640 | 53.34 | 0.17 | 0.51 |
| GPS396-1 AB-08 | 736 | 0.300 | Enamel | 437 | 601 | 49.71 | 0.16 | 0.52 |
| GPS396-1 AB-09 | 834 | 0.340 | Enamel | 473 | 685 | 54.50 | 0.15 | 0.58 |
| GPS396-1 AB-10 | 932 | 0.380 | Enamel | 492 | 720 | 54.32 | 0.18 | 0.65 |
| GPS396-1 AB-11 | 1030 | 0.420 | Enamel | 537 | 690 | 54.49 | 0.15 | 0.62 |
| GPS396-1 AB-12 | 1128 | 0.460 | Enamel | 577 | 689 | 54.33 | 0.16 | 0.60 |
| GPS396-1 AB-13 | 1226 | 0.500 | Enamel | 576 | 686 | 52.98 | 0.20 | 0.64 |
| GPS396-1 AB-14 | 1324 | 0.540 | Enamel | 539 | 698 | 52.15 | 0.22 | 0.59 |
| GPS396-1 AB-15 | 1422 | 0.580 | Enamel | 570 | 726 | 54.14 | 0.18 | 0.71 |
| GPS396-1 AB-16 | 1520 | 0.620 | Enamel | 607 | 768 | 54.56 | 0.19 | 0.67 |
| GPS396-1 AB-17 | 1618 | 0.660 | Enamel | 667 | 817 | 53.64 | 0.22 | 0.72 |
| GPS396-1 AB-18 | 1716 | 0.700 | Enamel | 666 | 846 | 53.16 | 0.12 | 0.51 |
| GPS396-1 AB-19 | 1814 | 0.740 | Enamel | 665 | 877 | 53.58 | 0.17 | 0.63 |
| GPS396-1 AB-20 | 1912 | 0.780 | Enamel | 681 | 891 | 53.55 | 0.21 | 0.65 |
| GPS396-1 AB-21 | 2010 | 0.820 | Enamel | 691 | 892 | 54.12 | 0.17 | 0.69 |
| GPS396-1 AB-22 | 2108 | 0.860 | Enamel | 653 | 862 | 53.52 | 0.19 | 0.78 |

| | | | | | | | | |
|----------------|------|-------|--------|------|------|-------|------|------|
| GPS396-1 AB-23 | 2206 | 0.900 | Enamel | 717 | 910 | 53.37 | 0.18 | 0.73 |
| GPS396-1 AB-24 | 2304 | 0.940 | Enamel | 795 | 965 | 53.31 | 0.19 | 0.77 |
| GPS396-1 AB-25 | 2402 | 0.980 | Enamel | 925 | 1193 | 52.78 | 0.15 | 0.70 |
| GPS396-1 AB-26 | 2500 | 1.020 | dentin | 1014 | 1233 | 52.41 | 0.11 | 0.37 |
| GPS396-1 AB-27 | 2598 | 1.060 | dentin | 1054 | 1282 | 52.90 | 0.11 | 0.34 |
| GPS396-1 AB-28 | 2696 | 1.100 | dentin | 1099 | 1253 | 52.86 | 0.10 | 0.39 |
| GPS396-1 AB-29 | 2794 | 1.140 | dentin | 1135 | 1244 | 52.88 | 0.12 | 0.44 |
| GPS396-1 AB-30 | 2892 | 1.180 | dentin | 1795 | 1252 | 53.07 | 0.10 | 0.43 |
| core cervical | | | | | | | | |
| GPS396-2 AB-01 | 50 | 0.017 | Enamel | 518 | 800 | 53.43 | 0.10 | 0.56 |
| GPS396-2 AB-02 | 150 | 0.050 | Enamel | 492 | 768 | 53.96 | 0.14 | 0.46 |
| GPS396-2 AB-03 | 250 | 0.083 | Enamel | 495 | 737 | 54.14 | 0.14 | 0.49 |
| GPS396-2 AB-04 | 350 | 0.117 | Enamel | 488 | 711 | 53.52 | 0.15 | 0.43 |
| GPS396-2 AB-05 | 450 | 0.150 | Enamel | 461 | 720 | 54.03 | 0.13 | 0.49 |
| GPS396-2 AB-06 | 550 | 0.183 | Enamel | 444 | 698 | 53.94 | 0.16 | 0.51 |
| GPS396-2 AB-07 | 650 | 0.217 | Enamel | 465 | 696 | 53.55 | 0.16 | 0.57 |
| GPS396-2 AB-08 | 750 | 0.250 | Enamel | 467 | 683 | 53.77 | 0.18 | 0.57 |
| GPS396-2 AB-09 | 850 | 0.283 | Enamel | 492 | 698 | 53.90 | 0.16 | 0.63 |
| GPS396-2 AB-10 | 950 | 0.317 | Enamel | 541 | 724 | 53.90 | 0.15 | 0.59 |
| GPS396-2 AB-11 | 1050 | 0.350 | Enamel | 578 | 774 | 53.60 | 0.13 | 0.42 |
| GPS396-2 AB-12 | 1150 | 0.383 | Enamel | 585 | 773 | 53.78 | 0.18 | 0.61 |
| GPS396-2 AB-13 | 1250 | 0.417 | Enamel | 598 | 783 | 53.90 | 0.16 | 0.68 |
| GPS396-2 AB-14 | 1350 | 0.450 | Enamel | 645 | 806 | 53.88 | 0.18 | 0.76 |
| GPS396-2 AB-15 | 1450 | 0.483 | Enamel | 667 | 853 | 53.60 | 0.20 | 0.80 |
| GPS396-2 AB-16 | 1550 | 0.517 | Enamel | 650 | 853 | 53.59 | 0.19 | 0.71 |
| GPS396-2 AB-17 | 1650 | 0.550 | Enamel | 689 | 894 | 53.48 | 0.18 | 0.78 |
| GPS396-2 AB-18 | 1750 | 0.583 | Enamel | 673 | 885 | 53.53 | 0.16 | 0.62 |
| GPS396-2 AB-19 | 1850 | 0.617 | Enamel | 696 | 894 | 53.53 | 0.16 | 0.62 |
| GPS396-2 AB-20 | 1950 | 0.650 | Enamel | 704 | 895 | 53.52 | 0.16 | 0.62 |
| GPS396-2 AB-21 | 2050 | 0.683 | Enamel | 738 | 935 | 53.52 | 0.16 | 0.62 |
| GPS396-2 AB-22 | 2150 | 0.717 | Enamel | 793 | 999 | 53.52 | 0.16 | 0.62 |
| GPS396-2 AB-23 | 2250 | 0.750 | Enamel | 993 | 1217 | 53.52 | 0.16 | 0.62 |
| GPS396-2 AB-24 | 2350 | 0.783 | Enamel | 1006 | 1194 | 53.51 | 0.16 | 0.62 |
| GPS396-2 AB-25 | 2450 | 0.817 | Enamel | 1021 | 1204 | 53.51 | 0.16 | 0.63 |
| GPS396-2 AB-26 | 2550 | 0.850 | Enamel | 999 | 1208 | 53.51 | 0.16 | 0.63 |
| GPS396-2 AB-27 | 2650 | 0.883 | Enamel | 514 | 793 | 53.50 | 0.16 | 0.63 |
| GPS396-2 AB-28 | 2750 | 0.917 | Enamel | 1022 | 1198 | 53.50 | 0.16 | 0.63 |
| GPS396-2 AB-29 | 2850 | 0.950 | Enamel | 996 | 1240 | 53.50 | 0.16 | 0.63 |
| GPS396-2 AB-30 | 2950 | 0.983 | Enamel | 978 | 1197 | 53.49 | 0.16 | 0.63 |

| GSP387 | <i>Hippopotamus sp</i> | Lake Albert, Warwire Fm. | molar fragment | Surface Find; E030.92718° N01.45365° | | | | |
|---------------|------------------------|--------------------------|----------------|--------------------------------------|--|--|--|--|
|---------------|------------------------|--------------------------|----------------|--------------------------------------|--|--|--|--|

core apical

| | | | | | | | | |
|--------------|------|-------|--------|-----|-----|-------|------|------|
| GPS387-AB-1 | 38 | 0.017 | Enamel | 307 | 579 | 53.00 | 0.13 | 0.58 |
| GPS387-AB-2 | 76 | 0.034 | Enamel | 572 | 540 | 54.22 | 0.16 | 0.65 |
| GPS387-AB-3 | 152 | 0.068 | Enamel | 620 | 492 | 54.31 | 0.20 | 0.69 |
| GPS387-AB-4 | 228 | 0.101 | Enamel | 620 | 479 | 53.99 | 0.19 | 0.75 |
| GPS387-AB-5 | 304 | 0.135 | Enamel | 647 | 472 | 54.32 | 0.17 | 0.69 |
| GPS387-AB-6 | 380 | 0.169 | Enamel | 653 | 483 | 54.14 | 0.19 | 0.75 |
| GPS387-AB-7 | 456 | 0.203 | Enamel | 643 | 483 | 54.15 | 0.17 | 0.76 |
| GPS387-AB-8 | 532 | 0.236 | Enamel | 648 | 501 | 54.49 | 0.20 | 0.76 |
| GPS387-AB-9 | 608 | 0.270 | Enamel | 614 | 481 | 54.01 | 0.18 | 0.78 |
| GPS387-AB-10 | 684 | 0.304 | Enamel | 604 | 484 | 54.49 | 0.19 | 0.79 |
| GPS387-AB-11 | 760 | 0.338 | Enamel | 609 | 483 | 54.68 | 0.23 | 0.76 |
| GPS387-AB-12 | 836 | 0.372 | Enamel | 635 | 494 | 54.32 | 0.21 | 0.88 |
| GPS387-AB-13 | 912 | 0.405 | Enamel | 659 | 511 | 54.15 | 0.22 | 0.87 |
| GPS387-AB-14 | 988 | 0.439 | Enamel | 685 | 519 | 53.87 | 0.22 | 0.83 |
| GPS387-AB-15 | 1064 | 0.473 | Enamel | 701 | 533 | 54.26 | 0.22 | 0.83 |
| GPS387-AB-16 | 1140 | 0.507 | Enamel | 730 | 542 | 54.12 | 0.24 | 0.95 |
| GPS387-AB-17 | 1216 | 0.540 | Enamel | 747 | 537 | 53.99 | 0.24 | 0.94 |
| GPS387-AB-18 | 1292 | 0.574 | Enamel | 765 | 539 | 54.39 | 0.21 | 1.02 |
| GPS387-AB-19 | 1368 | 0.608 | Enamel | 796 | 556 | 54.63 | 0.24 | 1.08 |
| GPS387-AB-20 | 1444 | 0.642 | Enamel | 795 | 565 | 54.36 | 0.24 | 1.01 |
| GPS387-AB-21 | 1520 | 0.676 | Enamel | 813 | 586 | 54.51 | 0.26 | 0.97 |
| GPS387-AB-22 | 1596 | 0.709 | Enamel | 819 | 584 | 54.42 | 0.25 | 1.07 |
| GPS387-AB-23 | 1672 | 0.743 | Enamel | 801 | 577 | 54.35 | 0.24 | 1.04 |
| GPS387-AB-24 | 1748 | 0.777 | Enamel | 821 | 601 | 54.29 | 0.23 | 1.04 |
| GPS387-AB-25 | 1824 | 0.811 | Enamel | 797 | 606 | 53.77 | 0.23 | 1.13 |
| GPS387-AB-26 | 1900 | 0.844 | Enamel | 716 | 635 | 53.75 | 0.26 | 1.18 |
| GPS387-AB-27 | 1976 | 0.878 | Enamel | 690 | 633 | 54.12 | 0.27 | 1.23 |
| GPS387-AB-28 | 2052 | 0.912 | Enamel | 714 | 654 | 53.89 | 0.26 | 1.22 |
| GPS387-AB-29 | 2128 | 0.946 | Enamel | 693 | 674 | 54.27 | 0.27 | 1.15 |
| GPS387-AB-30 | 2204 | 0.980 | Enamel | 714 | 699 | 54.59 | 0.19 | 0.52 |

| Cat# 028-06 | <i>Hippopotamus sp</i> | Lake Albert, Nkondo Fm. | Molar fragment | Surface Find; E30.8829189 N1.401738233 | | | | |
|--------------------|------------------------|-------------------------|----------------|--|--|--|--|--|
|--------------------|------------------------|-------------------------|----------------|--|--|--|--|--|

apical

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|-------------|------|-------|--------|-----|-----|-------|------|------|
| 2806-1CD-01 | 50 | 0.021 | Enamel | 669 | 634 | 55.12 | 0.11 | 0.64 |
| 2806-1CD-02 | 152 | 0.065 | Enamel | 732 | 598 | 54.80 | 0.18 | 0.53 |
| 2806-1CD-03 | 304 | 0.129 | Enamel | 692 | 602 | 54.28 | 0.21 | 0.64 |
| 2806-1CD-04 | 456 | 0.194 | Enamel | 695 | 625 | 55.04 | 0.15 | 0.69 |
| 2806-1CD-05 | 608 | 0.259 | Enamel | 708 | 604 | 55.22 | 0.16 | 0.73 |
| 2806-1CD-06 | 760 | 0.323 | Enamel | 658 | 586 | 54.86 | 0.18 | 0.75 |
| 2806-1CD-07 | 912 | 0.388 | Enamel | 751 | 563 | 55.07 | 0.15 | 0.76 |
| 2806-1CD-08 | 1064 | 0.453 | Enamel | 734 | 589 | 54.47 | 0.20 | 0.82 |

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|-------------|------|-------|--------|------|------|-------|------|------|
| 2806-1CD-09 | 1216 | 0.517 | Enamel | 837 | 598 | 54.81 | 0.20 | 0.77 |
| 2806-1CD-10 | 1368 | 0.582 | Enamel | 810 | 607 | 55.12 | 0.21 | 0.82 |
| 2806-1CD-11 | 1520 | 0.647 | Enamel | 840 | 624 | 54.97 | 0.20 | 0.80 |
| 2806-1CD-12 | 1672 | 0.711 | Enamel | 850 | 645 | 55.39 | 0.20 | 0.87 |
| 2806-1CD-13 | 1824 | 0.776 | Enamel | 745 | 632 | 55.25 | 0.22 | 0.87 |
| 2806-1CD-14 | 1976 | 0.841 | Enamel | 771 | 643 | 54.64 | 0.22 | 0.90 |
| 2806-1CD-15 | 2128 | 0.906 | Enamel | 745 | 655 | 54.62 | 0.22 | 1.03 |
| 2806-1CD-16 | 2280 | 0.970 | Enamel | 1189 | 664 | 55.02 | 0.25 | 1.04 |
| 2806-1CD-17 | 2432 | 1.035 | Dentin | 1546 | 871 | 54.41 | 0.26 | 1.07 |
| apical | | | | | | | | |
| 2806-1CD-01 | 2128 | 0.906 | Enamel | 868 | 727 | 55.12 | 0.11 | 0.64 |
| 2806-1CD-02 | 1995 | 0.849 | Enamel | 774 | 664 | 54.80 | 0.18 | 0.53 |
| 2806-1CD-03 | 1862 | 0.792 | Enamel | 781 | 668 | 54.28 | 0.21 | 0.64 |
| 2806-1CD-04 | 1729 | 0.736 | Enamel | 772 | 674 | 55.04 | 0.15 | 0.69 |
| 2806-1CD-05 | 1596 | 0.679 | Enamel | 824 | 673 | 55.22 | 0.16 | 0.73 |
| 2806-1CD-06 | 1463 | 0.623 | Enamel | 754 | 638 | 54.86 | 0.18 | 0.75 |
| 2806-1CD-07 | 1330 | 0.566 | Enamel | 835 | 621 | 55.07 | 0.15 | 0.76 |
| 2806-1CD-08 | 1197 | 0.509 | Enamel | 762 | 637 | 54.47 | 0.20 | 0.82 |
| 2806-1CD-09 | 1064 | 0.453 | Enamel | 719 | 647 | 54.81 | 0.20 | 0.77 |
| 2806-1CD-10 | 931 | 0.396 | Enamel | 713 | 609 | 55.12 | 0.21 | 0.82 |
| 2806-1CD-11 | 798 | 0.340 | Enamel | 682 | 622 | 54.97 | 0.20 | 0.80 |
| 2806-1CD-12 | 665 | 0.283 | Enamel | 667 | 626 | 55.39 | 0.20 | 0.87 |
| 2806-1CD-13 | 532 | 0.226 | Enamel | 712 | 674 | 55.25 | 0.22 | 0.87 |
| 2806-1CD-14 | 399 | 0.170 | Enamel | 694 | 683 | 54.64 | 0.22 | 0.90 |
| 2806-1CD-15 | 266 | 0.113 | Enamel | 738 | 669 | 54.62 | 0.22 | 1.03 |
| 2806-1CD-16 | 133 | 0.057 | Enamel | 811 | 631 | 55.02 | 0.25 | 1.04 |
| 2806-1CD-17 | 50 | 0.021 | Enamel | 795 | 655 | 54.41 | 0.26 | 1.07 |
| central | | | | | | | | |
| 2806-1AB-01 | 66 | 0.026 | Dentin | 1986 | 1575 | 54.26 | 0.09 | 0.65 |
| 2806-1AB-02 | 131 | 0.051 | Dentin | 2103 | 1661 | 53.76 | 0.13 | 0.59 |
| 2806-1AB-03 | 262 | 0.103 | Dentin | 2027 | 1670 | 54.11 | 0.15 | 0.60 |
| 2806-1AB-05 | 524 | 0.205 | Dentin | 2155 | 1725 | 54.48 | 0.14 | 0.57 |
| 2806-1AB-07 | 786 | 0.308 | Dentin | 1960 | 1564 | 50.12 | 0.16 | 0.58 |
| 2806-1AB-09 | 1048 | 0.411 | Dentin | 1856 | 1573 | 52.37 | 0.15 | 0.65 |
| 2806-1AB-11 | 1310 | 0.514 | Dentin | 2022 | 1617 | 53.78 | 0.20 | 0.51 |
| 2806-1AB-13 | 1572 | 0.616 | Dentin | 2089 | 1698 | 54.67 | 0.16 | 0.51 |
| 2806-1AB-15 | 1834 | 0.719 | Dentin | 1930 | 1635 | 53.85 | 0.18 | 0.49 |
| 2806-1AB-17 | 2096 | 0.822 | Dentin | 1851 | 1629 | 54.27 | 0.15 | 0.50 |
| 2806-1AB-19 | 2358 | 0.925 | Dentin | 1885 | 1622 | 54.29 | 0.24 | 0.49 |
| 2806-1AB-20 | 2489 | 0.976 | Dentin | 2275 | 1589 | 53.88 | 0.12 | 0.63 |

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|--------------------|------------------------|-------------------------|----------------|--------------------------------------|--|--|--|--|
| Cat# 051-06 | <i>Hippopotamus sp</i> | Lake Albert, Nkondo Fm. | Molar fragment | Surface Find; E30.9098407 N1.4331446 | | | | |
|--------------------|------------------------|-------------------------|----------------|--------------------------------------|--|--|--|--|

apical

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|-------------|------|-------|--------|------|------|-------|------|------|
| 5106-1AB-02 | 120 | 0.044 | Enamel | 164 | 668 | 55.70 | 0.25 | 0.65 |
| 5106-1AB-03 | 240 | 0.089 | Enamel | 205 | 674 | 55.52 | 0.21 | 0.63 |
| 5106-1AB-04 | 360 | 0.133 | Enamel | 204 | 682 | 56.04 | 0.20 | 0.72 |
| 5106-1AB-05 | 480 | 0.178 | Enamel | 197 | 669 | 55.49 | 0.16 | 0.66 |
| 5106-1AB-06 | 600 | 0.222 | Enamel | 145 | 565 | 55.56 | 0.17 | 0.83 |
| 5106-1AB-07 | 720 | 0.267 | Enamel | 142 | 550 | 55.59 | 0.20 | 0.76 |
| 5106-1AB-08 | 840 | 0.311 | Enamel | 153 | 553 | 55.43 | 0.21 | 0.85 |
| 5106-1AB-09 | 960 | 0.356 | Enamel | 153 | 605 | 55.47 | 0.21 | 0.83 |
| 5106-1AB-10 | 1080 | 0.400 | Enamel | 144 | 684 | 55.76 | 0.18 | 0.79 |
| 5106-1AB-11 | 1200 | 0.444 | Enamel | 254 | 705 | 55.51 | 0.20 | 0.80 |
| 5106-1AB-12 | 1320 | 0.489 | Enamel | 266 | 718 | 55.23 | 0.21 | 0.76 |
| 5106-1AB-13 | 1440 | 0.533 | Enamel | 396 | 690 | 55.37 | 0.18 | 0.64 |
| 5106-1AB-14 | 1560 | 0.578 | Enamel | 301 | 706 | 55.21 | 0.19 | 0.55 |
| 5106-1AB-15 | 1680 | 0.622 | Enamel | 528 | 733 | 54.85 | 0.12 | 0.48 |
| 5106-1AB-16 | 1800 | 0.667 | Enamel | 436 | 704 | 55.20 | 0.14 | 0.53 |
| 5106-1AB-17 | 1920 | 0.711 | Enamel | 490 | 697 | 54.53 | 0.13 | 0.44 |
| 5106-1AB-18 | 2040 | 0.756 | Enamel | 633 | 692 | 54.79 | 0.09 | 0.52 |
| 5106-1AB-19 | 2160 | 0.800 | Enamel | 694 | 711 | 54.65 | 0.13 | 0.42 |
| 5106-1AB-20 | 2280 | 0.844 | Enamel | 911 | 735 | 55.39 | 0.10 | 0.38 |
| 5106-1AB-21 | 2400 | 0.889 | Enamel | 1021 | 750 | 55.41 | 0.10 | 0.40 |
| 5106-1AB-22 | 2520 | 0.933 | Enamel | 864 | 742 | 55.38 | 0.10 | 0.40 |
| 5106-1AB-23 | 2640 | 0.978 | Enamel | 256 | 559 | 54.30 | 0.10 | 0.27 |
| 5106-1AB-24 | 2760 | 1.022 | Dentin | 125 | 806 | 59.66 | 0.18 | 0.31 |
| 5106-1AB-26 | 3000 | 1.111 | Dentin | 4241 | 1074 | 53.88 | 0.09 | 0.28 |
| 5106-1AB-27 | 3120 | 1.156 | Dentin | 4302 | 835 | 53.88 | 0.09 | 0.28 |
| 5106-1AB-29 | 3360 | 1.244 | Dentin | 2337 | 781 | 55.54 | 0.05 | 0.25 |

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|--------------------|------------------------|-------------------------|----------------|---------------------------------------|--|--|--|--|
| Cat# 027-06 | <i>Hippopotamus sp</i> | Lake Albert, Nkondo Fm. | Molar fragment | Surface Find; E30.8817553 N1.40699002 | | | | |
|--------------------|------------------------|-------------------------|----------------|---------------------------------------|--|--|--|--|

apical

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|-------------|------|-------|--------|------|-----|-------|------|------|
| 2706-1AB-01 | 50 | 0.020 | Enamel | 565 | 478 | 55.29 | 0.21 | 0.87 |
| 2706-1AB-02 | 164 | 0.065 | Enamel | 603 | 473 | 55.39 | 0.20 | 0.85 |
| 2706-1AB-03 | 328 | 0.129 | Enamel | 641 | 489 | 55.69 | 0.23 | 0.92 |
| 2706-1AB-04 | 492 | 0.194 | Enamel | 1701 | 505 | 55.59 | 0.21 | 0.87 |
| 2706-1AB-05 | 656 | 0.258 | Enamel | 1632 | 521 | 55.49 | 0.22 | 0.97 |
| 2706-1AB-06 | 820 | 0.323 | Enamel | 657 | 513 | 55.94 | 0.21 | 0.91 |
| 2706-1AB-07 | 984 | 0.387 | Enamel | 655 | 519 | 55.44 | 0.24 | 0.98 |
| 2706-1AB-08 | 1148 | 0.452 | Enamel | 652 | 527 | 55.75 | 0.22 | 0.99 |
| 2706-1AB-09 | 1312 | 0.517 | Riss | 516 | 506 | 55.35 | 0.27 | 1.00 |
| 2706-1AB-10 | 1476 | 0.581 | Enamel | 674 | 521 | 55.75 | 0.23 | 1.04 |
| 2706-1AB-11 | 1640 | 0.646 | Enamel | 739 | 526 | 55.08 | 0.22 | 1.08 |
| 2706-1AB-12 | 1804 | 0.710 | Enamel | 789 | 553 | 55.87 | 0.24 | 1.15 |

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|-------------|------|-------|--------|-----|------|-------|------|------|
| 2706-1AB-13 | 1968 | 0.775 | Enamel | 833 | 568 | 55.32 | 0.28 | 1.28 |
| 2706-1AB-14 | 2132 | 0.839 | Enamel | 864 | 575 | 55.34 | 0.22 | 1.30 |
| 2706-1AB-15 | 2296 | 0.904 | Enamel | 822 | 548 | 55.36 | 0.23 | 1.43 |
| 2706-1AB-16 | 2460 | 0.969 | Enamel | 922 | 615 | 55.41 | 0.29 | 0.50 |
| 2706-1AB-17 | 2624 | 1.033 | Dentin | 561 | 1240 | 55.52 | 0.23 | 0.43 |

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|---------------|------------------------|---|-------------------|---------------------------------------|--|--|--|--|
| GPS165 | <i>Hippopotamus sp</i> | Lake Albert, Nyabusosi Fm, Kagusa Mb. | Molar fragment | Surface Find; E30°18,597 N0°59,238 | | | | |
|---------------|------------------------|---|-------------------|---------------------------------------|--|--|--|--|

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|---------------|------|-------|--------|-----|-----|-------|------|------|
| GPS165-1AB-01 | 95 | 0.029 | Enamel | 245 | 718 | 54.53 | 0.19 | 0.89 |
| GPS165-1AB-02 | 190 | 0.058 | Enamel | 478 | 677 | 55.46 | 0.23 | 0.75 |
| GPS165-1AB-03 | 380 | 0.115 | Enamel | 334 | 628 | 55.46 | 0.24 | 0.84 |
| GPS165-1AB-04 | 570 | 0.173 | Enamel | 310 | 624 | 55.48 | 0.26 | 0.88 |
| GPS165-1AB-05 | 760 | 0.230 | Enamel | 391 | 615 | 55.23 | 0.22 | 0.86 |
| GPS165-1AB-06 | 950 | 0.288 | Enamel | 561 | 603 | 55.58 | 0.22 | 0.99 |
| GPS165-1AB-07 | 1140 | 0.345 | Enamel | 370 | 584 | 55.32 | 0.25 | 1.07 |
| GPS165-1AB-08 | 1330 | 0.403 | Enamel | 417 | 596 | 55.65 | 0.27 | 1.07 |
| GPS165-1AB-09 | 1520 | 0.461 | Enamel | 581 | 603 | 55.25 | 0.28 | 1.06 |
| GPS165-1AB-10 | 1710 | 0.518 | Enamel | 439 | 617 | 55.65 | 0.30 | 1.08 |
| GPS165-1AB-11 | 1900 | 0.576 | Enamel | 724 | 625 | 54.77 | 0.30 | 1.14 |
| GPS165-1AB-12 | 2090 | 0.633 | Enamel | 954 | 746 | 56.14 | 0.29 | 1.13 |
| GPS165-1AB-13 | 2280 | 0.691 | Enamel | 383 | 728 | 55.41 | 0.35 | 1.24 |
| GPS165-1AB-14 | 2470 | 0.748 | Enamel | 920 | 782 | 55.37 | 0.28 | 1.28 |
| GPS165-1AB-15 | 2660 | 0.806 | Enamel | 942 | 756 | 55.37 | 0.28 | 1.28 |
| GPS165-1AB-16 | 2850 | 0.864 | Enamel | 365 | 728 | 55.37 | 0.28 | 1.28 |
| GPS165-1AB-17 | 3040 | 0.921 | Enamel | 342 | 706 | 55.37 | 0.28 | 1.28 |
| GPS165-1AB-18 | 3230 | 0.979 | Enamel | 312 | 665 | 55.37 | 0.28 | 1.28 |

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|---------------|------|-------|--------|------|-----|-------|------|------|
| GPS165-1AB-02 | 240 | 0.075 | Enamel | 319 | 604 | 55.46 | 0.23 | 0.75 |
| GPS165-1AB-03 | 480 | 0.149 | Enamel | 294 | 605 | 55.46 | 0.24 | 0.84 |
| GPS165-1AB-04 | 720 | 0.224 | Enamel | 435 | 616 | 55.48 | 0.26 | 0.88 |
| GPS165-1AB-05 | 960 | 0.298 | Enamel | 324 | 636 | 55.23 | 0.22 | 0.86 |
| GPS165-1AB-06 | 1200 | 0.373 | Enamel | 468 | 660 | 55.58 | 0.22 | 0.99 |
| GPS165-1AB-07 | 1440 | 0.447 | Enamel | 329 | 674 | 55.32 | 0.25 | 1.07 |
| GPS165-1AB-08 | 1680 | 0.522 | Enamel | 723 | 775 | 55.65 | 0.27 | 1.07 |
| GPS165-1AB-09 | 1920 | 0.596 | Enamel | 1253 | 840 | 55.25 | 0.28 | 1.06 |
| GPS165-1AB-10 | 2160 | 0.671 | Enamel | 326 | 783 | 55.65 | 0.30 | 1.08 |
| GPS165-1AB-11 | 2400 | 0.745 | Enamel | 697 | 828 | 54.77 | 0.30 | 1.14 |
| GPS165-1AB-12 | 2640 | 0.820 | Enamel | 384 | 829 | 56.14 | 0.29 | 1.13 |
| GPS165-1AB-13 | 2880 | 0.894 | Enamel | 329 | 755 | 55.41 | 0.35 | 1.24 |
| GPS165-1AB-14 | 3120 | 0.969 | Enamel | 359 | 805 | 55.37 | 0.28 | 1.28 |
| GPS165-1AB-15 | 3360 | 1.043 | Dentin | 274 | 861 | 55.15 | 0.23 | 0.63 |
| GPS165-1AB-16 | 3600 | 1.118 | Dentin | 250 | 735 | 55.12 | 0.20 | 0.68 |

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|---------------|-----|-------|--------|-----|-----|-------|------|------|
| GPS165-1CD-01 | 850 | 0.032 | Enamel | 320 | 592 | 56.03 | 0.22 | 0.84 |
|---------------|-----|-------|--------|-----|-----|-------|------|------|

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|---------------|------|-------|--------|------|-----|-------|------|------|
| GPS165-1CD-02 | 958 | 0.070 | Enamel | 329 | 607 | 55.49 | 0.24 | 0.85 |
| GPS165-1CD-03 | 1066 | 0.139 | Enamel | 647 | 614 | 54.69 | 0.19 | 0.90 |
| GPS165-1CD-04 | 1174 | 0.209 | Enamel | 386 | 612 | 55.42 | 0.26 | 0.88 |
| GPS165-1CD-05 | 1282 | 0.279 | Enamel | 387 | 613 | 55.03 | 0.24 | 0.92 |
| GPS165-1CD-06 | 1390 | 0.348 | Enamel | 299 | 610 | 55.25 | 0.22 | 0.85 |
| GPS165-1CD-07 | 1498 | 0.418 | Enamel | 630 | 651 | 55.59 | 0.27 | 0.92 |
| GPS165-1CD-08 | 1606 | 0.488 | Enamel | 585 | 669 | 55.31 | 0.22 | 0.97 |
| GPS165-1CD-09 | 1714 | 0.557 | Enamel | 1222 | 719 | 55.58 | 0.22 | 0.94 |
| GPS165-1CD-10 | 1822 | 0.627 | Enamel | 468 | 724 | 55.60 | 0.27 | 0.88 |
| GPS165-1CD-11 | 1930 | 0.697 | Enamel | 397 | 696 | 55.48 | 0.28 | 0.84 |
| GPS165-1CD-12 | 2038 | 0.766 | Enamel | 351 | 715 | 54.56 | 0.29 | 0.95 |
| GPS165-1CD-13 | 2146 | 0.836 | Enamel | 375 | 772 | 55.54 | 0.24 | 1.00 |
| GPS165-1CD-14 | 2254 | 0.906 | Enamel | 830 | 792 | 54.77 | 0.29 | 1.01 |
| GPS165-1CD-15 | 2362 | 0.975 | Enamel | 555 | 813 | 54.36 | 0.26 | 1.01 |

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|--------------------|------------------------|-------------------------|----------------|---|--|--|--|--|
| Cat# 007-06 | <i>Hippopotamus sp</i> | Lake Albert, Nkondo Fm. | Molar fragment | Surface Find; E30.89527824 N1.413623599 | | | | |
|--------------------|------------------------|-------------------------|----------------|---|--|--|--|--|

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|------------|------|-------|--------|------|------|-------|------|------|
| 007-1AB 01 | 50 | 0.029 | Enamel | 559 | 403 | 54.78 | 0.23 | 0.90 |
| 007-1AB 02 | 111 | 0.065 | Enamel | 590 | 426 | 54.04 | 0.27 | 0.86 |
| 007-1AB 03 | 222 | 0.130 | Enamel | 616 | 442 | 53.71 | 0.25 | 0.99 |
| 007-1AB 04 | 333 | 0.195 | Enamel | 605 | 453 | 54.71 | 0.23 | 0.98 |
| 007-1AB 05 | 444 | 0.260 | Enamel | 621 | 463 | 53.60 | 0.24 | 1.00 |
| 007-1AB 06 | 555 | 0.325 | Enamel | 635 | 479 | 55.03 | 0.22 | 0.97 |
| 007-1AB 07 | 666 | 0.389 | Enamel | 662 | 491 | 54.20 | 0.22 | 1.06 |
| 007-1AB 08 | 777 | 0.454 | Enamel | 675 | 490 | 54.10 | 0.20 | 1.12 |
| 007-1AB 09 | 888 | 0.519 | Enamel | 698 | 516 | 54.22 | 0.25 | 1.10 |
| 007-1AB 10 | 999 | 0.584 | Enamel | 747 | 516 | 53.40 | 0.22 | 1.14 |
| 007-1AB 11 | 1110 | 0.649 | Enamel | 773 | 523 | 54.49 | 0.26 | 1.26 |
| 007-1AB 12 | 1221 | 0.714 | Enamel | 798 | 540 | 53.28 | 0.30 | 1.25 |
| 007-1AB 13 | 1332 | 0.779 | Enamel | 823 | 538 | 54.38 | 0.26 | 1.31 |
| 007-1AB 14 | 1443 | 0.844 | Enamel | 854 | 555 | 53.16 | 0.24 | 1.35 |
| 007-1AB 15 | 1554 | 0.909 | Enamel | 880 | 548 | 53.73 | 0.28 | 1.32 |
| 007-1AB 16 | 1665 | 0.974 | Enamel | 905 | 559 | 54.09 | 0.26 | 1.37 |
| 007-1AB 17 | 1776 | 1.039 | Dentin | 1142 | 1641 | 52.97 | 0.19 | 0.63 |
| 007-1AB 18 | 1887 | 1.104 | Dentin | 1433 | 1617 | 53.00 | 0.17 | 0.80 |
| 007-1AB 19 | 1998 | 1.168 | Dentin | 1474 | 1596 | 52.47 | 0.16 | 0.61 |

central

| | | | | | | | | |
|------------|-----|-------|--------|-----|-----|-------|------|------|
| 007-2AB 01 | 66 | 0.032 | Enamel | 307 | 574 | 53.35 | 0.17 | 0.64 |
| 007-2AB 02 | 132 | 0.064 | Enamel | 259 | 573 | 53.97 | 0.15 | 0.74 |
| 007-2AB 03 | 264 | 0.129 | Enamel | 393 | 486 | 53.87 | 0.14 | 0.86 |
| 007-2AB 04 | 396 | 0.193 | Enamel | 356 | 479 | 53.55 | 0.14 | 0.88 |
| 007-2AB 05 | 528 | 0.258 | Enamel | 482 | 467 | 54.70 | 0.22 | 0.93 |
| 007-2AB 06 | 660 | 0.322 | Enamel | 514 | 440 | 54.05 | 0.20 | 0.96 |
| 007-2AB 07 | 792 | 0.386 | Enamel | 646 | 475 | 54.45 | 0.24 | 0.96 |
| 007-2AB 08 | 924 | 0.451 | Enamel | 682 | 480 | 53.62 | 0.24 | 0.99 |

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|------------|------|-------|--------|------|------|-------|------|------|
| 007-2AB 09 | 1056 | 0.515 | Enamel | 701 | 486 | 54.01 | 0.23 | 1.09 |
| 007-2AB 10 | 1188 | 0.580 | Enamel | 695 | 478 | 53.41 | 0.17 | 1.03 |
| 007-2AB 11 | 1320 | 0.644 | Enamel | 701 | 496 | 53.97 | 0.23 | 1.07 |
| 007-2AB 12 | 1452 | 0.708 | Enamel | 719 | 497 | 53.93 | 0.18 | 1.08 |
| 007-2AB 13 | 1584 | 0.773 | Enamel | 763 | 513 | 53.64 | 0.23 | 1.24 |
| 007-2AB 14 | 1716 | 0.837 | Enamel | 789 | 519 | 54.28 | 0.21 | 1.25 |
| 007-2AB 15 | 1848 | 0.901 | Enamel | 765 | 520 | 52.91 | 0.25 | 1.23 |
| 007-2AB 16 | 1980 | 0.966 | Enamel | 838 | 537 | 53.80 | 0.21 | 1.41 |
| 007-2AB 17 | 2112 | 1.030 | Dentin | 1069 | 1422 | 52.95 | 0.25 | 0.63 |
| 007-2AB 18 | 2244 | 1.095 | Dentin | 1148 | 1617 | 52.95 | 0.26 | 0.53 |
| 007-2AB 19 | 2376 | 1.159 | Dentin | 1277 | 1621 | 53.01 | 0.18 | 0.59 |
| apical | | | | | | | | |
| 007-3AB 01 | 50 | 0.027 | Enamel | 1346 | 1709 | 53.57 | 0.23 | 0.70 |
| 007-3AB 02 | 111 | 0.061 | Enamel | 493 | 620 | 53.42 | 0.17 | 0.73 |
| 007-3AB 03 | 222 | 0.121 | Enamel | 454 | 558 | 53.23 | 0.14 | 0.84 |
| 007-3AB 04 | 333 | 0.182 | Enamel | 486 | 552 | 53.75 | 0.15 | 0.81 |
| 007-3AB 05 | 444 | 0.243 | Enamel | 568 | 537 | 53.72 | 0.20 | 0.86 |
| 007-3AB 06 | 555 | 0.303 | Enamel | 601 | 480 | 53.34 | 0.19 | 0.97 |
| 007-3AB 07 | 666 | 0.364 | Enamel | 627 | 488 | 54.27 | 0.21 | 0.93 |
| 007-3AB 08 | 777 | 0.425 | Enamel | 661 | 495 | 53.92 | 0.19 | 0.96 |
| 007-3AB 09 | 888 | 0.485 | Enamel | 678 | 492 | 54.08 | 0.24 | 0.90 |
| 007-3AB 10 | 999 | 0.546 | Enamel | 681 | 499 | 53.93 | 0.22 | 1.02 |
| 007-3AB 11 | 1110 | 0.607 | Enamel | 667 | 507 | 53.67 | 0.20 | 1.08 |
| 007-3AB 12 | 1221 | 0.667 | Enamel | 687 | 518 | 54.06 | 0.22 | 1.17 |
| 007-3AB 13 | 1332 | 0.728 | Enamel | 730 | 509 | 53.50 | 0.23 | 1.20 |
| 007-3AB 14 | 1443 | 0.789 | Enamel | 778 | 529 | 54.34 | 0.22 | 1.22 |
| 007-3AB 15 | 1554 | 0.849 | Enamel | 755 | 525 | 54.28 | 0.25 | 1.20 |
| 007-3AB 16 | 1665 | 0.910 | Enamel | 734 | 505 | 53.83 | 0.28 | 1.40 |
| 007-3AB 17 | 1776 | 0.970 | Enamel | 718 | 507 | 52.66 | 0.20 | 0.81 |
| 007-3AB 18 | 1887 | 1.031 | Dentin | 942 | 1744 | 52.51 | 0.17 | 0.74 |
| 007-3AB 19 | 1998 | 1.092 | Dentin | 881 | 1777 | 53.45 | 0.18 | 0.63 |
| 007-3AB 20 | 2109 | 1.152 | Dentin | 1058 | 1867 | 53.72 | 0.18 | 0.62 |

| Sample | Distance μm | Distance Norm | Mineral | Ba $\mu\text{g/g}$ | Sr $\mu\text{g/g}$ | CaO wt.% | MgO wt.% | Na ₂ O wt.% |
|-----------------------|-------------------------------|----------------|----------|--|--------------------|----------|----------|------------------------|
| Lake Kikorongo | <i>Hippopotamus amphibius</i> | Lake Kikorongo | Molar M3 | Surface Find; 36 M 167820 E; 9999258 S | | | | |
| Kiko-1EF-01 | 50 | 0.015 | Enamel | 378 | 1765 | 55.12 | 1.18 | 1.25 |
| Kiko-1EF-02 | 134 | 0.041 | Enamel | 261 | 1667 | 55.13 | 0.95 | 0.96 |
| Kiko-1EF-03 | 268 | 0.082 | Enamel | 228 | 1637 | 54.80 | 0.74 | 0.91 |
| Kiko-1EF-04 | 402 | 0.123 | Enamel | 203 | 1602 | 54.73 | 0.43 | 1.03 |
| Kiko-1EF-05 | 536 | 0.163 | Enamel | 204 | 1678 | 55.04 | 0.32 | 0.85 |
| Kiko-1EF-06 | 670 | 0.204 | Enamel | 190 | 1699 | 54.90 | 0.41 | 0.83 |
| Kiko-1EF-07 | 804 | 0.245 | Enamel | 186 | 1908 | 55.11 | 0.40 | 0.86 |
| Kiko-1EF-08 | 938 | 0.286 | Enamel | 197 | 2069 | 54.84 | 0.42 | 0.93 |
| Kiko-1EF-09 | 1072 | 0.327 | Enamel | 222 | 2154 | 55.47 | 0.43 | 0.92 |
| Kiko-1EF-10 | 1206 | 0.368 | Enamel | 238 | 2135 | 55.41 | 0.45 | 0.95 |
| Kiko-1EF-11 | 1340 | 0.409 | Enamel | 244 | 2196 | 54.96 | 0.43 | 0.89 |
| Kiko-1EF-12 | 1474 | 0.449 | Enamel | 255 | 2271 | 55.19 | 0.45 | 0.94 |
| Kiko-1EF-13 | 1608 | 0.490 | Enamel | 251 | 2242 | 54.97 | 0.43 | 1.06 |
| Kiko-1EF-14 | 1742 | 0.531 | Enamel | 258 | 2220 | 55.40 | 0.44 | 0.99 |
| Kiko-1EF-15 | 1876 | 0.572 | Enamel | 255 | 2216 | 55.70 | 0.49 | 1.06 |
| Kiko-1EF-16 | 2010 | 0.613 | Enamel | 271 | 2280 | 55.62 | 0.44 | 1.03 |
| Kiko-1EF-17 | 2144 | 0.654 | Enamel | 265 | 2217 | 55.26 | 0.48 | 1.06 |
| Kiko-1EF-18 | 2278 | 0.695 | Enamel | 284 | 2269 | 55.08 | 0.45 | 1.23 |
| Kiko-1EF-19 | 2412 | 0.735 | Enamel | 307 | 2326 | 55.60 | 0.49 | 1.13 |
| Kiko-1EF-20 | 2546 | 0.776 | Enamel | 301 | 2316 | 55.24 | 0.53 | 1.28 |
| Kiko-1EF-21 | 2680 | 0.817 | Enamel | 325 | 2557 | 55.21 | 0.49 | 1.17 |
| Kiko-1EF-22 | 2814 | 0.858 | Enamel | 515 | 2673 | 55.04 | 0.52 | 1.22 |
| Kiko-1EF-23 | 2948 | 0.899 | Enamel | 990 | 7205 | 55.07 | 0.52 | 1.23 |
| Kiko-1EF-24 | 3082 | 0.940 | Enamel | 863 | 2516 | 54.77 | 0.70 | 1.32 |
| Kiko-1EF-25 | 3216 | 0.980 | Enamel | 1523 | 4325 | 55.15 | 0.59 | 1.40 |
| Kiko-1EF-26 | 3350 | 1.021 | Dentin | 1646 | 4439 | 72.74 | 9.80 | 0.67 |
| Kiko-1EF-27 | 3484 | 1.062 | Dentin | 1658 | 4418 | 63.45 | 3.86 | 0.63 |
| Kiko-1EF-28 | 3618 | 1.103 | Dentin | 1735 | 4570 | 63.21 | 0.68 | 0.79 |
| Kiko-1EF-29 | 3752 | 1.144 | Dentin | 1816 | 4529 | 72.07 | 0.97 | 0.74 |
| Kiko-1EF-30 | 3886 | 1.185 | Dentin | 1805 | 4695 | 71.66 | 2.06 | 0.59 |
| cervical | | | | | | | | |
| Kiko-1EF-1 | 50 | 0.016 | Enamel | 1275 | 4785 | 55.12 | 1.18 | 1.25 |
| Kiko-1EF-2 | 134 | 0.043 | Enamel | 806 | 3532 | 55.13 | 0.95 | 0.96 |
| Kiko-1EF-3 | 268 | 0.085 | Enamel | 648 | 2875 | 54.80 | 0.74 | 0.91 |
| Kiko-1EF-4 | 402 | 0.128 | Enamel | 432 | 2350 | 54.73 | 0.43 | 1.03 |
| Kiko-1EF-5 | 536 | 0.170 | Enamel | 274 | 2222 | 55.04 | 0.32 | 0.85 |
| Kiko-1EF-6 | 670 | 0.213 | Enamel | 243 | 2451 | 54.90 | 0.41 | 0.83 |
| Kiko-1EF-7 | 804 | 0.255 | Enamel | 265 | 2642 | 55.11 | 0.40 | 0.86 |
| Kiko-1EF-8 | 938 | 0.298 | Enamel | 275 | 2695 | 54.84 | 0.42 | 0.93 |
| Kiko-1EF-9 | 1072 | 0.340 | Enamel | 260 | 2857 | 55.47 | 0.43 | 0.92 |

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|-------------|------|-------|--------|------|------|-------|------|------|
| Kiko-1EF-10 | 1206 | 0.383 | Enamel | 279 | 2980 | 55.41 | 0.45 | 0.95 |
| Kiko-1EF-11 | 1340 | 0.425 | Enamel | 283 | 3177 | 54.96 | 0.43 | 0.89 |
| Kiko-1EF-12 | 1474 | 0.468 | Enamel | 322 | 3193 | 55.19 | 0.45 | 0.94 |
| Kiko-1EF-13 | 1608 | 0.510 | Enamel | 335 | 3246 | 54.97 | 0.43 | 1.06 |
| Kiko-1EF-14 | 1742 | 0.553 | Enamel | 324 | 3397 | 55.40 | 0.44 | 0.99 |
| Kiko-1EF-15 | 1876 | 0.596 | Enamel | 339 | 3288 | 55.70 | 0.49 | 1.06 |
| Kiko-1EF-16 | 2010 | 0.638 | Enamel | 356 | 3461 | 55.62 | 0.44 | 1.03 |
| Kiko-1EF-17 | 2144 | 0.681 | Enamel | 391 | 3608 | 55.26 | 0.48 | 1.06 |
| Kiko-1EF-18 | 2278 | 0.723 | Enamel | 392 | 3629 | 55.08 | 0.45 | 1.23 |
| Kiko-1EF-19 | 2412 | 0.766 | Enamel | 435 | 3962 | 55.60 | 0.49 | 1.13 |
| Kiko-1EF-20 | 2546 | 0.808 | Enamel | 434 | 4113 | 55.24 | 0.53 | 1.28 |
| Kiko-1EF-21 | 2680 | 0.851 | Enamel | 448 | 4127 | 55.21 | 0.49 | 1.17 |
| Kiko-1EF-22 | 2814 | 0.893 | Enamel | 478 | 4134 | 55.04 | 0.52 | 1.22 |
| Kiko-1EF-23 | 2948 | 0.936 | Enamel | 467 | 4119 | 55.07 | 0.52 | 1.23 |
| Kiko-1EF-24 | 3082 | 0.978 | Enamel | 356 | 2564 | 54.77 | 0.70 | 1.32 |
| Kiko-1EF-25 | 3216 | 1.021 | Enamel | 1771 | 6494 | 55.15 | 0.59 | 1.40 |
| Kiko-1EF-26 | 3350 | 1.063 | Dentin | 1516 | 5423 | 72.74 | 9.80 | 0.67 |
| Kiko-1EF-27 | 3484 | 1.106 | Dentin | 1683 | 5759 | 63.45 | 3.86 | 0.63 |
| Kiko-1EF-28 | 3618 | 1.149 | Dentin | 1860 | 6122 | 63.21 | 0.68 | 0.79 |
| Kiko-1EF-29 | 3752 | 1.191 | Dentin | 1693 | 5756 | 72.07 | 0.97 | 0.74 |
| Kiko-1EF-30 | 3886 | 1.234 | Dentin | 1397 | 5354 | 71.66 | 2.06 | 0.59 |
| apical | | | | | | | | |
| Kiko-3AB-01 | 50 | 0.020 | Enamel | 567 | 2141 | 54.03 | 0.44 | 0.86 |
| Kiko-3AB-02 | 115 | 0.047 | Enamel | 285 | 1934 | 53.81 | 0.37 | 0.84 |
| Kiko-3AB-03 | 230 | 0.093 | Enamel | 241 | 1896 | 53.85 | 0.36 | 0.95 |
| Kiko-3AB-04 | 345 | 0.140 | Enamel | 221 | 1814 | 54.20 | 0.31 | 0.79 |
| Kiko-3AB-05 | 460 | 0.186 | Enamel | 196 | 2000 | 54.18 | 0.33 | 0.92 |
| Kiko-3AB-06 | 575 | 0.233 | Enamel | 192 | 1932 | 54.17 | 0.33 | 0.87 |
| Kiko-3AB-07 | 690 | 0.279 | Enamel | 182 | 2313 | 54.10 | 0.39 | 1.09 |
| Kiko-3AB-08 | 805 | 0.326 | Enamel | 208 | 2391 | 54.22 | 0.44 | 1.04 |
| Kiko-3AB-09 | 920 | 0.372 | Enamel | 225 | 2497 | 54.38 | 0.45 | 1.02 |
| Kiko-3AB-10 | 1035 | 0.419 | Enamel | 217 | 2426 | 54.10 | 0.47 | 1.04 |
| Kiko-3AB-11 | 1150 | 0.466 | Enamel | 230 | 2477 | 54.54 | 0.45 | 1.07 |
| Kiko-3AB-12 | 1265 | 0.512 | Enamel | 249 | 2563 | 54.36 | 0.48 | 1.09 |
| Kiko-3AB-13 | 1380 | 0.559 | Enamel | 242 | 2475 | 54.56 | 0.47 | 1.15 |
| Kiko-3AB-14 | 1495 | 0.605 | Enamel | 253 | 2620 | 54.93 | 0.47 | 1.07 |
| Kiko-3AB-15 | 1610 | 0.652 | Enamel | 244 | 2504 | 55.68 | 0.45 | 1.05 |
| Kiko-3AB-16 | 1725 | 0.698 | Enamel | 260 | 2598 | 54.72 | 0.47 | 1.26 |
| Kiko-3AB-17 | 1840 | 0.745 | Enamel | 255 | 2465 | 54.18 | 0.44 | 1.16 |
| Kiko-3AB-18 | 1955 | 0.791 | Enamel | 285 | 2619 | 55.17 | 0.47 | 1.28 |
| Kiko-3AB-19 | 2070 | 0.838 | Enamel | 292 | 2618 | 54.14 | 0.48 | 1.26 |
| Kiko-3AB-20 | 2185 | 0.885 | Enamel | 265 | 2537 | 54.17 | 0.45 | 1.19 |
| Kiko-3AB-21 | 2300 | 0.931 | Enamel | 321 | 2950 | 54.18 | 0.51 | 1.40 |
| Kiko-3AB-22 | 2415 | 0.978 | Enamel | 310 | 2852 | 54.03 | 0.53 | 1.64 |
| Kiko-3AB-23 | 2530 | 1.024 | Dentin | 1472 | 4980 | 58.59 | 1.36 | 1.17 |

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|-------------|------|-------|--------|------|------|-------|------|------|
| Kiko-3AB-24 | 2645 | 1.071 | Dentin | 1518 | 4789 | 56.36 | 1.03 | 1.00 |
| Kiko-3AB-25 | 2760 | 1.117 | Dentin | 1586 | 4921 | 56.08 | 0.96 | 0.95 |
| Kiko-3AB-26 | 2875 | 1.164 | Dentin | 1598 | 4880 | 55.53 | 1.03 | 1.17 |
| Kiko-3AB-27 | 2990 | 1.211 | Dentin | 1738 | 4971 | 55.23 | 0.93 | 1.16 |
| Kiko-3AB-28 | 3105 | 1.257 | Dentin | 1736 | 5078 | 55.43 | 0.96 | 0.98 |
| Kiko-3AB-29 | 3220 | 1.304 | Dentin | 1940 | 5162 | 56.19 | 1.08 | 1.20 |
| Kiko-3AB-30 | 3335 | 1.350 | Dentin | 1960 | 5225 | 56.19 | 1.08 | 1.20 |
| cervical | | | | | | | | |
| Kiko-1AB-01 | 85 | 0.025 | Enamel | 1094 | 9336 | 55.77 | 0.30 | 0.89 |
| Kiko-1AB-02 | 173 | 0.051 | Enamel | 714 | 3228 | 55.74 | 0.32 | 0.80 |
| Kiko-1AB-03 | 346 | 0.103 | Enamel | 380 | 2145 | 55.75 | 0.25 | 0.72 |
| Kiko-1AB-04 | 519 | 0.154 | Enamel | 291 | 2185 | 55.53 | 0.39 | 0.95 |
| Kiko-1AB-05 | 692 | 0.206 | Enamel | 263 | 2007 | 55.51 | 0.33 | 0.70 |
| Kiko-1AB-06 | 865 | 0.257 | Enamel | 277 | 2224 | 55.59 | 0.41 | 0.93 |
| Kiko-1AB-07 | 1038 | 0.309 | Enamel | 293 | 2512 | 55.85 | 0.43 | 0.98 |
| Kiko-1AB-08 | 1211 | 0.360 | Enamel | 303 | 2734 | 55.69 | 0.39 | 0.86 |
| Kiko-1AB-09 | 1384 | 0.412 | Enamel | 320 | 2796 | 55.33 | 0.41 | 0.88 |
| Kiko-1AB-10 | 1557 | 0.463 | Enamel | 322 | 2871 | 55.54 | 0.44 | 1.03 |
| Kiko-1AB-11 | 1730 | 0.515 | Enamel | 334 | 2915 | 55.03 | 0.41 | 1.08 |
| Kiko-1AB-12 | 1903 | 0.566 | Enamel | 349 | 2956 | 54.56 | 0.37 | 0.90 |
| Kiko-1AB-13 | 2076 | 0.618 | Enamel | 377 | 3107 | 55.10 | 0.48 | 1.21 |
| Kiko-1AB-14 | 2249 | 0.669 | Enamel | 379 | 3051 | 54.87 | 0.52 | 1.25 |
| Kiko-1AB-15 | 2422 | 0.721 | Enamel | 442 | 3413 | 54.75 | 0.46 | 1.24 |
| Kiko-1AB-16 | 2595 | 0.772 | Enamel | 501 | 3580 | 54.83 | 0.41 | 1.33 |
| Kiko-1AB-17 | 2768 | 0.824 | Enamel | 462 | 3458 | 55.22 | 0.45 | 1.12 |
| Kiko-1AB-18 | 2941 | 0.875 | Enamel | 539 | 3612 | 54.86 | 0.55 | 1.35 |
| Kiko-1AB-19 | 3114 | 0.927 | Enamel | 516 | 3615 | 55.42 | 0.37 | 0.83 |
| Kiko-1AB-20 | 3287 | 0.978 | Enamel | 529 | 3682 | 55.55 | 0.39 | 0.81 |
| Kiko-1AB-21 | 3460 | 1.030 | dentin | 3912 | 6624 | 55.55 | 0.39 | 0.81 |
| cervical | | | | | | | | |
| Kiko-2AB-01 | 60 | 0.023 | Enamel | 563 | 2610 | 55.74 | 0.32 | 0.93 |
| Kiko-2AB-02 | 117 | 0.044 | Enamel | 484 | 2230 | 55.18 | 0.39 | 0.91 |
| Kiko-2AB-03 | 234 | 0.089 | Enamel | 415 | 2005 | 55.12 | 0.40 | 0.85 |
| Kiko-2AB-04 | 351 | 0.133 | Enamel | 298 | 2285 | 55.78 | 0.44 | 0.82 |
| Kiko-2AB-05 | 468 | 0.177 | Enamel | 299 | 2518 | 55.67 | 0.42 | 0.95 |
| Kiko-2AB-06 | 585 | 0.222 | Enamel | 332 | 2791 | 55.00 | 0.45 | 0.98 |
| Kiko-2AB-07 | 702 | 0.266 | Enamel | 325 | 2824 | 55.00 | 0.48 | 1.10 |
| Kiko-2AB-08 | 819 | 0.310 | Enamel | 334 | 2967 | 55.44 | 0.45 | 1.09 |
| Kiko-2AB-09 | 936 | 0.355 | Enamel | 341 | 3017 | 54.92 | 0.48 | 1.06 |
| Kiko-2AB-10 | 1053 | 0.399 | Enamel | 354 | 3171 | 54.94 | 0.48 | 1.17 |
| Kiko-2AB-11 | 1170 | 0.443 | Enamel | 358 | 3118 | 54.97 | 0.45 | 1.15 |
| Kiko-2AB-12 | 1287 | 0.488 | Enamel | 363 | 3269 | 55.34 | 0.50 | 1.29 |
| Kiko-2AB-13 | 1404 | 0.532 | Enamel | 355 | 3182 | 54.81 | 0.54 | 1.24 |
| Kiko-2AB-14 | 1521 | 0.576 | Enamel | 387 | 3322 | 54.67 | 0.58 | 1.36 |
| Kiko-2AB-15 | 1638 | 0.620 | Enamel | 397 | 3413 | 54.64 | 0.52 | 1.39 |

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|-------------|------|-------|--------|------|------|-------|------|------|
| Kiko-2AB-16 | 1755 | 0.665 | Enamel | 440 | 3568 | 54.69 | 0.59 | 1.39 |
| Kiko-2AB-17 | 1872 | 0.709 | Enamel | 428 | 3426 | 57.35 | 0.60 | 1.36 |
| Kiko-2AB-18 | 1989 | 0.753 | Enamel | 472 | 3542 | 54.74 | 0.58 | 1.53 |
| Kiko-2AB-19 | 2106 | 0.798 | Enamel | 500 | 3603 | 54.68 | 0.61 | 1.42 |
| Kiko-2AB-20 | 2223 | 0.842 | Enamel | 552 | 3563 | 54.90 | 0.54 | 1.47 |
| Kiko-2AB-21 | 2340 | 0.886 | Enamel | 550 | 3560 | 54.82 | 0.71 | 1.62 |
| Kiko-2AB-22 | 2457 | 0.931 | Enamel | 608 | 3681 | 56.16 | 0.52 | 1.16 |
| Kiko-2AB-23 | 2574 | 0.975 | Enamel | 585 | 3829 | 56.50 | 0.46 | 0.93 |
| Kiko-2AB-24 | 2691 | 1.019 | Dentin | 1320 | 6461 | 56.44 | 0.49 | 1.12 |
| Kiko-2AB-25 | 2808 | 1.064 | Dentin | 1293 | 6368 | 56.62 | 0.45 | 1.47 |
| Kiko-2AB-26 | 2925 | 1.108 | Dentin | 1286 | 6354 | 55.99 | 0.41 | 1.50 |
| Kiko-2AB-27 | 3042 | 1.152 | Dentin | 1310 | 6455 | 55.11 | 0.39 | 1.39 |
| Kiko-2AB-28 | 3159 | 1.197 | Dentin | 1282 | 6250 | 54.47 | 0.41 | 1.18 |
| Kiko-2AB-29 | 3276 | 1.241 | Dentin | 1190 | 5311 | 54.47 | 0.41 | 1.18 |
| Kiko-2AB-30 | 3393 | 1.285 | Dentin | | | 54.47 | 0.41 | 1.18 |
| cervical | | | | | | | | |
| Kiko-1CD-01 | 50 | 0.028 | Enamel | 695 | 3136 | 55.36 | 0.30 | 0.78 |
| Kiko-1CD-02 | 92 | 0.051 | Enamel | 557 | 2944 | 55.42 | 0.33 | 0.82 |
| Kiko-1CD-03 | 184 | 0.102 | Enamel | 360 | 2364 | 55.84 | 0.27 | 0.87 |
| Kiko-1CD-04 | 276 | 0.153 | Enamel | 305 | 2252 | 55.49 | 0.34 | 0.88 |
| Kiko-1CD-05 | 368 | 0.204 | Enamel | 273 | 2056 | 55.32 | 0.39 | 0.84 |
| Kiko-1CD-06 | 460 | 0.256 | Enamel | 272 | 1929 | 55.28 | 0.30 | 0.75 |
| Kiko-1CD-07 | 552 | 0.307 | Enamel | 275 | 1987 | 54.92 | 0.35 | 0.75 |
| Kiko-1CD-08 | 644 | 0.358 | Enamel | 265 | 2222 | 55.33 | 0.37 | 0.85 |
| Kiko-1CD-09 | 736 | 0.409 | Enamel | 268 | 2346 | 54.82 | 0.34 | 0.71 |
| Kiko-1CD-10 | 828 | 0.460 | Enamel | 283 | 2179 | 55.45 | 0.39 | 0.72 |
| Kiko-1CD-11 | 920 | 0.511 | Enamel | 283 | 2251 | 54.97 | 0.43 | 0.85 |
| Kiko-1CD-12 | 1012 | 0.562 | Enamel | 295 | 2489 | 54.59 | 0.35 | 0.83 |
| Kiko-1CD-13 | 1104 | 0.613 | Enamel | 275 | 2488 | 55.03 | 0.40 | 0.76 |
| Kiko-1CD-14 | 1196 | 0.664 | Enamel | 292 | 2636 | 55.20 | 0.41 | 1.01 |
| Kiko-1CD-15 | 1288 | 0.716 | Enamel | 305 | 2724 | 55.59 | 0.45 | 0.98 |
| Kiko-1CD-16 | 1380 | 0.767 | Enamel | 309 | 2778 | 55.21 | 0.45 | 0.93 |
| Kiko-1CD-17 | 1472 | 0.818 | Enamel | 320 | 2869 | 55.31 | 0.37 | 0.97 |
| Kiko-1CD-18 | 1564 | 0.869 | Enamel | 340 | 3024 | 55.69 | 0.48 | 0.96 |
| Kiko-1CD-19 | 1656 | 0.920 | Enamel | 318 | 2899 | 54.92 | 0.32 | 0.90 |
| Kiko-1CD-20 | 1748 | 0.971 | Enamel | 321 | 2933 | 55.58 | 0.28 | 0.92 |