

TABLE 2 - Analytical results

| Dike | MD 1 | | | MD 2 | | | | | | | | | | | | | | | | |
|--------------------------------|---------|---------|--------|---------|--------|--------|---------|--------|---------|---------|--------|--------|--------|----------|---------|--------|---------|--------|---------|---------|
| | I | II | | III | | | IV | | V | VI | | | VII | VIII | | IX | | | | |
| Sample | 84541 | 73506 | 73507 | 73804 | 73805 | 73806 | 73860 | 73862 | 73532 | 73549 | 73548 | 73547 | 73550 | 73534 | 73586 | 73857 | 57734 | 57735 | 57736 | 57823 |
| Posit. | contact | contact | center | contact | inter. | center | contact | center | contact | contact | inter. | center | center | apophys. | contact | center | contact | center | contact | contact |
| SiO ₂ | 51.86 | 49.05 | | 49.00 | | | 51.83 | | | 50.71 | | | | 49.31 | 47.58 | 48.61 | 48.15 | 48.61 | | 47.83 |
| TiO ₂ | 0.64 | 2.29 | 2.14 | 2.20 | 2.09 | 2.15 | 2.50 | 2.24 | 1.31 | 1.33 | 1.25 | 0.86 | 0.53 | 0.59 | 1.31 | 1.42 | 1.11 | 0.85 | 0.74 | 1.84 |
| Al ₂ O ₃ | 15.54 | 13.90 | | 14.13 | | | 12.45 | | | 14.20 | | | | 15.95 | 14.38 | 18.31 | 15.01 | 17.50 | | 13.75 |
| Fe ₂ O ₃ | 2.92 | 2.04 | 1.96 | 1.70 | 2.63 | 4.51 | 2.49 | 7.61 | 2.06 | 2.00 | 3.03 | 2.72 | 1.67 | 1.65 | 2.04 | 1.68 | 1.77 | 3.66 | 2.00 | 2.44 |
| FeO | 6.39 | 12.94 | 12.07 | 13.61 | 10.97 | 11.53 | 12.90 | 10.54 | 10.72 | 10.41 | 9.35 | 9.19 | 8.00 | 7.51 | 11.50 | 9.48 | 10.57 | 7.86 | 8.92 | 12.45 |
| MnO | 0.149 | 0.222 | 0.223 | 0.220 | 0.205 | 0.208 | 0.229 | 0.225 | 0.237 | 0.192 | 0.182 | 0.173 | 0.169 | 0.173 | 0.200 | 0.179 | 0.211 | 0.177 | 0.185 | 0.224 |
| MgO | 8.20 | 5.90 | 6.15 | 5.94 | 4.41 | 5.42 | 4.22 | 5.04 | 8.05 | 6.56 | 6.52 | 6.45 | 9.50 | 8.96 | 7.80 | 4.57 | 7.80 | 6.20 | 8.10 | 6.80 |
| CaO | 10.60 | 9.10 | 8.90 | 9.34 | 8.80 | 8.98 | 7.94 | 8.80 | 6.45 | 10.68 | 10.18 | 10.68 | 11.00 | 11.10 | 10.25 | 10.55 | 10.92 | 10.85 | 10.80 | 9.20 |
| Na ₂ O | 1.75 | 2.03 | 2.46 | 2.31 | 2.48 | 2.42 | 2.13 | 2.48 | 2.58 | 2.61 | 2.30 | 2.89 | 1.56 | 1.88 | 1.70 | 2.36 | 2.08 | 2.38 | 2.05 | 2.16 |
| K ₂ O | 0.25 | 0.74 | 0.91 | 0.71 | 0.68 | 0.78 | 1.09 | 0.54 | 1.12 | 0.48 | 0.44 | 0.51 | 0.18 | 0.27 | 0.26 | 0.50 | 0.24 | 0.27 | 0.20 | 0.69 |
| P ₂ O ₅ | 0.15 | 0.32 | 0.26 | 0.33 | 0.34 | 0.35 | 0.38 | 0.35 | 0.10 | 0.19 | 0.17 | 0.19 | 0.10 | 0.08 | 0.19 | 0.22 | 0.12 | 0.06 | 0.03 | 0.21 |
| H ₂ O+ | 0.82 | 1.31 | | 0.88 | | | 1.72 | | | 0.86 | | | | 2.20 | 2.76 | 1.79 | 1.21 | 0.90 | | 1.60 |
| H ₂ O- | 0.10 | 0.12 | | 0.18 | | | 0.08 | | | 0.17 | | | | 0.13 | 0.19 | 0.07 | 0.11 | 0.16 | | 0.19 |
| Total | 99.19 | 99.96 | | 100.55 | | | 99.97 | | | 100.39 | | | | 99.80 | 100.16 | 99.74 | 99.30 | 99.48 | | 99.38 |
| Tot. Fe | 10.01 | 16.40 | 15.35 | 16.80 | 14.80 | 17.30 | 16.80 | 19.30 | 13.95 | 13.55 | 13.40 | 13.08 | 10.55 | 9.98 | 14.80 | 12.10 | 13.50 | 12.38 | 11.90 | 16.25 |
| Ga | 30 | 30 | 30 | 30 | 30 | 30 | 30 | 30 | 30 | 30 | 30 | 30 | 30 | 30 | 30 | 30 | 30 | 30 | 30 | 30 |
| V | 290 | 360 | 375 | 325 | 325 | 330 | 428 | 382 | 270 | 285 | 262 | 270 | 197 | 268 | 325 | 245 | 320 | 285 | 260 | 323 |
| Cu | 103 | 67 | 58 | 67 | 53 | 62 | 98 | 80 | 22 | 94 | 74 | 81 | 114 | 127 | 98 | 58 | 84 | 63 | 99 | 67 |
| Zr | 69 | 113 | 106 | 123 | 126 | 138 | 134 | 98 | 81 | 75 | 76 | 75 | 41 | 43 | 77 | 86 | 75 | 38 | 48 | 107 |
| Ni | 250 | 117 | 105 | 113 | 68 | 89 | 57 | 103 | 148 | 84 | 73 | 76 | 207 | 200 | 148 | 70 | 140 | 94 | 163 | 113 |
| Co | 51 | 74 | 63 | 64 | 51 | 55 | 54 | 62 | 60 | 54 | 48 | 53 | 62 | 59 | 65 | 46 | 65 | 52 | 61 | 64 |
| Cr | 258 | 140 | 147 | 135 | 88 | 116 | 102 | 72 | 152 | 235 | 235 | 230 | 130 | 138 | 171 | 92 | 200 | 138 | 230 | 149 |
| Sr | 166 | 124 | 147 | 144 | 179 | 161 | 111 | 132 | 117 | 188 | 192 | 202 | 100 | 105 | 80 | 143 | 109 | 124 | 110 | 168 |
| Ba | 137 | 245 | 240 | 247 | 375 | 260 | 270 | 229 | 485 | 76 | 125 | 150 | 10 | 60 | 56 | 210 | 54 | 93 | 41 | 215 |
| Rb | 8 | 26 | 11 | 21 | 23 | 21 | 34 | 23 | 44 | 18 | 10 | 10 | 3 | 7 | 11 | 20 | 11 | 3 | 11 | 31 |
| Zn | nd | 169 | 154 | 134 | 170 | 120 | 140 | 179 | 137 | 100 | 118 | 100 | 94 | nd | 130 | 93 | 100 | 120 | 111 | 161 |
| Y | 19 | 25 | 46 | 38 | 40 | 48 | 50 | 40 | 37 | 25 | 28 | 15 | 30 | 22 | 40 | 37 | 38 | 23 | 25 | 37 |
| Sc | 150 | 150 | 150 | 125 | 150 | 150 | 150 | 100 | 150 | 100 | 100 | 100 | 150 | 150 | 150 | 125 | 150 | 150 | 150 | 150 |
| K/Rb | 263 | 235 | 691 | 281 | 243 | 305 | 265 | 174 | 211 | 222 | 360 | 420 | 500 | 314 | 191 | 205 | 182 | 733 | 155 | 184 |
| Rb/Sr | 0.048 | 0.210 | 0.075 | 0.146 | 0.128 | 0.130 | 0.306 | 0.174 | 0.376 | 0.096 | 0.052 | 0.049 | 0.030 | 0.067 | 0.137 | 0.140 | 0.101 | 0.024 | 0.100 | 0.184 |
| K/Ba x 10 | 153 | 249 | 317 | 239 | 149 | 246 | 333 | 175 | 192 | 526 | 288 | 280 | 1875 | 367 | 375 | 195 | 370 | 414 | 265 | |
| K/Sr x 10 | 126 | 492 | 517 | 410 | 313 | 398 | 811 | 303 | 795 | 213 | 187 | 208 | 150 | 210 | 262 | 287 | 183 | 177 | 154 | 339 |
| Ca/Sr | 456 | 524 | 433 | 463 | 353 | 399 | 511 | 478 | 394 | 406 | 379 | 378 | 786 | 756 | 916 | 527 | 415 | 625 | 702 | 391 |
| Sr/Ba | 1.213 | 0.506 | 0.612 | 0.583 | 0.477 | 0.619 | 0.411 | 0.576 | 0.241 | 2.474 | 1.536 | 1.347 | 12.500 | 1.750 | 1.429 | 0.681 | 2.019 | 1.333 | 2.683 | 0.781 |
| k | 0.09 | 0.19 | 0.20 | 0.17 | 0.15 | 0.17 | 0.25 | 0.13 | 0.22 | 0.11 | 0.11 | 0.10 | 0.07 | 0.09 | 0.09 | 0.12 | 0.07 | 0.07 | 0.06 | 0.17 |
| mg | 0.61 | 0.41 | 0.44 | 0.41 | 0.37 | 0.38 | 0.33 | 0.34 | 0.53 | 0.49 | 0.49 | 0.49 | 0.64 | 0.64 | 0.51 | 0.42 | 0.53 | 0.49 | 0.57 | 0.45 |

TABLE 2 (continued)

| Dike | MD 2 | | | MD 3 | | | | | | | | | TD | | | | Lamprophyres | | | |
|--------------------------------|--------|--------|---------|---------|--------|--------|---------|--------|---------|--------|---------|---------|----------|--------|---------|--------|--------------|---------|--------|--------|
| | IX | | | X | | | XI | | XII | | XIII | | XIV | | XV | | XVI | XVII | | |
| Sample | 57825 | 57828 | Average | 73552 | 73554 | 73529 | 73502 | 73504 | 73855 | 73854 | 57777 | Average | 73810 | 73818 | 73832 | 73831 | 73578 | 73849 | 73850 | 73851 |
| Posit. | inter. | center | | contact | center | center | contact | center | contact | center | contact | | apophys. | center | contact | center | inter. | contact | inter. | center |
| SiO ₂ | | 48.04 | | 52.05 | | | 50.14 | | | | 48.40 | | | 46.13 | 46.33 | | 40.82 | 38.26 | | |
| TiO ₂ | 1.70 | 1.65 | 1.53 | 1.33 | 1.34 | 1.30 | 1.84 | 2.14 | 2.25 | 2.04 | 1.24 | 1.66 | 4.60 | 4.07 | 3.20 | 4.04 | 5.24 | 4.05 | 3.64 | 6.35 |
| Al ₂ O ₃ | | 15.70 | | 13.60 | | | 13.48 | | | | 14.65 | | | 13.41 | 13.37 | | 9.41 | 4.08 | | |
| Fe ₂ O ₃ | 1.60 | 3.22 | 2.59 | 3.13 | 3.34 | 2.45 | 2.50 | 3.90 | 4.43 | 2.72 | 1.59 | 3.12 | 8.89 | 3.44 | 5.09 | 6.03 | 6.97 | 12.90 | 4.37 | 6.43 |
| FeO | 11.54 | 10.71 | 10.60 | 10.07 | 9.83 | 9.15 | 11.40 | 12.17 | 11.96 | 10.44 | 10.94 | 10.74 | 5.98 | 10.69 | 10.37 | 9.90 | 12.73 | 11.81 | 12.82 | 13.81 |
| MnO | 0.201 | 0.198 | 0.202 | 0.200 | 0.194 | 0.192 | 0.235 | 0.228 | 0.243 | 0.212 | 0.212 | 0.214 | 0.229 | 0.257 | 0.289 | 0.255 | 0.304 | 0.238 | 0.191 | 0.228 |
| MgO | 6.45 | 6.18 | 6.52 | 6.05 | 6.10 | 6.23 | 5.76 | 5.54 | 6.77 | 5.80 | 7.64 | 6.24 | 7.12 | 4.40 | 4.55 | 5.11 | 5.68 | 21.00 | 11.30 | 9.90 |
| CaO | 9.04 | 9.04 | 9.65 | 10.45 | 10.70 | 10.00 | 10.42 | 9.96 | 9.80 | 8.32 | 10.40 | 10.01 | 16.50 | 6.66 | 6.60 | 8.46 | 12.00 | 6.30 | 9.60 | 11.84 |
| Na ₂ O | 2.17 | 2.42 | 2.28 | 2.06 | 2.71 | 2.14 | 2.32 | 2.45 | 2.99 | 2.97 | 2.26 | 2.49 | 2.48 | 3.80 | 3.72 | 3.64 | 3.11 | 0.20 | 1.48 | 1.70 |
| K ₂ O | 0.70 | 0.58 | 0.57 | 0.41 | 0.64 | 0.52 | 0.39 | 0.41 | 0.86 | 0.81 | 0.35 | 0.55 | 1.27 | 2.58 | 2.04 | 2.48 | 0.71 | 0.23 | 1.14 | 1.54 |
| P ₂ O ₅ | 0.24 | 0.18 | 0.21 | 0.20 | 0.21 | 0.15 | 0.21 | 0.21 | 0.42 | 0.42 | 0.14 | 0.24 | 1.09 | 2.59 | 2.49 | 2.45 | 1.76 | 0.30 | 0.49 | 0.59 |
| H ₂ O+ | | 1.40 | | 0.60 | | | 1.23 | | | | 1.40 | | | 1.69 | 1.93 | | 1.58 | (*) | | |
| H ₂ O- | | 0.08 | | 0.00 | | | 0.18 | | | | 0.06 | | | 0.06 | 0.16 | | 0.03 | | | |
| Total | | 99.40 | | 100.15 | | | 100.20 | | | | 99.29 | | | 99.78 | 100.14 | | 100.34 | 99.37 | | |
| Tot. Fe | 14.40 | 15.10 | 14.37 | 14.20 | 17.60 | 12.99 | 16.15 | 17.40 | 17.60 | 14.30 | 13.73 | 15.09 | 15.52 | 15.30 | 16.50 | 17.00 | 21.10 | 26.00 | 18.60 | 21.75 |
| Ga | 30 | 30 | 30 | 30 | 30 | 30 | 30 | 30 | 30 | 30 | 30 | 30 | 30 | 30 | 30 | 30 | 30 | 30 | 30 | 30 |
| V | 315 | 307 | 307 | 305 | 10 | 290 | 378 | 457 | 272 | 260 | 367 | 292 | 410 | 168 | 172 | 178 | 207 | 665 | 480 | 565 |
| Cu | 82 | 52 | 76 | 178 | 10 | 155 | 303 | 405 | 65 | 57 | 87 | 157 | 67 | 29 | 27 | 24 | 83 | 147 | 224 | 370 |
| Zr | 100 | 101 | 89 | 100 | 102 | 96 | 104 | 96 | 114 | 122 | 79 | 102 | 525 | 230 | 335 | 232 | 268 | 93 | 320 | 207 |
| Ni | 115 | 107 | 114 | 96 | 145 | 93 | 94 | 90 | 113 | 92 | 127 | 106 | 32 | 20 | 19 | 18 | 15 | 213 | 565 | 400 |
| Co | 67 | 59 | 59 | 53 | 10 | 52 | 55 | 57 | 69 | 53 | 61 | 51 | 53 | 40 | 38 | 37 | 53 | 133 | 84 | 86 |
| Cr | 135 | 131 | 151 | 173 | 175 | 180 | 116 | 95 | 94 | 92 | 145 | 134 | 20 | 13 | 10 | 15 | 10 | 5100 | 1350 | 430 |
| Sr | 164 | 165 | 141 | 154 | 151 | 146 | 147 | 156 | 252 | 272 | 100 | 172 | 1265 | 430 | 450 | 406 | 735 | 110 | 330 | 295 |
| Ba | 155 | 180 | 180 | 167 | 140 | 155 | 122 | 68 | 350 | 440 | 60 | 225 | 895 | 1820 | 1625 | 2000 | 428 | 36 | 225 | 312 |
| Rb | 23 | 12 | 18 | 14 | 26 | 20 | 11 | 13 | 22 | 24 | 10 | 17 | 60 | 51 | 39 | 30 | 31 | 21 | 60 | 60 |
| Zn | 124 | 209 | 133 | 105 | 116 | nd | 130 | nd | 144 | 115 | 148 | 126 | 156 | 192 | 149 | 206 | 187 | 203 | 154 | 202 |
| Y | 35 | 38 | 34 | 29 | 20 | 29 | 31 | 38 | 35 | 32 | 40 | 32 | 50 | 80 | 50 | 74 | 46 | 12 | 50 | 27 |
| Sc | 150 | | | | | | | | | | | | | | | | | | | |