Supplemental Table 5

XRF counting data (cps) for core interval 1271-1410 mm at 1-mm resolution

| depth (mm) in the core | K | Ca | Ti | Mn | Fe |
| --- | --- | --- | --- | --- | --- |
| 1271 | 5070 | 83776 | 16450 | 4416 | 308581 |
| 1272 | 4958 | 81969 | 18890 | 4493 | 334944 |
| 1273 | 4885 | 82539 | 15571 | 4364 | 326392 |
| 1274 | 4764 | 86590 | 13520 | 4061 | 298242 |
| 1275 | 4697 | 94097 | 13608 | 3460 | 303324 |
| 1276 | 4725 | 96846 | 12827 | 2871 | 313963 |
| 1277 | 4522 | 117907 | 11795 | 3830 | 304164 |
| 1278 | 4627 | 133195 | 11016 | 4360 | 310824 |
| 1279 | 4662 | 141028 | 11058 | 4231 | 329986 |
| 1280 | 4505 | 136755 | 11650 | 4940 | 346769 |
| 1281 | 4489 | 135943 | 11511 | 5283 | 367503 |
| 1282 | 4831 | 133697 | 12255 | 5707 | 376859 |
| 1283 | 4597 | 132588 | 11282 | 5180 | 366806 |
| 1284 | 4902 | 135907 | 11800 | 5889 | 365718 |
| 1285 | 4797 | 142341 | 11561 | 6180 | 369507 |
| 1286 | 4773 | 143334 | 10751 | 6129 | 361866 |
| 1287 | 5044 | 143377 | 10014 | 6270 | 393356 |
| 1288 | 4890 | 111481 | 11608 | 7986 | 514395 |
| 1289 | 4838 | 84750 | 14064 | 8528 | 560104 |
| 1290 | 4857 | 89722 | 13428 | 7540 | 504727 |
| 1291 | 5010 | 59652 | 14843 | 12768 | 690134 |
| 1292 | 5081 | 51863 | 14332 | 16121 | 806276 |
| 1293 | 5104 | 54047 | 14506 | 17366 | 839112 |
| 1294 | 5519 | 52167 | 15097 | 17257 | 819095 |
| 1295 | 5678 | 54352 | 15817 | 13228 | 666431 |
| 1296 | 5616 | 60853 | 16698 | 8156 | 507318 |
| 1297 | 5241 | 78392 | 15325 | 5894 | 407159 |
| 1298 | 4967 | 79678 | 15547 | 6645 | 421297 |
| 1299 | 4780 | 84489 | 14318 | 10162 | 485020 |
| 1300 | 4560 | 88973 | 13847 | 11587 | 547118 |
| 1301 | 4355 | 86784 | 12714 | 12820 | 592366 |
| 1302 | 4387 | 103535 | 12180 | 11988 | 520924 |
| 1303 | 4827 | 137150 | 11085 | 8726 | 363746 |
| 1304 | 5051 | 135746 | 11559 | 4869 | 325351 |
| 1305 | 5628 | 118832 | 12079 | 3303 | 327737 |
| 1306 | 5701 | 110478 | 12147 | 2748 | 328899 |
| 1307 | 6240 | 97348 | 12631 | 2653 | 347606 |
| 1308 | 6110 | 108364 | 11941 | 2481 | 337477 |
| 1309 | 5707 | 135557 | 10193 | 2293 | 284694 |
| 1310 | 5654 | 147239 | 9786 | 2043 | 272132 |
| 1311 | 5727 | 144133 | 10613 | 1856 | 280859 |
| 1312 | 5513 | 136370 | 10656 | 1866 | 287800 |
| 1313 | 4772 | 153612 | 10347 | 3078 | 269832 |
| 1314 | 4455 | 167563 | 10336 | 2607 | 266130 |
| 1315 | 4616 | 176529 | 10162 | 2748 | 273978 |
| 1316 | 4688 | 176082 | 10265 | 2669 | 279566 |
| 1317 | 4630 | 159691 | 10447 | 2647 | 292033 |
| 1318 | 4741 | 149857 | 11257 | 3955 | 332012 |
| 1319 | 4508 | 148829 | 11214 | 4783 | 333573 |
| 1320 | 4740 | 115030 | 12203 | 6728 | 431859 |
| 1321 | 4487 | 97702 | 12842 | 7292 | 460564 |
| 1322 | 4564 | 94943 | 12917 | 7468 | 476367 |
| 1323 | 4987 | 88381 | 12837 | 8055 | 490599 |
| 1324 | 5085 | 96246 | 12826 | 7176 | 480169 |
| 1325 | 5111 | 80478 | 13682 | 7554 | 498877 |
| 1326 | 5233 | 76946 | 14113 | 7614 | 515015 |
| 1327 | 5130 | 81290 | 13526 | 7350 | 491773 |
| 1328 | 4926 | 84841 | 12955 | 6883 | 468788 |
| 1329 | 5069 | 86531 | 13869 | 6103 | 449633 |
| 1330 | 5181 | 101323 | 13879 | 4653 | 387594 |
| 1331 | 5093 | 97959 | 13373 | 4969 | 383733 |
| 1332 | 5042 | 93379 | 13984 | 5604 | 397098 |
| 1333 | 5285 | 80655 | 14305 | 5875 | 450213 |
| 1334 | 5286 | 82785 | 14558 | 5789 | 455429 |
| 1335 | 5314 | 91764 | 14445 | 4982 | 406137 |
| 1336 | 5326 | 90494 | 14948 | 3982 | 384025 |
| 1337 | 5209 | 87317 | 14790 | 3625 | 395273 |
| 1338 | 5089 | 95334 | 14859 | 3116 | 395817 |
| 1339 | 5272 | 97578 | 14504 | 4033 | 410178 |
| 1340 | 5325 | 84840 | 14820 | 4152 | 412883 |
| 1341 | 4883 | 93025 | 12878 | 6225 | 359329 |
| 1342 | 4960 | 122732 | 11685 | 3758 | 343159 |
| 1343 | 4916 | 133515 | 11246 | 2582 | 326869 |
| 1344 | 4752 | 142556 | 11117 | 3456 | 323483 |
| 1345 | 4917 | 137736 | 10799 | 2887 | 324423 |
| 1346 | 4896 | 214301 | 7239 | 2247 | 241139 |
| 1347 | 4356 | 214808 | 8351 | 2682 | 246423 |
| 1348 | 4254 | 197986 | 9331 | 3404 | 260082 |
| 1349 | 3779 | 202794 | 8739 | 3336 | 262555 |
| 1350 | 3977 | 199709 | 9826 | 2721 | 252114 |
| 1351 | 4444 | 199858 | 11119 | 2791 | 272707 |
| 1352 | 4163 | 197792 | 9193 | 2897 | 239564 |
| 1353 | 3939 | 189618 | 8926 | 2675 | 240136 |
| 1354 | 4321 | 194519 | 9963 | 2207 | 241198 |
| 1355 | 4156 | 189623 | 10195 | 3035 | 248329 |
| 1356 | 4446 | 212571 | 9217 | 1742 | 240224 |
| 1357 | 4287 | 222139 | 7944 | 1687 | 216194 |
| 1358 | 4308 | 221007 | 8117 | 1603 | 212818 |
| 1359 | 4261 | 238247 | 7913 | 1188 | 187874 |
| 1360 | 4187 | 245118 | 7369 | 1438 | 169885 |
| 1361 | 4551 | 249987 | 7894 | 1550 | 176566 |
| 1362 | 4278 | 218376 | 8058 | 1414 | 196803 |
| 1363 | 4454 | 218979 | 8190 | 1403 | 203849 |
| 1364 | 4454 | 199765 | 9100 | 1431 | 222676 |
| 1365 | 4575 | 194411 | 9575 | 1947 | 227513 |
| 1366 | 4354 | 186193 | 9476 | 1619 | 243938 |
| 1367 | 4279 | 191967 | 9172 | 1476 | 233788 |
| 1368 | 4537 | 220316 | 8245 | 2671 | 206986 |
| 1369 | 4726 | 220009 | 8196 | 1666 | 202078 |
| 1370 | 4558 | 205249 | 8064 | 1532 | 201269 |
| 1371 | 4690 | 186865 | 9256 | 1824 | 230416 |
| 1372 | 4844 | 170489 | 9960 | 2041 | 254663 |
| 1373 | 5053 | 184027 | 9586 | 2055 | 229578 |
| 1374 | 5217 | 169574 | 10346 | 2029 | 245586 |
| 1375 | 4876 | 176635 | 10129 | 1931 | 235121 |
| 1376 | 5362 | 155472 | 10397 | 2075 | 263473 |
| 1377 | 5155 | 145022 | 10239 | 1902 | 265193 |
| 1378 | 5604 | 147298 | 10309 | 1713 | 272430 |
| 1379 | 5635 | 118587 | 10986 | 2055 | 285598 |
| 1380 | 5911 | 117775 | 11484 | 2105 | 293387 |
| 1381 | 5395 | 106177 | 11480 | 1991 | 309733 |
| 1382 | 5034 | 148179 | 9689 | 1677 | 242784 |
| 1383 | 5115 | 179851 | 9649 | 1719 | 202234 |
| 1384 | 5193 | 204526 | 8778 | 1901 | 170585 |
| 1385 | 5046 | 210037 | 10204 | 2181 | 158154 |
| 1386 | 5043 | 213094 | 8428 | 1898 | 157078 |
| 1387 | 5382 | 228696 | 10728 | 2456 | 177917 |
| 1388 | 5086 | 218183 | 9369 | 2163 | 164541 |
| 1389 | 4486 | 207091 | 10025 | 2580 | 164861 |
| 1390 | 4988 | 251742 | 7168 | 2464 | 146609 |
| 1391 | 4834 | 257175 | 7021 | 2664 | 148705 |
| 1392 | 5057 | 225608 | 7448 | 2819 | 186781 |
| 1393 | 4966 | 236790 | 6302 | 2775 | 177473 |
| 1394 | 4780 | 188819 | 7565 | 2753 | 199874 |
| 1395 | 5063 | 159970 | 9110 | 2893 | 239262 |
| 1396 | 5251 | 184112 | 9474 | 3070 | 234486 |
| 1397 | 5124 | 185722 | 8916 | 3849 | 217145 |
| 1398 | 5093 | 190183 | 8420 | 4272 | 201969 |
| 1399 | 5181 | 193836 | 9434 | 5288 | 183089 |
| 1400 | 5487 | 175966 | 9974 | 3919 | 219700 |
| 1401 | 5324 | 154158 | 11112 | 3211 | 237992 |
| 1402 | 5374 | 142269 | 10773 | 3712 | 253952 |
| 1403 | 5360 | 148554 | 9933 | 4100 | 245555 |
| 1404 | 5448 | 142683 | 10342 | 2787 | 254888 |
| 1405 | 5866 | 162197 | 10239 | 2777 | 256211 |
| 1406 | 5672 | 172845 | 10999 | 3434 | 265205 |
| 1407 | 5788 | 194954 | 9592 | 2917 | 240547 |
| 1408 | 6007 | 217898 | 9597 | 4225 | 233657 |
| 1409 | 5631 | 261815 | 8530 | 5420 | 216902 |
| 1410 | 1375 | 49491 | 38259 | 970 | 44534 |