Appendix B: Results of rock evaluation analyses of shale samples from investigated boreholes

|  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Borehole | Sample ID | Depth (m) | S1 (mg HC/g rock) | S2 (mg HC/g rock) | S3 (mg HC/g rock) | Tmax (°C) | S2/S3 | PI (wt ratio) | HI (mg HC/g TOC) | OI (mg CO2/g TOC) | TOC  (wt%) |
| KL 1/65 | G009865 | 1402 | 0.01 | 0.3 | 0.5 | 587 | 0.6 | 0.03 | 71 | 118 | 0.42 |
| KL 1/65 | G009864 | 1407 | 0.01 | 0.17 | 0.18 | 486 | 0.94 | 0.06 | 52 | 55 | 0.33 |
| KL 1/65 | G009877 | 1353 | 0.01 | 0.29 | 0.19 | 599 | 1.53 | 0.03 | 18 | 12 | 1.6 |
| KL 1/65 | G009876 | 1358 | 0.05 | 0.42 | 0.39 | 300 | 1.07 | 0.11 | 7 | 7 | 5.94 |
| KL 1/65 | G009874 | 1361 | 0.03 | 0.33 | 0.61 | 489 | 0.54 | 0.08 | 6 | 11 | 5.74 |
| KL 1/65 | G009873 | 1372 | 0.61 | 1.6 | 0.96 | 310 | 1.67 | 0.28 | 25 | 15 | 6.35 |
| KL 1/65 | G009872 | 1373 | 0.04 | 0.35 | 0.52 | 313 | 0.67 | 0.1 | 9 | 13 | 4.1 |
| KL 1/65 | G009871 | 1378 | 0.31 | 1.26 | 0.68 | 325 | 1.85 | 0.2 | 19 | 10 | 6.54 |
| KL 1/65 | G009870 | 1381 | 0.07 | 0.49 | 0.93 | 300 | 0.53 | 0.13 | 14 | 26 | 3.55 |
| KL 1/65 | G009869 | 1384 | 0.06 | 0.44 | 0.79 | 601 | 0.56 | 0.12 | 6 | 11 | 7.3 |
| KL 1/65 | G009868 | 1387 | 0.03 | 0.41 | 0.36 | 290 | 1.14 | 0.07 | 14 | 12 | 3.02 |
| KL 1/65 | G009882 | 1298 | 0.01 | 0.23 | 0.29 | 600 | 0.79 | 0.04 | 18 | 23 | 1.28 |
| KL 1/65 | G009881 | 1309 | 0.02 | 0.31 | 0.51 | 600 | 0.6 | 0.06 | 18 | 29 | 1.75 |
| KL 1/65 | G009867 | 1324 | 0.03 | 0.34 | 1.11 | 324 | 0.31 | 0.08 | 12 | 39 | 2.82 |
| KL 1/65 | G009880 | 1325 | 0.02 | 0.29 | 0.48 | 599 | 0.6 | 0.06 | 23 | 38 | 1.28 |
| KL 1/65 | G009879 | 1331 | 0.01 | 0.22 | 0.71 | 599 | 0.31 | 0.04 | 19 | 62 | 1.14 |
| KL 1/65 | G009878 | 1348 | 0.01 | 0.2 | 0.79 | 599 | 0.21 | 0.25 | 21 | 84 | 0.95 |
| QU 1/65 | G009863 | 1158 | 0.01 | 0.36 | 0.36 | 428 | 1 | 0.03 | 86 | 86 | 0.42 |
| QU 1/65 | G009862 | 1159 | 0.01 | 0.23 | 0.16 | 427 | 1.44 | 0.04 | 78 | 54 | 0.3 |
| QU 1/65 | G009861 | 1160 | 0.01 | 0.33 | 0.38 | 336 | 0.87 | 0.03 | 139 | 160 | 0.24 |
| QU 1/65 | G009860 | 1263 | 0.01 | 0.33 | 0.33 | 421 | 1 | 0.03 | 166 | 166 | 0.2 |
| QU 1/65 | G009859 | 1285 | 0.03 | 0.37 | 1.33 | 420 | 0.28 | 0.08 | 92 | 332 | 0.4 |
| QU 1/65 | G009858 | 1286 | 0.02 | 0.33 | 1.53 | 345 | 0.22 | 0.06 | 80 | 370 | 0.41 |
| QU 1/65 | G009857 | 1302 | 0.01 | 0.24 | 0.3 | 332 | 0.8 | 0.04 | 72 | 90 | 0.34 |
| QU 1/65 | G009856 | 1317 | 0.01 | 0.23 | 0.39 | 333 | 0.59 | 0.04 | 57 | 97 | 0.4 |
| QU 1/65 | G009855 | 1325 | 0.01 | 0.4 | 0.46 | 293 | 0.87 | 0.02 | 208 | 240 | 0.19 |
| QU 1/65 | G009854 | 1333 | 0.01 | 0.25 | 0.26 | 441 | 0.96 | 0.04 | 52 | 54 | 0.48 |
| QU 1/65 | G009853 | 1420 | 0.02 | 0.42 | 0.79 | 581 | 0.53 | 0.05 | 153 | 288 | 0.27 |
| QU 1/65 | G009852 | 1430 | 0.01 | 0.29 | 0.2 | 513 | 1.45 | 0.03 | 53 | 36 | 0.55 |
| QU 1/65 | G009851 | 1445 | 0.01 | 0.37 | 0.34 | 589 | 1.09 | 0.03 | 274 | 252 | 0.14 |
| QU 1/65 | G009850 | 1455 | 0.02 | 0.31 | 0.44 | 344 | 0.7 | 0.06 | 94 | 133 | 0.33 |
| QU 1/65 | G009849 | 1469 | 0.01 | 0.24 | 0.25 | 496 | 0.96 | 0.04 | 80 | 83 | 0.3 |
| QU 1/65 | G009846 | 1481 | 0.01 | 0.29 | 0.35 | 487 | 0.83 | 0.03 | 122 | 147 | 0.24 |
| QU 1/65 | G009844 | 1497 | 0.01 | 0.27 | 0.84 | 593 | 0.32 | 0.04 | 85 | 266 | 0.32 |
| QU 1/65 | G009843 | 1510 | 0.01 | 0.25 | 0.27 | 456 | 0.93 | 0.04 | 65 | 70 | 0.39 |
| QU 1/65 | G009842 | 1514 | 0.03 | 0.4 | 0.88 | 323 | 0.45 | 0.07 | 68 | 151 | 0.58 |
| QU 1/65 | G009845 | 1523 | 0.01 | 0.25 | 0.28 | 502 | 0.89 | 0.04 | 77 | 86 | 0.33 |
| QU 1/65 | G009841 | 1540 | 0.02 | 0.3 | 0.39 | 493 | 0.77 | 0.06 | 86 | 112 | 0.35 |
| QU 1/65 | G009840 | 1559 | 0.02 | 0.3 | 0.34 | 421 | 0.88 | 0.06 | 59 | 67 | 0.51 |
| LA 1/68 | G009822 | 1617 | 0.06 | 0.55 | 0.93 | 454 | 0.59 | 0.1 | 59 | 99 | 0.94 |
| LA 1/68 | G009824 | 1618 | 0.1 | 1.15 | 0.46 | 455 | 2.5 | 0.08 | 49 | 20 | 2.35 |
| LA 1/68 | G009825 | 1619 | 0.11 | 1.2 | 0.34 | 454 | 3.53 | 0.08 | 48 | 14 | 2.5 |
| LA 1/68 | G009826 | 1620 | 0.1 | 1.13 | 0.36 | 454 | 3.14 | 0.08 | 47 | 15 | 2.41 |
| LA 1/68 | G009827 | 1622 | 0.11 | 1.05 | 0.47 | 454 | 2.23 | 0.09 | 44 | 20 | 2.4 |
| LA 1/68 | G009829 | 1624 | 0.09 | 0.94 | 0.94 | 455 | 1 | 0.09 | 36 | 36 | 2.6 |
| LA 1/68 | G009830 | 1625 | 0.1 | 0.96 | 0.55 | 456 | 1.75 | 0.09 | 45 | 26 | 2.11 |
| LA 1/68 | G009831 | 1632 | 0.04 | 0.56 | 0.36 | 458 | 1.56 | 0.07 | 42 | 27 | 1.33 |
| LA 1/68 | G009832 | 1635 | 0.07 | 0.72 | 1.02 | 456 | 0.71 | 0.09 | 43 | 61 | 1.66 |
| LA 1/68 | G009833 | 1638 | 0.04 | 0.43 | 0.4 | 579 | 1.08 | 0.09 | 19 | 18 | 2.25 |
| LA 1/68 | G009835 | 1645 | 0.05 | 0.75 | 0.34 | 460 | 2.21 | 0.06 | 44 | 20 | 1.72 |
| LA 1/68 | G009837 | 1674 | 0.05 | 0.4 | 1.45 | 578 | 0.28 | 0.11 | 24 | 87 | 1.67 |
| LA 1/68 | G009838 | 1679 | 0.05 | 0.41 | 0.39 | 599 | 1.05 | 0.11 | 16 | 15 | 2.61 |
| LA 1/68 | G009839 | 1690 | 0.53 | 0.94 | 0.72 | 285 | 1.31 | 0.36 | 42 | 32 | 2.24 |
| G39974 | G009944 | 414 | 0.03 | 0.35 | 0.25 | 524 | 1.4 | 0.08 | 8 | 6 | 4.4 |
| G39974 | G009945 | 408 | 0.01 | 0.33 | 0.12 | 540 | 2.75 | 0.03 | 11 | 4 | 3.14 |
| G39974 | G009946 | 402 | 0.02 | 0.38 | 0.17 | 597 | 2.24 | 0.05 | 13 | 6 | 2.84 |
| G39974 | G009947 | 399 | 0.03 | 0.32 | 0.24 | 382 | 1.33 | 0.09 | 7 | 5 | 4.76 |
| G39974 | G009948 | 392 | 0.04 | 0.37 | 0.22 | 371 | 1.68 | 0.1 | 11 | 6 | 3.4 |
| G39974 | G009950 | 373 | 0.07 | 0.49 | 0.65 | 293 | 0.75 | 0.13 | 8 | 11 | 6.17 |
| G39974 | G009951 | 366 | 0.04 | 0.38 | 0.21 | 317 | 1.81 | 0.1 | 10 | 5 | 3.86 |
| G39974 | G009952 | 355 | 0.03 | 0.43 | 0.13 | 304 | 3.31 | 0.07 | 12 | 4 | 3.55 |
| G39974 | G009953 | 348 | 0.09 | 0.57 | 0.99 | 338 | 0.58 | 0.14 | 9 | 16 | 6.26 |
| G39974 | G009954 | 345 | 0.06 | 0.45 | 0.66 | 568 | 0.68 | 0.12 | 8 | 12 | 5.55 |
| SP 1/69 | G009936 | 3501 | 0.04 | 0.38 | 0.34 | 590 | 1.12 | 0.1 | 6 | 5 | 6.73 |
| SP 1/69 | G009937 | 3493 | 0.05 | 0.48 | 0.81 | 555 | 0.59 | 0.09 | 8 | 14 | 5.71 |
| SP 1/69 | G009940 | 4008 | 0.04 | 0.48 | 0.46 | 579 | 1.04 | 0.08 | 7 | 6 | 7.35 |
| SA 1/66 | G009884 | 2743 | 0.01 | 0.22 | 0.11 | 486 | 2 | 0.04 | 45 | 22 | 0.49 |
| SA 1/66 | G009885 | 2685 | 0.01 | 0.25 | 0.13 | 494 | 1.92 | 0.04 | 45 | 23 | 0.55 |
| SA 1/66 | G009886 | 2676 | 0.02 | 0.32 | 0.57 | 493 | 0.56 | 0.06 | 77 | 137 | 0.41 |
| SA 1/66 | G009887 | 2687 | 0.01 | 0.25 | 0.14 | 473 | 1.79 | 0.04 | 41 | 23 | 0.61 |
| SA 1/66 | G009888 | 2675 | 0.01 | 0.27 | 0.3 | 493 | 0.9 | 0.04 | 74 | 82 | 0.36 |
| SA 1/66 | G009891 | 2664 | 0.01 | 0.25 | 0.15 | 489 | 1.67 | 0.04 | 26 | 15 | 0.98 |
| SA 1/66 | G009889 | 2669 | 0.02 | 0.39 | 0.48 | 498 | 0.81 | 0.05 | 72 | 89 | 0.54 |
| SA 1/66 | G009890 | 2666 | 0.01 | 0.26 | 0.18 | 501 | 1.44 | 0.04 | 56 | 39 | 0.47 |
| SA 1/66 | G009892 | 2660 | 0.01 | 0.27 | 0.18 | 482 | 1.5 | 0.04 | 24 | 16 | 1.14 |
| SA 1/66 | G009893 | 2659 | 0.02 | 0.31 | 0.23 | 493 | 1.35 | 0.06 | 53 | 40 | 0.58 |
| SA 1/66 | G009895 | 2646 | 0.01 | 0.28 | 0.31 | 488 | 0.9 | 0.03 | 44 | 49 | 0.64 |
| SA 1/66 | G009894 | 2647 | 0.01 | 0.26 | 0.1 | 492 | 2.6 | 0.04 | 33 | 13 | 0.78 |
| SA 1/66 | G009897 | 2637 | 0.01 | 0.27 | 0.14 | 502 | 1.93 | 0.04 | 39 | 20 | 0.7 |
| SA 1/66 | G009898 | 2636 | 0.01 | 0.23 | 0.16 | 495 | 1.44 | 0.04 | 26 | 18 | 0.88 |
| SA 1/66 | G009899 | 2627 | 0.01 | 0.29 | 0.2 | 510 | 1.45 | 0.03 | 68 | 47 | 0.43 |
| SA 1/66 | G009901 | 2622 | 0.01 | 0.31 | 0.17 | 485 | 1.82 | 0.03 | 32 | 17 | 0.98 |
| SA 1/66 | G009903 | 2613 | 0.01 | 0.23 | 0.14 | 492 | 1.64 | 0.04 | 37 | 22 | 0.62 |
| SA 1/66 | G009904 | 2600 | 0.01 | 0.25 | 0.16 | 493 | 1.56 | 0.04 | 40 | 26 | 0.62 |
| SA 1/66 | G009905 | 2593 | 0.01 | 0.33 | 0.32 | 490 | 1.03 | 0.03 | 50 | 48 | 0.66 |
| SA 1/66 | G009908 | 2576 | 0.01 | 0.27 | 0.14 | 492 | 1.93 | 0.04 | 41 | 21 | 0.65 |
| SA 1/66 | G009907 | 2578 | 0.02 | 0.3 | 0.3 | 497 | 1 | 0.06 | 38 | 38 | 0.79 |
| SA 1/66 | G009909 | 2561 | 0.01 | 0.25 | 0.23 | 489 | 1.09 | 0.04 | 31 | 29 | 0.8 |
| SA 1/66 | G009910 | 2541 | 0.01 | 0.29 | 0.15 | 494 | 1.93 | 0.03 | 42 | 22 | 0.69 |
| SA 1/66 | G009911 | 2527 | 0.02 | 0.35 | 0.13 | 498 | 2.69 | 0.05 | 64 | 24 | 0.55 |
| SA 1/66 | G009912 | 2509 | 0.01 | 0.26 | 0.1 | 490 | 2.6 | 0.04 | 52 | 20 | 0.5 |
| SA 1/66 | G009914 | 2496 | 0.01 | 0.27 | 0.22 | 497 | 1.23 | 0.04 | 59 | 48 | 0.46 |
| SA 1/66 | G009915 | 2469 | 0.01 | 0.23 | 0.1 | 506 | 2.3 | 0.04 | 28 | 12 | 0.81 |
| SA 1/66 | G009916 | 2455 | 0.02 | 0.5 | 0.34 | 601 | 1.47 | 0.04 | 99 | 68 | 0.5 |
| SA 1/66 | G009917 | 2438 | 0.01 | 0.21 | 0.14 | 510 | 1.5 | 0.05 | 37 | 25 | 0.57 |
| SA 1/66 | G009920 | 2397 | 0.01 | 0.23 | 0.16 | 493 | 1.44 | 0.04 | 42 | 29 | 0.55 |
| SA 1/66 | G009921 | 2372 | 0.01 | 0.26 | 0.21 | 487 | 1.24 | 0.04 | 61 | 50 | 0.42 |
| SA 1/66 | G009922 | 2363 | 0.02 | 0.3 | 0.28 | 494 | 1.07 | 0.06 | 42 | 39 | 0.71 |
| SA 1/66 | G009923 | 2325 | 0.02 | 0.28 | 0.2 | 497 | 1.4 | 0.07 | 37 | 26 | 0.77 |
| SA 1/66 | G009924 | 2287 | 0.01 | 0.2 | 0.16 | 489 | 1.25 | 0.05 | 28 | 22 | 0.72 |
| SA 1/66 | G009925 | 2273 | 0.02 | 0.32 | 0.23 | 502 | 1.39 | 0.06 | 59 | 42 | 0.55 |
| SA 1/66 | G009926 | 2268 | 0.01 | 0.27 | 0.16 | 491 | 1.69 | 0.04 | 41 | 24 | 0.66 |
| SA 1/66 | G009927 | 2262 | 0.01 | 0.23 | 0.15 | 490 | 1.53 | 0.04 | 47 | 31 | 0.49 |
| SA 1/66 | G009928 | 2024 | 0.02 | 0.29 | 0.38 | 493 | 0.76 | 0.06 | 51 | 67 | 0.56 |
| SA 1/66 | G009929 | 1902 | 0.02 | 0.28 | 0.3 | 492 | 0.93 | 0.07 | 45 | 48 | 0.63 |
| FI 1/72 | G009941 | 1560 | 0.03 | 0.34 | 0.17 | 402 | 0.37 | 0.08 | 31 | 15 | 1.11 |
| FI 1/72 | G009942 | 1490 | 0.52 | 1.64 | 1.11 | 390 | 2.16 | 0.24 | 29 | 20 | 5.57 |
| FI 1/72 | G009943 | 1410 | 0.09 | 0.52 | 0.46 | 600 | 0.61 | 0.15 | 9 | 8 | 5.99 |
| WI 1/72 | G009930 | 1481 | 0.1 | 0.9 | 0.19 | 548 | 4.74 | 0.1 | 31 | 7 | 2.9 |
| WI 1/72 | G009931 | 1482 | 0.11 | 0.88 | 0.66 | 515 | 1.33 | 0.11 | 39 | 29 | 2.24 |
| WI 1/72 | G009932 | 1470 | 0.07 | 0.72 | 0.19 | 514 | 3.79 | 0.09 | 33 | 9 | 2.16 |
| WI 1/72 | G009933 | 1446 | 0.03 | 0.42 | 0.18 | 517 | 2.33 | 0.07 | 28 | 12 | 1.48 |
| WI 1/72 | G009934 | 1443 | 0.03 | 0.44 | 0.22 | 445 | 2 | 0.06 | 44 | 22 | 1 |
| WI 1/72 | G009935 | 1440 | 0.03 | 0.65 | 0.22 | 448 | 2.95 | 0.04 | 44 | 15 | 1.49 |