



České vysoké učení technické v Praze
Fakulta strojní
Ústav procesní a zpracovatelské techniky

Prílohy k bakalárskej práci
Vplyv miešania na účinnosť flokulácie

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| Meranie | 1 | 2 | 3 | 4 | 5 |
|---------------------|--------------------|--------------------|--------------------|--------------------|--------------------|
| Objem nádoby [l] | 5,4 | 5,4 | 5,4 | 5,4 | 5,4 |
| Flokulant | Sokoflok 16 | Sokoflok 16 | Sokoflok 16 | Sokofloc 16 | Sokofloc 16 |
| Koncentrácia [ml/l] | 0,13 | 0,26 | 0,52 | 1,04 | 1,52 |
| Koncentrácia [ml] | 0,702 | 1,404 | 2,808 | 5,616 | 8,208 |
| Znečistovacia látka | Kaolín | Kaolín | Kaolín | Kaolín | Kaolín |
| Koncentrácia [mg/l] | 500 | 500 | 500 | 500 | 500 |
| Koncentrácia [ml] | 27 | 27 | 27 | 27 | 27 |

Namerané údaje pre : vplyv dávky flokulantu a koncentrácie kaolínu na flokuláciu pre merný príkon 40 W/m^3 , $c_{k0} = 500 \text{ mg/l}$

| Meranie | 1 | | | | | | | | | |
|---------|------------|-----|------|-----|--------------|-----|-------|------|-------|------|
| | Flokulácia | | | | Sedimentácia | | | | | |
| | Čas | FNU | Čas | FNU | Čas | FNU | Čas | FNU | Čas | FNU |
| | 0:00 | 509 | 2:45 | 406 | 5:00 | 395 | 8:00 | 100 | 10:30 | 17,7 |
| | 0:30 | 504 | 3:00 | 404 | 5:30 | 390 | 8:15 | 89 | 10:45 | 15,1 |
| | 0:45 | 500 | 3:15 | 401 | 6:00 | 384 | 8:30 | 74 | 11:00 | 13,4 |
| | 1:00 | 494 | 3:30 | 400 | 6:15 | 366 | 8:45 | 63 | 11:30 | 11,2 |
| | 1:15 | 462 | 3:45 | 398 | 6:30 | 306 | 9:00 | 53 | 12:00 | 10,7 |
| | 1:30 | 441 | 4:00 | 397 | 6:45 | 274 | 9:15 | 48 | | |
| | 1:45 | 429 | 4:15 | 396 | 7:00 | 227 | 9:30 | 41 | | |
| | 2:00 | 419 | 4:30 | 396 | 7:15 | 166 | 9:45 | 36,3 | | |
| | 2:15 | 414 | 5:00 | 395 | 7:30 | 144 | 10:00 | 32 | | |
| | 2:30 | 409 | | | 7:45 | 126 | 10:15 | 23,5 | | |

| Meranie | 2 | | | | | | | |
|---------|------------|-----|------|-----|--------------|-----|-------|------|
| | Flokulácia | | | | Sedimentácia | | | |
| | Čas | FNU | Čas | FNU | Čas | FNU | Čas | FNU |
| | 0:00 | 513 | 2:45 | 418 | 6:00 | 394 | 8:30 | 85 |
| | 0:30 | 509 | 3:00 | 415 | 6:30 | 392 | 8:45 | 59 |
| | 1:00 | 497 | 3:30 | 407 | 6:45 | 387 | 9:00 | 53 |
| | 1:15 | 468 | 4:00 | 403 | 7:00 | 376 | 9:30 | 32,1 |
| | 1:30 | 454 | 4:30 | 399 | 7:15 | 351 | 10:00 | 25,8 |
| | 1:45 | 436 | 5:00 | 398 | 7:30 | 295 | 10:30 | 16,7 |
| | 2:00 | 429 | 5:30 | 396 | 7:45 | 264 | 11:00 | 11,1 |
| | 2:15 | 423 | 6:00 | 394 | 8:00 | 152 | 11:30 | 9,1 |
| | 2:30 | 420 | | | 8:15 | 113 | 12:00 | 7,8 |

Namerané údaje pre : vplyv dávky flokulantu a koncentrácie kaolínu na flokuláciu pre merný príkon 40 W/m^3 , $c_{k0} = 500 \text{ mg/l}$

| Meranie | 3 | | | | | | | |
|---------|------------|-----|------|-----|--------------|-----|-------|------|
| | Flokulácia | | | | Sedimentácia | | | |
| | Čas | FNU | Čas | FNU | Čas | FNU | Čas | FNU |
| | 0:00 | 524 | 3:00 | 404 | 5:00 | 392 | 7:45 | 37,8 |
| | 0:30 | 521 | 3:15 | 400 | 5:30 | 389 | 8:00 | 30,6 |
| | 1:00 | 508 | 3:30 | 397 | 5:45 | 385 | 8:30 | 22 |
| | 1:15 | 482 | 4:00 | 394 | 6:00 | 372 | 9:00 | 17,6 |
| | 1:30 | 465 | 4:30 | 392 | 6:15 | 290 | 9:30 | 15,5 |
| | 1:45 | 450 | 5:00 | 392 | 6:30 | 176 | 10:00 | 14,6 |
| | 2:00 | 438 | | | 6:45 | 142 | 10:30 | 14,2 |
| | 2:15 | 428 | | | 7:00 | 118 | 11:00 | 12,4 |
| | 2:30 | 421 | | | 7:15 | 78 | 11:30 | 12 |
| | 2:45 | 414 | | | 7:30 | 50 | 12:00 | 12 |

| Meranie | 4 | | | | | | | | | |
|---------|------------|-----|------|-----|------|--------------|------|-----|-------|------|
| | Flokulácia | | | | | Sedimentácia | | | | |
| | Čas | FNU | Čas | FNU | Čas | FNU | Čas | FNU | Čas | FNU |
| | 0:00 | 512 | 2:45 | 399 | 6:00 | 368 | 6:00 | 368 | 8:30 | 31,8 |
| | 0:30 | 509 | 3:00 | 394 | | | 6:30 | 365 | 8:45 | 21,8 |
| | 1:00 | 488 | 3:15 | 387 | | | 6:45 | 355 | 9:00 | 16,9 |
| | 1:15 | 471 | 3:30 | 384 | | | 7:00 | 340 | 9:30 | 13,5 |
| | 1:30 | 455 | 3:45 | 382 | | | 7:15 | 281 | 10:00 | 9,5 |
| | 1:45 | 441 | 4:00 | 378 | | | 7:30 | 152 | 10:30 | 7,9 |
| | 2:00 | 426 | 4:30 | 371 | | | 7:45 | 112 | 11:00 | 6,7 |
| | 2:15 | 416 | 5:00 | 370 | | | 8:00 | 76 | 11:30 | 6,4 |
| | 2:30 | 409 | 5:30 | 369 | | | 8:15 | 51 | 12:00 | 6,3 |

Namerané údaje pre : vplyv dávky flokulantu a koncentrácie kaolínu na flokuláciu pre merný príkon 40 W/m^3 , $c_{k0} = 500 \text{ mg/l}$

| Meranie | 5 | | | | | | | |
|---------|------------|-----|------|-----|--------------|------|-------|------|
| | Flokulácia | | | | Sedimentácia | | | |
| | Čas | FNU | Čas | FNU | Čas | FNU | Čas | FNU |
| | 0:00 | 515 | 3:15 | 399 | 7:00 | 357 | 10:00 | 14,3 |
| | 0:30 | 508 | 3:30 | 396 | 7:30 | 349 | 10:15 | 10 |
| | 1:00 | 492 | 3:45 | 391 | 7:45 | 343 | 10:30 | 8,6 |
| | 1:15 | 479 | 4:00 | 386 | 8:00 | 332 | 10:45 | 8,2 |
| | 1:30 | 465 | 4:30 | 376 | 8:15 | 287 | 11:00 | 8 |
| | 1:45 | 450 | 5:00 | 372 | 8:30 | 152 | 11:30 | 8 |
| | 2:00 | 437 | 5:30 | 367 | 8:45 | 90 | 12:00 | 7,8 |
| | 2:15 | 427 | 6:00 | 364 | 9:00 | 69 | | |
| | 2:30 | 420 | 6:30 | 358 | 9:15 | 46 | | |
| | 2:45 | 411 | 7:00 | 357 | 9:30 | 33,5 | | |
| | 3:00 | 404 | | | 9:45 | 22 | | |

Príloha č. 2 - Namerané údaje pre : vplyv dávky flokulantu a koncentrácie kaolínu na flokuláciu pre merný príkon 40 W/m^3 , $c_{k0} = 750 \text{ mg/l}$. (Miešadlo: Rushtonova turbína)

| Meranie | 1 | 2 | 3 | 4 | 5 |
|----------------------------|--------------------|--------------------|--------------------|--------------------|--------------------|
| Objem nádoby [l] | 5,4 | 5,4 | 5,4 | 5,4 | 5,4 |
| Flokulant | Sokoflok 16 | Sokoflok 16 | Sokoflok 16 | Sokoflok 16 | Sokoflok 16 |
| Koncentrácia [ml/l] | 0,195 | 0,39 | 0,78 | 1,56 | 2,28 |
| Koncentrácia [ml] | 1,053 | 2,106 | 4,212 | 8,424 | 12,312 |
| Znečistovacia látka | Kaolín | Kaolín | Kaolín | Kaolín | Kaolín |
| Koncentrácia [mg/l] | 750 | 750 | 750 | 750 | 750 |
| Koncentrácia [ml] | 40,5 | 40,5 | 40,5 | 40,5 | 40,5 |

Namerané údaje pre : vplyv dávky flokulantu a koncentrácie kaolínu na flokuláciu pre merný príkon 40 W/m^3 , $c_{k0} = 750 \text{ mg/l}$

| Meranie | 1 | | | | | | | | | |
|---------|------------|-----|------|-----|--------------|-----|-------|------|-------|-----|
| | Flokulácia | | | | Sedimentácia | | | | | |
| | Čas | FNU | Čas | FNU | Čas | FNU | Čas | FNU | Čas | FNU |
| | 0:00 | 840 | 3:00 | 608 | 5:00 | 598 | 7:45 | 80 | 12:00 | 12 |
| | 0:30 | 834 | 3:30 | 605 | 5:30 | 593 | 8:00 | 76 | | |
| | 1:00 | 811 | 4:00 | 601 | 5:45 | 588 | 8:15 | 69 | | |
| | 1:15 | 714 | 4:30 | 599 | 6:00 | 583 | 8:30 | 54 | | |
| | 1:30 | 671 | 5:00 | 598 | 6:15 | 541 | 9:00 | 37 | | |
| | 1:45 | 645 | | | 6:30 | 369 | 9:30 | 25,3 | | |
| | 2:00 | 632 | | | 6:45 | 271 | 10:00 | 19,6 | | |
| | 2:15 | 622 | | | 7:00 | 191 | 10:30 | 16,2 | | |
| | 2:30 | 616 | | | 7:15 | 152 | 11:00 | 13,3 | | |
| | 2:45 | 611 | | | 7:30 | 101 | 11:30 | 13,2 | | |

| Meranie | 2 | | | | | | | | | |
|---------|------------|-----|------|-----|--------------|-----|------|-----|-------|------|
| | Flokulácia | | | | Sedimentácia | | | | | |
| | Čas | FNU | Čas | FNU | Čas | FNU | Čas | FNU | Čas | FNU |
| | 0:00 | 512 | 2:45 | 399 | 6:00 | 368 | 6:00 | 548 | 8:30 | 72 |
| | 0:30 | 509 | 3:00 | 394 | | | 6:30 | 546 | 8:45 | 57 |
| | 1:00 | 488 | 3:15 | 387 | | | 6:45 | 541 | 9:00 | 46 |
| | 1:15 | 471 | 3:30 | 384 | | | 7:00 | 527 | 9:30 | 20 |
| | 1:30 | 455 | 3:45 | 382 | | | 7:15 | 480 | 10:00 | 12,6 |
| | 1:45 | 441 | 4:00 | 378 | | | 7:30 | 304 | 10:30 | 10 |
| | 2:00 | 426 | 4:30 | 371 | | | 7:45 | 227 | 11:00 | 6 |
| | 2:15 | 416 | 5:00 | 370 | | | 8:00 | 136 | 11:30 | 5,1 |
| | 2:30 | 409 | 5:30 | 369 | | | 8:15 | 86 | 12:00 | 4,9 |

Namerané údaje pre : vplyv dávky flokulantu a koncentrácie kaolínu na flokuláciu pre merný príkon 40 W/m^3 , $c_{k0} = 750 \text{ mg/l}$

| Meranie | 3 | | | | | | | | | |
|---------|------------|-----|------|-----|------|--------------|------|------|-------|------|
| | Flokulácia | | | | | Sedimentácia | | | | |
| | Čas | FNU | Čas | FNU | Čas | FNU | Čas | FNU | Čas | FNU |
| | 0:00 | 845 | 3:00 | 542 | 7:00 | 472 | 7:00 | 472 | 9:45 | 7,7 |
| | 0:30 | 836 | 3:15 | 531 | | | 7:30 | 463 | 10:00 | 6,6 |
| | 1:00 | 798 | 3:30 | 521 | | | 7:45 | 454 | 10:30 | 4,7 |
| | 1:15 | 730 | 3:45 | 516 | | | 8:00 | 436 | 11:00 | 3,9 |
| | 1:30 | 671 | 4:00 | 511 | | | 8:15 | 355 | 11:30 | 3,38 |
| | 1:45 | 629 | 4:30 | 500 | | | 8:30 | 191 | 12:00 | 3,22 |
| | 2:00 | 602 | 5:00 | 485 | | | 8:45 | 119 | | |
| | 2:15 | 579 | 5:30 | 476 | | | 9:00 | 76 | | |
| | 2:30 | 566 | 6:00 | 473 | | | 9:15 | 32,5 | | |
| | 2:45 | 552 | 6:30 | 474 | | | 9:30 | 14,9 | | |

| Meranie | 4 | | | | | | | | | |
|---------|------------|-----|------|-----|------|--------------|------|-----|-------|------|
| | Flokulácia | | | | | Sedimentácia | | | | |
| | Čas | FNU | Čas | FNU | Čas | FNU | Čas | FNU | Čas | FNU |
| | 0:00 | 836 | 2:45 | 559 | 6:00 | 487 | 6:00 | 487 | 8:30 | 24,2 |
| | 0:30 | 825 | 3:00 | 546 | | | 6:30 | 479 | 8:45 | 14,5 |
| | 1:00 | 794 | 3:15 | 535 | | | 6:45 | 470 | 9:00 | 10,7 |
| | 1:15 | 727 | 3:30 | 527 | | | 7:00 | 456 | 9:15 | 8,9 |
| | 1:30 | 677 | 3:45 | 520 | | | 7:15 | 414 | 9:30 | 8 |
| | 1:45 | 631 | 4:00 | 515 | | | 7:30 | 220 | 10:00 | 6,2 |
| | 2:00 | 603 | 4:30 | 504 | | | 7:45 | 112 | 10:30 | 5,2 |
| | 2:15 | 580 | 5:00 | 499 | | | 8:00 | 85 | 11:00 | 4,8 |
| | 2:30 | 571 | 5:30 | 493 | | | 8:15 | 53 | | |

Namerané údaje pre : vplyv dávky flokulantu a koncentrácie kaolínu na flokuláciu pre merný príkon 40 W/m^3 , $c_{k0} = 750 \text{ mg/l}$

| Meranie | 5 | | | | | | | |
|---------|------------|-----|------|-----|--------------|------|-------|------|
| | Flokulácia | | | | Sedimentácia | | | |
| | Čas | FNU | Čas | FNU | Čas | FNU | Čas | FNU |
| | 0:00 | 847 | 3:00 | 558 | 6:00 | 493 | 8:45 | 15,7 |
| | 0:30 | 840 | 3:15 | 542 | 6:30 | 481 | 9:00 | 13,4 |
| | 1:00 | 794 | 3:30 | 536 | 6:45 | 472 | 9:30 | 11 |
| | 1:15 | 740 | 3:45 | 528 | 7:00 | 431 | 10:00 | 10,1 |
| | 1:30 | 692 | 4:00 | 521 | 7:15 | 326 | 10:30 | 8,3 |
| | 1:45 | 658 | 4:15 | 517 | 7:30 | 200 | 11:00 | 7,4 |
| | 2:00 | 627 | 4:30 | 508 | 7:45 | 113 | 11:30 | 7,2 |
| | 2:15 | 598 | 5:00 | 505 | 8:00 | 77 | 12:00 | 7,1 |
| | 2:30 | 587 | 5:30 | 500 | 8:15 | 39,7 | | |
| | 2:45 | 570 | 6:00 | 493 | 8:30 | 22,3 | | |

Príloha č. 3 - Namerané údaje pre : vplyv dávky flokulantu a koncentrácie kaolínu na flokuláciu pre merný príkon 40 W/m^3 , $c_{k0} = 1\ 000 \text{ mg/l}$. (Miešadlo: Rushtonova turbína)

| Meranie | 1 | 2 | 3 | 4 | 5 |
|----------------------------|--------------------|--------------------|--------------------|--------------------|--------------------|
| Objem nádoby [l] | 5,4 | 5,4 | 5,4 | 5,4 | 5,4 |
| Flokulant | Sokoflok 16 | Sokoflok 16 | Sokoflok 16 | Sokoflok 16 | Sokoflok 16 |
| Koncentrácia [ml/l] | 0,26 | 0,52 | 1,04 | 2,08 | 3,04 |
| Koncentrácia [ml] | 1,404 | 2,808 | 5,616 | 11,232 | 16,416 |
| Znečistovacia látka | Kaolín | Kaolín | Kaolín | Kaolín | Kaolín |
| Koncentrácia [mg/l] | 1000 | 1000 | 1000 | 1000 | 1000 |
| Koncentrácia [ml] | 54 | 54 | 54 | 54 | 54 |

Namerané údaje pre : vplyv dávky flokulantu a koncentrácie kaolínu na flokuláciu pre merný príkon 40 W/m^3 , $c_{k0} = 1\,000 \text{ mg/l}$

| Meranie | 1 | | | | | | | | | |
|---------|------------|------|------|-----|--------------|-----|-------|------|-------|-----|
| | Flokulácia | | | | Sedimentácia | | | | | |
| | Čas | FNU | Čas | FNU | Čas | FNU | Čas | FNU | Čas | FNU |
| | 0:00 | 1225 | 3:00 | 806 | 6:00 | 766 | 8:45 | 116 | 13:00 | 8,7 |
| | 0:30 | 1209 | 3:30 | 791 | 6:30 | 757 | 9:00 | 105 | | |
| | 1:00 | 1146 | 4:00 | 785 | 6:45 | 753 | 9:15 | 78 | | |
| | 1:15 | 981 | 4:30 | 779 | 7:00 | 727 | 9:30 | 49 | | |
| | 1:30 | 890 | 5:00 | 773 | 7:15 | 587 | 10:00 | 39,1 | | |
| | 1:45 | 847 | 5:30 | 768 | 7:30 | 437 | 10:30 | 31,6 | | |
| | 2:00 | 831 | 6:00 | 766 | 7:45 | 347 | 11:00 | 26,4 | | |
| | 2:15 | 821 | | | 8:00 | 237 | 11:30 | 23,2 | | |
| | 2:30 | 813 | | | 8:15 | 147 | 12:00 | 12,6 | | |
| | 2:45 | 810 | | | 8:30 | 128 | 12:30 | 9,5 | | |

| Meranie | 2 | | | | | | | |
|---------|------------|------|------|-----|--------------|-----|-------|------|
| | Flokulácia | | | | Sedimentácia | | | |
| | Čas | FNU | Čas | FNU | Čas | FNU | Čas | FNU |
| | 0:00 | 1231 | 2:45 | 766 | 6:00 | 712 | 8:30 | 69 |
| | 0:30 | 1226 | 3:00 | 757 | 6:30 | 702 | 8:45 | 59 |
| | 1:00 | 1178 | 3:15 | 751 | 6:45 | 690 | 9:00 | 45 |
| | 1:15 | 985 | 3:30 | 743 | 7:00 | 676 | 9:30 | 29,3 |
| | 1:30 | 879 | 4:00 | 733 | 7:15 | 492 | 10:00 | 15,9 |
| | 1:45 | 833 | 4:30 | 723 | 7:30 | 344 | 10:30 | 8,8 |
| | 2:00 | 805 | 5:00 | 717 | 7:45 | 239 | 11:00 | 6,4 |
| | 2:15 | 793 | 5:30 | 716 | 8:00 | 127 | 11:30 | 5,7 |
| | 2:30 | 781 | 6:00 | 712 | 8:15 | 81 | 12:00 | 5,5 |

Namerané údaje pre : vplyv dávky flokulantu a koncentrácie kaolínu na flokuláciu pre merný príkon 40 W/m^3 , $c_{k0} = 1\,000 \text{ mg/l}$

| Meranie | 3 | | | | | | | |
|---------|------------|------|------|-----|--------------|------|-------|------|
| | Flokulácia | | | | Sedimentácia | | | |
| | Čas | FNU | Čas | FNU | Čas | FNU | Čas | FNU |
| | 0:00 | 1222 | 3:00 | 701 | 6:00 | 647 | 8:45 | 15,9 |
| | 0:30 | 1216 | 3:30 | 675 | 6:30 | 640 | 9:00 | 12,6 |
| | 1:00 | 1117 | 4:00 | 665 | 6:45 | 634 | 9:30 | 8,1 |
| | 1:15 | 972 | 4:30 | 661 | 7:00 | 601 | 10:00 | 5,3 |
| | 1:30 | 865 | 5:00 | 654 | 7:15 | 427 | 10:30 | 4,3 |
| | 1:45 | 821 | 5:30 | 649 | 7:30 | 264 | 11:00 | 4,2 |
| | 2:00 | 776 | 6:00 | 647 | 7:45 | 167 | | |
| | 2:15 | 749 | | | 8:00 | 74 | | |
| | 2:30 | 728 | | | 8:15 | 26,9 | | |
| | 2:45 | 714 | | | 8:30 | 18,7 | | |

| Meranie | 4 | | | | | | | | | |
|---------|------------|------|------|-----|--------------|-----|------|------|-------|------|
| | Flokulácia | | | | Sedimentácia | | | | | |
| | Čas | FNU | Čas | FNU | Čas | FNU | Čas | FNU | | |
| | 0:00 | 1240 | 2:45 | 692 | 6:30 | 606 | 7:00 | 596 | 9:30 | 10,4 |
| | 0:30 | 1229 | 3:00 | 682 | 7:00 | 596 | 7:30 | 589 | 10:00 | 7,5 |
| | 1:00 | 1137 | 3:15 | 675 | | | 7:45 | 577 | 10:30 | 5,5 |
| | 1:15 | 999 | 3:30 | 664 | | | 8:00 | 540 | 11:00 | 4,5 |
| | 1:30 | 889 | 4:00 | 645 | | | 8:15 | 386 | 11:30 | 4,5 |
| | 1:45 | 840 | 4:30 | 633 | | | 8:30 | 218 | 12:00 | 4,1 |
| | 2:00 | 767 | 5:00 | 622 | | | 8:45 | 155 | | |
| | 2:15 | 745 | 5:30 | 612 | | | 9:00 | 47 | | |
| | 2:30 | 710 | 6:00 | 606 | | | 9:15 | 15,2 | | |

Namerané údaje pre : vplyv dávky flokulantu a koncentrácie kaolínu na flokuláciu pre merný príkon 40 W/m^3 , $c_{k0} = 1\,000 \text{ mg/l}$

| Meranie | 5 | | | | | | | |
|---------|------------|------|------|-----|--------------|------|-------|-----|
| | Flokulácia | | | | Sedimentácia | | | |
| | Čas | FNU | Čas | FNU | Čas | FNU | Čas | FNU |
| | 0:00 | 1237 | 3:00 | 689 | 7:00 | 585 | 10:00 | 8,7 |
| | 0:30 | 1222 | 3:15 | 678 | 7:30 | 575 | 10:30 | 6,7 |
| | 1:00 | 1147 | 3:30 | 659 | 7:45 | 564 | 11:00 | 5,6 |
| | 1:15 | 1016 | 4:00 | 639 | 8:00 | 545 | 11:30 | 5,6 |
| | 1:30 | 917 | 4:30 | 618 | 8:15 | 377 | 12:00 | 5,5 |
| | 1:45 | 855 | 5:00 | 609 | 8:30 | 169 | | |
| | 2:00 | 799 | 5:30 | 601 | 8:45 | 81 | | |
| | 2:15 | 757 | 6:00 | 592 | 9:00 | 48 | | |
| | 2:30 | 729 | 6:30 | 589 | 9:15 | 29,3 | | |
| | 2:45 | 703 | 7:00 | 585 | 9:30 | 18,3 | | |

Príloha č. 4 - Namerané údaje pre : vplyv zmeny príkonu na flokuláciu pre koncentráciu kaolínu $c_{k0} = 500$ mg/l a bezrozmernú dávku flokulantu $D_F/c_{k0} = 0,26$ mg/g. (Miešadlo: Rushtonova turbína)

| E | 40 W/m³ | 100 W/m³ | 200 W/m³ | 300 W/m³ | 400 W/m³ |
|----------------------------|---------------------------|----------------------------|----------------------------|----------------------------|----------------------------|
| Meranie | 1 | 2 | 3 | 4 | 5 |
| Objem nádoby [l] | 5,4 | 5,4 | 5,4 | 5,4 | 5,4 |
| Flokulant | Sokoflok 16 | Sokoflok 16 | Sokoflok 16 | Sokoflok 16 | Sokoflok 16 |
| Koncentrácia [ml/l] | 0,13 | 0,13 | 0,13 | 0,13 | 0,13 |
| Koncentrácia [ml] | 0,702 | 0,702 | 0,702 | 0,702 | 0,702 |
| Znečistovacia látka | Kaolín | Kaolín | Kaolín | Kaolín | Kaolín |
| Koncentrácia [mg/l] | 500 | 500 | 500 | 500 | 500 |
| Koncentrácia [ml] | 27 | 27 | 27 | 27 | 27 |

Namerané údaje pre : vplyv zmeny príkonu na flokuláciu pre bezrozmernú dávku flokulantu $D_F/c_{k0} = 0,26 \text{ mg/g}$.

| Meranie | 1 | | | | | | | | | |
|---------|------------|-----|------|-----|--------------|-----|-------|------|-------|------|
| | Flokulácia | | | | Sedimentácia | | | | | |
| | Čas | FNU | Čas | FNU | Čas | FNU | Čas | FNU | Čas | FNU |
| | 0:00 | 509 | 2:45 | 406 | 5:00 | 395 | 8:00 | 100 | 10:30 | 17,7 |
| | 0:30 | 504 | 3:00 | 404 | 5:30 | 390 | 8:15 | 89 | 10:45 | 15,1 |
| | 0:45 | 500 | 3:15 | 401 | 6:00 | 384 | 8:30 | 74 | 11:00 | 13,4 |
| | 1:00 | 494 | 3:30 | 400 | 6:15 | 366 | 8:45 | 63 | 11:30 | 11,2 |
| | 1:15 | 462 | 3:45 | 398 | 6:30 | 306 | 9:00 | 53 | 12:00 | 10,7 |
| | 1:30 | 441 | 4:00 | 397 | 6:45 | 274 | 9:15 | 48 | | |
| | 1:45 | 429 | 4:15 | 396 | 7:00 | 227 | 9:30 | 41 | | |
| | 2:00 | 419 | 4:30 | 396 | 7:15 | 166 | 9:45 | 36,3 | | |
| | 2:15 | 414 | 5:00 | 395 | 7:30 | 144 | 10:00 | 32 | | |
| | 2:30 | 409 | | | 7:45 | 126 | 10:15 | 23,5 | | |

| Meranie | 2 | | | | | | | | | | | |
|---------|------------|-----|------|-----|--------------|-----|------|-----|-------|------|-------|------|
| | Flokulácia | | | | Sedimentácia | | | | | | | |
| | Čas | FNU | Čas | FNU | Čas | FNU | Čas | FNU | Čas | FNU | | |
| | 0:00 | 426 | 3:00 | 375 | 5:00 | 371 | 7:30 | 265 | 9:45 | 97 | 12:30 | 23,9 |
| | 0:30 | 421 | 3:30 | 374 | 5:30 | 370 | 7:45 | 233 | 10:00 | 91 | 13:00 | 20,5 |
| | 1:00 | 416 | 4:00 | 372 | 5:45 | 370 | 8:00 | 206 | 10:15 | 82 | 13:30 | 19,1 |
| | 1:15 | 400 | 4:30 | 371 | 6:00 | 368 | 8:15 | 190 | 10:30 | 69 | 14:00 | 19,1 |
| | 1:30 | 392 | 5:00 | 371 | 6:15 | 366 | 8:30 | 163 | 10:45 | 63 | | |
| | 1:45 | 386 | | | 6:30 | 361 | 8:45 | 146 | 11:00 | 60 | | |
| | 2:00 | 383 | | | 6:45 | 351 | 9:00 | 132 | 11:15 | 56 | | |
| | 2:15 | 380 | | | 7:00 | 340 | 9:15 | 116 | 11:30 | 53 | | |
| | 2:30 | 378 | | | 7:15 | 307 | 9:30 | 107 | 12:00 | 39,5 | | |

Namerané údaje pre : vplyv zmeny príkonu na flokuláciu pre bezrozmernú dávku flokulantu $D_F/c_{k0} = 0,26 \text{ mg/g}$.

| Meranie | 3 | | | | | | | | | |
|---------|------------|-----|------|-----|--------------|-----|-------|-----|-------|------|
| | Flokulácia | | | | Sedimentácia | | | | | |
| | Čas | FNU | Čas | FNU | Čas | FNU | Čas | FNU | Čas | FNU |
| | 0:00 | 470 | 4:00 | 406 | 4:00 | 406 | 7:00 | 263 | 10:30 | 84 |
| | 0:30 | 468 | | | 4:30 | 405 | 7:15 | 231 | 11:00 | 72 |
| | 1:00 | 455 | | | 5:00 | 402 | 7:30 | 207 | 11:30 | 61 |
| | 1:15 | 431 | | | 5:15 | 397 | 7:45 | 186 | 12:00 | 54 |
| | 1:30 | 420 | | | 5:30 | 383 | 8:00 | 171 | 12:30 | 48 |
| | 1:45 | 415 | | | 5:45 | 371 | 8:15 | 158 | 13:00 | 42 |
| | 2:00 | 413 | | | 6:00 | 354 | 8:30 | 148 | 13:30 | 19,4 |
| | 2:30 | 410 | | | 6:15 | 326 | 9:00 | 123 | 14:00 | 14,5 |
| | 3:00 | 408 | | | 6:30 | 308 | 9:30 | 103 | 14:30 | 14,5 |
| | 3:30 | 407 | | | 6:45 | 286 | 10:00 | 96 | 15:00 | 14,5 |

| Meranie | 4 | | | | | | | | | | | | | |
|---------|------------|-----|------|-----|--------------|-----|------|-----|-------|-----|-------|-----|-------|------|
| | Flokulácia | | | | Sedimentácia | | | | | | | | | |
| | Čas | FNU | Čas | FNU | Čas | FNU | Čas | FNU | Čas | FNU | Čas | FNU | | |
| | 0:00 | 470 | 3:30 | 410 | 4:00 | 409 | 6:30 | 351 | 8:45 | 188 | 11:00 | 112 | 14:00 | 54 |
| | 0:30 | 467 | 4:00 | 409 | 4:30 | 408 | 6:45 | 338 | 9:00 | 177 | 11:15 | 104 | 14:30 | 41 |
| | 1:00 | 455 | | | 4:45 | 407 | 7:00 | 328 | 9:15 | 162 | 11:30 | 101 | 15:00 | 31 |
| | 1:15 | 428 | | | 5:00 | 407 | 7:15 | 309 | 9:30 | 156 | 11:45 | 90 | 15:30 | 27 |
| | 1:30 | 422 | | | 5:15 | 402 | 7:30 | 272 | 9:45 | 146 | 12:00 | 83 | 16:00 | 24,8 |
| | 1:45 | 418 | | | 5:30 | 394 | 7:45 | 249 | 10:00 | 137 | 12:15 | 81 | 16:30 | 24,4 |
| | 2:00 | 415 | | | 5:45 | 387 | 8:00 | 227 | 10:15 | 131 | 12:30 | 78 | 17:00 | 23,1 |
| | 2:30 | 412 | | | 6:00 | 383 | 8:15 | 220 | 10:30 | 127 | 13:00 | 69 | | |
| | 3:00 | 411 | | | 6:15 | 374 | 8:30 | 210 | 10:45 | 118 | 13:30 | 61 | | |

Namerané údaje pre : vplyv zmeny príkonu na flokuláciu pre bezrozmernú dávku flokulantu $D_F/c_{k0} = 0,26 \text{ mg/g}$.

| Meranie | 5 | | | | | | | | | |
|---------|------------|-----|--------------|-----|-------|-----|-------|-----|-------|-----|
| | Flokulácia | | Sedimentácia | | | | | | | |
| | Čas | FNU | Čas | FNU | Čas | FNU | Čas | FNU | Čas | FNU |
| | 0:00 | 472 | 4:00 | 412 | 7:45 | 338 | 11:15 | 173 | 14:45 | 97 |
| | 0:30 | 468 | 4:30 | 411 | 8:00 | 303 | 11:30 | 160 | 15:00 | 95 |
| | 1:00 | 458 | 4:45 | 410 | 8:15 | 283 | 11:45 | 155 | 15:30 | 86 |
| | 1:15 | 430 | 5:00 | 410 | 8:30 | 267 | 12:00 | 148 | 16:00 | 79 |
| | 1:30 | 422 | 5:15 | 408 | 8:45 | 257 | 12:15 | 145 | 16:30 | 70 |
| | 1:45 | 420 | 5:30 | 404 | 9:00 | 248 | 12:30 | 138 | 17:00 | 61 |
| | 2:00 | 418 | 5:45 | 400 | 9:15 | 240 | 12:45 | 122 | 17:30 | 59 |
| | 2:15 | 416 | 6:00 | 396 | 9:30 | 230 | 13:00 | 116 | 18:00 | 57 |
| | 2:30 | 415 | 6:15 | 390 | 9:45 | 222 | 13:15 | 115 | 18:30 | 54 |
| | 2:45 | 415 | 6:30 | 373 | 10:00 | 212 | 13:30 | 114 | 19:00 | 50 |
| | 3:00 | 414 | 6:45 | 369 | 10:15 | 187 | 13:45 | 110 | 19:30 | 50 |
| | 3:30 | 413 | 7:00 | 364 | 10:30 | 183 | 14:00 | 109 | 20:00 | 50 |
| | 4:00 | 412 | 7:15 | 360 | 10:45 | 180 | 14:15 | 107 | | |
| | | | 7:30 | 350 | 11:00 | 177 | 14:30 | 103 | | |

Príloha č. 5 - Namerané údaje pre : vplyv zmeny príkonu na flokuláciu pre koncentráciu kaolínu $c_{k0} = 500$ mg/l a bezrozmernú dávku flokulantu $D_F/c_{k0} = 1,04$ mg/g. (Miešadlo: Rushtonova turbína)

| E | 40 W/m ³ | 100 W/m ³ | 200 W/m ³ | 300 W/m ³ | 400 W/m ³ |
|----------------------------|---------------------|----------------------|----------------------|----------------------|----------------------|
| Meranie | 1 | 2 | 3 | 4 | 5 |
| Objem nádoby [l] | 5,4 | 5,4 | 5,4 | 5,4 | 5,4 |
| Flokulant | Sokoflok 16 | Sokoflok 16 | Sokoflok 16 | Sokoflok 16 | Sokoflok 16 |
| Koncentrácia [ml/l] | 0,52 | 0,52 | 0,52 | 0,52 | 0,52 |
| Koncentrácia [ml] | 2,808 | 2,808 | 2,808 | 2,808 | 2,808 |
| Znečistovacia látka | Kaolín | Kaolín | Kaolín | Kaolín | Kaolín |
| Koncentrácia [mg/l] | 500 | 500 | 500 | 500 | 500 |
| Koncentrácia [ml] | 27 | 27 | 27 | 27 | 27 |

Namerané údaje pre : vplyv zmeny príkonu na flokuláciu pre bezrozmernú dávku flokulantu DF/ck0 = 1,04 mg/g.

| Meranie | 1 | | | | | | | |
|---------|------------|-----|------|-----|--------------|-----|-------|------|
| | Flokulácia | | | | Sedimentácia | | | |
| | Čas | FNU | Čas | FNU | Čas | FNU | Čas | FNU |
| | 0:00 | 524 | 3:00 | 404 | 5:00 | 392 | 7:45 | 37,8 |
| | 0:30 | 521 | 3:15 | 400 | 5:30 | 389 | 8:00 | 30,6 |
| | 1:00 | 508 | 3:30 | 397 | 5:45 | 385 | 8:30 | 22 |
| | 1:15 | 482 | 4:00 | 394 | 6:00 | 372 | 9:00 | 17,6 |
| | 1:30 | 465 | 4:30 | 392 | 6:15 | 290 | 9:30 | 15,5 |
| | 1:45 | 450 | 5:00 | 392 | 6:30 | 176 | 10:00 | 14,6 |
| | 2:00 | 438 | | | 6:45 | 142 | 10:30 | 14,2 |
| | 2:15 | 428 | | | 7:00 | 118 | 11:00 | 12,4 |
| | 2:30 | 421 | | | 7:15 | 78 | 11:30 | 12 |
| | 2:45 | 414 | | | 7:30 | 50 | 12:00 | 12 |

| Meranie | 2 | | | | | | | | | |
|---------|------------|-----|------|-----|--------------|-----|-------|------|-------|------|
| | Flokulácia | | | | Sedimentácia | | | | | |
| | Čas | FNU | Čas | FNU | Čas | FNU | Čas | FNU | Čas | FNU |
| | 0:00 | 432 | 2:45 | 371 | 5:00 | 359 | 7:30 | 155 | 10:30 | 10,3 |
| | 0:30 | 429 | 3:00 | 368 | 5:30 | 357 | 7:45 | 106 | 11:00 | 9,4 |
| | 1:00 | 423 | 3:30 | 362 | 5:45 | 355 | 8:00 | 89 | 11:30 | 9,3 |
| | 1:15 | 407 | 4:00 | 361 | 6:00 | 349 | 8:15 | 75 | 12:00 | 9,2 |
| | 1:30 | 398 | 4:30 | 360 | 6:15 | 334 | 8:30 | 69 | | |
| | 1:45 | 386 | 5:00 | 359 | 6:30 | 306 | 8:45 | 61 | | |
| | 2:00 | 379 | | | 6:45 | 254 | 9:00 | 52 | | |
| | 2:15 | 376 | | | 7:00 | 211 | 9:30 | 35,4 | | |
| | 2:30 | 373 | | | 7:15 | 183 | 10:00 | 14,8 | | |

Namerané údaje pre : vplyv zmeny príkonu na flokuláciu pre bezrozmernú dávku flokulantu DF/ck0 = 1,04 mg/g.

| Meranie | 3 | | | | | | | | | |
|---------|------------|-----|------|-----|--------------|-----|-------|------|-------|------|
| | Flokulácia | | | | Sedimentácia | | | | | |
| | Čas | FNU | Čas | FNU | Čas | FNU | Čas | FNU | Čas | FNU |
| | 0:00 | 470 | 3:30 | 397 | 5:00 | 394 | 8:00 | 172 | 12:00 | 30 |
| | 0:30 | 466 | 4:00 | 396 | 5:30 | 393 | 8:15 | 158 | 12:30 | 26,2 |
| | 1:00 | 455 | 4:30 | 395 | 6:00 | 390 | 8:30 | 144 | 13:00 | 20,1 |
| | 1:15 | 435 | 5:00 | 394 | 6:15 | 374 | 8:45 | 129 | 13:30 | 16,5 |
| | 1:30 | 423 | | | 6:30 | 349 | 9:00 | 104 | 14:00 | 10,1 |
| | 1:45 | 415 | | | 6:45 | 335 | 9:30 | 88 | 14:30 | 9,3 |
| | 2:00 | 412 | | | 7:00 | 300 | 10:00 | 72 | 15:00 | 8,8 |
| | 2:15 | 406 | | | 7:15 | 276 | 10:30 | 61 | 15:30 | 8,1 |
| | 2:30 | 404 | | | 7:30 | 261 | 11:00 | 45 | 16:00 | 8,1 |
| | 3:00 | 399 | | | 7:45 | 209 | 11:30 | 34,6 | | |

| Meranie | 4 | | | | | | | | | | | | | |
|---------|------------|-----|------|-----|--------------|-----|------|-----|-------|-----|-------|------|-------|------|
| | Flokulácia | | | | Sedimentácia | | | | | | | | | |
| | Čas | FNU | Čas | FNU | Čas | FNU | Čas | FNU | Čas | FNU | Čas | FNU | | |
| | 0:00 | 468 | 3:00 | 405 | 4:00 | 403 | 6:30 | 321 | 8:45 | 134 | 11:00 | 64 | 15:00 | 11,4 |
| | 0:30 | 465 | 3:30 | 404 | 4:30 | 402 | 6:45 | 292 | 9:00 | 120 | 11:15 | 56 | | |
| | 1:00 | 456 | 4:00 | 403 | 4:45 | 401 | 7:00 | 254 | 9:15 | 107 | 11:30 | 50 | | |
| | 1:15 | 432 | | | 5:00 | 399 | 7:15 | 216 | 9:30 | 101 | 12:00 | 38,9 | | |
| | 1:30 | 424 | | | 5:15 | 391 | 7:30 | 200 | 9:45 | 91 | 12:30 | 24,1 | | |
| | 1:45 | 415 | | | 5:30 | 379 | 7:45 | 185 | 10:00 | 85 | 13:00 | 18,3 | | |
| | 2:00 | 412 | | | 5:45 | 369 | 8:00 | 167 | 10:15 | 78 | 13:30 | 14,8 | | |
| | 2:15 | 409 | | | 6:00 | 360 | 8:15 | 148 | 10:30 | 72 | 14:00 | 11,5 | | |
| | 2:30 | 407 | | | 6:15 | 339 | 8:30 | 142 | 10:45 | 68 | 14:30 | 11,4 | | |

Namerané údaje pre : vplyv zmeny príkonu na flokuláciu pre bezrozmernú dávku flokulantu DF/ck0 = 1,04 mg/g.

| Meranie | 5 | | | | | | | | | | | |
|---------|------------|-----|------|-----|--------------|-----|-------|-----|-------|-----|-------|-----|
| | Flokulácia | | | | Sedimentácia | | | | | | | |
| | Čas | FNU | Čas | FNU | Čas | FNU | Čas | FNU | Čas | FNU | Čas | FNU |
| | 0:00 | 483 | 4:00 | 416 | 4:00 | 416 | 7:15 | 313 | 10:15 | 121 | 13:15 | 68 |
| | 0:30 | 467 | | | 4:30 | 414 | 7:30 | 285 | 10:30 | 118 | 13:30 | 63 |
| | 1:00 | 434 | | | 4:45 | 413 | 7:45 | 250 | 10:45 | 113 | 13:45 | 61 |
| | 1:15 | 430 | | | 5:00 | 411 | 8:00 | 235 | 11:00 | 108 | 14:00 | 59 |
| | 1:30 | 425 | | | 5:15 | 409 | 8:15 | 212 | 11:15 | 101 | 14:15 | 55 |
| | 1:45 | 424 | | | 5:30 | 402 | 8:30 | 202 | 11:30 | 94 | 14:30 | 52 |
| | 2:00 | 422 | | | 5:45 | 394 | 8:45 | 192 | 11:45 | 88 | 14:45 | 48 |
| | 2:15 | 422 | | | 6:00 | 386 | 9:00 | 184 | 12:00 | 85 | 15:00 | 44 |
| | 2:30 | 419 | | | 6:15 | 359 | 9:15 | 161 | 12:15 | 82 | 15:15 | 42 |
| | 2:45 | 418 | | | 6:30 | 344 | 9:30 | 143 | 12:30 | 76 | 15:30 | 42 |
| | 3:00 | 418 | | | 6:45 | 338 | 9:45 | 140 | 12:45 | 75 | 15:45 | 41 |
| | 3:30 | 417 | | | 7:00 | 328 | 10:00 | 127 | 13:00 | 71 | 16:00 | 41 |

Príloha č. 6 - Namerané údaje pre : vplyv zmeny príkonu na flokuláciu pre koncentráciu kaolínu $c_{k0} = 500$ mg/l a bezrozmernú dávku flokulantu $D_F/c_{k0} = 3,04$ mg/g. (Miešadlo: Rushtonova turbína)

| E | 40 W/m³ | 100 W/m³ | 200 W/m³ | 300 W/m³ | 400 W/m³ |
|----------------------------|---------------------------|----------------------------|----------------------------|----------------------------|----------------------------|
| Meranie | 1 | 2 | 3 | 4 | 5 |
| Objem nádoby [l] | 5,4 | 5,4 | 5,4 | 5,4 | 5,4 |
| Flokulant | Sokoflok 16 | Sokoflok 16 | Sokoflok 16 | Sokoflok 16 | Sokoflok 16 |
| Koncentrácia [ml/l] | 1,52 | 1,52 | 1,52 | 1,52 | 1,52 |
| Koncentrácia [ml] | 8,208 | 8,208 | 8,208 | 8,208 | 8,208 |
| Znečistovacia látka | Kaolín | Kaolín | Kaolín | Kaolín | Kaolín |
| Koncentrácia [mg/l] | 500 | 500 | 500 | 500 | 500 |
| Koncentrácia [ml] | 27 | 27 | 27 | 27 | 27 |

Namerané údaje pre : vplyv zmeny príkonu na flokuláciu pre bezrozmernú dávku flokulantu DF/ck0 = 3,04 mg/g.

| Meranie | 1 | | | | | | | | | |
|---------|------------|-----|------|-----|------|--------------|------|------|-------|------|
| | Flokulácia | | | | | Sedimentácia | | | | |
| | Čas | FNU | Čas | FNU | Čas | FNU | Čas | FNU | Čas | FNU |
| | 0:00 | 515 | 3:00 | 404 | 7:00 | 357 | 7:00 | 357 | 9:45 | 22 |
| | 0:30 | 508 | 3:15 | 399 | | | 7:30 | 349 | 10:00 | 14,3 |
| | 1:00 | 492 | 3:30 | 396 | | | 7:45 | 343 | 10:15 | 10 |
| | 1:15 | 479 | 3:45 | 391 | | | 8:00 | 332 | 10:30 | 8,6 |
| | 1:30 | 465 | 4:00 | 386 | | | 8:15 | 287 | 10:45 | 8,2 |
| | 1:45 | 450 | 4:30 | 376 | | | 8:30 | 152 | 11:00 | 8 |
| | 2:00 | 437 | 5:00 | 372 | | | 8:45 | 90 | 11:30 | 8 |
| | 2:15 | 427 | 5:30 | 367 | | | 9:00 | 69 | 12:00 | 7,8 |
| | 2:30 | 420 | 6:00 | 364 | | | 9:15 | 46 | | |
| | 2:45 | 411 | 6:30 | 358 | | | 9:30 | 33,5 | | |

| Meranie | 2 | | | | | | | | | |
|---------|------------|-----|------|-----|--------------|-----|-------|------|-------|------|
| | Flokulácia | | | | Sedimentácia | | | | | |
| | Čas | FNU | Čas | FNU | Čas | FNU | Čas | FNU | Čas | FNU |
| | 0:00 | 433 | 2:45 | 373 | 6:00 | 350 | 8:30 | 112 | 12:00 | 12 |
| | 0:30 | 431 | 3:00 | 369 | 6:30 | 346 | 8:45 | 88 | 12:30 | 11,2 |
| | 1:00 | 422 | 3:30 | 364 | 6:45 | 344 | 9:00 | 71 | 13:00 | 11,1 |
| | 1:15 | 413 | 4:00 | 359 | 7:00 | 342 | 9:15 | 66 | | |
| | 1:30 | 405 | 4:30 | 357 | 7:15 | 331 | 9:30 | 60 | | |
| | 1:45 | 397 | 5:00 | 355 | 7:30 | 310 | 10:00 | 43 | | |
| | 2:00 | 390 | 5:30 | 352 | 7:45 | 272 | 10:30 | 27,5 | | |
| | 2:15 | 384 | 6:00 | 350 | 8:00 | 208 | 11:00 | 22,2 | | |
| | 2:30 | 379 | | | 8:15 | 153 | 11:30 | 17,7 | | |

Namerané údaje pre : vplyv zmeny príkonu na flokuláciu pre bezrozmernú dávku flokulantu DF/ck0 = 3,04 mg/g.

| Meranie | 3 | | | | | | | | | |
|---------|------------|-----|------|-----|--------------|-----|-------|------|-------|------|
| | Flokulácia | | | | Sedimentácia | | | | | |
| | Čas | FNU | Čas | FNU | Čas | FNU | Čas | FNU | Čas | FNU |
| | 0:00 | 468 | 3:30 | 393 | 6:00 | 385 | 8:45 | 168 | 12:30 | 25,5 |
| | 0:30 | 463 | 4:00 | 390 | 6:30 | 383 | 9:00 | 145 | 13:00 | 22,2 |
| | 1:00 | 451 | 4:30 | 388 | 6:45 | 381 | 9:15 | 125 | 13:30 | 21,2 |
| | 1:15 | 440 | 5:00 | 386 | 7:00 | 378 | 9:30 | 102 | 14:00 | 20,6 |
| | 1:30 | 432 | 5:30 | 385 | 7:15 | 371 | 9:45 | 90 | | |
| | 1:45 | 423 | 6:00 | 385 | 7:30 | 359 | 10:00 | 80 | | |
| | 2:00 | 414 | | | 7:45 | 336 | 10:30 | 62 | | |
| | 2:15 | 410 | | | 8:00 | 290 | 11:00 | 43 | | |
| | 2:30 | 406 | | | 8:15 | 232 | 11:30 | 36,5 | | |
| | 3:00 | 397 | | | 8:30 | 192 | 12:00 | 33,5 | | |

| Meranie | 4 | | | | | | | | | | | |
|---------|------------|-----|------|-----|--------------|-----|-------|-----|-------|-----|-------|------|
| | Flokulácia | | | | Sedimentácia | | | | | | | |
| | Čas | FNU | Čas | FNU | Čas | FNU | Čas | FNU | Čas | FNU | Čas | FNU |
| | 0:00 | 474 | 2:45 | 409 | 6:00 | 396 | 8:30 | 257 | 10:45 | 99 | 13:00 | 49 |
| | 0:30 | 471 | 3:00 | 407 | 6:30 | 394 | 8:45 | 234 | 11:00 | 90 | 13:30 | 38,1 |
| | 1:00 | 459 | 3:30 | 404 | 6:45 | 393 | 9:00 | 216 | 11:15 | 82 | 14:00 | 24,8 |
| | 1:15 | 443 | 4:00 | 401 | 7:00 | 392 | 9:15 | 184 | 11:30 | 74 | 14:30 | 18 |
| | 1:30 | 434 | 4:30 | 399 | 7:15 | 379 | 9:30 | 169 | 11:45 | 65 | 15:00 | 16,6 |
| | 1:45 | 426 | 5:00 | 398 | 7:30 | 360 | 9:45 | 149 | 12:00 | 56 | 15:30 | 16,6 |
| | 2:00 | 421 | 5:30 | 397 | 7:45 | 346 | 10:00 | 126 | 12:15 | 54 | 16:00 | 16,5 |
| | 2:15 | 416 | 6:00 | 396 | 8:00 | 332 | 10:15 | 114 | 12:30 | 52 | | |
| | 2:30 | 412 | | | 8:15 | 310 | 10:30 | 108 | 12:45 | 51 | | |

Namerané údaje pre : vplyv zmeny príkonu na flokuláciu pre bezrozmernú dávku flokulantu DF/ck0 = 3,04 mg/g.

| Meranie | 5 | | | | | | | | | | | |
|---------|------------|-----|------|-----|--------------|-----|-------|-----|-------|-----|-------|-----|
| | Flokulácia | | | | Sedimentácia | | | | | | | |
| | Čas | FNU | Čas | FNU | Čas | FNU | Čas | FNU | Čas | FNU | Čas | FNU |
| | 0:00 | 548 | 4:00 | 464 | 5:00 | 463 | 8:15 | 309 | 11:15 | 117 | 14:15 | 43 |
| | 0:30 | 545 | 4:30 | 464 | 5:30 | 462 | 8:30 | 273 | 11:30 | 105 | 14:30 | 41 |
| | 1:00 | 527 | 5:00 | 463 | 5:45 | 462 | 8:45 | 257 | 11:45 | 102 | 14:45 | 41 |
| | 1:15 | 495 | | | 6:00 | 461 | 9:00 | 236 | 12:00 | 97 | 15:00 | 41 |
| | 1:30 | 484 | | | 6:15 | 460 | 9:15 | 211 | 12:15 | 76 | | |
| | 1:45 | 477 | | | 6:30 | 454 | 9:30 | 195 | 12:30 | 63 | | |
| | 2:00 | 473 | | | 6:45 | 447 | 9:45 | 179 | 12:45 | 59 | | |
| | 2:15 | 470 | | | 7:00 | 434 | 10:00 | 162 | 13:00 | 49 | | |
| | 2:30 | 469 | | | 7:15 | 410 | 10:15 | 152 | 13:15 | 46 | | |
| | 2:45 | 468 | | | 7:30 | 379 | 10:30 | 147 | 13:30 | 44 | | |
| | 3:00 | 467 | | | 7:45 | 371 | 10:45 | 136 | 13:45 | 43 | | |
| | 3:30 | 465 | | | 8:00 | 354 | 11:00 | 127 | 14:00 | 43 | | |

Príloha č. 7 - Namerané údaje pre : vplyv zmeny merného príkonu na flokuláciu pre koncentráciu kaolínu $c_{k0} = 500 \text{ mg/l}$ a bezrozmernú dávku flokulantu $D_F/c_{k0} = 0,26 \text{ mg/g}$. (Miešadlo: šesťlopatkové miešadlo so šikmými lopatkami)

| E | 40 W/m ³ | 100 W/m ³ | 200 W/m ³ |
|----------------------------|---------------------|----------------------|----------------------|
| Meranie | 1 | 2 | 3 |
| Objem nádoby [l] | 5,4 | 5,4 | 5,4 |
| Flokulant | Sokoflok 16 | Sokoflok 16 | Sokoflok 16 |
| Koncentrácia [ml/l] | 0,13 | 0,13 | 0,13 |
| Koncentrácia [ml] | 0,702 | 0,702 | 0,702 |
| Znečistovacia látka | Kaolín | Kaolín | Kaolín |
| Koncentrácia [mg/l] | 500 | 500 | 500 |
| Koncentrácia [ml] | 27 | 27 | 27 |

Namerané údaje pre : vplyv zmeny merného príkonu na flokuláciu pre bezrozmernú dávku flokulantu $D_F/c_{k0} = 0,26 \text{ mg/g}$.

| Meranie | 1 | | | | | | | | | | | |
|---------|------------|-----|------|-----|--------------|-----|------|-----|-------|------|-------|------|
| | Flokulácia | | | | Sedimentácia | | | | | | | |
| | Čas | FNU | Čas | FNU | Čas | FNU | Čas | FNU | Čas | FNU | Čas | FNU |
| | 0:00 | 540 | 2:45 | 435 | 4:00 | 425 | 6:30 | 144 | 9:00 | 37,8 | 11:30 | 27,3 |
| | 0:30 | 532 | 3:00 | 431 | 4:15 | 425 | 6:45 | 132 | 9:15 | 35,6 | 11:45 | 26,2 |
| | 0:45 | 529 | 3:15 | 428 | 4:30 | 425 | 7:00 | 117 | 9:30 | 34,4 | 12:00 | 26 |
| | 1:00 | 521 | 3:30 | 426 | 4:45 | 424 | 7:15 | 99 | 9:45 | 32,9 | | |
| | 1:15 | 506 | 3:45 | 426 | 5:00 | 421 | 7:30 | 87 | 10:00 | 32,6 | | |
| | 1:30 | 479 | 4:00 | 425 | 5:15 | 410 | 7:45 | 78 | 10:15 | 32 | | |
| | 1:45 | 463 | | | 5:30 | 373 | 8:00 | 71 | 10:30 | 31,2 | | |
| | 2:00 | 451 | | | 5:45 | 294 | 8:15 | 60 | 10:45 | 29,8 | | |
| | 2:15 | 446 | | | 6:00 | 230 | 8:30 | 51 | 11:00 | 29,6 | | |
| | 2:30 | 440 | | | 6:15 | 173 | 8:45 | 41 | 11:15 | 28,6 | | |

| Meranie | 2 | | | | | | | | | | | |
|---------|------------|-----|------|-----|--------------|-----|------|-----|-------|------|-------|------|
| | Flokulácia | | | | Sedimentácia | | | | | | | |
| | Čas | FNU | Čas | FNU | Čas | FNU | Čas | FNU | Čas | FNU | Čas | FNU |
| | 0:00 | 532 | 2:30 | 449 | 4:00 | 447 | 6:15 | 259 | 8:30 | 85 | 10:45 | 29,3 |
| | 0:30 | 528 | 2:45 | 448 | 4:15 | 447 | 6:30 | 221 | 8:45 | 77 | 11:00 | 29,1 |
| | 0:45 | 524 | 3:00 | 447 | 4:30 | 447 | 6:45 | 177 | 9:00 | 67 | | |
| | 1:00 | 518 | 3:15 | 447 | 4:45 | 445 | 7:00 | 163 | 9:15 | 48 | | |
| | 1:15 | 481 | 3:30 | 447 | 5:00 | 438 | 7:15 | 139 | 9:30 | 45 | | |
| | 1:30 | 471 | 3:45 | 447 | 5:15 | 427 | 7:30 | 116 | 9:45 | 42 | | |
| | 1:45 | 461 | 4:00 | 447 | 5:30 | 400 | 7:45 | 112 | 10:00 | 38,4 | | |
| | 2:00 | 452 | | | 5:45 | 354 | 8:00 | 102 | 10:15 | 33,8 | | |
| | 2:15 | 450 | | | 6:00 | 302 | 8:15 | 93 | 10:30 | 30,2 | | |

Namerané údaje pre : vplyv zmeny merného príkonu na flokuláciu pre bezrozmernú dávku flokulantu $D_F/c_{k0} = 0,26 \text{ mg/g}$.

| Meranie | 3 | | | | | | | | | | | |
|---------|------------|-----|------|-----|--------------|-----|------|-----|-------|------|-------|------|
| | Flokulácia | | | | Sedimentácia | | | | | | | |
| | Čas | FNU | Čas | FNU | Čas | FNU | Čas | FNU | Čas | FNU | Čas | FNU |
| | 0:00 | 540 | 3:15 | 460 | 4:00 | 460 | 7:00 | 258 | 10:00 | 99 | 13:00 | 33,9 |
| | 0:30 | 532 | 3:30 | 460 | 4:15 | 459 | 7:15 | 228 | 10:15 | 95 | | |
| | 0:45 | 521 | 3:45 | 460 | 4:30 | 458 | 7:30 | 212 | 10:30 | 90 | | |
| | 1:00 | 505 | 4:00 | 460 | 4:45 | 456 | 7:45 | 187 | 10:45 | 82 | | |
| | 1:15 | 485 | | | 5:00 | 453 | 8:00 | 172 | 11:00 | 72 | | |
| | 1:30 | 471 | | | 5:15 | 446 | 8:15 | 163 | 11:15 | 61 | | |
| | 1:45 | 465 | | | 5:30 | 432 | 8:30 | 148 | 11:30 | 46 | | |
| | 2:00 | 463 | | | 5:45 | 417 | 8:45 | 137 | 11:45 | 34,4 | | |
| | 2:15 | 462 | | | 6:00 | 395 | 9:00 | 127 | 12:00 | 34 | | |
| | 2:30 | 462 | | | 6:15 | 364 | 9:15 | 119 | 12:15 | 32,6 | | |
| | 2:45 | 461 | | | 6:30 | 330 | 9:30 | 113 | 12:30 | 32,6 | | |
| | 3:00 | 461 | | | 6:45 | 299 | 9:45 | 105 | 12:45 | 33,3 | | |

Príloha č. 8 - Namerané údaje pre : vplyv zmeny merného príkonu na flokuláciu pre koncentráciu kaolínu $c_{k0} = 500 \text{ mg/l}$ a bezrozmernú dávku flokulantu $D_F/c_{k0} = 1,04 \text{ mg/g}$. (Miešadlo: šesťlopatkové miešadlo so šikmými lopatkami)

| E | 40 W/m³ | 100 W/m³ | 200 W/m³ |
|----------------------------|---------------------------|----------------------------|----------------------------|
| Meranie | 1 | 2 | 3 |
| Objem nádoby [l] | 5,4 | 5,4 | 5,4 |
| Flokulant | Sokoflok 16 | Sokoflok 16 | Sokoflok 16 |
| Koncentrácia [ml/l] | 0,52 | 0,52 | 0,52 |
| Koncentrácia [ml] | 2,808 | 2,808 | 2,808 |
| Znečistovacia látka | Kaolín | Kaolín | Kaolín |
| Koncentrácia [mg/l] | 500 | 500 | 500 |
| Koncentrácia [ml] | 27 | 27 | 27 |

Namerané údaje pre : vplyv zmeny merného príkonu na flokuláciu pre bezrozmernú dávku flokulantu $D_F/c_{k0} = 1,04 \text{ mg/g}$.

| Meranie | 1 | | | | | | | | | |
|---------|------------|-----|------|-----|--------------|-----|-------|------|-------|------|
| | Flokulácia | | | | Sedimentácia | | | | | |
| | Čas | FNU | Čas | FNU | Čas | FNU | Čas | FNU | Čas | FNU |
| | 0:00 | 533 | 2:45 | 413 | 5:00 | 391 | 7:45 | 47 | 10:15 | 12,2 |
| | 0:30 | 527 | 3:00 | 407 | 5:30 | 387 | 8:00 | 41 | 10:30 | 11,3 |
| | 0:45 | 523 | 3:15 | 404 | 5:45 | 385 | 8:15 | 37,2 | 10:45 | 10,8 |
| | 1:00 | 516 | 3:30 | 401 | 6:00 | 376 | 8:30 | 34,6 | 11:00 | 10,8 |
| | 1:15 | 494 | 3:45 | 397 | 6:15 | 333 | 8:45 | 27,2 | | |
| | 1:30 | 469 | 4:00 | 393 | 6:30 | 268 | 9:00 | 22,3 | | |
| | 1:45 | 449 | 4:15 | 391 | 6:45 | 178 | 9:15 | 17,8 | | |
| | 2:00 | 436 | 4:30 | 391 | 7:00 | 117 | 9:30 | 15,5 | | |
| | 2:15 | 426 | 4:45 | 391 | 7:15 | 70 | 9:45 | 13,3 | | |
| | 2:30 | 419 | 5:00 | 391 | 7:30 | 56 | 10:00 | 12,8 | | |

| Meranie | 2 | | | | | | | | | |
|---------|------------|-----|------|-----|--------------|-----|------|-----|-------|------|
| | Flokulácia | | | | Sedimentácia | | | | | |
| | Čas | FNU | Čas | FNU | Čas | FNU | Čas | FNU | Čas | FNU |
| | 0:00 | 537 | 2:30 | 433 | 4:00 | 424 | 6:15 | 159 | 8:30 | 33,6 |
| | 0:30 | 532 | 2:45 | 431 | 4:15 | 423 | 6:30 | 137 | 8:45 | 27,8 |
| | 0:45 | 524 | 3:00 | 427 | 4:30 | 422 | 6:45 | 111 | 9:00 | 26,1 |
| | 1:00 | 515 | 3:15 | 425 | 4:45 | 420 | 7:00 | 91 | 9:15 | 18,3 |
| | 1:15 | 491 | 3:30 | 425 | 5:00 | 411 | 7:15 | 78 | 9:30 | 15,2 |
| | 1:30 | 464 | 3:45 | 424 | 5:15 | 384 | 7:30 | 59 | 9:45 | 14,5 |
| | 1:45 | 450 | 4:00 | 424 | 5:30 | 336 | 7:45 | 52 | 10:00 | 14,4 |
| | 2:00 | 444 | | | 5:45 | 259 | 8:00 | 48 | | |
| | 2:15 | 437 | | | 6:00 | 195 | 8:15 | 42 | | |

Namerané údaje pre : vplyv zmeny merného príkonu na flokuláciu pre bezrozmernú dávku flokulantu $D_F/c_{k0} = 1,04 \text{ mg/g}$.

| Meranie | 3 | | | | | | | | | | | |
|---------|------------|-----|------|-----|--------------|-----|------|-----|-------|------|-------|------|
| | Flokulácia | | | | Sedimentácia | | | | | | | |
| | Čas | FNU | Čas | FNU | Čas | FNU | Čas | FNU | Čas | FNU | Čas | FNU |
| | 0:00 | 539 | 3:15 | 447 | 4:00 | 447 | 7:00 | 158 | 10:00 | 52 | 13:00 | 18,6 |
| | 0:30 | 532 | 3:30 | 447 | 4:15 | 447 | 7:15 | 142 | 10:15 | 50 | 13:15 | 18,1 |
| | 0:45 | 523 | 3:45 | 447 | 4:30 | 447 | 7:30 | 129 | 10:30 | 42 | 13:30 | 17,9 |
| | 1:00 | 514 | 4:00 | 447 | 4:45 | 447 | 7:45 | 116 | 10:45 | 31,6 | 13:45 | 17,6 |
| | 1:15 | 492 | | | 5:00 | 445 | 8:00 | 105 | 11:00 | 29,5 | 14:00 | 17,6 |
| | 1:30 | 469 | | | 5:15 | 443 | 8:15 | 93 | 11:15 | 28,4 | | |
| | 1:45 | 459 | | | 5:30 | 426 | 8:30 | 83 | 11:30 | 27,3 | | |
| | 2:00 | 455 | | | 5:45 | 380 | 8:45 | 76 | 11:45 | 26 | | |
| | 2:15 | 453 | | | 6:00 | 308 | 9:00 | 64 | 12:00 | 24,3 | | |
| | 2:30 | 451 | | | 6:15 | 274 | 9:15 | 59 | 12:15 | 23 | | |
| | 2:45 | 449 | | | 6:30 | 244 | 9:30 | 55 | 12:30 | 21,8 | | |
| | 3:00 | 448 | | | 6:45 | 197 | 9:45 | 53 | 12:45 | 19,8 | | |

Príloha č. 9 - Namerané údaje pre : vplyv zmeny merného príkonu na flokuláciu pre koncentráciu kaolínu $c_{k0} = 500 \text{ mg/l}$ a bezrozmernú dávku flokulantu $D_F/c_{k0} = 3,04 \text{ mg/g}$. (Miešadlo: šesťlopatkové miešadlo so šikmými lopatkami)

| E | 40 W/m³ | 100 W/m³ | 200 W/m³ |
|----------------------------|---------------------------|----------------------------|----------------------------|
| Meranie | 1 | 2 | 3 |
| Objem nádoby [l] | 5,4 | 5,4 | 5,4 |
| Flokulant | Sokoflok 16 | Sokoflok 16 | Sokoflok 16 |
| Koncentrácia [ml/l] | 1,52 | 1,52 | 1,52 |
| Koncentrácia [ml] | 8,208 | 8,208 | 8,208 |
| Znečistovacia látka | Kaolín | Kaolín | Kaolín |
| Koncentrácia [mg/l] | 500 | 500 | 500 |
| Koncentrácia [ml] | 27 | 27 | 27 |

Namerané údaje pre : vplyv zmeny merného príkonu na flokuláciu pre bezrozmernú dávku flokulantu $D_F/c_{k0} = 3,04 \text{ mg/g}$.

| Meranie | 1 | | | | | | | | | |
|---------|------------|-----|------|-----|--------------|------|-------|------|-------|-----|
| | Flokulácia | | | | Sedimentácia | | | | | |
| | Čas | FNU | Čas | FNU | Čas | FNU | Čas | FNU | Čas | FNU |
| | 0:00 | 536 | 2:45 | 408 | 5:00 | 362 | 7:45 | 22,5 | 10:15 | 7,5 |
| | 0:30 | 531 | 3:00 | 398 | 5:30 | 354 | 8:00 | 15,4 | 10:30 | 7,3 |
| | 0:45 | 524 | 3:15 | 386 | 5:45 | 344 | 8:15 | 12,9 | 10:45 | 7,1 |
| | 1:00 | 510 | 3:30 | 381 | 6:00 | 329 | 8:30 | 11 | 11:00 | 6,9 |
| | 1:15 | 491 | 3:45 | 372 | 6:15 | 238 | 8:45 | 9,9 | 11:15 | 6,9 |
| | 1:30 | 476 | 4:00 | 369 | 6:30 | 173 | 9:00 | 9,2 | 11:30 | 7 |
| | 1:45 | 454 | 4:15 | 365 | 6:45 | 98 | 9:15 | 8,9 | 11:45 | 6,9 |
| | 2:00 | 442 | 4:30 | 363 | 7:00 | 68 | 9:30 | 8,5 | 12:00 | 6,9 |
| | 2:15 | 430 | 4:45 | 362 | 7:15 | 43 | 9:45 | 8,1 | | |
| | 2:30 | 420 | 5:00 | 362 | 7:30 | 32,6 | 10:00 | 7,8 | | |

| Meranie | 2 | | | | | | | | | | | |
|---------|------------|-----|------|-----|--------------|-----|------|-----|------|------|-------|------|
| | Flokulácia | | | | Sedimentácia | | | | | | | |
| | Čas | FNU | Čas | FNU | Čas | FNU | Čas | FNU | Čas | FNU | | |
| | 0:00 | 538 | 2:30 | 426 | 4:45 | 405 | 5:00 | 405 | 7:15 | 92 | 9:30 | 14 |
| | 0:30 | 531 | 2:45 | 421 | 5:00 | 405 | 5:15 | 402 | 7:30 | 72 | 9:45 | 10,2 |
| | 0:45 | 525 | 3:00 | 416 | | | 5:30 | 398 | 7:45 | 59 | 10:00 | 9,4 |
| | 1:00 | 513 | 3:15 | 413 | | | 5:45 | 394 | 8:00 | 46 | 10:15 | 9,1 |
| | 1:15 | 489 | 3:30 | 410 | | | 6:00 | 385 | 8:15 | 35 | 10:30 | 8,5 |
| | 1:30 | 477 | 3:45 | 410 | | | 6:15 | 344 | 8:30 | 30,3 | 10:45 | 8,5 |
| | 1:45 | 460 | 4:00 | 407 | | | 6:30 | 297 | 8:45 | 25,5 | 11:00 | 8,6 |
| | 2:00 | 446 | 4:15 | 406 | | | 6:45 | 200 | 9:00 | 20,8 | | |
| | 2:15 | 434 | 4:30 | 405 | | | 7:00 | 132 | 9:15 | 18,4 | | |

Namerané údaje pre : vplyv zmeny merného príkonu na flokuláciu pre bezrozmernú dávku flokulantu $D_F/c_{k0} = 3,04 \text{ mg/g}$.

| Meranie | 3 | | | | | | | | | |
|---------|------------|-----|------|-----|--------------|-----|-------|------|-------|------|
| | Flokulácia | | | | Sedimentácia | | | | | |
| | Čas | FNU | Čas | FNU | Čas | FNU | Čas | FNU | Čas | FNU |
| | 0:00 | 548 | 3:00 | 443 | 5:00 | 435 | 8:00 | 127 | 11:00 | 21,1 |
| | 0:15 | 540 | 3:15 | 441 | 5:15 | 435 | 8:15 | 105 | 11:15 | 20,2 |
| | 0:30 | 535 | 3:30 | 440 | 5:30 | 435 | 8:30 | 93 | 11:30 | 20 |
| | 0:45 | 528 | 3:45 | 439 | 5:45 | 434 | 8:45 | 82 | 11:45 | 20,1 |
| | 1:00 | 515 | 4:00 | 437 | 6:00 | 432 | 9:00 | 73 | 12:00 | 20,3 |
| | 1:15 | 502 | 4:15 | 436 | 6:15 | 427 | 9:15 | 70 | | |
| | 1:30 | 484 | 4:30 | 435 | 6:30 | 416 | 9:30 | 62 | | |
| | 1:45 | 470 | 4:45 | 435 | 6:45 | 376 | 9:45 | 51 | | |
| | 2:00 | 461 | 5:00 | 435 | 7:00 | 272 | 10:00 | 43 | | |
| | 2:15 | 452 | | | 7:15 | 225 | 10:15 | 38 | | |
| | 2:30 | 449 | | | 7:30 | 199 | 10:30 | 32 | | |
| | 2:45 | 447 | | | 7:45 | 169 | 10:45 | 23,5 | | |