

APPENDIX 4

Luminescence dates (OSL) for the Volochysk samples – Lublin laboratory (2014)

Sample	No. lab. Lub-	⁴⁰ K [Bq/kg]	²²⁶ Ra [Bq/kg]	²²⁸ Th [Bq/kg]	Dose rate d_r [Gy/ka]	Equivalent dose OSL d_e [Gy]	OSL age [ky]
W-1	6108	454 ± 7	32.9 ± 2.0	36.5 ± 0.8	2.87 ± 0.17	45.58 ± 1.15	15.9 ± 1.0
W-2	6109	446 ± 9	26.8 ± 1.9	38.8 ± 1.1	2.70 ± 0.23	50.44 ± 1.24	18.7 ± 1.7
W-3	6110	491 ± 6	32.9 ± 1.5	38.0 ± 0.8	3.00 ± 0.13	51.81 ± 1.33	17.3 ± 0.9
W-5	6111	517 ± 7	27.0 ± 1.8	42. ± 0.(9)	3.03 ± 0.17	57.69 ± 1.40	19.0 ± 2.1
W-6	6112	495 ± 5	30.1 ± 1.5	43.3 ± 0.7	3.04 ± 0.13	104.62 ± 2.88	41.3 ± 2.1
W-7	6113	499 ± 8	26.6 ± 2.1	45.8 ± 0.9	3.00 ± 0.18	110.61 ± 2.96	44.2 ± 2.9
W-8	6114	470 ± 6	30.0 ± 1.4	42.8 ± 0.7	2.94 ± 0.12	158.56 ± 3.83	53.9 ± 2.7
W-9	6115	463 ± 6	31.1 ± 1.7	42.3 ± 0.8	2.93 ± 0.14	169.55 ± 5.40	57.9 ± 3.3
W-10	6116	463 ± 5	28.3 ± 1.4	42.1 ± 0.7	2.86 ± 0.12	188.26 ± 6.07	65.8 ± 3.5
W-11	6117	502 ± 6	27.4 ± 1.8	44.1 ± 0.8	2.99 ± 0.16	244.43 ± 7.34	81.7 ± 5.0
W-12	6118	377 ± 6	25.7 ± 1.5	32.0 ± 0.8	2.35 ± 0.14	216.99 ± 6.57	92.3 ± 6.2
W-13	6119	421 ± 7	25.8 ± 1.4	38.9 ± 0.9	2.60 ± 0.16	222.79 ± 6.87	85.7 ± 6.4
W-14	6120	394 ± 6	29.8 ± 1.5	34.3 ± 0.7	2.52 ± 0.12	214.14 ± 10.48	85.0 ± 5.0
W-15	6121	458 ± 7	30.2 ± 1.2	37.0 ± 0.8	2.81 ± 0.12	55.01 ± 1.36	19.6 ± 1.0
W-16	6122	478 ± 6	30.0 ± 1.4	35.8 ± 0.8	2.83 ± 0.13	43.70 ± 0.89	15.4 ± 0.8
W-17	6123	500 ± 7	28.8 ± 1.4	40.4 ± 0.9	2.95 ± 0.14	42.77 ± 1.03	17.4 ± 0.9
W-18	6124	465 ± 7	29.7 ± 1.4	39.8 ± 0.8	2.84 ± 0.13	38.20 ± 1.04	16.1 ± 0.9