

APPENDIX 2

Geochemical composition of the Silurian greywackes of Holy Cross Mountains

		Łysogóry Region Greywackes (LRG)												Kielce Region Greywackes (KRG)																								
Dębnik W	Dębnik	Dębnik E	Ciekły S	Wilków	Kajeanów	Jeleniów	Ciekły N	Sewis	Dęno	Łeżyce	Trochowiny S	Trochowiny N		Kierdny	Gustak	Zalesie	Zbylitka	Kędziorka	Sadków	Widełki	Piskrzyn	Niestachów 1	Niestachów 2	Niestachów 3	Mójca	Miedzygórz	Gołębiów	Niewachów	Gruchawka 1	Gruchawka 2	Bardo sandstone	Stawy bentonite	PAAS	UCC				
41	42	43	44	45	46	47	48	49	50	51	52	53	av.	SD	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	av.	SD	BS	SB				
Major element [wt.-%]																																						
SiO ₂	83.15	77.66	85.33	77.87	76.21	70.06	83.68	84.09	75.88	75.80	74.62	68.27	67.95	76.97	5.91	74.92	74.47	71.35	73.80	71.63	66.66	74.59	71.49	87.57	72.33	71.07	82.83	64.84	77.24	74.13	75.68	76.25	74.17	6.06	89.35	57.51	62.80	66.00
Al ₂ O ₃	7.07	9.93	6.52	9.76	10.58	13.49	7.32	6.49	11.18	10.53	9.87	13.53	14.16	10.03	2.65	11.81	12.91	13.72	12.75	13.27	15.67	13.25	14.13	6.43	13.82	13.93	7.62	16.48	9.93	11.35	10.12	9.81	12.18	3.05	3.57	29.36	18.90	15.20
Fe ₂ O ₃	5.85	8.54	5.07	8.09	8.97	11.59	6.19	7.29	8.25	9.21	11.08	12.82	12.59	8.89	2.52	5.96	4.08	5.23	4.53	5.99	6.88	3.83	5.49	2.97	5.08	8.05	5.38	7.89	7.39	9.16	9.83	9.71	6.32	2.18	2.39	2.91	5.65	5.00
MgO	1.18	1.47	0.91	1.34	1.17	1.53	0.97	0.87	1.06	1.35	1.92	1.92	1.83	1.35	0.37	1.30	1.62	2.19	1.96	2.43	2.93	1.41	1.74	0.62	1.90	1.33	0.97	2.42	1.56	1.65	1.12	1.69	0.64	0.45	2.08	2.20	2.20	
CaO	0.40	0.28	0.11	0.31	0.18	0.17	0.34	0.14	0.55	0.55	0.29	0.43	0.28	0.31	0.14	0.53	0.72	0.54	0.41	0.49	0.93	0.32	0.65	0.23	0.53	0.30	0.32	0.89	0.34	0.28	0.24	0.39	0.48	0.24	1.47	0.87	1.30	4.20
Na ₂ O	0.90	0.65	0.97	1.28	1.44	0.97	0.09	0.05	1.21	1.16	1.02	1.09	1.07	0.92	0.42	2.14	2.64	3.58	3.14	2.97	3.86	4.32	3.68	0.36	1.74	2.50	1.15	5.10	1.67	1.19	0.75	0.39	2.42	1.58	0.17	0.28	1.20	3.90
K ₂ O	0.53	0.84	0.54	0.69	0.73	1.32	0.73	0.57	1.12	0.62	0.49	1.14	1.30	0.82	0.30	2.41	2.77	2.50	2.69	2.30	2.23	1.58	1.85	1.37	3.71	1.93	0.85	1.06	1.00	1.28	0.97	1.62	1.89	0.78	1.14	6.40	3.70	3.40
TiO ₂	0.72	0.47	0.43	0.50	0.56	0.68	0.52	0.38	0.55	0.63	0.51	0.63	0.66	0.56	0.10	0.76	0.60	0.66	0.50	0.66	0.54	0.70	0.37	0.62	0.70	0.60	0.70	0.63	0.76	0.63	0.55	0.63	0.10	0.38	0.51	1.00	0.50	
P ₂ O ₅	0.18	0.13	0.08	0.13	0.15	0.13	0.08	0.14	0.11	0.12	0.08	0.10	0.12	0.03	0.15	0.16	0.12	0.17	0.13	0.10	0.22	0.08	0.14	0.13	0.19	0.18	0.14	0.09	0.13	0.14	0.04	1.07	0.08	0.16	—			
MnO	0.02	0.02	0.02	0.02	0.04	0.04	0.02	0.03	0.06	0.04	0.12	0.09	0.06	0.04	0.02	0.02	0.04	0.07	0.09	0.09	0.04	0.06	0.05	0.01	0.14	0.06	0.15	0.43	0.06	0.06	0.04	0.03	0.09	0.11	0.01	0.11	0.08	
LOI	3.30	5.10	3.20	4.60	4.00	5.80	4.10	3.60	5.50	5.70	0.12	4.10	5.50	4.47	0.95	4.30	3.30	3.20	3.50	3.90	6.30	2.80	4.30	2.50	4.70	5.10	4.90	5.90	3.00	3.60	2.90	4.90	4.06	1.11	1.50	9.20	—	—
Trace element [ppm]																																						
Sc	11.0	7.0	8.0	7.0	9.0	11.0	9.0	5.0	8.0	10.0	6.0	10.0	11.0	8.6	2.0	15.0	10.0	12.0	10.0	13.0	15.0	9.0	11.0	10.0	10.0	9.0	11.0	10.0	11.0	7.0	10.5	2.5	6.5	17.0	16.0	11.0		
Cr	154.1	46.9	33.5	53.6	40.2	67.0	107.2	26.8	67.0	26.8	40.2	46.9	46.9	58.2	35.8	107.2	73.7	134.0	87.1	73.7	120.6	13.4	87.1	100.5	60.3	107.2	87.1	73.7	93.8	73.7	87.1	28.5	40.2	6.0	110.0	35.0		
Co	10.0	10.1	5.5	17.5	16.5	14.9	11.5	11.3	16.5	13.3	26.7	15.8	22.7	14.8	5.6	6.0	9.6	13.8	14.2	6.1	15.6	13.9	2.4	15.5	8.8	11.1	15.7	11.4	10.6	17.6	20.0	12.3	4.8	10.3	5.3	23.0	10.0	
Ni	39.9	74.0	30.6	63.5	44.6	57.4	51.9	66.3	46.3	61.0	56.1	59.2	56.9	54.4	11.7	39.3	35.5	47.6	29.4	40.2	73.4	42.2	49.5	36.5	30.3	43.8	35.8	55.1	39.3	47.9	50.7	37.4	43.2	11.1	25.6	9.2	55.0	20.0
V	70.0	59.0	51.0	56.0	56.0	93.0	71.0	45.0	67.0	68.0	40.0	80.0	80.0	66.2	13.2	87.0	88.																					