

Appendix A. The mean TC and TD values of the rock and sediment samples from the boreholes, two tunnels and many surface locations, together with determined heat generation on several samples.

TC: Thermal conductivity, λ ; TD: Thermal diffusivity, a ; Heat generation (heat production rate), H ; s.d.: standard deviation

TVD: true vertical depth of the cored rock samples from the boreholes: measured from the surface. - In the boreholes inside the mines: TVD from the surface above the mine. - In the tunnels: TVD from the surface above the tunnel. - *Karavanke highway tunnel: 1143 m is the altitude of the surface above the middle point of the Slovenian section of the tunnel; the underlined numbers indicate distance from the south entrance to the west tube of this tunnel.

- TVD: 0 m: surface sample.

- Rock state:

Saturated: as recovered, with natural humidity kept inside the rock (such rocks have been preserved and measured in close to their natural saturation state). – Semi-dry (partly wet): some wetness on the surface of the sample and a little bit moist inside the sample. – Dry: mostly naturally dry. – Sat-t: technically almost completely water saturated before the measurement.

Data Base No.	Borehole name	Locality	Lat. WGS84	Lon. WGS84	Altit. z	TVD	Rock or sediment type	Chrono-stratigraphy	TC λ	TC s.d.	Rock state	TC year of meas.	TC meas. device	TD α	Rock density ρ	Radiog Heat Prod. H	H year of det.				
					m	m			W/(m·K)	W/m·K				mm ² /s	g/cm ³	μ W/m ³					
1	SG-1/54	Hrasnje Mota	46,6021	16,0735	212	120	marly clay & sand	Upper Pontian	1,60	0,09	Semi-dry	1984	MTP-1								
						220	clay & sand		1,40	0,07	Semi-dry										
4	BS-2/76	Benedikt	46,6101	15,8801	243	155	marlstone	Sarmatian	3,00	0,25	Dry	1983	MTP-1								
						230	sandy, silty marl	Badenian	1,59	0,1	Dry										
						405	sandy, silty marl	Lower Badenian	1,90	0,39	Dry										
						420	sandy marl		1,59	0,10	Dry										
						465	sandstone		2,77	0,15	Dry										
						772	amphibolitic green schist		2,56	0,11	Semi-dry	1986	MTP-1, MTP-4								
781	mica schist tuff	2,77	0,03	Semi-dry																	
5	Pg-6/81	Petišovci	46,5316	16,4572	159	2983	sandstone	Badenian	2,34	0,51	Dry	1987	MTP-4								
						3144	siltstone-sandstone with mica	Lower Badenian	3,01	0,17	Dry			2020	TCS						
						45	silty sandstone		2,01	0,17	Saturated										
						112	siltstone		3,13	0,07	Saturated										
						151	clayey siltstone	Miocene	1,93	0,14	Saturated										
						202	calcitic, clayey siltstone		2,14	0,17	Saturated										
						239	calcitic marl	Upper Cretaceous	2,44	0,02	Saturated	1982	MTP-1								
						299	dolomite		4,09	0,59	Saturated										
						344	dolomite	Middle Triassic	3,47	0,21	Saturated										
						401	dolomite		4,41	0,54	Saturated										
502	phyllite-chloritic schist	Silurian-Devonian	2,14	0,16	Semi-dry																
7	R-1/82	Motel Rižana	45,5286	13,8840	69	87	marl	Middle Eocene	2,10	0,18	Sat./fissur.	1986	MTP-1, MTP-4								
						205	limestone	Paleocene	2,56	0,08	Saturated										
						806	clay	Pontian	1,90	0,09	Semi-dry										
						848	sand, sandy marl		1,64	0,38	Saturated										
8	Mt-6/83	Moravske Toplice	46,6828	16,2221	187	874	clayey silt		1,86	0,27	Semi-dry	1983	MTP-1								
						879	sand	Pontian	2,96	0,15	Saturated										
						893	sand		1,5	0,06	Semi-dry										
						900	sandy marl, marly clay		2,07	0,21	Saturated										
						981	sandy clay		2,25	0,21	Saturated										

10	V-38/84	Kanižarica	45,5495	15,1739	172	marl	Pliocene	111	marl	1,42	0,08	Saturated		2,15	0,56	1987	
								124	marl					2,15	0,44		
12	B-2/85	Zreče	46,3650	15,3983	374	dolomitic breccia with claystone	Miocene	149	clay, carbonate particles	1,50	0,04	Saturated	MTP-4, MTP-1	1986	2,599	0,95	1985
								152	silty marl	1,29	0,09	Saturated					
								155	clay & some coal	3,01	0,08	Semi-dry					
								160	silty marl	3,17	0,08	Semi-dry					
								325	limestone	1,99	0,25	Semi-dry					
								325	limestone	2,22	0,26	Dry					
								400	dolomitic breccia with claystone	4,14	0,17	Dry					
								500	polimicritic conglomerate	3,35	0,28	Dry					
13	ŠT-1/85	Štatenberg	46,3232	15,6746	250	marl	Upper Miocene	500	sandstone with conglomerate	3,37	0,29	Dry	MTP-1	2,620	0,99	1985	
								556	dolomite, milonitized	3,56	0,37	Dry					
14	V-7/85	Topličnik near Kostanjevica	45,8549	15,4130	152	marl or clayey marl	Upper Miocene	800	dolomite, milonitized	4,70	0,06	Dry	MTP-1, MTP-4	2,833	0,26	1985	
								5	marl	4,57	0,03	Dry					
15	L-1/86	Mostec near Čatež	45,8990	15,6268	143	siltstone (aleurolite)	Middle Miocene	98	siltstone (aleurolite)	1,79	0,04	Semi-dry	MTP-4	1986	2,10	1,53	1985
								52	marl or clayey marl	2,01	0,08	Semi-dry					
								100	marl or clayey marl	1,55	0,13	Semi-dry					
								102	marl or clayey marl	1,23	0,05	Semi-dry					
								200	marl	1,43	0,29	Saturated					
								262	sandy marl	1,73	0,30	Saturated					
								462	dolomite	1,82	0,34	Semi-dry					
								599	dolomite	4,77	0,93	Semi-dry					
								700	dolomite	4,27	1,34	Semi-dry					
								101	marly clay (soft)	4,24	0,90	Semi-dry					
16	SI-1/86	Sajeve near Kostanjevica	45,8660	15,4277	153	marly clay (soft)	Miocene	101	marly clay (soft)	1,68	0,13	Saturated	MTP-1, MTP-4	1986	2,732	0,82	1987
								205	clayey marl (soft)	1,45	0,10	Saturated					
								305	clayey marl	1,34	0,05	Semi-dry					
								406	marl (clayey?)	1,50	0,08	Semi-dry					
								501	carbonatic sandstone	1,77	0,14	Semi-dry					
								592	carbonatic sandstone	2,30	0,09	Semi-dry					
								636	limestone	2,78	0,07	Dry					
								688	limestone	2,95	0,12	Semi-dry					
799	limestone	2,99	0,18	Semi-dry													

17	CE-1/86	Levec near Celje	46,2417	15,2231	243	99	clay, some sand & pebbles	Oligocene	1,31	0,07	Saturated	1986	MTP-1, MTP-4			
18	V-8/86	Malence near Kostanjevica	45,8667	15,3992	152	1	clay with some sand	Quaternary	1,70	0,10	Saturated	2003	TCS			
19	BR-1/86	Brdo near Kranj	46,2902	14,4003	464	60	clay	Miocene	1,50	0,04	Semi-dry	1986	MTP-4			
20	K-2A/86	Spodnja Kostrievnica	46,2482	15,5898	247	502	tuff with sandy marl	Oligocene	2,28	0,10	Saturated	1986	MTP-4			
			46,0276	14,4322	308	534	andesitic tuff	Oligocene	1,88	0,22	Semi-dry	1987	MTP-4, MTP-1	2,610	n.d.	1987
24	BZ-2/87	Brezovica	46,0276	14,4322	308	0	quartz sandstone	Permian-Carboniferous	3,84	0,25	Dry	1987	MTP-1, MTP-4			
26	PR-2/87	Prelesje near Soča river	46,0279	13,5956	79	133	limestone	Upper Cretaceous	2,75	0,32	Dry/fissured	1987	MTP-4			
						56	quartz sandstone	Upper Carboniferous	4,11	0,15	Semi-dry			2,732	1,47	1988
						127	sandstone, marly or carbonatic?	Middle-Upper Carboniferous						2,742	1,64	
32	GT-1/88	Šentjakob near Ljubljana	46,0874	14,5869	275	201	quartz sandstone	Middle Carboniferous	3,92	0,10	Semi-dry	1988	MTP-1, MTP-4	2,742	1,46	
						267	sandstone	Middle Carboniferous						2,793	1,89	
						488	quartz mica sandstone	Middle Carboniferous	3,82	0,23	Semi-dry			2,762	1,7	
33	SOB-1/87	Murska Sobota	46,6597	16,1612	190	550	marly clay	Upper Pontian	2,08	0,04	Saturated			2,181	1,65	1988
						701	sandy clay	Upper Pontian	2,13	0,04	Saturated	1987	MTP-1, MTP-4	2,141	1,37	
						752	sandy clay	Pannonian-Pontian	2,14	0,22	Saturated			2,100	1,41	
						888	sandy marl	Lower Pannonian	2,05	0,10	Semi-dry			2,385	1,62	1988
						1796	sandstone	Middle Badenian	2,33	0,03	Semi-dry			2,458	1,03	
34	GB-1/87	Gabrnik	46,4798	15,9476	220	2006	clayey siltstone	Badenian	1,94	0,04	Semi-dry	1988	MTP-1, MTP-4	2,548	1,75	
						2011	dolomitic conglomerate	Badenian	2,05	0,49	Semi-dry / fissured					
35	ŠL-1/88	Škofja Loka	46,1745	14,2803	370	0	dolomitic limestone	Upper Triassic	4,03	0,33	Semi-dry	1988	MTP-1, MTP-4	2,813	1,62	1990
						266	red quartz sandstone		3,12	0,25	Dry					
37	V-931/88	Žirovski vrh Uranium mine	46,0755	14,1486	706	292	red quartz sandstone & siltstone	Middle Permian	2,96	0,22	Dry	1988	MTP-4	2,824	2,96	1990
						352	dark grey sandstone with black shale clasts	Middle Permian	2,12	0,16	Dry			2,824	7,09	
						306	colorful conglomerate w. black siltstone	Middle Permian	3,27	0,38	Dry					
38	V-934/88	Žirovski vrh Uranium mine	46,0758	14,1493	700	425	quartz conglomerate	Middle Permian	4,05	0,12	Dry	1988	MTP-4	2,691	1,97	1988
						447	grey-green conglomerate	Middle Permian	3,81	0,21	Dry			2,691	1,00	
						542	sandstone with mica	Badenian-Sarmatian	2,39	0,23	Semi-dry			2,334	0,97	1988
						624	conglomerate	Middle Badenian	3,24	0,49	Semi-dry	1988	MTP-1, MTP-4			
39	T-4/87	Radenci	46,6406	16,0509	198	668	sandy claystone	Lower Badenian	1,89	0,04	Semi-dry			2,436	1,57	
						797	phylionite	Paleozoic	3,88	0,48	Dry			2,773	1,57	

40	PDG-1/87	Podgorje near Cimurek	46,7049	15,8330	228	Sarmatian	sandy claystone	57	1,44	0,33	Semi-dry	1988	MTP-1, MTP-4	2,192	1,51	1988
								142	1,87	0,07	Semi-dry			2,253	1,13	
								217	2,29	0,15	Semi-dry			2,273	1,5	
								250	2,20	0,04	Semi-dry			2,355	1,02	
								276	2,90	0,18	Semi-dry			2,548	0,64	
								296	1,31	0,21	Dry			2,039	1,15	
								315	2,01	0,02	Dry			2,355	1,37	
								327	1,48	0,10	Dry			2,263	1,32	
								1235	1,79	0,08	Semi-dry			2,192	1,01	
								1772	1,49	0,04	Semi-dry			2,304	1,46	
41	LJUT-1/88	Ljutomer	46,5142	16,1897	250	Upper Pannonian-Lower Pannonian	calcareous siltstone with sandstone	2386	2,66	0,10	Dry	1988	MTP-1, MTP-4	2,508	1,91	
								2386	3,73	0,19	Saturated					
								2386	2,34	0,10	Semi-dry					
								2647	2,72	0,13	Semi-dry			2,752	1,91	
								2651	2,66	0,09	Semi-dry					
								2825	2,62	0,08	Dry			2,528	1,16	
								2825	3,39	0,17	Saturated					
								2827	2,75	0,13	Semi-dry					
								2830	2,69	0,07	Semi-dry			2,742	2,17	
								3087	2,72	0,24	Semi-dry					
42	SOB-2/88	Murska Sobota	46,6591	16,1654	190	Lower Pannonian	sandstone, siltstone	2827	2,52	0,10	Semi-dry	1988	MTP-1, MTP-4	2,773	1,82	
								3293	2,52	0,10	Semi-dry			2,742	1,68	
								3639	2,34	0,22	Semi-dry					
								3935	3,15	0,25	Semi-dry					
								4020	4,01	0,47	Dry			2,773	0,66	
								4048	2,60	0,41	Dry			2,630	1,92	
								733	1,48	0,07	Saturated					
								802	2,07	0,03	Semi-dry					
								854	2,49	0,04	Semi-dry			2,243	2,07	
								297	2,32	0,15	Dry					
43	P-29/88	Praproče	45,5315	13,9153	422	Middle Eocene	limestone	315	2,67	0,11	Dry	1988	MTP-1, MTP-4	2,936	3,33	
								338	2,67	0,10	Dry					
								388	2,56	0,14	Dry					
								500	2,47	0,10	Dry					

45	ŠD-2/88	Špitalska Draga near Metlika	45,6611	15,3108	183	60	limestone	Upper Jurassic	2,9	0,17	Dry	2003	MTP-1					
						85	limestone	Lower Jurassic	2,62	0,04	Dry							
						90	dolomitic limestone, limestone, breccia		3,5	0,18	Dry							
46	V-14/83	Vaseno	46,2180	14,6996	437	202	dolomite	Middle Triassic	3,94	0,15	Dry	1983	MTP-1					
						300	dolomite		2,94	0,08	Dry/ fissured							
						349	dolomite		3,82	0,31	Dry/ fissured							
						496	dolomite		4,11	0,20	Dry/slightly fissured							
						550	dolomite		4,10	0,25	Dry/ fissured							
						610	dolomite		3,79	0,73	Dry							
						0	limestone		Upper Cretaceous	2,85	0,12			Dry	1986	MTP-1, MTP-4		
47	V-2/79	Avber near Sežana	45,7764	13,8616	232	5	clay	Quaternary	1,15	0,16	Saturated	1986	MTP-1, MTP-4					
						9	clay		1,12	0,45	Saturated							
						12	clay		1,45	0,55	Saturated							
						1360	sandstone (laminated)		Lower Pontian	2,24	0,17			Dry				
						1365	sandstone		Upper Pannonian or Lower Pontian	2,03	0,10			Dry			2,406	1,99
51	Pg-7/88	Petišovci	46,5375	16,4849	158	1628	sandstone & siltstone	Upper or Lower Pannonian	2,61	0,15	Dry	1988- 1989	MTP-1, MTP-4					
						1628	sandstone & siltstone		3,05	0,04	Saturated							
						1642	marly siltstone		2,19	0,28	Dry					2,610	1,63	
						1704	sandstone & siltstone		2,01	0,10	Dry							
						1704	sandstone & siltstone		2,74	0,08	Saturated							
						1710	sandstone		2,21	0,13	Dry							
						1710	sandstone		3,27	0,20	Saturated							
						2136	sandstone & siltstone		Sarmatian	2,97	0,20			Dry				
						2136	sandstone & siltstone		Sarmatian or Badenian	3,7	0,16			Saturated				
						2144	sandstone, marl and siltstone			2,6	0,18			Semi-dry			2,762	4,06
						2412	sandstone with mica		Badenian	3,77	0,50			Semi-dry				
						2418	siltstone & sandstone		Lower Badenian	3,29	0,38			Semi-dry				
						2779	sandstone & siltstone			4,03	0,43			Semi-dry				
2973	sandstone & siltstone	Badenian or Karpatian	3,36	0,19	Semi-dry													

52	DOK-1/88	Dokležovje	46,5984	16,1826	182	sandstone with marl	Middle Badenian	2,21	0,04	Dry	1988	MTP-1, MTP-4	2,559	1,38	1988
								2,56	0,14	Semi-dry					
								2,57	0,24	Semi-dry					
								2,31	0,19	Dry					
53	Mg-6/85	Murski gozd	46,4985	16,5216	155	sandstone & siltstone	Lower Badenian	2,97	0,21	Dry	1985-1986	MTP-4, MTP-1	2,732	2,95	1985
								2,35	0,11	Dry					
								2,41	0,05	Semi-dry					
								2,52	0,10	Semi-dry					
54	LK-1/89	Nadgorica near Ljubljana	46,0889	14,5630	279	silty marl	Karpatian or Lower Badenian	2,44	0,07	Semi-dry	1989	MTP-4, MTP-1	2,793	1,82	1990
								2,53	0,07	Semi-dry					
								2,02	0,23	Semi-dry					
								3,14	0,28	Dry					
								2,41	0,27	Dry					
								2,72	0,35	Dry					
								2,35	0,31	Dry					
								2,93	0,10	Dry					
								3,48	0,24	Dry					
								3,29	0,65	Dry					
								3,60	0,26	Dry					
								3,37	0,22	Dry					
55	SGT-1/90	Šmartno near Slovenj Gradec	46,4945	15,0794	445	silty claystone or siltstone	Carboniferous	3,30	0,28	Dry	2007	TCS	2,724	1,47	1990
								2,87	0,08	Dry					
								2,65	0,36	Dry					
								2,84	0,54	Dry					
56	P-27/87	Podpeč near Rizana	45,5189	13,9084	305	limestone	Paleocene	2,70	0,18	Dry	1987	MTP-1, MTP-4	2,671	0,78	1988
								2,62	0,08	Dry					
								3,33	0,40	Dry					
								2,84	0,54	Dry					

58	V-4/84	Podčetrtek	46,1652	15,6054	196	101	marl	Oligocene	2,53	0,04	Saturated/ fissured	1984	MTP-1		2,480	2,18	1984
						198	spilitic diabase tuff (metamorphosed porphyr. breccia)	Middle Triassic	2,06	0,08	Dry/ fissured				2,740	0,58	
					1143* 390	90	dolomitic limestone		3,62	0,48	Semi-dry				2,793	0,66	
					426	115	limestone & dolomite	Lower Triassic	3,02	0,11	Dry/ fissured				2,742	0,68	
					508	160	limestone		2,65	0,19	Semi-dry				2,844	0,62	
					660	270	dolomite	Anisian	4,00	0,17	Semi-dry						
					700	285	red silty dolomite		3,87	0,21	Semi-dry						
					700	285	grey dolomite	Lower Triassic	3,26	0,19	Semi-dry						
					869	340	dolomite and siltstone with gypsum		2,40	0,08	Semi-dry				2,814	1,85	
					911	350	black dolomite	Upper Permian?	3,85	0,36	Semi-dry				2,854	1,47	
					952	354	calcitic breccia	Middle Permian?	2,25	0,50	Semi-dry						
					1043	378	dolomite with calcite	Middle Permian-Triassic	4,88	0,48	Semi-dry	1987- 1988	MTP-1, MTP-4		2,854	0,69	1988- 1990
61	Holes in the western tunnel tube wall	Karavanke Highway Tunnel	46,4678	13,9967	1210	430	dolomitic breccia & conglomerate	Middle Permian	3,44	0,54	Semi-dry				2,691	0,72	
					1690	496	dolomitic conglomerate with sandstone	Upper Carboniferous -Lower Permian	4,13	0,60	Dry/partly crumbled				2,620	0,42	
					1755	502	black claystone with calcite	Carboniferous - Permian	1,71	0,10	Dry/partly crumbled				2,09	1,75	
					1855	525	sandstone, siltstone	Upper Carbon. -Lower Permian	2,18	0,11	Semi-dry				2,773	2,27	
					1970	544	siltstone, sandstone, limestone								2,691	2,22	
					2100	575	calcarenite	Upper Carboniferous	2,84	0,16	Semi-dry						
					2145	590	siltstone, claystone, clay		1,60	0,24	Semi-dry				2,732	2,53	
					2261	688	silty (?) limestone		3,29	0,19	Semi-dry				2,732	2,11	
						356	carbonate pebble sandstone		2,46	0,94	Saturated						
						357	gravel silty sand		1,01	0,06	Sat./partly crumbled						
						366	claystone with sand & pebbles		1,46	0,36	Saturated						
63	P-8r/86	Družmirje near Velenje	46,3846	15,0697	380	367	silt with sand, clay & pebbles	Pliocene	1,33	0,37	Saturated	1986	MTP-4				
						368	claystone		1,34	0,27	Saturated						
						369	silty and siderite claystone		1,37	0,31	Saturated						
						375	silty claystone		1,34	0,42	Saturated						

64	B-105/89	Uranium mine Žirovski vrh	46,0627	14,1563	703	72	pinkish red sandstone or siltstone	Middle Permian	2,89	0,24	Semi-dry	1989	MTP-4, MTP-1	2,882	2,57	1990
														2,726	3,60	
66	ŠOM-1/88	Šomat near Podršnica	46,6431	15,7589	270	357	marly sandstone	Lower Badenian	2,31	0,17	Saturated	1988	MTP-1, MTP-4	2,447	1,89	1990
						627	silty marl or marly siltstone	Lower Badenian or Karpatian	0,92	0,13	Dry			1,651	0,37	
						628	silty marl		2,44	0,19	Semi-dry					
						805	tectonic breccia of sandstone silt matrix	Karpatian	3,07	0,26	Semi-dry			2,854	2,55	
						152	dolomite	Triassic	3,99	0,49	Semi-dry					
68	TB-2/89	Ljubljana, Spodnji Log	46,0258	14,4664	293	100	dolomite with lot of clay, tectonic, fissured	Upper Triassic	1,63	0,25	Semi-dry / fissured	1989	MTP-4			
						96	dolomite	Triassic	3,64	0,95	Dry/partly crumbled					
70	MT-1/89	Mokrice	45,8619	15,6801	152	51	clay with sand & pebbles	Pleistocene	1,54	0,04	Saturated	1989	MTP-1, MTP-4			
						102	silt with sandy clay		1,95	0,09	Saturated					
						152	silty clay	Upper Triassic	2,04	0,28	Semi-dry					
						175	dolomite	Upper Triassic	5,17	0,52	Semi-dry					
						267	dolomite		5,30	0,27	Semi-dry					
						346	clayey sandstone with pebbles	Middle Triassic or Carnian?	1,60	0,11	Saturated					
						85	clay & sand	Pliocene	2,28	0,10	Saturated					
72	TB-3/89	Ljubljana marsh, Curnovec creek	46,0196	14,4612	293	195	carbonaceous silt & grey-brown clay	Lower Pliocene	1,68	0,45	Saturated	1989	MTP-1, MTP-4			
						297	silty marl with mica		1,85	0,14	Semi-dry					
						435	silty marl	Pannonian	1,74	0,09	Semi-dry					
						437	clayey marl		1,75	0,31	Dry					
						490	silty (clayey) marl		1,72	0,03	Semi-dry					
						544	silty marl		1,63	0,07	Semi-dry					
						661	marly limestone	Badenian	1,89	0,06	Semi-dry					
						754	sandstone, silty clay with sand & pebbles (5%)	Ottungian	2,23	0,07	Saturated					
						806	silty clay, silt	Ottungian	2,13	0,07	Saturated					
						1250	silty claystone (80%), limestone & chert (20%)	Upper Cretaceous	2,00	0,22	Saturated					
78	DRN-1/89	Drnovo	45,9139	15,5056	150	85	clay & sand	Pliocene	2,28	0,10	Saturated	1989-1990	MTP-1, MTP-4	2,110	1,08	1990
						195	carbonaceous silt & grey-brown clay	Lower Pliocene	1,68	0,45	Saturated					
						297	silty marl with mica		1,85	0,14	Semi-dry					
						435	silty marl		1,74	0,09	Semi-dry					
						437	clayey marl		1,75	0,31	Dry					
						490	silty (clayey) marl		1,72	0,03	Semi-dry					
						544	silty marl		1,63	0,07	Semi-dry			2,110	1,08	
						661	marly limestone	Badenian	1,89	0,06	Semi-dry			2,189	1,04	
						754	sandstone, silty clay with sand & pebbles (5%)	Ottungian	2,23	0,07	Saturated			2,262	1,27	
						806	silty clay, silt	Ottungian	2,13	0,07	Saturated					
						1250	silty claystone (80%), limestone & chert (20%)	Upper Cretaceous	2,00	0,22	Saturated					

79	O-1/91	Osp	45,5730	13,8533	27	306 405 533 549 583 584 606 632	marl marly limestone marly limestone marly limestone limestone limestone limestone limestone, marly limestone	Middle Eocene	2,29 2,58 2,09 2,41	0,15 0,47 0,13 0,22	Semi-dry Semi-dry Semi-dry Semi-dry	MTP-1, MTP-4	1990- 1991	2,699	0,58	1995
80	S-1/89	Polom near Kočevje	45,7437	14,8537	373	180 220	limestone limestone	Lower Cretaceous	2,86 2,96	0,14 0,15	Semi-dry Semi-dry	MTP-1, MTP-4	1990	2,723	n.d.	
82	MB-1/90	Maribor	46,5357	15,6836	256	19	sandy marl	Miocene	2,14	0,44	Saturated	MTP-4	1990	2,280	n.d.	1990
86	Holes in the tunnel tube wall	Debeli hrib Tunnel, Ljubljana	46,0091	14,5659	180 181	47 49 49,3	siltstone with sandstone siltstone with sandstone siltstone with sandstone	Permo-Carboniferous	2,22 3,01	0,26 0,16	Sat. / perp. to bedding Sat. / paral. to bedding	MTP-1, MTP-4	1990	2,776	2,76	1990
87	MB-1/91	Maribor	46,5356	15,6855	256	154 353 624 801 945 1331	sandy marl marl siltstone with sandstone granat-muscovite gneiss, tectonized muscovite gneiss with granats granat-muscovite-biotite gneiss	Badenian Badenian or Karpatian Karpatian? PreCambrian	2,05 2,05 2,51 4,60 3,88 3,05	0,12 0,20 0,31 0,52 0,34 0,31	Saturated Semi-dry Semi-dry Dry Dry Dry	MTP-1, MTP-4	1990- 1991	2,475 2,578 2,951 2,950 3,042	1,05 0,82 2,17 2,29 2,37	1992
88	PB-5/90	Ljubljana marsh, Curnovec creek	46,0201	14,4633	292	65 71 127 155 163	clay (light brown) peat (black organic clay) silty sandy clay clay (dark grey) clay (red)	Pleistocene	1,21 0,79 1,70 1,60 1,42	0,30 0,03 0,28 0,06 0,03	Saturated Saturated Saturated Saturated Saturated	MTP-1, MTP-4	1990			
90	ŽT-1/91	Žalec	46,2561	15,1584	259	361 654 1100 1499	tuffaceous breccia and sandstone silty marl (or sandstone) calcareite=limy tuffac. sandstone keratophyre (alkali-albit trachyte)	Oligocene Middle Triassic: Ladinian Middle Triassic: Anisian	1,32 1,69 3,03 2,66	0,16 0,26 0,22 0,21	Semi-dry Semi-dry Semi-dry Semi-dry	MTP-1, MTP-4	1990- 1991	1,800 2,332 2,943 2,922	n.d. 1,24 0,47 2,97	1992

91	Tr-3/90	Rogaška Slatina	46,2235	15,6429	216	0	sandstone sandstone with tuff	Ottungian-Karpatian	2,46	0,60	Dry	1990	MTP-1, MTP-4					
						228			2,3	0,85	Dry							
92	PB-4/89	Ljubljana, Kolesarjeva	46,0421	14,4926	292	88	quartz sandstone	Permo-Carboniferous	2,94	0,52	Semi-dry	1991						
						1086	marly siltstone	Sarmatian	2,35	0,19	Semi-dry							
						1193	marly siltstone	Sarmatian or Badenian	2,06	0,17	Saturated							
98	PEČ-1/91	Pečarovci	46,7402	16,1361	234	1211	sandstone with siltstone	Badenian	2,68	0,35	Sat./paral. to bedding		MTP-4, MTP-1					
						1212	sandstone, slightly marly		1,92	0,17	Dry				2,380	1,81		
						1920	dolomite	Mesozoic	3,66	0,13	Dry				3,028	1,00	1992	
						2001	dolomite breccia with pyrites		3,40	0,51	Dry					2,752	2,27	
99	VG-1/90	Grčarevec	45,8749	14,2105	490	120	dolomite with calcite veins	Lower Jurassic	4,66	0,54	Dry	1991	MTP-4, MTP-1					
102	D-2/90	Dragonja	45,4474	13,6812	24	81	limestone	Eocene	2,16	0,12	Semi-dry		MTP-4, MTP-1					
						150	marly limestone	Paleocene	2,43	0,24	Semi-dry	1991						
106	MB-2/91	Maribor	46,5411	15,6703	256	486	gneiss	PreCambrian	3,29	0,36	Dry	1992	MTP-1, MTP-4		2,910	1,50	1992	
						487	gneiss		3,75	0,64	Dry							
113	DAN-3/90	Dankovci - Moščanci	46,7543	16,1782	308	946	clayey-marly sandstone	Lower Pontian or Upper Pannonian	1,85	0,06	Saturated	1991						
						1237	sandstone	Sarmatian	2,52	0,40	Saturated		MTP-4, MTP-1					
114	SGT-2/92	Mislinjska Dobrava	46,4668	15,1221	505	1314	sandstone		4,44	0,23	Saturated							
						99	clay with quartz pebbles	Pliocene	1,57	0,16	Saturated	1992	MTP-1, MTP-4					
121	GM-1/93	Gozd Martuljek	46,4858	13,8373	742	0	quartz shale sandstone	Upper Carboniferous	2,90	0,07	Dry	1995	MTP-1					
						610	marly clay	Oligocene - Upper Egerian	1,57	0,08	Saturated				2,452	n.d.		
122	RT-1/92	Rogaška Slatina	46,2286	15,6372	221	1035	arkose sandstone	Oligocene - Lower Egerian	2,19	0,23	Semi-dry				2,470	1,28		
						1206	marl		1,52	0,06	Sat./fissur.	1992-1993	MTP-4, MTP-1		2,696	1,28		
						1412	tecton. sandstone, black mudstone	Middle Triassic	2,32	0,56	Semi-dry				2,713	1,72		1995
						1700	shale with quartz pebbles, pyrites	Permo-Carboniferous	2,09	0,25	Dry/partly crumbled				2,750	1,98		

141	MK-1/93	Mark above Šempeter near Gorica	45,9287	13,6535	226	181	sandstone	Lower Eocene	2,96	0,37	Semi-dry	1993	MTP-4, MTP-1				
						183	sandstone with silty marl		3,21	0,19	Semi-dry						
148	Mrt-1/93	Sveti Martin, Kobilje breg	46,6606	16,3834	173	1931	marly siltstone	Lower Pontian?	1,71	0,14	Semi-dry / par. to bedding	1993	MTP-4				
						2092	marly siltstone, mica sandstone		3,35	0,49	Semi-dry						
						2096	marly siltstone		2,34	0,25	Semi-dry / perp. to bedding						
						2098	marly siltstone		2,52	0,14	Semi-dry						
						2431	sandstone w. mica		2,56	0,50	Semi-dry						
						2434	sandstone w. mica		1,88	0,67	Semi-dry						
155	Sre-1/91	Središče	46,7674	16,3240	229	2438	silty marlstone, mudstone?	Badenian	2,58	0,10	Semi-dry	1993	MTP-1, MTP-4				
						2439	sandstone w. mica		1,73	0,32	Semi-dry						
162	R-14/93	Podračje near Hrasnovlje	45,5183	13,9005	115	290	limestone	Paleocene-Eocene	2,29	0,21	Dry	1994	MTP-4				
						291	limestone		2,31	0,23	Dry						
						204	silty carbonate sandstone	Middle Eocene	1,54	0,13	Dry/fissured						
						205	silty carbonate sandstone		1,43	0,07	Dry/fissured						
163	LU-1/94	Lucija	45,5065	13,5988	2	609	limestone		2,46	0,23	Semi-dry	1994	MTP-4				
						611	limestone (fluidal sedimentation)		2,61	0,18	Semi-dry						
						611	limestone (shell)		2,65	0,19	Semi-dry						
						798	limestone (shell)	Upper Cretaceous	2,31	0,10	Semi-dry						
						800	limestone (bituminosed?)		2,57	0,14	Semi-dry				2,642	0,48	1995
169	ŠE-1/94	Šempeter near Gorica	45,9216	13,6326	68	524	marl, calcareous marl (claystone?)	Middle Eocene	1,98	0,28	Dry/fissured	1995	MTP-1				
						525	silty (calcareous) marl or shale		2,26	0,21	Dry/fissured						
						526	marl (marly shale)		1,91	0,19	Dry/fissur.						
						938	silty (calcareous) marl		1,98	0,14	Dry/fissured				2,622	0,51	1995
						940	silty (calcareous) marl		2,53	0,07	Dry/paral. to bedding						
179	To-1/94	Okonina	46,3270	14,8669	393	160	breccia (dolo-limestone, marly)	Upper Oligocene: Chattian	2,17	0,14	Dry	1994	MTP-4				
						693	dolomitized limestone		2,36	0,20	Dry/fissured						
189	Ce-2/95	Cerkno	46,1277	13,9881	318	694	dolom. limestone	Upper Triassic: Norian & Rhaetian	2,64	0,24	Dry/fissur.	1995	MTP-1				
						695	dolom. limestone		2,63	0,11	Dry/fissur.						
						1948	limestone	Upper Jurassic	2,63	0,06	Dry						

209	G-10/95	Zgornji Gabrnik	46,2718	15,5744	290	425	dolomitized tuff	Oligocene	1,97	0,06	Dry/fissur.	1996	MTP-1					
233	PC-3/84	Topolišica	46,3939	15,0240	378	602	calcareous siltstone	Pliocene	2,35	0,07	Dry	1986	MTP-4					
247	PI-3/84	Šoštanj-Metleče	46,3847	15,0378	359	195	claystone	Pliocene	1,29	0,45	Saturated	1986	MTP-4					
252	Ng-1/18	Spodnje Ngonje	46,2450	15,6172	268	300	mica siltstone and sandstone	Lower Oligocene	2,84	0,06	Semi-dry	2019	TCS					
						301	mica siltstone and sandstone		2,85	0,15	Semi-dry							
						508	siltstone with ande-sitic tuff		3,06	0,09	Semi-dry							
						509	siltstone with ande-sitic tuff		2,99	0,09	Semi-dry							
						386	sandy clay		2,01	0,25	Saturated							
275	S-1j/83	Leženj	46,3880	15,0838	460	302	lignite	Pliocene	0,58	0,15	Semi-dry	1986	MTP-4					
276	P-2n/86	Gaberke	46,3883	15,0791	404	320	lignite	Pliocene	0,97	0,60	Semi-dry	1986	MTP-1, MTP-4					
						325	lignite		0,59	0,16	Semi-dry							
						345	lignite		1,34	0,22	Semi-dry							
						348	lignite		0,78	0,20	Semi-dry							
						290	dolomite		4,06	0,42	Dry							
277	P-2ut/87	Gaberke	46,3909	15,0743	377	290	dolomite	Middle Triassic	4,06	0,42	Dry	1987	MTP-1, MTP-4					
278	S-6s/83	Gaberke	46,3864	15,0717	382	337	claystone	Pliocene	1,30	0,37	Saturated	1986	MTP-1, MTP-4					
279	P-6t/84	Gaberke	46,3868	15,0709	384	401	lignite with clay	Pliocene	1,52	0,27	Saturated	1986	MTP-4, MTP-1					
280	P-5t/84	Gaberke	46,3877	15,0719	384	404	hydrothermally metam. dolomite (millonite)	Middle Triassic	3,46	0,24	Saturated/fissured	1986	MTP-4					
						48	lignite with clay		1,43	0,19	Saturated							
						49	lignite with clay		1,29	0,20	Saturated							
						52	clay		1,46	0,17	Saturated							
						53	lignite, lignite with clay		0,82	0,14	Saturated							
						54	clay, lignite with clay		1,51	0,13	Saturated							
						57	clay		1,58	0,14	Saturated							
						59	clay with sand		1,91	0,19	Saturated							
						2142	siltstone or mudstone		2,34	0,18	Dry							
						2143	siltst. or mudstone		2,39	0,15	Dry							
281	S-60/86	Deberca near Velenje	46,3752	15,1172	406	53	lignite, lignite with clay	Pliocene	0,82	0,14	Saturated	1987	MTP-1, MTP-4					
						54	clay, lignite with clay		1,51	0,13	Saturated							
						57	clay		1,58	0,14	Saturated							
						59	clay with sand		1,91	0,19	Saturated							
						2142	siltstone or mudstone		2,34	0,18	Dry							
						2143	siltst. or mudstone		2,39	0,15	Dry							
						2144	siltst. or mudstone		2,14	0,20	Dry							
						2144	siltst. or mudstone		2,27	0,06	Dry							
						2145	siltst. or mudstone		2,16	0,07	Dry							
						2145	siltst. or mudstone		2,25	0,05	Dry							
282	J-1g/05	Velenje lake, Restaurant Jezero	46,3689	15,0929	370	2145	siltst. or mudstone	Lower Oligocene	2,16	0,07	Dry	2007	TCS					
						2145	siltst. or mudstone		2,25	0,05	Dry							
						2145	siltst. or mudstone		2,27	0,12	Dry							
						2146	siltst. or mudstone		2,21	0,11	Dry							
						335	claystone		1,58	0,21	Saturated							
283	PJ-4/83	Šoštanj - Metleče	46,3855	15,0422	375	335	claystone	Pliocene	1,58	0,21	Saturated	1986	MTP-1, MTP-4					

284	PL-6/84	Šoštanj	46,3852	15,0514	360	397	claystone	Pliocene	1,35	0,24	Saturated	1986	MTP-4		
285	P-12u/85	Šoštanj - Družmirje	46,3824	15,0633	373	418	claystone, sandy siltstone	Pliocene	1,42	0,20	Saturated	1986	MTP-4, MTP-1		
407	BKV-1/98	Krmačina near Drašiči	45,6664	15,3897	180	145	flysch marlstone	Upper Cretaceous	2,37	0,16	Dry	2003	MTP-1		
408	Rd-1/93	Radovica	45,6908	15,3387	330	225	limestone	Upper Jurassic	2,9	0,04	Dry	2003	MTP-1		
430	Jan-1/04	Janežovci	46,4666	15,8761	244	363	marly siltstone with bioturbations	Pontian	1,98	0,26	Semi-dry	2004	MTP-1, MTP-4		
						364	sand or very loosely sandstone		1,79	0,14	Saturated				
						365	sandstone, fine-grained		1,90	0,10	Semi-dry				
						626	sandstone, fine-grained (bioturb.)		2,01	0,15	Semi-dry				
						628	sandstone, fine-grained		2,06	0,18	Saturated				
						629	marly siltstone		1,84	0,15	Semi-dry				
						822	marly siltstone		2,06	0,13	Semi-dry				
						823	sandstone, fine-grained		1,73	0,14	Saturated				
						823	clayey siltstone w. calcite clasts		1,97	0,10	Semi-dry				
						824	sandstone, calcitic marly clasts		1,70	0,14	Saturated				
432	To-2/04	Malá Lahinja near Nerajec	45,5061	15,1982	155	50	dolomite, tectonic, crumbled	Upper Jurassic	3,34	0,19	Dry	2004	MTP-1		
442	Pg-8/89	Petišovci	46,5415	16,4782	159	2816	sandstone, with mica	Lower Badenian	3,10 3,47	0,11 0,19	Dry Saturated	2020	TCS	1,39	
						2563	sandstone, with mica	Middle Badenian	3,00 3,29	0,11 0,13	Dry Saturated			1,34	
						2722	siltstone or sandstone, mica	Lower Badenian	2,90	0,26	Dry			1,30	
						2871	siltstone or sandstone, mica		2,81	0,18	Dry	2020	TCS	1,38	
						3247	siltstone with mica		2,25	0,15	Dry			1,15	
443	Pg-5/87	Petišovci	46,5365	16,4746	158	3323	siltstone or sandstone, mica	Karpathian	2,19	0,30	Dry			1,09	
						1819	sandstone	Sarmatian	3,07	0,32	Semi-dry				
						2053	sandstone and siltstone	Sarmatian	2,81	0,31	Saturated	1991	MTP-4, MTP-1		
						2443	sandstone	Badenian	3,9	0,47	Semi-dry				
444	Pg-9/89	Petišovci	46,5422	16,4955	160	3008	marly siltstone	Badenian or Karpathian	3,21	0,33	Saturated				

551	VSG-803-V3p	Podgorje near Slovenj Gradec	46,4336	15,0888	689	16	conglomerate	Badenian	3,70	0,45	Dry	2020	TCS	1,65											
						17	conglomerate		3,77	0,32	Dry			1,67											
						41	claystone		2,21	0,10	Dry			1,03											
						87	sandstone		2,56	0,23	Dry			1,03											
						116	siltstone w. pyrite		2,34	0,14	Dry			0,99											
						129	siltstone		2,20	0,18	Dry			0,78											
						139	sandstone		2,25	0,13	Dry			1,07											
						145	siltstone		2,11	0,11	Dry			0,80											
						26	clay with gravel		1,71	0,00	Semi-dry			KD2Pro											
						27	clay with gravel		1,91	0,12	Semi-dry														
556	ZDD-RV-3/21	Domžale	46,1431	14,5911	299	29	black micritic limestone, black claystone	Upper Triassic	2,27	0,18	Semi-dry	2021	TCS	0,68											
						32	black micritic limestone		2,56	0,26	Dry			0,97											
						39	dark grey limestone with black claystone		2,64	0,12	Semi-dry			1,05											
						81	silty shale with quartz		2,81	0,21	Dry														
						88	silty shale and sandstone		3,14	0,36	Dry			1991	MTP-1, MTP-4										
						90	quartz silty sandstone		3,60	0,29	Dry					2,834	n.d.								
						95	silty shale, black		2,86	0,19	Dry														
						558	PŠ-4/91		Ljubljana, Sentvid-Pržan	46,0924	14,4601			387	60	silty shale	Permo-Carboniferous	2,71	0,30	Dry	1991	MTP-4		2,758	n.d.
						559	V-46/87		Kanižarica, Eastern coal-mine field	45,5517	15,1913			178	108	sandy clay with some pebbles	Pliocene	1,32	0,09	Saturated	1987	MTP-4, MTP-1			
															163	limestone		2,61	0,14	Semi-dry					
560	C-2/82	Cezlak, Pohorje	46,4231	15,4350	649	111	cizlakite (intrusive of gabbro group)	Miocene or Oligocene	2,86	0,16	Dry	1990	MTP-4, MTP-1												
561	C-8/83	Cezlak, Pohorje	46,4226	15,4337	634	23,4	tonalite	Oligocene	2,56	0,12	Dry	1990	MTP-4		2,701	n.d.									
562	V-6/67	Rogaška Slatina	46,2405	15,6399	231	217	andesite	Oligocene?	2,54	0,16	Dry	1990	MTP-4												
563	RGS-2/90	Rogaška Slatina	46,2406	15,6399	231	223	andesite with pyrite & tuff	Upper Oligocene	3,21	0,28	Dry	1990-1991	MTP-1, MTP-4												
						256	andesite with pyrite		3,39	0,55	Dry														
						258	andesitic tuff		2,16	0,30	Dry														
564	R-10/86	Rižana-Podračje	45,5193	13,8972	98	26	limestone, marly	Paleocene-Eocene	2,42	0,12	Dry	1987	MTP-4												
						27	limestone, marly		2,60	0,08	Dry			2,711	0,55	1987									
565	P-41/90	Valley between Kubed and Hrastovlje	45,5107	13,8880	165	229	limestone	Upper Cretaceous or Eocene?	2,34	0,46	Dry/crumbled	1990	MTP-1, MTP-4												
						273	limestone		2,24	0,40	Dry														

Surface rock samples – Multi-year project: Geothermal maps of Slovenia													
Surf. No.	Sample label	46,4140	15,5159	636	0	eclogite, second. metamorphosed	PreCambrian or Cambrian	3,25	Dry	1983	MTP-1		
1	Turiška vas, NW of Slov. Bistrica	46,4140	15,5159	636	0	eclogite, second. metamorphosed	PreCambrian or Cambrian	3,25	Dry	1983	MTP-1		
2	Turiška vas, NW of Slov. Bistrica	46,4142	15,5158	632	0	eclogite, second. metamorphosed		3,58	Dry				
3	Nova Gora, N of Slov. Bistrica	46,4082	15,5451	413	0	eclogite		3,48	Dry				
4	Fošt, NW of Slov. Bistrica	46,4093	15,4927	599	0	harzburgite, serpentinitized		2,18	Dry				
5	Tomaj	45,7582	13,8583	346	0	limestone	Upper Cretaceous	2,66	Dry	1986	MTP-4, MTP-1		
6	Podpeč near Ljubljana	45,9688	14,4229	473	0	limestone	Lower, Middle Jurassic	2,78	Dry				
7	Šentilj	46,6864	15,6516	308	0	marl	Badenian	1,59	Dry	1986	MTP-1, MTP-4	2,400	1,22
8	Maribor, Meljski hrib	46,5151	15,7263	280	0	sandy marl	Badenian - Sarmatian	1,43	Dry			2,400	0,57
9		46,5324	15,7278	306	0	sandy marl		2,18	Dry			2,400	1,15
10		46,5429	15,7462	398	0	sandy marl	Ottngian - Karpathian	2,26	Dry				
11		46,5641	15,6669	300	0	sandy marl & claystone		1,50	Dry				
12		46,5694	15,6748	349	0	sandy marl & claystone		2,15	Dry				
13	Zgor. Kungota, Sveti Jurij	46,6428	15,5638	303	0	sandstone		2,84	Dry			2,600	0,49
14	Morski jarek, Rošpon creek	46,6157	15,6116	336	0	quartz phyllite	Lower Paleozoic: Ordovician-Silurian	3,62	Dry			2,700	0,46
15	Sveta Ana, Krivi Vrh	46,6421	15,8445	347	0	sandstone	Sarmatian	3,09	Dry			2,600	0,53
16	Spod. Kungota	46,6077	15,6526	306	0	silty sandy marl	Ottngian - Karpathian	1,59	Dry			2,400	1,15
17	Zgor. Kungota, Sveti Jurij	46,6421	15,5681	358	0	sandstone		2,69	Dry				
18	Šumik on Pohorje Mt.	46,5203	15,4580	470	0	amphibolite	Ordovician-Silurian?	2,64	Dry			2,700	0,15
19	NP Bištra near Crna/Koroškem	46,4439	14,8205	842	0	tonalite (diorite)	Paleogene	2,86	Dry			2,630	1,12

20	Harina Zlaka, near Podčetrtek	46,1599	15,6054	203	0	limy dolomite	Middle Triassic: Ladinian	3,21		Dry	1991	MTP-1, MTP-4			
21	Gabrnik below Boč, quarry	46,2756	15,5784	389	0	dolomitic breccia	Upper Triassic: Carnian	4,10	1,04	Dry					
22	Gabrnik below Boč, quarry	46,2771	15,5807	493	0	dolomite		4,70	0,43	Dry					
23	Quarry, S of Senjur at Celje	46,1931	15,3940	291	0	keratophyre	Middle Triassic: Ladinian?	2,72		Dry		MTP-4			
24	along the road Draslič- Kрмаčina	45,6688	15,3759	181	0	carbonate sandstone, calcaremite, calcutite	Upper Cretaceous	2,58		Dry	2003	MTP-1			
25	Kрмаčina, near borehole	45,6667	15,3883	197	0	breccia, of limestone with calcarenite		2,75	0,04	Dry / partly crumbled					
26	Metlika center, school parking	45,6556	15,3136	180	0	dolomite	Upper Triassic	4,67		Dry					
27	Radoviči at Kolpa, near Rosalnica	45,6520	15,3410	156	0	shell limestone	Upper Jurassic	2,90	0,05	Dry					
28	Vipava valley	45,8629	13,9647	158	0	micrite limestone	Upper Cretaceous	2,72		Dry	1987	MTP-1, MTP-4			
29		45,8216	13,8354	309	0	micrite limestone, with rare rudists		2,92		Dry					
30		45,8461	13,7773	349	0	sparte limestone		3,15		Dry					
31		45,8616	13,6652	412	0	micrite limestone		2,94		Dry					
32	Mala Lahinja	45,5054	15,1953	164	0	(bio)spartic limestone	Lower Cretaceous	2,69		Dry	1987	MTP-1			
33	Zapudje, near Dragatuš	45,5021	15,1698	234	0	micritic limestone		2,81		Dry					
34	Gončane- Sora, near Medvode	46,1389	14,3866	381	0	dolomitic conglomerate	Middle Oligocene	2,81		Dry	2005	MTP-4			
35	Kropa, along the road to Češnjica	46,2888	14,2073	638	0	claystone	Lower Cretaceous	2,95	0,12	Dry	1986	MTP-4, MTP-1			

Surface rock samples - The "GRETA project" - INTERREG Alpine Space Programme													
Surf. No.	Sample label	The town of Cerklno and the surrounding area											
		46,1292	13,9810	374	0	dolomite	Lower Triassic	3,76	0,19	Dry	2016-2017	TCS	1,36
36	Ko-1_ab	Košec homestead	13,9810	374	0	dolomite	Lower Triassic	3,76	0,19	Dry	2016-2017	TCS	1,36
37	Lab-2	Magajna farm	13,9958	420	0	dolomite		5,60	0,20	Dry			1,34
38	Hom-1	W of the Homec hill	13,9947	573	0	dolomite	Middle Triassic: Anisian	5,33	0,08	Dry			-
39	Hot-1_ab	Hotel Cerklno	13,9885	317	0	limestone, slightly dolomitized	Lower Triassic	3,03	0,10	Dry			1,02
40	Ra-1	Rače, along the creek	13,9784	353	0	limestone		2,65	0,10	Dry			1,18
41	Ra-2_a		13,9800	334	0	limestone		2,63	0,22	Dry			1,15
42	Ra-2_b		13,9800	334	0	marlstone to limestone, tecton.		1,97	0,30	Dry			1,00
43	Sw-1_a	Sv. Jernej, Pot v Celu	13,9811	325	0	limestone	Upper Permian	2,36	0,25	Dry			0,97
44	Sw-1_b		13,9811	325	0	black marly limestone, almost passing into coal		2,01	0,22	Dry			0,85
45	Lab-1	along the road to Labinjje	13,9946	364	0	limestone, tectonized	Lower Triassic	2,51	0,11	Dry			0,96
46	Lab-3	to the Mill, Labinjje	13,9939	531	0	marly limestone		2,82	0,12	Dry			0,90
47	Hom-2	Homec hill	13,9970	637	0	black limestone	Middle Triassic: Ladinian	2,96	0,07	Dry			-
48	Mak-1	Maketon homestead	13,9776	437	0	sericitized lithocrystalline tuff		3,18	0,19	Dry			1,36
49	Mak-2_ab	Maketon homestead	13,9780	464	0	hydrothermally altered keratophytic and porphyritic tuff		4,04	0,13	Dry			1,60
50	St-1_ab	Strana	13,9913	343	0	sandstone (Val Gardena) and fine-grained siltstone	Middle Permian	1,95	0,11	Semi-dry			1,56
51	B-1_bc	Brdca, at NOB monument	13,9891	344	0	siltstone to mudstone	Upper Triassic: Carnian (Amphicl.)	1,95	0,15	Semi-dry			1,23
52	B-1_a		13,9891	344	0	sandstone		2,75	0,24	Semi-dry			1,09
53	Kc-1_def	Kacan homestead	13,9845	349	0	clay shale (muddy shale)	Carboniferous	1,84	0,10	Semi-dry			1,59
54	Mlin-2_abcde	Mlin, Pot pod Bregom	13,9846	326	0	quartz conglomerate		4,83	0,25	Semi-dry			1,87
55	Mlin-1_abcd		13,9839	316	0	quartz sandstone w. conglomerate		3,91	0,14	Semi-dry			1,88

76	35ab	ESE of Mali Vrh at Prežganje, S of Veliko Trebeljevo	46,0032	14,7423	631	0	limestone & marly limestone	Upper Triassic: Carnian	2,84	0,10	Semi-dry				1,17
77	40a	S of Mali Lipoglav, between Mali Lipoglav and Zgoranja Slivnica	45,9893	14,6403	484	0	limestone (a bit tuffaceous)		2,73	0,05	Semi-dry				0,98
78	40bc	Lipoglav	45,9893	14,6403	484	0	tuffite		1,73	0,07	Semi-dry				0,56
79	40d	and Zgoranja Slivnica	45,9893	14,6403	484	0	limestone (tuffaceous?)		2,92	0,10	Semi-dry				1,05
80	5a	Podutik, Toško Čelo, E of Požgane doline	46,0850	14,4128	542	0	non bedded limestone	Middle & Upper Triassic: Ladinian-Carnian	3,01	0,10	Semi-dry				1,49
81	10a	Podutik, Prevalnik, Toško Čelo	46,0825	14,4240	503	0	marly limestone with chert	Upper Triassic: Carnian	3,46	0,15	Semi-dry				1,53
82	34ab	between Selo near Pance and Pance	45,9986	14,6599	400	0	Schlieren dolomite	Middle & Upper Triassic: Ladinian-Carnian	4,79	0,16	Semi-dry				1,74
83	7abc	Podutik, S of Bike park	46,0751	14,4374	348	0	tuff (pieces & weathered matrix)	Middle Triassic: Ladinian	2,72	0,16	Semi-dry				1,21
84	8b		46,0743	14,4371	390	0	tuff		3,50	0,15	Semi-dry				1,45
85	11ab	Toško čelo	46,0791	14,4288	366	0	limestone with cherts & marly limestone		3,14	0,13	Semi-dry				1,37
86	31abc	Malo Trebeljevo, on open meadow	46,0208	14,7410	569	0	dolomitic marlstone & marly dolomite		3,19	0,13	Semi-dry				1,42
87	36a	Malo Trebeljevo (N part)	46,0201	14,7410	569	0	dolomite		4,44	0,13	Semi-dry				1,25
88	12a	W of Podutik, SE of Toško Čelo	46,0815	14,4245	485	0	dolomite	Middle Triassic: Anisian	4,44	0,15	Semi-dry				1,83
89	6a	Toško Čelo, S of restaurant "Pri Bitencu"	46,0819	14,4183	544	0	oolite limestone (marlstone?)	Lower Triassic (Werfen fm)	2,39	0,13	Semi-dry				0,82
90	15abc	road to Toško Čelo	46,0839	14,4215	540	0	dolomite		3,74	0,15	Semi-dry				1,83
91	16a	road to top of the hill on Toško Čelo	46,0823	14,4182	551	0	oolite limestone		2,92	0,05	Dry				1,03
92	17abc		46,0846	14,4194	576	0	sandstone & siltstone		2,81	0,18	Semi-dry				1,02
93	19abcd		46,0831	14,4227	525	0	dolomitic marlstone & marly dolomite		3,48	0,14	Semi-dry				1,37
94	32ab	along the road Repče - Pleše	45,9953	14,6167	472	0	marlstone, marly limestone	Lower Triassic	1,64	0,08	Semi-dry				1,02
95	32c		45,9953	14,6167	472	0	limestone		2,80	0,05	Semi-dry				1,01
96	32d		45,9953	14,6167	472	0	dolomite		4,05	0,11	Semi-dry				1,50

97	21a	Rašica hill, SW slope to Srednje Gameljne	46,1377	14,5014	420	0	red sandstone & shale	Middle Permian (Val Gardena fm)	3,14	0,20	Semi-dry	1,76		
98	22a	W of Repče, along the road	45,9921	14,6210	467	0	siltstone (aleurolith)		2,19	0,17	Semi-dry	0,80		
99	22b	Repče - Pleše	45,9921	14,6210	467	0	tuffite, light brown	Middle Triassic	3,60	0,15	Semi-dry	1,88		
100	23ab	Rašica hill, SW slope to Srednje Gameljne	46,1377	14,5014	420	0	quartz sandstone	Middle Permian (Val Gardena fm)	3,18	0,14	Semi-dry	1,44		
101	33ab	SE of Sempavel	46,0091	14,6207	315	0	quartz-dolomitic sandstone	Middle Permian	3,24	0,12	Semi-dry	1,38		
102	33c		46,0091	14,6207	315	0	mudstone	Middle Permian	2,38	0,09	Semi-dry	0,90		
103	30b	SE of Sempavel, along the road to the South	46,0081	14,6197	320	0	red siltstone	Middle Permian	2,40	0,11	Semi-dry	0,72		
104	30cd		46,0081	14,6197	320	0	red quartz sandstone	Middle Permian	3,63	0,36	Semi-dry	0,96		
105	27abd	Brezje near Podlipoglav	46,0049	14,6196	322	0	shale	Middle Permian	1,86	0,22	Semi-dry	0,84		
106	28ab	NW of Češnjica, SE of Soštro	46,0317	14,6165	375	0	shale	Upper Carboniferous	1,44	0,10	Semi-dry	1,09		
107	41ab	Javor above Besnica, NW of Javor	46,0247	14,6718	584	0	sandstone		2,55	0,10	Semi-dry	0,99		
108	37ab	NE of Malo Trebeljevo	46,0233	14,7437	542	0	quartz conglomerate		4,84	0,68	Semi-dry	3,62		
109	38ab	NE of Veliki Lipoglav, W of Selo near Pance	46,0037	14,6532	370	0	quartz conglomerate		4,51	0,22	Semi-dry	2,32		
110	39ab	WNW of the Radio-amateurs' Mt. hut	46,0334	14,6442	535	0	quartz conglomerate		4,01	0,11	Semi-dry	2,19		
111	1a	Ljubljana Castle, W part of the circular route	46,0488	14,5077	363	0	shale, partly siltstone (aleurolith)		2,49	0,14	Semi-dry	0,93		
112	2ab	Ljubljana Castle, SE part of the circular route	46,0483	14,5089	368	0	shale		2,10	0,05	Semi-dry	0,76		
113	3ab	Ljubljana Castle, NE corner of the castle vineyard	46,0483	14,5089	368	0	shale		1,70	0,05	Semi-dry	0,61		
114	4ab	Ljubljana Castle, NE corner of the castle vineyard	46,0440	14,5143	327	0	siltstone (claystone?)		1,68	0,06	Semi-dry	0,80		

Surf. No.	Sample label	Surface soil samples – The “GeoPLASMA-CE project” – INTERREG Central Europe programme	14,6109	283	0	clay, sand & silt	Holocene	1,81	Semi-dry	2017	KD2Pro			
115	4	Ljubljana, Zalog, at the GLS building	46,0739	283	0	clay, sand & silt	Holocene	1,81	Semi-dry	2017	KD2Pro			
116	5	Ljubljana, Spodnji Kašelj, S of Sv. Andrej church	46,0542	269	0	gravel & sand (younger backfillings)	Holocene & Pleistocene	0,76	Semi-dry					
117	6	Ljubljana, Tabor, S of the Health Center	46,0559	296	0	gravel, sand, silt & soil	Holocene	1,38	Saturated			0,46	0,999	
118	7a	Ljubljana, Jarški prod, S of Crnuče industr. zone	46,0840	278	0	sand & plant residues		1,18	Semi-dry			0,53		
119	7b		46,0840	277	0	river sand		1,41	Saturated			0,42	1,001	
120	8	Ljubljana, Smartno, 300 m E of the football field	46,0812	278	0	gravel, sand & silt		1,21	Semi-dry			0,38	0,999	
121	16	Ljubljana Moor, Iška Loka, Ložca creek	45,9745	290	0	peat		1,01	Saturated			0,26	1,000	
122	17	Ljubljana Moor, Podkraj - Strahomer	45,9768	289	0	peat		0,75	Semi-dry					
123	29	Šentvid, Dvor - Stanežiče sand pit & separation	46,1121	311	0	gravel & sand (younger backfillings)	Pleistocene	1,34	Semi-dry					
124	30	Ljubljana, Kleč, Urške Zatljeve street	46,0935	307	0	Silty clay (younger gravel backfillings)	Pleistocene	1,79	Semi-dry			0,60	1,000	
125	32	Ljubljana, Torkarjeva street	46,0642	296	0	gravel & sand (younger gravel backfillings)	Pleistocene	0,63	Dry					
126	33	Ljubljana, Jarše, Orehov Gaj	46,0802	283	0	gravel & sand (younger backfillings)	Holocene & Pleistocene	1,28	Semi-dry			0,46	1,000	

Surface rock samples – The project “ROCKSENSE”													
Surf. No.	Sample label	Location	46,4116	14,8398	1314	0	andesitic hyaloclastic breccia	Middle-Upper Oligocene: Chattian	1,60	0,06	Dry	2022	TCS
127	S1	between Mts of Bezovec and Komen (Šmrekovec locality)	46,4116	14,8398	1314	0	andesitic hyaloclastic breccia	Middle-Upper Oligocene: Chattian	1,60	0,06	Dry	2022	0,63
128	S2		46,4107	14,8411	1324	0	pyroclastic fine-grained andesitic tuff		1,81	0,19	Dry		0,77
129	S3		46,4124	14,8398	1354	0	autobrecciated andesitic lava		2,05	0,24	Dry		0,83
130	S4		46,4123	14,8412	1415	0	andesitic hyaloclastic breccia		1,96	0,12	Dry		0,78
131	S5		46,4106	14,8423	1371	0	andesite tuff with fine lapilli		1,71	0,04	Dry		0,68
132	R1	NE from Renke, E of the main road	46,1052	14,9658	304	0	limestone	Triassic-Jurassic	2,91	0,24	Dry		1,08
133	R2		46,1058	14,9682	324	0	limestone, dolom. limestone?		3,08	0,07	Dry		1,16
134	R3		46,1076	14,9705	285	0	limestone		2,98	0,09	Dry		1,16
135	R4		46,1092	14,9739	314	0	limestone		2,95	0,11	Dry		1,17
136	P5	Pasjek, ESE from Spodnji Log - Tepe crossroad	46,0917	14,9276	288	0	dolomite	Middle Triassic: Ladinian	5,04	0,18	Dry		1,92
Surface rock samples – The project “Geothermal potential of the Municipality of Velenje”													
Surf. No.	Sample label	Location	46,3434	15,1603	395	0	quartz sandstone, fine-grained	Oligocene	3,73	0,26	Dry	2022	TCS
137	T1	Pirešica 18d near Velenje	46,3434	15,1603	395	0	quartz sandstone, fine-grained	Oligocene	3,73	0,26	Dry	2022	1,26
138	T2	Ravne 123 near Velenje	46,4164	15,0813	579	0	tonalite	Paleogene	1,81	0,26	Dry		0,50
139	T3	Gaberke 244 near Velenje	46,4058	15,0868	429	0	dolomite, (fine) grained	Lower Triassic	3,74	0,15	Dry		1,25
140	T4	Hrastovec 51 near Velenje	46,3888	15,1131	456	0	limestone, partly brecciated, dolomitized, tectonized		3,54	0,32	Dry		1,12
141	T5	Hrastovec 43 near Velenje	46,3905	15,1177	502	0	chert	Middle Triassic: Anisian	4,44	0,25	Dry		1,65
142	T5		46,3905	15,1177	502	0	massive (plate?) dolomite		4,13	0,16	Dry		1,35
143	T6	Škalske Cirkovce near Velenje	46,3933	15,1228	656	0	crystalline limestone, dolomitized	Middle Triassic: Ladinian	4,05	0,26	Dry		1,25
144	T7	Cemetery Podkraj near Velenje	46,3620	15,0848	386	0	dacite	Oligocene	1,72	0,11	Dry		0,69
145	T8	Vinska Gora 20 east of Velenje	46,3395	15,1739	344	0	clayey soil	Alluvium	1,13		Saturated	2022	KD2Pro 0,42
146	T9	N of Škale Lake near Velenje	46,3775	15,1067	392	0,4	clay	Plio-Quaternary	1,55		Saturated		0,53

Surf. No.	Shallow hole name	Rock samples from very shallow boreholes – Multi-year project: Geothermal maps of Slovenia												
		46,5177	15,2892	771	5	tonalite	Paleogene	2,97	1987	Dry	MTP-1, MTP-4	2,930	3,2	1982
147	PG1	Jospidol on Pohorje Mt.	46,3696	15,3582	638	1	limestone	Upper Cretaceous	2,97	1987	Dry			
148	K-1	Stranice, Quarry, Slov. Konjice	46,3834	15,3468	522	1	limestone	Cretaceous	2,90		Dry			
149	K-2	Pečevje, Štrkla creek, Slov. Konjice	46,3767	15,4065	621	1	limestone, hydrometamorph.		2,48		Dry/fissured			
150	K-3	Brijeva Gora, Slovenske Konjice	46,3769	15,4058	620	1	limestone		2,49		Dry			
152	J-1	Petelinovka, Ribnica on Pohorje Mt.	46,5133	15,2782	958	1	tonalite	Paleogene				2,697	2,74	1982?
153	J-2		46,5132	15,2797	948	1	tonalite					2,677	2,13	
154	T-1	Javornič	46,5038	15,2897	1140	1	tonalite					2,697	2,29	
155	T-2	Globaški graben	46,5171	15,2898	795	1	tonalite					2,700	3,26	
156	K-41/1	Lepšnik	46,5042	15,2597	1218	1	tonalite					2,674	2,94	
157	K-41/2		46,5114	15,2676	1145	1	tonalite					2,673	2,46	
158	K-41/3		46,5044	15,2597	1211	1	tonalite					2,668	2,14	
159	K-42/2	Pesnik	46,5182	15,2551	964	1	tonalite					2,621	2,39	

Surf. No.	surface rock samples - Research for Heat-Flow modelling of the Lake Bled area												
	Bled, W of the Lake Bled	14,0830	547	0	massive dolomite, with oncoids & stromatolites	Middle Triassic: Anisian	3,27	0,13	Dry	1,38			
160		46,3650					3,71	0,10	Sat-t	1,38			
161	Bohijska Bela, 100 m N of the Church	46,3508	14,0700	476	0	organogenic limestone	Upper Permian	2,92	0,14	Dry	1,16		
							3,12	0,07	Sat-t	1,26			
162	Krnica, between Radovna Valley and Pokljuka gorge	46,3800	14,0420	686	0	limestone, micritic	Triassic	3,44	0,16	Dry	1,29		
							3,81	0,10	Sat-t	1,23			
163	Poljšica pri Gorjah, W of Apartm. Franc	46,3720	14,0760	610	0	massive dolomite	Triassic	3,71	0,23	Dry	1,40		
164	Krnica 63, SW of Apartm. Natur	46,3720	14,0550	676	0	dolomitic breccia	Middle Triassic: Ladinian	4,48	0,19	Sat-t	1,50		
							3,97	0,21	Dry	1,65			
165	Poljšica pri Gorjah, 1.7 km W of Velika Zaika	46,3600	14,0600	730	0	marly limestone, with mica and peloidic limestone	Lower Triassic	3,18	0,15	Dry	1,29		
							3,60	0,12	Sat-t	1,27			

Appendix B. The mean TC values of some rock samples from Appendix A (from the boreholes and one tunnel) with determined anisotropy of TC.

DataBase No.	Borehole name	Locality	Lat. WGS84	Lon. WGS84	Altit. m	TVD m	Rock or sediment type	Chrono-stratigraphy	Rock state	TC measured	TC mean W/m·K	ANISOTROPY: TCpar/TCperp
54	LK-1/89	Nadgorica near Ljubljana	46,0889	14,5630	279	651	sandstone, fine grained	Carboniferous	Dry	parallel to bedding	3,05	1,28
						651				perp. to bedding	2,39	
86	Holes in the tunnel tube wall	Debeli hrib Tunnel, Ljubljana	46,0091	14,5659	337	49,3	siltstone with sandstone	Permo-Carboniferous	Semi-dry	parallel to bedding	3,01	1,36
						49				perp. to bedding	2,22	
87	MB-1/91	Maribor	46,5356	15,6855	256	1331	granat-muscovite-biotite gneiss	PreCambrian	Dry	parallel to foliation	3,48	1,33
						1331				perp. to foliation	2,62	
124	P-12o/92	Družmirje near Velenje	46,3800	15,0672	373	758	mica sandstone and siltstone	Eggenburgian	Saturated	parallel to bedding	2,11	1,72
						758				perp. to bedding	1,23	
						772	silty sandstone	Eggenburgian	Saturated	parallel to bedding	2,17	1,05
						772				perp. to bedding	2,07	
						881	mica siltstone, sandstone	Eggenburgian	Saturated	parallel to bedding	1,99	0,97
						881				perp. to bedding	2,05	
966	sandy siltstone	Eggenburgian?	Saturated	parallel to bedding	2,15	1,62						
966				perp. to bedding	1,33							
148	Mrt-1/93	Sveti Martin, Kobilje breg	46,6606	16,3834	173	1931	marly siltstone	Lower Pontian?	Semi-dry	parallel to bedding	1,71	2,14
						1931				perp. to bedding	0,80	
						2096	marly siltstone	Lower Pontian?	Semi-dry	parallel to bedding	2,42	1,03
						2096				perp. to bedding	2,34	
169	ŠE-1/94	Šempeter near Gorica	45,9216	13,6326	68	524	marl, calcareous marl (claystone?)	Middle Eocene	Dry / fissured	parallel to bedding	2,31	1,41
						524				perp. to bedding	1,64	
						525	silty (calcareous) marl or shale	Middle Eocene	Dry / fissured	parallel to bedding	2,39	1,13
						525				perp. to bedding	2,12	
444	Pg-9/89	Petišovci	46,5422	16,4955	160	2053	sandstone and siltstone	Sarmatian	Saturated	parallel to bedding	3,05	1,19
						2053				perp. to bedding	2,56	