

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	Hrastje 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	1985	MTP-4				
						420	sandy marl		1,59	0,10	Dry						
						465	sandstone		2,77	0,15	Dry						
						772	amphibolitic green schist	Ordovician-Silurian	2,56	0,11	Semi-dry	1986	MTP-1, MTP-4		2,834	0,75	1985
5	Pg-6/81	Petišovci	46,5316	16,4572	159	781	mica schist tuff		2,77	0,03	Semi-dry				2,824	0,91	
						2983	sandstone	Badenian	2,34	0,51	Dry	1987	MTP-4				
6	B-1/81	Zreče	46,3726	15,3813	387	3144	siltstone-sandstone with mica	Lower Badenian	3,01	0,17	Dry	2020	TCS	1,16			
						45	silty sandstone	Miocene	2,01	0,17	Saturated						
						112	siltstone		3,13	0,07	Saturated						
						151	clayey siltstone		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	Middle Triassic	4,09	0,59	Saturated						
						344	dolomite		3,47	0,21	Saturated						
						401	dolomite		4,41	0,54	Saturated						
7	R-1/82	Motel Rižana	45,5286	13,8840	69	502	phylite-chloritic schist	Silurian-Devonian	2,14	0,16	Semi-dry	1986	MTP-1, MTP-4		1,74	0,28	1982
						87	marl	Middle Eocene	2,10	0,18	Sat./fissur.						
8	Mt-6/83	Moravske Toplice	46,6828	16,2221	187	205	limestone	Paleocene	2,56	0,08	Saturated	1983	MTP-1				
						806	clay	Pontian	1,90	0,09	Semi-dry						
						848	sand, sandy marl	Pontian	1,64	0,38	Saturated						
						874	clayey silt		1,86	0,27	Semi-dry						
						879	sand		2,96	0,15	Saturated						
						893	sand		1,5	0,06	Semi-dry						
						900	sandy marl, marly clay	Pontian	2,07	0,21	Saturated						
						981	sandy clay		2,25	0,21	Saturated						

[illegible]

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	clayey marl	Miocene	1,50	0,04	Semi-dry	1986	MTP-4			
20	K-2A/86	Spodnja Kostovnica	46,2482	15,5898	247	502 534	tuff with sandy marl andesitic tuff	Oligocene	2,28 1,88	0,10 0,22	Saturated Semi-dry	1986 1987	MTP-4, MTP-1	n.d. 0,90		1987
24	BZ-2/87	Brezovica	46,0276	14,4322	308	0	quartz sandstone	Permo-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			
32	GT-1/88	Šentjakob near Ljubljana	46,0874	14,5869	275	56 127 201 267 488	quartz sandstone sandstone, marly or carbonatic? quartz sandstone sandstone quartz mica sandstone	Upper Carboniferous Middle-Upper Carboniferous Middle Carboniferous	4,11 3,92 3,82	0,15 0,10 0,23	Semi-dry Semi-dry	1988	MTP-1, MTP-4	2,732 2,742 2,742 2,793 2,762	1,47 1,64 1,46 1,89 1,7	1988
33	SOB-1/87	Murska Sobota	46,6597	16,1612	190	550 701 752	marly clay sandy clay sandy clay	Upper Pontian	2,08 2,13 2,14	0,04 0,04 0,22	Saturated Saturated Saturated	1987	MTP-1, MTP-4	2,181 2,141 2,100	1,65 1,37 1,41	1988
34	GB-1/87	Gabrnik	46,4798	15,9476	220	888 1796 2006 2011	sandy marl sandstone clayey siltstone dolomitic conglomerate	Pannonian-Pontian Lower Pannonian Middle Badenian Badenian	2,05 2,33 1,94 2,05	0,10 0,03 0,04 0,49	Semi-dry Semi-dry Semi-dry Semi-dry / fissured	1988	MTP-1, MTP-4	2,385 2,458 2,548	1,62 1,03 1,75	1988
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
37	V-931/88	Žirovski vrh Uranium mine	46,0755	14,1486	706	266 292 352	red quartz sandstone red quartz sandstone & siltstone dark grey sandstone with black shale clasts	Middle Permian	3,12 2,96 2,12	0,25 0,22 0,16	Dry Dry Dry	1988	MTP-4	2,824 2,824	2,96 7,09	1990
38	V-934/88	Žirovski vrh Uranium mine	46,0758	14,1493	700	306 425 447	colorful conglomerate w. black siltstone quartz conglomerate grey-green conglomerate	Middle Permian	3,27 4,05 3,81	0,38 0,12 0,21	Dry Dry Dry	1988	MTP-4			1988
39	T-4/87	Radenci	46,6406	16,0509	198	542 624 668 797	sandstone with mica conglomerate sandy claystone phylionite	Badenian-Sarmatian Middle Badenian Lower Badenian Paleozoic	2,39 3,24 1,89 3,88	0,23 0,49 0,04 0,48	Semi-dry Semi-dry Semi-dry Dry	1988	MTP-1, MTP-4	2,334 2,436 2,773	0,97 1,57 1,57	1988

40	PDG-1/87	Podgorje near Cmurek	46,7049	15,8330	228	57	sandy claystone	Sarmatian	1,44	0,33	Semi-dry	1988	MTP-1, MTP-4		2,192	1,51	1988
						142	sandy siltstone	Upper Badenian	1,87	0,07	Semi-dry				2,253	1,13	
						217	sandy marl or claystone		2,29	0,15	Semi-dry				2,273	1,5	
						250	conglomerate		2,20	0,04	Semi-dry				2,355	1,02	
						276	sandstone, siltstone, some marl	Badenian	2,90	0,18	Semi-dry				2,548	0,64	
						296	siltstone or lamina- ted sandstone		1,31	0,21	Dry				2,039	1,15	
						315	sandstone & pebbles or conglomerate		2,01	0,02	Dry				2,355	1,37	
						327	sandstone with marl		1,48	0,10	Dry				2,263	1,32	
						1235	carbonaceous mudstone	Upper Pontian	1,79	0,08	Semi-dry				2,192	1,01	1988
						1772	sandstone, fine-grained	Upper Pannonian- Lower Pontian	1,49	0,04	Semi-dry				2,304	1,46	
41	LJUT-1/88	Ljutomer	46,5142	16,1897	250	2386	calcareous siltstone with sandstone	Upper Pannonian	2,66	0,10	Dry	1988	MTP-1, MTP-4		2,508	1,91	
						2386	calcareous siltstone with sandstone		3,73	0,19	Saturated						
						2386	siltstone & sandstone		2,34	0,10	Semi-dry						
						2647	calcareous siltstone, sandstone		2,72	0,13	Semi-dry				2,752	1,91	
						2651	calcareous siltstone with sandstone		2,66	0,09	Semi-dry						
						2825	sandstone, fine-grained	Lower Pannonian	2,62	0,08	Dry				2,528	1,16	
						2825	sandstone, fine-grained		3,39	0,17	Saturated						
						2827	sandstone		2,75	0,13	Semi-dry						
						2830	sandstone, siltstone		2,69	0,07	Semi-dry				2,742	2,17	
						3087	siltstone, sandstone		2,72	0,24	Semi-dry						
						3293	calcareous siltstone	Sarmatian?	2,52	0,10	Semi-dry				2,773	1,82	
						3639	calcareous mudstone	Lower Badenian	2,34	0,22	Semi-dry				2,742	1,68	
						3935	calcareous siltstone	Karpatian? or Lower Badenian	3,15	0,25	Semi-dry						
						4020	silicified brecciated dolomite, dolosparite	Upper Triassic	4,01	0,47	Dry				2,773	0,66	
						4048	gneiss (biotite-sillimanite)	PreOrdovician	2,60	0,41	Dry				2,630	1,92	
42	SOB-2/88	Murska Sobota	46,6591	16,1654	190	733	sand	Pontian	1,48	0,07	Saturated	1988	MTP-1, MTP-4				
						802	marly sandstone		2,07	0,03	Semi-dry						
						854	sandstone		2,49	0,04	Semi-dry				2,243	2,07	1990
43	P-29/88	Praproče	45,5315	13,9153	422	297	limestone	Middle Eocene	2,32	0,15	Dry	1988	MTP-1, MTP-4				
						315	limestone		2,67	0,11	Dry				2,936	3,33	1990
						338	limestone		2,67	0,10	Dry						
						388	limestone	Lower Eocene	2,56	0,14	Dry						
						500	limestone		2,47	0,10	Dry						

45	ŠD-2/88	Špitalska Draga near Metlika	45,6611	15,3108	183	60 85 90 202 300 349 496 550 610	limestone limestone dolomitic limestone, limestone, breccia dolomite dolomite dolomite dolomite dolomite dolomite	Upper Jurassic Lower Jurassic Middle Triassic Middle Triassic Middle Triassic Middle Triassic Middle Triassic Middle Triassic	2,9 2,62 3,5 3,94 2,94 3,82 4,11 4,10 3,79	0,17 0,04 0,18 0,15 0,08 0,31 0,20 0,25 0,73	Dry Dry Dry Dry Dry/ fissured Dry/ fissured Dry/slightly fissured Dry/ fissured Dry	2003	MTP-1					
46	V-14/83	Vaseno	46,2180	14,6996	437	0 5 9 12	limestone clay clay clay	Upper Cretaceous Quaternary Quaternary Quaternary	2,85 1,15 1,12 1,45	0,12 0,16 0,45 0,55	Dry Saturated Saturated Saturated	1983	MTP-1					
47	V-2/79	Avber near Sežana	45,7764	13,8616	232	1360	sandstone (laminated)	Lower Pontian	2,24	0,17	Dry	1986	MTP-1, MTP-4					
48	ČV-1/86	Črna vas near Ljubljana	46,0142	14,5136	288	1365 1628 1628 1642 1704 1704	sandstone sandstone sandstone & siltstone sandstone & siltstone marly siltstone sandstone & siltstone sandstone & siltstone	Upper Pannonian or Lower Pontian Upper Pannonian or Lower Pontian Upper or Lower Pannonian Upper or Lower Pannonian	2,03 2,61 3,05 2,19 2,01 2,74	0,10 0,15 0,04 0,28 0,10 0,08	Dry Dry Saturated Dry Dry Saturated	1986	MTP-1, MTP-4					
51	Pg-7/88	Petišovci	46,5375	16,4849	158	1710 1710 2136 2136 2144 2412 2418 2779 2973	sandstone sandstone sandstone & siltstone sandstone & siltstone sandstone, marl and siltstone sandstone with mica siltstone & sandstone sandstone & siltstone sandstone & siltstone	Sarmatian Sarmatian Sarmatian or Badenian Badenian Lower Badenian Badenian or Karpatian	2,21 3,27 2,97 3,7 2,6 3,77 3,29 4,03 3,36	0,13 0,20 0,20 0,16 0,18 0,50 0,38 0,43 0,19	Dry Saturated Dry Saturated Dry Saturated Semi-dry Semi-dry Semi-dry Semi-dry	1988- 1989	MTP-1, MTP-4					

52	DOK-1/88	Dokležovje	46,5984	16,1826	182	1348	sandstone with marl	Middle Badenian	2,21	0,04	Dry	1988		
						1539	sandstone		2,56	0,14	Semi-dry			
						1667	sandstone		2,57	0,24	Semi-dry			
						1670	silty marl with sandstone		2,31	0,19	Dry			
						1731	greenschist (sericite-chlorite)		2,97	0,21	Dry			
1933	eclogite	2,35	0,11	Dry	MTP-1, MTP-4	1988								
2063	sandstone	2,41	0,05	Semi-dry										
2595	silty marl & sandstone	2,52	0,10	Semi-dry										
2730	sandstone & siltstone	2,79	0,14	Semi-dry										
3266	silty marl	2,44	0,07	Semi-dry										
53	Mg-6/85	Murski gozd	46,4985	16,5216	155	3358	silty marl	Lower Badenian	2,53	0,07	Semi-dry	1985		
						3448	calcitic silty marl		2,02	0,23	Semi-dry			
						203	sandstone, fine grained		3,14	0,28	Dry			
						351	silty shale with quartz		2,41	0,27	Dry			
						651	sandstone, fine-grained		2,72	0,35	Dry			
54	LK-1/89	Nadgorica near Ljubljana	46,0889	14,5630	279	717	shale with quartz veins	Carboniferous	2,35	0,31	Dry	1990		
						943	siltstone or sandstone, quartz veins		2,93	0,10	Dry			
						1038	silty claystone		3,48	0,24	Dry			
						1194	silty claystone or siltstone		3,29	0,65	Dry			
						1363	silty claystone or siltstone		3,60	0,26	Dry			
1471	silty claystone or clayey siltstone	3,37	0,22	Dry	MTP-4, MTP-1	1989								
1649	silty claystone	3,30	0,28	Dry										
319	graphitic schist	2,87	0,08	Dry			TCS	2007						
320	graphitic schist													
591	amphibolitic schist with marble	2,65	0,36	Dry					MTP-1, MTP-4	1990				
998	chloritic biotite schist (diopside)	2,84	0,54	Dry										
306	limestone	2,70	0,18	Dry	MTP-1, MTP-4	1987								
355	limestone	2,62	0,08	Dry										
450	limestone	3,33	0,40	Dry			1988							
56	P-27/87	Podpeč near Rižana	45,5189	13,9084				305						

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	
61	Holes in the western tunnel tube wall	Karavanke Highway Tunnel	46,4678	13,9967	1143* 390	90	dolomitic limestone		3,62	0,48	Semi-dry	1987- 1988	MTP-1, MTP-4		2,793	0,66	1988- 1990
						115	limestone & dolomite	Lower Triassic	3,02	0,11	Dry/ fissured						
						160	limestone		2,65	0,19	Semi-dry				2,742	0,68	
						270	dolomite	Anisian	4,00	0,17	Semi-dry				2,844	0,62	
						285	red silty dolomite		3,87	0,21	Semi-dry						
						285	grey dolomite	Lower Triassic	3,26	0,19	Semi-dry						
						340	dolomite and siltsto- ne with gypsum		2,40	0,08	Semi-dry				2,814	1,85	
						350	black dolomite	Upper Permian?	3,85	0,36	Semi-dry				2,854	1,47	
						354	calclitic breccia	Middle Permian?	2,25	0,50	Semi-dry						
						378	dolomite with calcite	Middle Permian-Triassic	4,88	0,48	Semi-dry				2,854	0,69	
						430	dolomitic breccia & conglomerate	Middle Permian	3,44	0,54	Semi-dry				2,691	0,72	
						496	dolomitic conglome- rate with sandstone	Upper Carboniferous -Lower Permian	4,13	0,60	Dry/partly crumbled				2,620	0,42	
						502	black claystone with calcite	Carboniferous - Permian	1,71	0,10	Dry/partly crumbled				2,09	1,75	
						525	sandstone, siltstone	Upper Carbon. -Lower Permian	2,18	0,11	Semi-dry				2,773	2,27	
						544	siltstone, sandstone, limestone								2,691	2,22	
						575	calcarenite	Upper Carboniferous	2,84	0,16	Semi-dry						
						590	siltstone, claystone, clay		1,60	0,24	Semi-dry				2,732	2,53	
						688	silty (?) limestone		3,29	0,19	Semi-dry				2,732	2,11	
63	P-8r/86	Družmirje near Velenje	46,3846	15,0697	380	356	carbonate pebble sandstone		2,46	0,94	Saturated	1986	MTP-4				
						357	gravel silty sand		1,01	0,06	Sat./partly crumbled						
						366	claystone with sand & pebbles		1,46	0,36	Saturated						
						367	silt with sand, clay & pebbles	Pliocene	1,33	0,37	Saturated						
						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	pinky red sandstone or siltstone	Middle Permian	2,89	0,24	Semi-dry	1989	MTP-4, MTP-1		2,882	2,57	1990
						153	grey sandstone		3,28	0,22	Semi-dry						
						355	grey sandstone		3,31	0,92	Semi-dry				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	
67	TB-1/89	Ljubljana, Regional waste center	46,0192	14,4789	288	152	dolomite	Triassic	3,99	0,49	Semi-dry	1989	MTP-4				
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				
70	MT-1/89	Mokrice	45,8619	15,6801	152	96	dolomite	Triassic	3,64	0,95	Dry/partly crumbled	1989	MTP-1, MTP-4				
72	TB-3/89	Ljubljana marsh, Curnovec creek	46,0196	14,4612	293	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		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						
77	SG-1/89	Slovenj Gradec	46,4942	15,0836	436	85	clay & sand	Pliocene	2,28	0,10	Saturated	1989	MTP-1, MTP-4				
78	DRN-1/89	Drnovo	45,9139	15,5056	150	195	carbonaceous silt & grey-brown clay	Lower Pliocene	1,68	0,45	Saturated	1989-1990	MTP-1, MTP-4				1990
						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%)	Ottngian	2,23	0,07	Saturated				2,262	1,27	
						806	silty clay, silt	Ottngian	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	marl	Middle Eocene	2,29	0,15	Semi-dry	1990-1991	MTP-1, MTP-4				
						405	marly limestone				Semi-dry						
						533	marly limestone				Semi-dry						
						549	marly limestone				Semi-dry						
						583	limestone							2,699	0,58		1995
						584	limestone	Paleocene	2,47	0,03	Semi-dry						
						606	limestone		2,53	0,18	Semi-dry						
						632	limestone, marly limestone		2,08	0,18	Semi-dry						
						180	limestone	Lower Cretaceous	2,86	0,14	Semi-dry	1990	MTP-1, MTP-4				
						220	limestone		2,96	0,15	Semi-dry			2,723	n.d.		
82	MB-1/90	Maribor	46,5357	15,6836	256	19	sandy marl	Miocene	2,14	0,44	Saturated	1990	MTP-4		2,280	n.d.	
86	Holes in the tunnel tube wall	Debeli hrib Tunnel, Ljubljana	46,0091	14,5659	337* 170	47	siltstone with sandstone	Perno-Carboniferous	2,12	0,17	Semi-dry	1990	MTP-1, MTP-4		2,776	2,76	1990
						49	siltstone with sandstone		2,22	0,26	Sat. / perp. to bedding						
						49,3	siltstone with sandstone		3,01	0,16	Sat. / paral. to bedding						
						154	sandy marl		2,05	0,12	Saturated						
						353	marl		2,05	0,20	Semi-dry			2,475	1,05		
87	MB-1/91	Maribor	46,5356	15,6855	256	624	siltstone with sandstone	Karpatian?	2,51	0,31	Semi-dry	1990-1991	MTP-1, MTP-4		2,578	0,82	1992
						801	granat-muscovite gneiss, tectonized		4,60	0,52	Dry			2,951	2,17		
						945	muscovite gneiss with granats		3,88	0,34	Dry			2,950	2,29		
						1331	granat-muscovite-biotite gneiss		3,05	0,31	Dry			3,042	2,37		
						65	clay (light brown)		1,21	0,30	Saturated						
88	PB-5/90	Ljubljana marsh, Curnovec creek	46,0201	14,4633	292	71	peat (black organic clay)	Pleistocene	0,79	0,03	Saturated	1990	MTP-1, MTP-4				
						127	silty sandy clay		1,70	0,28	Saturated						
						155	clay (dark grey)		1,60	0,06	Saturated						
						163	clay (red)		1,42	0,03	Saturated						
						361	tuffaceous breccia and sandstone		1,32	0,16	Semi-dry			1,800	n.d.		
90	ŽT-1/91	Žalec	46,2561	15,1584	259	654	silty marl (or sandstone)	Oligocene	1,69	0,26	Semi-dry	1990-1991	MTP-1, MTP-4		2,332	1,24	1992
						1100	calcarene=limy tuffac. sandstone	Middle Triassic: Ladinian	3,03	0,22	Semi-dry				2,943	0,47	
						1499	keratophyre (alkali-albit trachyte)	Middle Triassic: Anisian	2,66	0,21	Semi-dry				2,922	2,97	

91	Tr-3/90	Rogaška Slatina	46,2235	15,6429	216	0	sandstone	Otnangian-Karpatian	2,46	0,60	Dry	1990	MTP-1, MTP-4				
						228	sandstone with tuff		2,3	0,85	Dry						
92	PB-4/89	Ljubljana, Kolesarja	46,0421	14,4926	292	88	quartz sandstone	Perno-Carboniferous	2,94	0,52	Semi-dry	1991					
						1086	marly siltstone		2,35	0,19	Semi-dry						
98	PEČ-1/91	Pečarovi	46,7402	16,1361	234	1193	marly siltstone	Sarmatian or Badenian	2,06	0,17	Saturated		MTP-4, MTP-1				
						1211	sandstone with siltstone		2,68	0,35	Sat./paral. to bedding						
						1212	sandstone, slightly marly	1,92	0,17	Dry				2,380	1,81		
						1920	dolomite	3,66	0,13	Dry				3,028	1,00	1992	
						2001	dolomite breccia with pyrites	3,40	0,51	Dry				2,752	2,27		
						120	dolomite with calcite veins	4,66	0,54	Dry	1991	MTP-4, MTP-1					
99	VG-1/90	Grčarevec	45,8749	14,2105	490	81	limestone	Eocene	2,16	0,12	Semi-dry	1991	MTP-4, MTP-1				
						150	marly limestone		2,43	0,24	Semi-dry						
102	D-2/90	Dragonja	45,4474	13,6812	24	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	MTP-4, MTP-1				
						1237	sandstone		2,52	0,40	Saturated						
						1314	sandstone	4,44	0,23	Saturated							
						99	clay with quartz pebbles	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				
122	RT-1/92	Rogaška Slatina	46,2286	15,6372	221	610	marly clay	Oligocene – Upper Egerian	1,57	0,08	Saturated		MTP-4, MTP-1		2,452	n.d.	
						1035	arkose sandstone	Oligocene – Lower Egerian	2,19	0,23	Semi-dry				1,28		
						1206	marl		1,52	0,06	Sat./fissur.	1992-1993			2,696	1,28	
						1412	tecton. sandstone, black mudstone	Middle Triassic	2,32	0,56	Semi-dry			2,713	1,72		
						1700	shale with quartz pebbles, pyrites	Perno-Carboniferous	2,09	0,25	Dry/partly crumbled			2,750	1,98		

123	KA-1/92	Dragonja	45,4445	13,6796	25	80	limestone	Paleocene-Eocene	2,56	0,10	Dry	1993	MTP-4				
						86	limestone		2,56	0,07	Dry						
						89	limestone		2,57	0,10	Dry						
						97	limestone with claystone		2,35	0,14	Dry						
						100	claystone with limestone pebbles	Paleocene	1,86	0,22	Dry						
						109	limestone with claystone		2,34	0,47	Dry						
						111	limestone, karstified		3,01	0,07	Dry						
						120	limestone		2,74	0,21	Dry						
						123	limestone		2,74	0,07	Dry						
						129	limestone		2,95	0,17	Dry						
124	P-120/92	Družmirje near Valenje	46,3800	15,0672	373	133	limestone	Upper Cretaceous	2,57	0,24	Dry	1992-1993	MTP-1, MTP-4				
						141	limestone		2,78	0,31	Dry						
						402	limestone (Hyppurites)		2,28	0,11	Dry						
						403	limestone		2,20	0,38	Dry						
						758	mica sandstone and siltstone	Eggenburgian	1,67	0,25	Semi-dry						
						772	silty sandstone		2,12	0,22	Saturated						
						881	mica siltstone, sandstone		2,02	0,22	Saturated						
						966	sandy siltstone	Eggenburgian?	1,74	0,15	Semi-dry			2,552	1,10		
						1168	marly siltstone	Oligocene-Miocene: Egerian	2,27	0,32	Semi-dry						
						1375	mica siltstone, silty marlstone		2,23	0,19	Saturated						
125	ČV-1/91	Družmirje near Valenje	46,3800	15,0672	373	1422	andesitic tuffaceous breccia	Egerian	1,89	0,13	Dry	1995	MTP-1, MTP-4				
						1425	andesitic tuffaceous breccia							2,693	0,77		
						1426	andesitic tuffaceous breccia		2,17	0,06	Dry						
						1528	black siltstone		2,17	0,10	Dry						
						1529	siltstone		1,84	0,06	Dry			2,749	1,57		
						1600	andesitic tuff (breccia)							2,656	1,17		
						1602	andesitic tuff (breccia)		2,25	0,18	Dry						
						221	limy marlstone and claystone	Upper Cretaceous	2,70	0,14	Semi-dry			2,931	1,50		1992
						824	sand	Pontian	2,34	0,21	Saturated						
						825	sand		2,19	0,14	Saturated						
128	Mt-7/93	Moravske Toplice	46,6804	16,2229	186							1993	MTP-4				

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						
155	Sre-1/91	Središče	46,7674	16,3240	229	2431	sandstone w. mica	Badenian	2,56	0,50	Semi-dry	1993	MTP-1, MTP-4				
						2434	sandstone w. mica		1,88	0,67	Semi-dry						
						2438	silty marlstone, mudstone?		2,58	0,10	Semi-dry						
						2439	sandstone w. mica		1,73	0,32	Semi-dry						
162	R-14/93	Podračje near Hrastovlje	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)	Upper Cretaceous	2,65	0,19	Semi-dry						
						798	limestone (shell)		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				
						602	calcareous siltstone		2,35	0,07	Dry						
233	PC-3/84	Topolšica	46,3939	15,0240	378	195	claystone	Pliocene	1,29	0,45	Saturated	1986	MTP-4				
247	PI-3/84	Šoštanj-Metleče	46,3847	15,0378	359	303	claystone	Pliocene	1,31	0,17	Saturated	1986	MTP-4				
						300	mica siltstone and sandstone	Lower Oligocene	2,84	0,06	Semi-dry	2019	TCS				0,94
						301	mica siltstone and sandstone		2,85	0,15	Semi-dry						0,60
252	Ng-1/18	Spodnje Ngonje	46,2450	15,6172	268	508	siltstone with ande-sitic tuff		3,06	0,09	Semi-dry						0,94
						509	siltstone with ande-sitic tuff		2,99	0,09	Semi-dry						1,11
275	S-1j/83	Leženj	46,3880	15,0838	460	386	sandy clay	Pliocene	2,01	0,25	Saturated	1986	MTP-4				
						302	lignite		0,58	0,15	Semi-dry						
						320	lignite		0,97	0,60	Semi-dry						
276	P-2n/86	Gaberke	46,3883	15,0791	404	325	lignite	Pliocene	0,59	0,16	Semi-dry	1986	MTP-1, MTP-4				
						345	lignite		1,34	0,22	Semi-dry						
						348	lignite		0,78	0,20	Semi-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						
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	Lower Oligocene	2,34	0,18	Dry	2007	TCS				
						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						
282	J-1g/05	Velenje lake, Restaurant Jezero	46,3689	15,0929	370	2145	siltst. or mudstone		2,16	0,07	Dry						
						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						
283	PI-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	Krnačina near Drašči	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	Mala 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	Lower Badenian	2,81	0,18	Dry			1,38		
443	Pg-5/87	Petišovci	46,5365	16,4746	158	3247	siltstone with mica	Karpadian	2,25	0,15	Dry	2020	TCS	1,15		
						3323	siltstone or sandstone, mica		2,19	0,30	Dry			1,09		
						1819	sandstone		3,07	0,32	Semi-dry					
						2053	sandstone and siltstone		2,81	0,31	Saturated					
444	Pg-9/89	Petišovci	46,5422	16,4955	160	2443	sandstone	Badenian	3,9	0,47	Semi-dry	1991	MTP-4, MTP-1			
						3008	marly siltstone	Badenian or Karpadian	3,21	0,33	Saturated					

482	TVPG-1/07	Pusti Gradec	45,5187	15,1944	152	75	limestone	Lower Cretaceous	2,82	0,10	Dry	2019	TCS	1,02			
						697	dolomitic breccia		3,74	0,37	Semi-dry						
						698	dolomitic breccia		3,85	0,23	Semi-dry						
						698	dolomitic breccia		4,31	0,18	Semi-dry						
					152	699	dolomitic breccia	Upper Jurassic	4,34	0,22	Semi-dry	2007	TCS				
						699	dolomitic breccia		4,60	0,20	Semi-dry						
						699	dolomitic breccia		3,52	0,42	Semi-dry						
						700	dolomitic breccia		4,24	0,42	Semi-dry						
						700	dolomitic breccia		4,06	0,33	Semi-dry						
486	TVM-2/08	Medvode	46,1415	14,4045	316	350	silt (siltstone)		3,83	0,14	Saturated						
						803	silt	Oligocene	1,42	0,10	Dry/ crumbled	2009	TCS				
515	Re-1g/11	Renkovci	46,6308	16,2952	174	1484	poorly quartz sandstone	Pontian	2,40	0,11	Saturated	2012	TCS				
						1485	poorly quartz sandstone		2,48	0,12	Saturated						
						718	calcareous clayey siltstone	Pontian	2,4	0,10	Saturated						
						719	calcareous clayey siltstone		2,54	0,17	Saturated						
516	SOB-3g/12	Murska Sobota	46,6669	16,1454	191	1108	gneiss, w. quartz - calcite veins	Paleozoic	3,32	0,70	Dry	2012	TCS				
						1109	gneiss, w. quartz - calcite veins		3,34	0,29	Dry						
						1484	gneiss, with quartz	Paleozoic or PreCambrian	2,90	0,32	Dry						
						814	poorly quartz sandstone w. mica	Pontian	2,1	0,08	Semi-dry						
517	SOB-4g/13	Murska Sobota	46,6657	16,1604	191	815	poorly quartz sandstone w. mica		1,96	0,11	Semi-dry	2014	TCS				
						1197	mudstone (sandy siltstone)	Lower Pannonian	2,15	0,09	Semi-dry						
						1198	mudstone (sandy siltstone)		1,92	0,13	Semi-dry						
530	Niko-1/08	Nuskova	46,8133	16,0276	237	45	lithotamnian limestone	Badenian or Sarmatian	1,61	0,07	Saturated	2008	TCS				
						48	lithotamnian limestone	Badenian or Sarmatian	1,58	0,06	Saturated						
535	D-1/71	Drevenik	46,2714	15,5855	415	17,5	breccia limestone	Permian	2,73	0,08	Dry	2008	TCS				
						24,8	breccia limestone		2,89	0,08	Dry		MTP-4				
544	D-2/05	Mirna na Dolenjskem	45,9527	15,0673	245	148	dolomite	Middle Triassic: Ladinian	4,42	0,62	Semi-dry	2005	MTP-4, MTP-1				
						15	clay		1,42	0,10	Saturated						0,45
550	CZ-5/20	Ljubljana, Trnovo	46,0429	14,4985	292	17	peat with clay	Quaternary	0,87	0,08	Semi-dry	2020	TCS				0,22
						18	peat with clay		1,25	0,09	Saturated						0,33

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					
556	ZDD-RV-3/21	Domžale	46,1431	14,5911	299	26	clay with gravel	Q: Pleistocene	1,71	0,00	Semi-dry	2021	TCS	KD2Pro				
						27	clay with gravel		1,91	0,12	Semi-dry			0,48				
						29	black micritic limestone, black claystone		2,27	0,18	Semi-dry			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							
557	PŠ-3/91	Ljubljana, Sentvid-Pržan	46,0946	14,4611	401	90	quartz silty sandstone	Permo-Carboniferous	3,60	0,29	Dry	1991	MTP-1, MTP-4	2,834	n.d.			
						95	silty shale, black		2,86	0,19	Dry							
						60	silty shale		2,71	0,30	Dry			1991	MTP-4	2,758	n.d.	
						108	sandy clay with some pebbles		1,32	0,09	Saturated			1987	MTP-4, MTP-1			
559	V-46/87	Kanižarica, Eastern coal-mine field	45,5517	15,1913	178	163	limestone	Lower Cretaceous	2,61	0,14	Semi-dry	1990	MTP-4, MTP-1					
						111	cizlakite (intrusive of gabbro group)		2,86	0,16	Dry			2,701	n.d.			
560	C-2/82	Cezlak, Pohorje	46,4231	15,4350	649	23,4	tonalite	Oligocene	2,56	0,12	Dry	1990	MTP-4					
561	C-8/83	Cezlak, Pohorje	46,4226	15,4337	634	217	andesite	Oligocene?	2,54	0,16	Dry	1990	MTP-4					
562	V-6/67	Rogaška Slatina	46,2405	15,6399	231	223	andesite with pyrite & tuff	Upper Oligocene	3,21	0,28	Dry	1990-1991	MTP-1, MTP-4					
563	RGS-2/90	Rogaška Slatina	46,2406	15,6399	231	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							
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													
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	Ottangian - 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, Rošpol 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	Ottangian - 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 Črna/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 Čelje	46,1931	15,3940	291	0	keratophyre	Middle Triassic: Ladinian?	2,72		Dry		MTP-4				
24	along the road Drasici- Krnjačina	45,6688	15,3759	181	0	carbonate sandstone, calcarene, calcutite	Upper Cretaceous	2,58		Dry	2003	MTP-1				
25	Krnjačina, 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	sparite 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)sparitic 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 Češnjača	46,2888	14,2073	638	0	claystone	Lower Cretaceous	2,95	0,12	Dry	1986	MTP-4, MTP-1				

Surf. No.	Sample label	Surface rock samples - The "GRETA project" - INTERREG Alpine Space Programme												
		The town of Cerklje and the surrounding area												
36	Ko-1_ab	Košec homestead	46,1292	13,9810	374	0	dolomite	Lower Triassic	3,76	0,19	Dry	2016-2017	TCS	1,36
37	Lab-2	Magajna farm	46,1341	13,9958	420	0	dolomite		5,60	0,20	Dry			1,34
38	Hom-1	W of the Homec hill	46,1375	13,9947	573	0	dolomite	Middle Triassic: Anisian	5,33	0,08	Dry			-
39	Hot-1_ab	Hotel Cerklje	46,1277	13,9885	317	0	limestone, slightly dolomitized	Lower Triassic	3,03	0,10	Dry			1,02
40	Ra-1	Rače, along the creek	46,1284	13,9784	353	0	limestone		2,65	0,10	Dry			1,18
41	Ra-2_a		46,1274	13,9800	334	0	limestone		2,63	0,22	Dry			1,15
42	Ra-2_b		46,1274	13,9800	334	0	marlstone to limestone, tecton.		1,97	0,30	Dry			1,00
43	Sw1-1_a	Sv. Jernej, Pot v Celu	46,1266	13,9811	325	0	limestone	Upper Permian	2,36	0,25	Dry			0,97
44	Sw1-1_b		46,1266	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 Labinje	46,1321	13,9946	364	0	limestone, tectonized	Lower Triassic	2,51	0,11	Dry			0,96
46	Lab-3	to the Mill, Labinje	46,1366	13,9939	531	0	marly limestone		2,82	0,12	Dry			0,90
47	Hom-2	Homec hill	46,1391	13,9970	637	0	black limestone	Middle Triassic: Ladinian	2,96	0,07	Dry			-
48	Mak-1	Maketon homestead	46,1416	13,9776	437	0	sericitized lithoc-rystalline tuff		3,18	0,19	Dry			1,36
49	Mak-2_ab	Maketon homestead	46,1332	13,9780	464	0	hydrothermally altered keratophytic and porphyritic tuff		4,04	0,13	Dry			1,60
50	St-1_ab	Strana	46,1252	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	46,1302	13,9891	344	0	siltstone to mudstone	Upper Triassic: Carnian (Amphicl.)	1,95	0,15	Semi-dry			1,23
52	B-1_a		46,1302	13,9891	344	0	sandstone		2,75	0,24	Semi-dry			1,09
53	Kc-1_def	Kacan homestead	46,1278	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	46,1255	13,9846	326	0	quartz conglomerate		4,83	0,25	Semi-dry			1,87
55	Mlin-1_abcd		46,1253	13,9839	316	0	quartz sandstone w. conglomerate		3,91	0,14	Semi-dry			1,88

[illegible]

76	35ab	ESE of Mali Vrh at Prežanje, S of Veliko Trebejevo	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 Zgornja Slivnica	45,9893	14,6403	484	0	limestone (a bit tuffaceous)		2,73	0,05	Semi-dry				0,98		
78	40bc		45,9893	14,6403	484	0	tuffite		1,73	0,07	Semi-dry				0,56		
79	40d		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	Schlern 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 Trebejevo, on open meadow	46,0208	14,7410	569	0	dolomitic marlstone & marly dolomite		3,19	0,13	Semi-dry				1,42		
87	36a	Malo Trebejevo (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 Sostro	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	at the bridge	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															
115	4	Ljubljana, Zalog, at the GLS building	46,0739	14,6109	283	0	clay, sand & silt	Holocene	1,81	Semi-dry	2017	KD2Pro					
116	5	Ljubljana, Spodnji Kašeli, S of Sv. Andrej church	46,0542	14,6167	269	0	gravel & sand (younger backfillings)	Holocene & Pleistocene	0,76	Semi-dry							
117	6	Ljubljana, Tabor, S of the Health Center	46,0559	14,5156	296	0	gravel, sand, silt & soil	Holocene	1,38	Saturated			0,46	0,999			
118	7a	Ljubljana, Jarški prod, S of Črnuče industr. zone	46,0840	14,5447	278	0	sand & plant residues		1,18	Semi-dry			0,53				
119	7b		46,0840	14,5447	277	0	river sand		1,41	Saturated			0,42	1,001			
120	8	Ljubljana, Smartno, 300 m E of the football field	46,0812	14,5619	278	0	gravel, sand & silt		1,21	Semi-dry			0,38	0,999			
121	16	Ljubljana Moor, Iška Loka, Ložca creek	45,9745	14,5165	290	0	peat		1,01	Saturated			0,26	1,000			
122	17	Ljubljana Moor, Podkraj - Strahomer	45,9768	14,4700	289	0	peat		0,75	Semi-dry							
123	29	Šentvid, Dvor - Stanežiče sand pit & separation	46,1121	14,4441	311	0	gravel & sand (younger backfillings)	Pleistocene	1,34	Semi-dry							
124	30	Ljubljana, Kleče, Urške Zatlerjeve street	46,0935	14,4969	307	0	Silty clay (younger gravel backfillings)	Pleistocene	1,79	Semi-dry			0,60	1,000			
125	32	Ljubljana, Torkarjeva street	46,0642	14,5318	296	0	gravel & sand (younger gravel backfillings)	Pleistocene	0,63	Dry							
126	33	Ljubljana, Jarše, Orehov Gaj	46,0802	14,5497	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	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	TCS
127	S1												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	Pirešica 18d near Velenje	46,3434	15,1603	395	0	quartz sandstone, fine-grained	Oligocene	3,73	0,26	Dry	2022	TCS
137	T1												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

Rock samples from very shallow boreholes – Multi-year project: Geothermal maps of Slovenia																		
Surf. No.	Shallow hole name	Josipdol on Pohorje Mt.	46,5177	15,2892	771	5	tonalite	Paleogene										
147	PG1	Josipdol on Pohorje Mt.	46,5177	15,2892	771	5	tonalite	Paleogene										
148	K-1	Stranice Quarry, Slov. Konjice	46,3696	15,3582	638	1	limestone	Upper Cretaceous	2,97		Dry	1987	MTP-1, MTP-4				2,930	3,2
149	K-2	Pečevje, Štrikla creek, Slov. Konjice	46,3834	15,3468	522	1	limestone	Cretaceous	2,90		Dry							
150	K-3	Brinjeva Gora, Slovenske Konjice	46,3767	15,4065	621	1	limestone, hydrometamorph.		2,48		Dry/fissured							
151	K-4		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
153	J-2		46,5132	15,2797	948	1	tonalite										2,677	2,13
154	T-1	Javorič	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

surface rock samples - Research for Heat-Flow modelling of the Lake Bled area																		
Surf. No.																		
160		Bled, W of the Lake Bled	46,3650	14,0830	547	0	massive dolomite, with oncoids & stromatolites	Middle Triassic: Anisian	3,27		0,13	Dry	2019	TCS			1,38	
									3,71		0,10	Sat-t					1,38	
161		Bohinjska 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	
									4,48		0,19	Sat-t					1,50	
164		Krnica 63, SW of Apartment Natur	46,3720	14,0550	676	0	dolomitic breccia	Middle Triassic: Ladinian	3,97		0,21	Dry					1,65	
									4,55		0,16	Sat-t					1,48	
165		Poljšica pri Gorjah, 1.7 km W of Velika Zaka	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			Dry	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			Semi-dry	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			Dry	perp. to bedding	2,62	
						758	mica sandstone and siltstone	Eggenburgian	Saturated	parallel to bedding	2,11	1,72
						758			Dry	perp. to bedding	1,23	
						772	silty sandstone	Eggenburgian	Saturated	parallel to bedding	2,17	1,05
						772			Saturated	perp. to bedding	2,07	
124	P-12o/92	Družmirje near Velenje	46,3800	15,0672	373	881	mica siltstone, sandstone	Eggenburgian	Saturated	parallel to bedding	1,99	0,97
						881			Saturated	perp. to bedding	2,05	
						966	sandy siltstone	Eggenburgian?	Saturated	parallel to bedding	2,15	1,62
						966			Dry	perp. to bedding	1,33	
						1931	marly siltstone	Lower Pontian?	Semi-dry	parallel to bedding	1,71	2,14
						1931			Semi-dry	perp. to bedding	0,80	
148	Mrt-1/93	Sveti Martin, Kobilje breg	46,6606	16,3834	173	2096	marly siltstone	Lower Pontian?	Semi-dry	parallel to bedding	2,42	1,03
						2096			Semi-dry	perp. to bedding	2,34	
						524	marl, calcareous marl (claystone?)	Middle Eocene	Dry / fissured	parallel to bedding	2,31	1,41
						524			Dry / fissured	perp. to bedding	1,64	
169	ŠE-1/94	Šempeter near Gorica	45,9216	13,6326	68	525	silty (calcareous) marl or shale	Middle Eocene	Dry / fissured	parallel to bedding	2,39	1,13
						525			Dry / fissured	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			Saturated	perp. to bedding	2,56	