Appendix

Table A1. MFC2 sub-catchment: percentages of sand, silt, and clay contents, together with the corresponding USDA soil textural classes at the two soil depths (0.15 m and 0.30 m) of the 20 positions of SoilNet end-devices. Soil bulk density (ρ_b) and porosity are reported at the soil depth of 0.15 m.

	MFC2									
	z=0.15 m						z=0.30 m			
SoilNet unit	sand	silt	clay	USDA class	ρ_b	porosity	sand	silt	clay	USDA class
	%	%	%		g cm^{-3}	m^3 m^{-3}	%	%	%	
1	14.97	46.04	38.99	silty clay loam	1.27	0.52	10.58	42.72	46.70	silty clay
2	14.55	49.80	35.65	silty clay loam	1.22	0.54	12.55	51.03	36.42	silty clay loam
3	17.10	47.54	35.36	silty clay loam	1.35	0.49	13.85	46.46	39.69	silty clay loam
4	34.43	33.24	32.33	clay loam	1.36	0.49	36.45	33.76	29.79	clay loam
5	17.57	36.33	46.10	clay	1.20	0.55	18.10	37.84	44.06	clay
6	21.30	42.34	36.36	clay loam	1.19	0.55	21.88	42.55	35.57	clay loam
7	14.17	49.41	36.42	silty clay loam	1.33	0.50	19.47	45.12	35.41	silty clay loam
8	17.37	51.34	31.29	silty clay loam	1.34	0.50	22.20	47.00	30.80	clay loam
9	17.80	49.39	32.81	silty clay loam	1.41	0.47	18.08	50.21	31.71	silty clay loam
10	32.00	32.64	35.36	clay loam	1.43	0.46	38.80	47.05	14.15	loam
11	23.00	35.05	41.95	clay	1.26	0.52	20.10	37.43	42.47	clay
12	12.95	34.21	52.84	clay	1.19	0.55	14.08	34.38	51.54	clay
13	16.82	41.96	41.22	silty clay	1.25	0.53	23.10	37.23	39.67	clay loam
14	18.85	37.34	43.81	clay	1.27	0.52	17.80	38.92	43.28	clay
15	34.88	41.65	23.47	loam	1.18	0.55	25.88	49.37	24.75	loam
16	21.45	35.07	43.48	clay	1.40	0.47	25.32	35.54	39.14	clay loam
17	17.35	44.82	37.83	silty clay loam	1.42	0.46	17.75	51.23	31.02	silty clay loam
18	41.80	22.12	36.08	clay loam	-	-	50.57	15.55	33.88	sandy clay loam
19	10.52	43.40	46.08	silty clay	1.00	0.62	19.18	32.54	48.28	clay
20	17.82	33.51	48.67	clay	1.35	0.49	19.32	37.19	43.49	clay

Table A2. GOR1 sub-catchment: percentages of sand, silt, and clay contents, together with the corresponding USDA soil textural classes at two soil depths (0.15 m and 0.30 m) of the 20 positions of SoilNet end-devices. Oven-dry soil bulk density (ρ_b) and porosity are reported for the soil depth of 0.15 m.

GOR1										
	z=0.15 m						z=0.30 m			
SoilNet unit	sand	silt	clay	USDA class	ρ_b	porosity	sand	silt	clay	USDA class
	%	%	%		g cm^{-3}	m^3 m^{-3}	%	%	%	
1	36.25	43.25	20.50	loam	0.720	0.73	36.32	43.18	20.50	loam
2	34.95	40.08	24.97	loam	1.065	0.60	32.43	40.04	27.53	clay loam
3	31.50	49.79	18.71	loam	0.714	0.73	37.03	44.65	18.32	loam
4	35.47	41.07	23.46	loam	0.995	0.62	32.02	44.52	23.46	loam
5	35.85	40.29	23.86	loam	1.155	0.56	44.45	40.17	15.38	loam
6	37.75	45.21	17.04	loam	0.791	0.70	33.57	44.74	21.69	loam
7	45.80	35.28	18.92	loam	1.403	0.47	49.33	29.67	21.00	loam
8	38.75	34.84	26.41	loam	1.514	0.43	38.00	33.44	28.56	clay loam
9	33.02	42.37	24.61	loam	1.019	0.62	30.80	42.02	27.18	clay loam
10	36.40	43.22	20.38	loam	1.345	0.49	28.40	43.14	28.46	clay loam
11	40.65	41.79	17.56	loam	0.958	0.64	50.78	34.95	14.27	loam
12	35.07	40.99	23.94	loam	1.619	0.39	33.42	42.64	23.94	loam
13	34.70	37.53	27.77	clay loam	0.879	0.67	36.20	37.77	26.03	loam
14	44.85	31.12	24.03	loam	1.445	0.45	41.08	31.10	27.82	clay loam
15	52.95	30.58	16.47	sandy loam	1.626	0.39	54.70	28.83	16.47	sandy loam
16	40.50	39.34	20.16	loam	0.924	0.65	48.50	32.85	18.65	loam
17	47.77	35.38	16.85	loam	1.337	0.50	39.30	38.39	22.31	loam
18	53.15	26.59	20.26	sandy clay loam	1.452	0.45	46.92	31.16	21.92	loam
19	56.12	24.88	19.00	sandy loam	1.481	0.44	55.87	25.51	18.62	sandy loam
20	42.82	32.32	24.86	loam	1.194	0.55	42.93	32.62	24.45	loam