

Table S2. Relative contributions of organic C functional groups in auger samples as resolved by ^{13}C -CPMAS NMR spectroscopy; soil particle size distribution [reproduced from Esiana et al. 2021]

Sample Location	Sample Depth (cm)	% Alkyl C (0-45 ppm)	% O/N-Alkyl C (45-90 ppm)	% Anomeric C (90-110 ppm)	% Aromatic C (110-160 ppm)	% Carboxyl C (160-220 ppm)	Alkyl C to O/N-Alkyl C	Aromaticity (%)	Clay (%)	Silt (%)	Fine Sand (%)
Medieval Urban Centre											
St Andrews Trust Museum (STM)	0-20	21	15	4	50	11	1.40	55.6	3.4	51.71	33.30
	20-35	19	12	3	54	11	1.58	61.4	3.1	51.42	30.50
	35-45	20	11	3	54	12	1.82	61.4	4.8	47.13	34.70
	45-55	19	10	3	57	11	1.90	64.0	5.2	62.93	29.80
South Street (SST)	0-20	22	17	4	45	12	1.29	51.1	4.1	64.01	30.60
	20-30	20	11	3	54	11	1.82	61.4	6.0	71.01	22.50
	30-40	21	12	4	53	10	1.75	58.9	11.0	89.00	0.00
	40-50	22	15	4	48	11	1.47	53.9	10.1	89.86	0.04
St Johns Garden (SSJG)	0-20	23	17	5	43	13	1.35	48.9	-	-	-
	20-35	21	12	4	52	11	1.75	58.4	-	-	-
	35-50	18	10	3	58	11	1.80	65.2	-	-	-
	50-60	20	10	4	56	11	2.00	62.2	-	-	-
Extra Urban Site											
Buchanan Gardens (BGR)	0-20	24	19	4	42	12	1.26	47.2	6.6	68.60	24.30
	20-30	19	15	4	50	12	1.27	56.8	7.3	69.52	22.70
	30-40	20	14	5	50	12	1.43	56.2	8.4	55.64	34.60
	40-50	22	17	4	46	11	1.29	51.7	17.7	82.30	0.00

Esiana B.O.I, Coates C.J, Adderley W.P, Berns A.E, Bol R (2021) Phenoloxidase activity and organic carbon dynamics in historic Anthrosols in Scotland, UK. PLoS ONE 16(10): e0259205. <https://doi.org/10.1371/journal.pone.025920>