

APPENDIX 11C: RESULTS OF SOIL SURVEY OF THE SITE

NOT PROTECTIVELY MARKED

NOT PROTECTIVELY MARKED

APPENDIX 11C: RESULTS OF SOIL SURVEY OF THE SITE

Table 11C.1: Soil Profile Descriptions. Key to Soil Textures: ZCL = Silty clay loam; SCL = Sandy clay loam; CL = Clay loam

Location	GPS NGR	Accuracy (ft)	Site Description	Gradient (°)	Horizon	Soil depth (cm)	Description	Soil texture*	Soil Colour (Munsell)	Stoniness (%)	Soil Structure	Depth to slowly-permeable layer (SPL) (cm)
1	ST 31211 38092	13	Unmown amenity grassland	0	A	0-10	Very dry, loose, 'powdery' .	ZCL	2.5Y 5/2 mid brown	<2	Very fine granular.	38
					B1	10-38	Slightly damp, cohesive, silty polish on auger.	ZCL	2.5Y 5/2	<1	Medium sub-angular blocky.	
					B2	38 - >70	Slightly damp, stiff and cohesive.	ZCL	2.5Y 6/3	0	Medium sub-angular blocky.	
2	ST 31207 38078	14	Unmown amenity grassland	0	A	0-40	Dry, loose, not cohesive.	ZCL	2.5Y 5/2 mid brown	<2	Fine granular	40
					B	40->75	Slightly damp, cohesive, stiff.	ZCL	2.5Y 5/4	0	Poor medium subangular blocky	
3	ST 31201 38088	13	Unmown amenity grassland with annual weeds, between office buildings	0	A	0-27	Very dry, loose, not cohesive	ZCL	2.5Y 5/2 mid brown	<1	Very fine granular.	27
					B	27->60	Slightly damp, cohesive, firm to stiff. Silty polish on auger.	ZCL	2.5Y 5/3	0	None.	

NOT PROTECTIVELY MARKED

Location	GPS NGR	Accuracy (ft)	Site Description	Gradient (°)	Horizon	Soil depth (cm)	Description	Soil texture*	Soil Colour (Munsell)	Stoniness (%)	Soil Structure	Depth to slowly-permeable layer (SPL) (cm)
4	ST 31194 38081	15	Unmown amenity grassland with annual weeds, between office buildings	0	A	0-26	Very dry. Loose and crumbly.	ZCL	5Y 3/2 dark brown	<2	Good fine granular.	26
					B1	26-55	Dry, stiff, cohesive, Silty polish on auger.	ZCL	5Y 3/2	0	None	
					B2	55->90	Soft, plastic, cohesive	CL	2.5Y 6/3 pale brown	0	None	
5	ST 31183 38045	12	Unmown amenity grassland under row of lime trees	0	A	0-31	Dry, loose.	ZCL	5Y 3/2 dark brown	<1	Poor fine granular.	31
					B1	31-61	Dry, stiff.	ZCL	2.5Y 3/2	<1	None	
					B2	61->95	Dry, loose . white powdery inclusions (<5%). Sample taken for asbestos screen.	ZCL	2.5Y 3/2	<5, Medium gravel (sub angular)	None	
6	ST 31169 38041	13	Unmown amenity grassland under row of lime trees	0	A	0-27	Very dry, loose, with organic matter.	ZCL	5Y 4/1	0-3	Fine granular.	27
					B1	27-76	Very dry, very stiff, but loose and powdery when broken. Silty polish on auger.	ZCL	2.5Y 5/2	0	None	
					B2	76->100	Dry, stiff and cohesive. Silty polish on auger.	ZCL	5Y 5/3	0	None	

NOT PROTECTIVELY MARKED

Location	GPS NGR	Accuracy (ft)	Site Description	Gradient (°)	Horizon	Soil depth (cm)	Description	Soil texture*	Soil Colour (Munsell)	Stoniness (%)	Soil Structure	Depth to slowly-permeable layer (SPL) (cm)
7	ST 31159 38062	12	Unmown amenity grassland, south west corner of office block	0	A	0-28	Dry, loose, with visible organic matter.	ZCL	5Y 4/3	<1	Very good fine granular.	28
					B1	28->40	Dry, stiff, cohesive, Silty polish on auger.	ZCL	2.5Y 5/4	<1	None	
					B2	40- >70	Very stiff and cohesive.	ZCL	2.5Y 5/3 to 2.5Y 5/4	5-7% gravel <10mm	None	
8	ST 31163 38080	13	Unmown amenity grassland, west of office block	0	A	0-14	Dry, stiff, but loose when broken.	ZCL	2.5Y 5/2	<5	Fine granular.	50
					B1	14--50	Dry, cohesive, but loose when broken.	ZCL	2.5Y 5/3	<2	Poor angular blocky, breaking into fine granular	
					B2	50->80	Soft, plastic, cohesive, high polish.	ZCL	2.5Y 5/3	<1	Poor angular blocky	
9	ST 31167 38096	14	Unmown amenity grassland, west of office block	0	A	0-24	Dry and loose.	ZCL	2.5Y 3/3	0	Fine granular	24
					B1	24-80	Dry, stiff, cohesive, but loose when broken.	ZCL	2.5T 5/3	<5	Poor medium angular blocky	
					B2	80->100	Very stiff clay with fine gravel.	CL	2.5T 5/3	-	Poor medium angular blocky	

NOT PROTECTIVELY MARKED

Location	GPS NGR	Accuracy (ft)	Site Description	Gradient (°)	Horizon	Soil depth (cm)	Description	Soil texture*	Soil Colour (Munsell)	Stoniness (%)	Soil Structure	Depth to slowly-permeable layer (SPL) (cm)
10	ST 30931 37848	15	Mown amenity grass adjacent to bowling green	0	A	0-19	Dry, loose, friable.	SCL	2.5Y 3/3	0	Good fine granular.	27
					B1	19-27	Dry, stiff, cohesive, but powdery when broken	ZCL	2.5Y 5/2	2-4	Medium angular blocky.	
					B2	27->46	Very dry, Made Ground 'brick fill' with brick, coal and weathered concrete fragments	ZCL	2.5Y 5/2	10	None	
					B3	46->70	Slightly damp, very stiff clay with polish.	CL	2.5Y 5/2	<3	None	
11	ST 31059 37931	13	Mown grass east of cricket outfield	0	A	0-44	Dry, loose, friable	SCL	2.5Y 3/3	<1	Fine granular	44
					B1	44-64	Dry, loose, not cohesive, gritty feel	SCL	2.5Y 4/4	0	Medium angular blocky	
					B2	64->75	Slightly damp, loose, silty polish on auger.	ZCL	2.5Y 5/3	0	None	
12	ST 31028 37927	15	Mown grass west of cricket practice nets	0	A	0-60	Made Ground throughout, inclusions up to 20mm of brick, stone, coal etc.	N/A	N/A	10-20	N/A	N/A
13	ST 31018 37938	13	Mown grass south east of cricket crease	0	A	0-28	Very dry, loose, friable.	ZCL	2.5Y 5/3	<1	Fine, granular.	28
					B	28->80	Stiff, clayey, silty polish	CL	2.5Y 5/4	1	Fine angular blocky.	

NOT PROTECTIVELY MARKED

Location	GPS NGR	Accuracy (ft)	Site Description	Gradient (°)	Horizon	Soil depth (cm)	Description	Soil texture*	Soil Colour (Munsell)	Stoniness (%)	Soil Structure	Depth to slowly-permeable layer (SPL) (cm)
14	ST 31051 37969	15	Mown grass east of cricket crease	0	A	0-34	Very dry, loose.	ZCL	2.5Y 4/1	1-2%, fine, 2mm rounded quantzitic	Fine granular.	34
					B	31->87	Dry, stiff pale clay, silty polish	CL	2.5Y 5/2	<1	None	
15	ST 31084 37974	13	Mown grass north east of cricket pitch	0	A	0-37	Very dry, loose.	ZCL	2.5Y 5/3	1%, fine, 2mm rounded quantzitic.	Fine granular.	37
					B	37->70	Stiff, clayey, silty polish.	CL	2.5Y 5/2	<1	Fine angular blocky.	
16	ST 31046 37999	12	Mown grass in football pitch north of cricket pitch	0	A	0-19	Very dry, loose.	SCL	2.5Y 5/3	0	Fine granular.	19
					B	19->73	Stiff, clay, silty polish.	CL	2.5Y 5/2 to 2.5Y 5/4	0	Fine angular blocky.	
17	ST 30990 38009	14	Mown grass west of northern football pitch (patches of bare earth)	0	A	0-35	Very dry, loose, friable.	SCL	2.5Y 5/3	0	Fine granular.	35
					B	35->83	Slightly damp, stiff, clay, silty polish.	ZCL	2.5Y 5/2	0	Fine angular blocky	
18	ST 30954 37993	14	Mown grass west of cricket pitch	0	A	0-35	Very dry, loose, friable.	SCL	2.5Y 5/3	0	Fine granular.	35
					B	35->79	Slightly damp, stiff, clay, silty polish. Cohesive, but loose when broken.	SCL	2.5Y 5/4	0	Fine angular blocky.	

NOT PROTECTIVELY MARKED

Location	GPS NGR	Accuracy (ft)	Site Description	Gradient (°)	Horizon	Soil depth (cm)	Description	Soil texture*	Soil Colour (Munsell)	Stoniness (%)	Soil Structure	Depth to slowly-permeable layer (SPL) (cm)
19	ST 30967 37948	13	Mown grass south of southern football pitch and north of clubhouse	0	A	0-15	Very dry, loose, friable.	SCL	2.5Y 4/3	0	Very fine granular.	15
					B	15->83	Slightly damp, stiff, clay, silty polish	ZCL	2.5Y 5/3	0	Fine angular blocky.	
20	ST 30895 37755	17	At edge of mown grass in woodland south of car park	0	A	0-47	Very dry, loose, friable. Many large tree roots at 10-50cm.	SCL	10 5/2	<1	Medium granular but very hard and difficult to break up.	N/A
					B	47->65	Very dry, loose with, silty polish on auger. Made Ground with brick inclusions up to 25mm.	ZCL	5Y 4/2	>5	None	
21	ST 30877 37751	18	At edge of mown grass in woodland south of car park	0	A	0-10	Very dry, loose, friable. Many large tree roots at 10-30cm.	SCL	10 5/2	2-5	Medium granular but very hard and difficult to break up.	N/A
					B	10-35	Very dry, loose with, silty polish on auger. Many large tree roots at 30cm	ZCL	2.5Y 5/3	>5	None	

NOT PROTECTIVELY MARKED

Location	GPS NGR	Accuracy (ft)	Site Description	Gradient (°)	Horizon	Soil depth (cm)	Description	Soil texture*	Soil Colour (Munsell)	Stoniness (%)	Soil Structure	Depth to slowly-permeable layer (SPL) (cm)
22	ST 30872 37742	15	In woodland south of car park under mature poplar.	0	A	0-15	Very dry, loose, friable. Many tree roots between 10-35cm.	SCL	10Y 5/2	2-5	Medium granular.	N/A
					B	15-35	Very dry, very densely compacted with stones. Many large tree roots at 35cm	ZCL	2.5Y 5/3	>5	None	
23	ST 30869 37730	16	In woodland (ivy) south of car park under mature willow.	0	A	0-10	Very dry, loose, friable. Many tree roots between 10-45cm.	SCL	10Y 5/2	0	Medium granular.	N/A
					B	10-45	Very dry, loose, not cohesive, soil doesn't stay on auger. Multiple augerings – hit tree roots at 10, 25, 43 and 45cm.	ZCL	2.5Y 5/3	0-1	None	

NOT PROTECTIVELY MARKED

Location	GPS NGR	Accuracy (ft)	Site Description	Gradient (°)	Horizon	Soil depth (cm)	Description	Soil texture*	Soil Colour (Munsell)	Stoniness (%)	Soil Structure	Depth to slowly-permeable layer (SPL) (cm)
24	ST 30880 37738	14	In woodland (long grass) south of car park under mature willow.	0	A	0-12	Very dry, dense, becoming loose, friable. Many tree roots between 10-45cm.	SCL	2.5Y 5/2	0	Fine to medium granular.	N/A
					B	12->91	Very dry, loose, becomes stiff and more cohesive below 57cm. Silty polish on auger. Multiple augerings – hit tree roots at 21, 40 and 50cm.	ZCL	2.5Y 5/3 with mottling: 2.5Y 6/6 and 2.5Y 6/2	2-5	None	