

Appendix

This appendix includes all tables and text relating to the assessment of plant and animal remains from excavations at 12-18 Swinegate, 8 Grape Lane, and 14, 18, 20 and 22 Back Swinegate/Little Stonegate, York (YAT/Yorkshire Museum sitecodes 1989-90.28 and 1990.1).

Table A1. Numbers and types of samples from Swinegate (total 1307). Note that 1 GBA, 1 SPOT and 21 OTHER samples were mortar and do not represent material relevant to this assessment

Sample type	No. of samples taken	Sample type	No. of samples taken
GBA	945+?1	SPOT	103
GBA/SPOT	1	CS	3
BS	174	OTHER	23
SR	44	?	14

Table A2. Numbers and types of samples from Swinegate by period. Note that 1 GBA, 1 SPOT and 21 OTHER samples (numbers in parenthesis) were mortar and do not represent material relevant to this assessment.

Period	Sample type	Number taken
1 (natural deposits)	GBA	1
2 (initial use of site, including first phase of building in stone: 3rd quarter of C1)	?	2
	BS	9
	GBA	122
	OTHER	(1)
	SPOT	6
3 (second phase of building in stone; creation of 'open area': 1st half of C2)	BS	28
	CS	2
	GBA	71
	OTHER	(4)
	SPOT	7 (1)
	SRS	1
4 (continued use of Period 3 building: 2nd half C2)	BS	63
	GBA	199
	OTHER	(5)
	SPOT	3
	SRS	33
5 (Final phase of use of Period 3/4 stone building: late C3/C4)	BS	17
	GBA	52
	OTHER	(1)
	SPOT	1
	SRS	5
6 (demolition: C11/12)	BS	2
	GBA	8
	SPOT	1
7 (burials: C11-12)	?	1
	BS	3

Period	Sample type	Number taken
	GBA	47
	OTHER	1
	SPOT	43
8 (site-wide accumulation, evidence for cultivation, and demise of cemetery: C11/12)	BS	4
	CS	1
	GBA	28
	SPOT	8
9 (division of site into separate tenements and associated organic accumulation: late C11/12)	?	1
	BS	21
	GBA	43
	SPOT	9
10 (further organic accumulation: C12/13)	BS	10
	GBA	35
	SPOT	7
11 (further organic accumulation and buildings at street frontage: C13-C14)	BS	5
	GBA	150
	GBA/SPOT	1
	OTHER	(3)
	SPOT	5
12 (continued organic accumulation: C14-C15)	BS	3
	GBA	29
	SPOT	1
13 (machine clearance; C16-modern)	GBA	8
	SPOT	1
Undated (Areas 1 and 4; late medieval and later only)	?	2
	BS	9
	GBA	152(1)
	OTHER	8(7)
	SPOT	10

Period	Sample type	Number taken
	SRS	5

Table A3. Numbers of samples (of all kinds) by period and area.

Period	Area	No. samples	Period	Area	No. samples	
1	2	1	8	2	4	
	2	32		3	23	
	3	84		6	1	
2	5	25		7	1	
	2	62		8	1	
	3	28		9	8	
	4	5		11	2	
	5	5		15	1	
3	9	13		9	2	2
	2	195			3	53
	3	53			6	7
	5	5			7	2
	9	34			9	8
4	12	16			10	1
	2	3			12	1
	3	55	10		2	2
	4	10			3	36
	5	1			6	6
6	3	7		8		
7	3	11		2	13	
12	1		3	111		
5	2		10	6	25	
	9		1	7	15	
6	3		53	12	2	32
	5	10	7		1	
	7	2	13	3	6	
	8	9		6	2	
	11	5		7	1	

Period	Area	No. samples	Period	Area	No. samples
	14	14	Undated	1	161
	15	2		4	25

*Table A4. GBA samples from Swinegate: numbers taken and number examined for the assessment, by period and context type (for a key to context types, see Table A5). The last column gives the number of contexts which were small and for which the GBA may not be large enough to furnish useful laboratory samples. However, the three samples marked * included one which was characterised by the excavator as 'small'.*

Period	Context type	No. GBAs taken	No. examined	Small GBAs
1	NATD	1		
2	BKFD	20		
	BLDD	4		1
	DEMD	7		
	DMPD	42		3
	FLOR	11		
	FPTD	1		
	LEVD	8		
	NATD	1		
	OTHD	9		
	PPFD	4		1
	SLTD	3		
	SPFD	6		
	STMK	5		
	WALL	1		
3	BKFD	3		
	BLCD	1		
	BLDD	5		1
	DEMD	1		
	DMPD	16		
	FLOR	8	2	

Period	Context type	No. GBAs taken	No. examined	Small GBAs
	FPTD	1		
	HRTH	1		
	LEVD	18		
	MTLG	3		
	OTHD	3		
	SPFD	1		1
	STMK	5		
	STND	2		
	UNKD	1		
	USED	2		
4	BKFD	11		1
	BLCD	6		
	BLDD	16		
	DMPD	41	2	1
	FLOR	78	3*	34
	FPTD	1		
	LEVD	19	1	
	MTLG	2		
	OTHD	1		1
	PCKD	6		
	PPFD	1		
	SPFD	7		5
	UNKD	9		3
	USED	1		
5	BKFD	3		
	BLDD	16		
	DMPD	23	2	
	FLOR	1		
	FPTD	1		

Period	Context type	No. GBAs taken	No. examined	Small GBAs
	OTHD	1		
	PCKD	5		2
	PPFD	1		
	USED	1		
6	BKFD	5		
	DMPD	2		
	ROBD	1		
7	BKFD	10		
	BLDD	7		
	COFF	1		
	COFS	1		
	DMPD	3		
	GRFD	22		1
	OTHD	1		
	PCKD	2		
8	BKFD	7	1	
	BLDD	3	1	
	DMPD	6		
	GRFD	4		2
	OTHD	3		
	PPFD	2		1
	USED	2		
	YARD	1	1	
9	BKFD	6	2	
	BLDD	12	2	
	DMPD	13	3	
	OTHD	3		
	PATH	1		
	PTLN	1		

Period	Context type	No. GBAs taken	No. examined	Small GBAs
	ROAD	1		
	USED	6		
10	BKFD	3	1	
	BLDD	5		
	DMPD	23	3	
	STND	1		
	USED	3		
11	BKFD	37	3	
	BLCD	1		
	BLDD	14	2	
	DMPD	55	3	
	DRLN	1		
	FLOR	4		
	FPTD	1		
	HEAR	7		
	HRTH	2		
	LEVD	2		
	OCDD	1		
	OTHD	3		
	OTHS	1		
	PATH	2		
	PCKD	4		
	PPFD	1		
	PSHD	1		1
	PTLN	2		
	SLMD	2		
	SLTD	1		
STMK	3			
UNKD	1			

Period	Context type	No. GBAs taken	No. examined	Small GBAs
	USED	3		
	WELD	1		
12	DMPD	24		
	LEV D	3		
	SLMD	2		
13	BKFD	3		
	HEAR	1		
	LEV D	3		
	USED	1		
Undated (Areas 1 and 4)	BKFD	33	1	2
	BLDD	6	2	
	DEMD	2		
	DMPD	54	2	3
	FLOR + ?FLOR	5+1		
	HRTH	9		
	LEV D	12	1	
	OCDD	4		
	OTHD	2		1
	OTHS	1		
	PCKD	2		1
	PPFD	4		4
	STMK	1		
	UNKD	1		
	USED	14	1	3
WALL	1			
Total		945	38 (4%)	

Table A5. Key to context types in Tables A4 and A6.

Context type abbreviation	Context type	Context type abbreviation	Context type
?FLO	?floor deposit	OTHS	other structure
BKFD	backfill deposit	PATH	path
BLCD	building construction deposit	PCKD	packing deposit
BLDD	build-up deposit	PPFD	post-pipe fill deposit
COFF	coffin	PSHD	post-hole fill deposit
COFS	coffin stain	PTLN	pit lining
DEMD	demolition deposit	ROAD	road
DMPD	dump deposit	ROBD	robbing deposit
DRLN	drain lining	SLMD	slump deposit
FLOR	floor deposit	SLTD	slot-fill deposit
FPTD	foundation pit deposit	SPFD	stake-pipe fill deposit
GRFD	grave fill deposit	STMK	structure make-up
HEAR	hearth	STND	standing deposit
HRTH	hearth	UNKD	unknown deposit
LEVD	levelling deposit	USED	use deposit
MTLG	metalling	WALL	wall
NATD	natural deposit	WELD	well fill deposit
OCDD	occupation deposit	YARD	yard deposit
OTHD	other deposit		

Table A6. Results of analyses of 38 selected GBA samples in order of period and context series. Times needed to record material fully are given for the various groups of organisms. Recording times for parasite eggs include taking measurements where appropriate. Times for all groups do **not** include data entry and data processing or writing. Note that samples in which no parasite eggs were seen take P3 since fuller investigation might reveal some remains. For 'insects and other invertebrates', time to record is estimated time for a scan record (*sensu* Kenward 1992) of the insects. No terrestrial or freshwater molluscs were seen unless stated.

Period and date	Context series	Context	Context type	Archaeological information from Level III report	Sample	Plant remains	Parasites	Insects and other invertebrates	Comments
3 (C2)	2.7.1	2206	FLOR	this might be levelling rather than a floor, since so little remains	720	P0 (barren) 0	-	P0 0 (recorded) only traces of cuticle	
	2.9.1	2204	FLOR	dump/levelling but might be floor	717	P0 (barren) 0	-	P0 0 (recorded) traces of cuticle only	
4 (C2)	2.12.1	2160	LEVD	downward slope of deposits suggests they may be levelling deposits rather than a floor	476	P0 (barren) 0	-	P0 0 (recorded) barren	
	2.12.3	2137	FLOR	although compacted and containing domestic material, this deposit slopes and may not be a floor	434	P3 (almost barren) 5 min.	-	P0 0 (recorded) barren	
	2.12.4	2132	FLOR	ditto	421	P0 (barren) 0	-	P0 0 (recorded) barren	
	2.13.2	2186	DMPD	build-up of dumped domestic material	576	P0 (barren) 0	P3 (barren) 25 min.	P0 0 (recorded) barren	

Period and date	Context series	Context	Context type	Archaeological information from Level III report	Sample	Plant remains	Parasites	Insects and other invertebrates	Comments
	2.13.2	2190	DMPD	ditto	592	P0 (barren) 0	-	P0 0 (recorded) barren	
	2.14.5	2067	FLOR	part of a floor sequence of average total thickness 0.25 m	257	P0 (barren) 0	-	P0 0 (recorded) barren	
	3.16.6	3559	DMPD	60% loose black ash	704	P3 (moderate amounts of charcoal in washover, including conifer wood) 30 min. to record charcoal	P3 (barren) 25 min.	P0 0 (recorded) no arthropods a few poorly preserved gastropods	<i>check a small amount of charcoal properly?</i>
	3.16.12	3520	DMPD	part of mixed deposits in W half of trench	683	P0 (barren) 0	-	P0 0 (recorded) barren; but some snails in residue	<i>check snails?</i>
8 (C11/12)	3.25.1	3374	YARD	deposit extended full length of trench (15.6 m) and sealed most of the burails; although described as a yard, no evidence for function; probably just to seal cemetery level	377	P3 (almost barren) 5 min.	-	P3 10 min. only a few arthropod remains	
	3.27.1	3341	BLDD	part of a series of dumps and build-up deposits over 3374 across whole area of trench	353	P3 (almost barren) 5 min.	-	P2 sort 2 hours, record 20 min. small group of insects	only worth recording invertebrates if there is a 'question'

Period and date	Context series	Context	Context type	Archaeological information from Level III report	Sample	Plant remains	Parasites	Insects and other invertebrates	Comments
	3.27.1	3410	BKFD	ditto	381	P2/3 (moderately large assemblage, moderately well preserved; traces of ?hay and ?straw) 60 min.	-	P1 20 min. somewhat unusual group, ?pitfalls	
9 (C11/12)	3.28.3	3323	BKFD	backfill of pit cut; tentatively identified as cess pit; no lining	297	P1/2 (large assemblage, well preserved; some evidence for ?hay and ?straw with faecal material) 120 min.	-	P2+ 30 min. abundant <i>Daphnia</i> , small insect group, ?from building	record insects if possible
	3.28.4	3320	DMPD	part of trench-wide accumulation	295	P1 (large assemblage, well preserved; evidence for ?straw and ?hay with woodworking waste) 120 min.	P3 (barren) 25 min.	P1+ 35 min. small invertebrate group, perhaps from stable manure	
	3.29.1	3279	BKFD	backfill of pit interpreted as cess pit; from this phase, property boundaries are established by wicker fences	284	P1 (moderately large assemblage, moderately well preserved; evidence for faeces) 120 min.	-	P1 30 min. quite substantial insect group, subjectively somewhat unusual	
	3.29.5	3278	DMPD	dump in E half of trench	273	P2 (moderately large assemblage, moderately well preserved; occupation material) 60 min.	-	P1 10 min. few insects but mixture of aquatic and terrestrial, numerous Cladocera	
	3.30.1	3267	BLDD	part of a series of deposits indicating cultivation and dumping of domestic waste	244	P2 (large assemblage, well preserved; some evidence for ?straw and ?hay,	P3 (barren) 25 min.	P1 40 min.	

Period and date	Context series	Context	Context type	Archaeological information from Level III report	Sample	Plant remains	Parasites	Insects and other invertebrates	Comments
						including traces of heathland vegetation?) 120 min.		moderately large group of insects, needs study to identify origins	
	3.30.1	3271	DMPD	ditto	249	P2 (large assemblage, very well preserved; occupation material with ?hay) 120 min.	-	P1 30 min. small group, aquatics and decomposers	
10 (C12/13)	3.31.1	3221	DMPD	part of a series of dumps and organic material over whole area of trench, sealing wicker property boundaries of 3.30	217	P2/3 (large assemblage, well preserved; occupation debris with flax capsule fragments) 120 min.	-	P1 45 min. many <i>Daphnia</i> , insects perhaps from stable manure	
	3.31.2	3228	BKFD	the pit from which this backfill came was one of a group of three; the other two were thought to be cess pits, but this one's function was uncertain; the use phase fill of this pit was sampled (1 GBA) but not examined in assessment	204	P1 (small, very well preserved assemblage, mainly faeces and food remains) 60 min.	-	P2 5 min. small insect group, perhaps stable manure, larger sample needs processing for interpretation to be possible: add 4 hours tech., 30 min. recording *	
	3.31.3	3217	DMPD	further and major trench-wide build-up, sealing wicker fences; continued cultivation and dumping in a 'backland type environment'	186	P2 (large assemblage, moderately well preserved; mostly weeds, but some evidence for ?hay and traces of food) 120 min.	-	P1 30 min. mixed decomposer insects, conceivably stable manure	
	3.32.1	3204	DMPD	a major trench-wide dump	133	P2/3 (moderately large assemblage, well	-	P1 30 min.	

Period and date	Context series	Context	Context type	Archaeological information from Level III report	Sample	Plant remains	Parasites	Insects and other invertebrates	Comments
						preserved; evidence for faeces/food remains; ?peat) 60 min.		substantial insect group, house fauna and others; abundant puparia: add 8 hours for these	
11 (C13/14)	3.37.3	3119	BKFD	backfill of pit perhaps with waste from industrial process	115	P3 (small assemblage, poorly preserved; traces of food remains and faecal concretions) 30 min.	P3 (barren) 25 min.	P2 ⁺ 30 min. preservation poor, ?differential, small group probably from buildings	
	3.39.4	3170	BLDD	accumulation of material 0.1-0.2 m thick over W end of trench	149	P1 (moderately large assemblage, moderately well preserved; good evidence for food and faeces) 60 min.	P1 (trace levels of <i>Trichuris</i>) 30 min.	P1 beetles 30 min., flea 20 min., beetle larvae 20 min. dryish decomposer group, <i>Ctenocephalides</i> , ? <i>Hister</i> larvae	
	3.41.1	3118	DMPD	dump, perhaps external and resulting from growth of vegetation	113	P3 (small assemblage, rather poorly preserved; traces of food remains) 30 min.	P3 (barren) 25 min.	P1 ⁻ 30 min. modest assemblage, ?stable manure	
	3.41.5	3104	BKFD	backfill of 'rubbish' pit	99	P3 (small assemblage, rather poorly preserved; some evidence for ?peat) 30 min.	P3 (barren) 25 min.	P1 ⁻ 40 min. small insect group with domestics, outdoor and ?subterranean forms	
	3.43.3	3161	BLDD	thin accumulation of material,	139	P3 (moderately large	P1 (traces of	P1	

Period and date	Context series	Context	Context type	Archaeological information from Level III report	Sample	Plant remains	Parasites	Insects and other invertebrates	Comments
				perhaps external		assemblage, rather well preserved, mainly weeds; traces of food and ?peat) 60 min.	<i>Trichuris</i> and ? <i>Ascaris</i>) 30 min.	40 min. probably stable manure fauna	
	3.43.9	3075	DMPD	dump of tiles, perhaps an external surface	81	P3 (small assemblage, rather poorly preserved; some evidence for ?peat and food remains) 30 min.	P1 (traces of <i>Trichuris</i>) 30 min.	P1 ⁻ 40 min. ?domestic or stable manure insects, ?differential preservation	
	3.44.10	3044	BKFD	backfill of pit of unknown function	67	P3 (small assemblage, poorly preserved; traces of food remains and ?peat) 30 min.	P1 (moderate count for <i>Trichuris</i>) 30 min.	P1 ⁻ 40 min. probably remains of poorly preserved group from inside building	
	3.44.12	3005	DMPD	dump over W part of trench	19	P3 (small assemblage, poorly preserved; some food remains) 30 min.	P1 (trace of <i>Trichuris</i>) 30 min.	P2 30 min. mostly poorly preserved but possibly worth recording	
Undated (but mostly late-medieval)	1.10.3	1217	LEVD	part of a sequence of dumps in NE part of Structure Z to raise floor level	733	P0 (barren) 0	-	P2 ⁺ 90 min. including sorting differential preservation or restricted fauna?	
	1.17.2	1091	BKFD	backfill of a robbing cut	539	P3 (almost barren) 5 min.	-	P0 0 (recorded) only traces of cuticle	<i>might be worth checking identity of 'evergreen leaf' fragment in washover</i>

Period and date	Context series	Context	Context type	Archaeological information from Level III report	Sample	Plant remains	Parasites	Insects and other invertebrates	Comments
	1.18.9	1172	USED	replacement for garderobe pit 1.11.3, perhaps served by a drain, although more likely a simple cess pit	659	P3 (a few poorly preserved seeds and other remains) 15 min.	-	P2 15 min. few insects but possibly interpretable	
	1.20.15	1160	DMPD	dumps or build-up in building, perhaps including industrial material	650	P3 (almost barren; a few poorly preserved seeds and other remains) 15 min.	-	P1 90 min. remains yellow and poorly preserved. probably from inside building	
	1.20.17	1005	BLDD	deposit deriving from use of Structure V	8	P0 (barren) 0	P3 (barren) 25 min.	P3 10 min. a few yellowish remains, ?house fauna	
	1.21.15	1006	BLDD	deposit deriving from use of Structure U or dump sealed by a floor	11	P0 (barren) 0	P3 (barren) 25 min.	P0 0 (recorded) barren	
	1.21.16	1002	DMPD	deposit forming during abandonment of Structure U	4	P0 (barren) 0	P3 (barren) 25 min.	P0 0 (recorded) only traces of cuticle	
Total time required						24.33 hrs	6.67 hrs	14.33 hrs + 2 hrs sorting + 8 hrs puparia + optional 4 hrs sorting, 30 mins. recording for *	

Table A7. Some results of preliminary analyses of BS samples in order of period and context series. Most samples yielded at least traces of charcoal and marine shell; these are not mentioned below unless they were more common or the only remains recorded.

Period	Context series	Context	Context type	Sample and weight sieved (kg)	'Bone rich'?	Plant remains and other components	Priority for plant remains	
3	2.6.1	2228	DMPD	809 (34)		traces of charcoal and marine shell	P0	
	2.7.1	2210	LEVD	742 (18)		traces of charcoal	P0	
	2.9.1	2204	FLOR	718 (38)		no plant or invertebrate remains	P0	
	2.10.2	2189	FLOR	581 (35)		traces of charcoal, marine shell and landsnails	P0	
	3.13.1	3625	DMPD	867 (23)		traces of charcoal and marine shell	P0	
4	2.12.1	2160	LEVD	477 (42)		traces of charcoal and marine shell	P0	
	2.12.2	2148	FLOR	462 (<56)		traces of charcoal	P0	
	2.12.3	2092	FLOR	337 (39)		traces of charcoal and marine shell	P0	
	2.12.5	2099	FLOR	344 (44)		traces of charcoal and marine shell	P0	
	2.12.5	2102	LEVD	360 (48)		traces of charcoal and landsnails (<i>Discus rotundatus</i>)	P0	
	2.13.2	2186	DMPD	578 (37)	Y	large amounts of charcoal and traces of marine shell	P3	
	2.13.2	2190	DMPD	593 (46)	Y	traces of landsnails (Helicidae) and marine shell	P0	
	2.14.6	2068	FLOR	260 (43)		traces of moss	P0	no further action
	2.15.4	2076	FLOR	287 (38)		trace of grain	P3	

Period	Context series	Context	Context type	Sample and weight sieved (kg)	'Bone rich'?	Plant remains and other components	Priority for plant remains	
	2.15.4	2082	FLOR	317 (4)		no more than traces of charcoal, landsnails and marine shell	P0	
	3.16.2	3583	BLDD	744 (35)		traces of charcoal, landsnails and marine shell	P0	sediment not completely disaggregated
	3.16.2	3591	DMPD	780 (33)		traces of charcoal and landsnails (of limited interpretative value)	P0	
5	3.16.6	3559	DMPD	705 (35)		moderate amounts of charcoal and landsnails; latter of low diversity and typical of dank grassy places or a rubbish dump	P0	investigate snails?
	3.16.7	3550	DMPD	703 (50)		traces of charcoal, wood, landsnails and marine shell	P0	
	3.16.12	3520	DMPD	680 (53)		traces of charcoal and marine shell; one <i>Cannabis</i> achene; traces of landsnails	P0	
	4.5.1	4100	LEVD	978 (37)		trace of charcoal and marine shell	P0	
	4.5.1	4116	LEVD	987 (44)		trace of charcoal and marine shell	P0	
8	3.27.1	3341	BLDD	354 (42)	Y	rather large amounts of charcoal with traces of wood, nutshell and grain	P2	
9	3.28.2	3277	BKFD	278 (35)	Y	moderate amount of wood and charcoal with traces of moss, nutshell and fruitstones	P2	
	3.28.4	3318	BLDD	347 (?)		moderate amount of wood with some weed seeds and sloe stones; trace of snails	P2	?weight of sample not recorded in

Period	Context series	Context	Context type	Sample and weight sieved (kg)	'Bone rich'?	Plant remains and other components	Priority for plant remains	
								field
	3.30.1	3264	BLDD	240 (26)	?	(wood, seeds, nutshell recording during first sort)	(P1/2)	sorted material missing from sample
	3.30.1	3267	BLDD	245 (41)	Y	moderate amounts of wood with traces of nutshell, large arable weed 'seeds', fruitstones; trace of faecal concretions	P1	
	3.30.1	3268	BLDD	247 (31)	Y (especially fish)	moderate amounts of wood and charcoal with traces of nutshell, seeds (including <i>Cannabis</i> and charred grain) and fruitstones; trace of marine shell and landsnails	P2	
	3.30.2	3233	USED	229 (36)	Y (especially fish bone)	much wood and moderate amounts of nutshell; trace of fruitstones and faecal concretions	P1	
10	3.31.1	3221	DMPD	199 (39)	Y (including fish bone and fish scale)	much wood and twig material; traces of nutshell, charred grain and fruitstones	P1	
	3.31.1	3221	DMPD	218 (44)	Y	much wood; traces of nutshell, charred grain, fruitstones; trace of snails; trace of faecal concretions;	P1	
	3.31.3	3217	DMPD	177 (41)	Y	moderate amounts of wood and charcoal and several charred grains; trace sloe stones	P3	
	3.31.3	3217	DMPD	185 (42)	Y	moderate amounts of wood and charcoal with traces of nutshell, charred grain and a caper spurge (<i>Euphorbia lathyris</i>) seed	P2	

Period	Context series	Context	Context type	Sample and weight sieved (kg)	'Bone rich'?	Plant remains and other components	Priority for plant remains	
	3.32.1	3204	DMPD	168 (41)	Y	faecal concretions, charcoal and wood common; nutshell and fruitstones, with perhaps moderate amounts of charred grain; grape, apple, 'straw'	P1	
11	3.39.4	3170	BLDD	150 (35)		traces of nutshell and 'plum' and sloe stones; some wood	P3	
	3.41.1	3118	DMPD	114 (36)	Y	traces of nutshell and charred grain	P3	
	3.43.3	3161	BLDD	142 (35)		traces of nutshell, fruitstones and other seeds	P3	
	3.44.12	3005	DMPD	20 (36)	Y	some faecal concretions present and mineralised <i>Prunus</i> seeds; traces of marine shell and landsnails	P3	
Undated	1.10.3	1217	LEVD	735 (29)		traces of charcoal	P0	
	1.18.9	1172	USED	660 (47)	Y (including fish)	traces of nutshell and charred grain	P3	
	1.2.23	1311	USED	965 (36)	Y (especially fish)	traces of charcoal and marine shell	P0	
	1.20.15	1160	DMPD	658 (36)		large amounts of charcoal and traces of moss and marine shell	P0	
	1.3.1	1261	DMPD	890 (26)	Y (especially fish)	moderate amounts of charcoal and a trace of marine shell	P0	
	4.2.5	4087	BLDD	936 (30)		large amounts of charcoal and traces of marine shell	P3	
	4.2.6	4082	LEVD	933 (23)		traces of charcoal and marine shell	P0	

Table A8. Bone from bulk sieved samples. P =present (i.e.<10% of total assemblage), C = common (10-50%), A =abundant (>50%). Letters in parentheses: For large mammals (F) = few measurable bones (i.e.<10%), S = some (10-50%). For medium and small mammals, birds and fish (L)= low diversity (i.e. 1 species present), (M)= moderate (2-4 species) and (H)= high (>4 species).

Period	Context type	Context number	Sample number	LM	MM	SM	Bird	Fish	Amp
L2C	DMPD	2190	593	A(S)	--	P(M)	P(L)	P(M)	--
11-12	BLDD	3341	354	A(F)	--	P(M)	P(L)	P(M)	--
L11-12	USED	3233	229	C(F)	--	P(L)	P(L)	A(H)	--
L11-12	BLDD	3267	245	A(--)	--	P(L)	P(L)	C(H)	--
L11-12	BLDD	3268	247	A(F)	--	--	P(L)	C(M)	--
12-13	DMPD	3204	168	A(F)	P(L)	--	P(L)	C(H)	P
12-13	DMPD	3217	177	A(F)	--	P(L)	C(M)	C(M)	P
12-13	DMPD	3217	185	A(F)	--	P(M)	P(L)	C(H)	--
12-13	DMPD	3221	199	A(F)	--	--	P(M)	C(H)	--
12-13	DMPD	3221	218	A(F)	P(M)	--	P(L)	C(H)	--
13-14	DMPD	3005	020	A(F)	P(L)	P(L)	P(L)	C(H)	--
13-14	DMPD	3118	114	A(--)	--	--	P(L)	C(M)	--
L. med	USED	1172	660	A(F)	--	P(L)	P(L)	C(H)	P
L.med	USED	1311	965	C(--)	--	P(L)	P(L)	A(M)	--

TableA9. Hand-collected bone from selected contexts of late 2nd century (period 4)

Species	Total fragments	Total weight	Total measurable	Mandibles with teeth
Cattle	4	310	2	--
Sheep/goat	6	81	1	--
Pig	11	385	1	4
Bird	2	5	--	--
Sub-total	23	781	4	4
Unid	55	704	--	--
Total	78	1485	4	4

Table A10. Hand collected bone from selected contexts of 12th-13th century date (Period 10)

Species	Total fragments	Total weight	Total measurable	Mandibles with teeth
Cattle	49	4161	16	2
Sheep/goat	54	1549	22	11
Pig	28	881	4	6
Horse	1	162	--	--
Cat	2	7	--	--
Dog	2	34	1	--
Hare	1	2	--	--
Human	1	167	--	--
Bird	5	11	--	--
Goose	13	85	9	--
Fowl	20	64	17	--
Duck	1	2	--	--
Fish	3	15	--	--
Sub total	180	7140	69	19
Unid	156	3706	--	--
Total	336	10846	69	19

Table A11 Hand collected bone from selected contexts of 13th-14th century date (Period 11)

Species	Total fragments	Total weight	Total measurable	Mandibles with teeth
Cattle	36	2774	12	2
Sheep/goat	37	884	9	5
Pig	26	406	3	--
Horse	1	347	1	--
Cervid	1	48	1	--
Canid	6	63	4	--
Hare	2	7	2	--
Human	1	6	--	--
Bird	11	23	--	--
Goose	5	16	1	--
Fish	3	8	--	--
Sub total	129	4582	33	7
Unidentifiable	116	2162	--	--
Total	245	6744	33	7