SILCHESTER ROMAN TOWN: THE INSULA IX TOWN LIFE PROJECT: VOLUME 2

SILCHESTER: CITY IN TRANSITION

THE MID-ROMAN OCCUPATION OF INSULA IX c. A.D. 125–250/300

A REPORT ON EXCAVATIONS UNDERTAKEN SINCE 1997





THE MID-ROMAN OCCUPATION OF INSULA IX c. A.D. 125–250/300

A REPORT ON EXCAVATIONS UNDERTAKEN SINCE 1997

BY

Michael Fulford and Amanda Clarke

With contributions by
Denise Allen, John R.L. Allen, Rowena Banerjea, Edward Besly, Joanna Bird,
Kate Clark, Samantha R. Cook, Nina Crummy, Petra Dark, Brenda Dickinson,
Kevin M. Hayward, Hella Eckardt, Claire Ingrem, Mary Lewis, Margaret Mathews,
Mark Robinson, Elizabeth Somerville, Jane Timby, Klare Tootell, Paul Tyers,
Peter Warry, Jacqui Watson, Sandie Williams

And an Appendix on 'The Iron Age and Roman Coins found at Silchester, as recorded and catalogued by George Boon, 1951–54' by Dave Wythe

Illustrators: Margaret Mathews with Frances Taylor, Jane Timby and Brian Williams

Britannia Monograph Series No. 25

Published by the Society for the Promotion of Roman Studies Senate House Malet Street London WC1E 7HU 2011







BRITANNIA MONOGRAPH SERIES NO. 25

Published by the Society for the Promotion of Roman Studies Senate House, Malet Street, London WC1E 7HU

This monograph was published with the aid of a grant from the University of Reading

© Copyright Society for the Promotion of Roman Studies 2011

British Library Catalogue in Publication Data A catalogue record of this book is available from the British Library

ISBN 978 0 907764 37 3

Cover illustration: Aerial view of 'House 1' under excavation in 2002, from the south-west

Produced by Past Historic, Kings Stanley, Gloucestershire

Printed in Great Britain







CONTENTS

List of Figures List of Tables Acknowledgements Preface	Page vii xii xv xix
CHAPTER 1. INTRODUCTION (Michael Fulford)	1
CHAPTER 2. THE EXCAVATION (Amanda Clarke and Michael Fulford)	9
CHAPTER 3. THE GEOCHEMISTRY OF 'HOUSE 1' IN PERIODS 3 AND 4 (Samantha R. Cook)	53
CHAPTER 4. MICROSCOPIC PERSPECTIVES ON THE USE OF PERIOD 3 MRTB 1/ERTB 1 (Rowena Banerjea)	63
CHAPTER 5. THE COINS, A.D. 117-260 (Edward Besly)	96
CHAPTER 6. THE SMALL FINDS (Nina Crummy, with a contribution on the wooden writing-tablet by Jacqui Watson)	100
CHAPTER 7. THE GLASS (Denise Allen)	133
CHAPTER 8. THE POTTERY (Jane Timby, with contributions on the samian by Paul Tyers, Joanna Bird and Brenda Dickinson)	143
CHAPTER 9. THE WORKED STONE (Kevin M. Hayward, with contributions on the tesserae and the calcite by John R.L. Allen)	204
CHAPTER 10. THE CERAMIC BUILDING MATERIAL (Peter Warry, with a contribution on the ventilators/finials by J.R. Timby)	220
CHAPTER 11. THE METALWORKING (John R.L. Allen and Klare Tootell)	232
CHAPTER 12. THE HUMAN REMAINS (Mary Lewis)	241
CHAPTER 13. THE ANIMAL BONE (Claire Ingrem)	244
CHAPTER 14. THE DOG ASSEMBLAGE (Kate Clark)	271
CHAPTER 15. THE OYSTER SHELL (Sandie Williams and Elizabeth Somerville)	279

CHAPTER 16. THE MACROSCOPIC PLANT AND INVERTEBRATE REMAINS (Mark Robinson)	281
CHAPTER 17. THE POLLEN AND TRICHURID OVA FROM PIT 5251 (Petra Dark)	294
CHAPTER 18. THE MID-ROMAN PITS IN CONTEXT (Hella Eckardt)	301
CHAPTER 19. VISUALISING THE BUILDINGS OF INSULA IX AND THEIR CONTEXT (Margaret Mathews)	319
CHAPTER 20. SYNTHESIS AND CONCLUSIONS (Michael Fulford)	326
APPENDIX 1.THE IRON AGE AND ROMAN COINS FOUND AT SILCHESTER, AS RECORDED AND CATALOGUED BY GEORGE BOON, 1951–54 (Dave Wythe)	351
APPENDIX 2. THE SMALL FINDS (Nina Crummy)	365
APPENDIX 3. THE GLASS (Denise Allen)	391
APPENDIX 4. THE POTTERY (Jane Timby)	399
APPENDIX 5. THE CERAMIC BUILDING MATERIAL (Peter Warry)	423
APPENDIX 6. THE ANIMAL BONE (Claire Ingrem)	425
APPENDIX 7. THE DOG ASSEMBLAGE (Kate Clark)	474
APPENDIX 8. THE MACROSCOPIC PLANT AND INVERTEBRATE REMAINS (Mark Robinson)	485
Bibliography	497
Index	512







LIST OF FIGURES

		Page
Fig. 1.	Silchester: simplified Roman town-plan showing location of Insula IX and excavation area, also with present-day buildings and lanes to north-west and south-east (black), and droveway (broken lines) across the walled area	1
Fig. 2.	Insula IX showing the plan of 1893–4, buildings plotted from aerial photographs (shaded outlines) (after Bewley and Fulford 1996, folding	
	plan), and the current area of excavation	2
Fig. 3.	Insula IX showing fourth-century occupation in the excavated area and,	
	inferred, for the rest of the insula	4
Fig. 4.	Insula IX: excavation area showing location of fourth-century buildings (in black) and occupation including pits and wells (outline); and (in grey) Period	
Fig. 5.	4 (third-century) Masonry Building 3 (Society of Antiquaries' House 1) Period 3: Masonry Buildings 1 and 2, Mid-Roman Timber Buildings 1–3,	4
	residual Early Roman Timber Building 1 and associated occupation, <i>c</i> . A.D. 125/50– <i>c</i> . A.D. 200; and (in inset plan) the underlying timber buildings of	
	Period 2	10
Fig. 6.	Aerial view of the excavation of Insula IX from the south-west in 2002 showing MB 1 and MB 2 and associated occupation. Remains of late	
г. д	Roman pits and Victorian trenching are also visible	11
Fig. 7.	Aerial view of MB 1 and 2 from the south-west in 2002. Remains of ERTB 1 and hearth 1433 visible to the north-east (top of photo). Late Roman pits	12
E:- 0	and wells and Victorian trenching are also visible	13
Fig. 8.	Period 3: Masonry Buildings 1 and 2 with detailed plan of MB 1, Room 1. The relationship with the underlying Period 2 buildings is shown in inset plan	14
Fig. 9.	Period 3: view of foundations of MB 1 from the south-east after excavation of floor make-ups in Rooms 2 and 3; late Roman pits on east-west align-	
	ment in the foreground; traces of burning visible in Room 1 to the right	15
Fig. 10.	(north-east) Period 3: wall footings and nodular flint foundations of Room 3 of MB 1 cut	13
11g. 10.	by late Roman pits (excavated in 1893); view to south-east in 1997	16
Fig. 11.	Period 3: collapsed remains of Silchester ware storage jar in north-west-	10
116.11.	facing corridor of MB 1; remains of rim showing (left) and base (right)	17
Fig. 12.	Period 3: Silchester ware storage jar after excavation of collapsed body;	1,
8::	remains of rim (left) and of base (right); note blackening of internal surface	18
Fig. 13.	Period 3: Silchester ware storage jar SF 2377 reconstructed	18
Fig. 14.	Period 3: remains of MB 2 with its partly robbed foundations, from the	
	south-east	20
Fig. 15.	Period 3: complete Alice Holt bead-rim jar SF 2549 in the foundations of MB 2	21
Fig. 16.	Period 3: Mid-Roman Timber Building 1 and residual Early Roman Timber	
Fig. 17.	Building 1, and associated occupation in the north-east corner of the insula Period 3: aerial view of Period 2–3 ERTB 1 retained into Period 3 and	23
	associated hearth 1433; view from south-west	24





Fig. 18.	(a) The rims of two complete Alice Holt pots (SFs 3095; 3096) buried in the make-up associated with the construction of MB 1/MRTB 1; (b) the two	
	vessels in the course of excavation	24
Fig. 19.	Period 2–3 ERTB 1: four fire-cracked tiles representing the surface of hearth	۷-
1 16. 17.	1433, from the south	25
Fig. 20.	Pit 4835 showing the bases of two grey ware jars resting on the bottom	28
Fig. 21.	Period 3: profiles of pits 4835 and 5039 and well 5693	28
Fig. 22.	Period 3: occupation south of Masonry Buildings 1 and 2 including Mid-	_ `
1 18. 22.	Roman Timber Buildings 2 and 3, pit 5039, well 5693, and the tile dump	29
Fig. 23.	Period 3 pit 5039: (a) half-section of pit in course of excavation; (b) remains	
6,,	of large grey ware jar resting on the base of the pit	3(
Fig. 24.	Period 3 well 5693: half-section	3
Fig. 25.	Period 3 tile dump (Object 701, context 4265); view to south-west	32
Fig. 26.	Period 3 occupation: sherds of Libertus cup	32
Fig. 27.	Period 3: profiles of well 2234 to the north of 'House 1', showing the	
	findspots of the two Verulamium-region flagons SFs 01737 and 017631	34
Fig. 28.	Period 3 well 2234: Verulamium-region ware flagon with pierced body	34
Fig. 29.	Period 4: Masonry Building 3, associated Mid-Roman Timber Buildings 4	
	and 5 and associated occupation, c. A.D. 200-c. A.D. 250/300	36
Fig. 30.	Period 4: Masonry Building 3 and adjacent occupation and post alignments	3
Fig. 31.	Period 4: MB 3 viewed from the south-west in 2001 with foundations of	
	Period 3 MB 2 also visible	38
Fig. 32.	Period 4: MB 3. View to the north-west across the middle of the house	
	(Rooms 2 and 3) cut by late Roman pits	39
Fig. 33.	Period 4: Mid-Roman Timber Building 4 (with outline footprint of fourth-	
	century Late Roman Building 1) and Building 5 (with outline footprint of	
	Late Roman Building 5), and associated occupation, including wells 1750	4.0
E:- 24	and 5735 and pits 2434, 2601, 3102 and 3406	40
Fig. 34.	Views of the south-eastern corner of the excavation trench: (a) showing	
	location of Period 4 pits and wells, and the excavated foundation trenches	
	of Late Roman Building 1; (b) similar to (a), but at later stage of excavation showing wells 5693 and 5735 under excavation and post-holes flanking	
	north–south street	4
Fig. 35.	Period 4: profiles of associated pits 2434, 2601, 3102 and 3406 and well 5735	42
Fig. 36.	Writing-tablet of maple wood from well 5735	43
Fig. 37.	Copper-alloy handle of a <i>Fusshenkelkrug</i> from well 5735	44
Fig. 38.	The oak lining of well 1750 in the course of excavation	4.
Fig. 39.	Period 4: profile of well 1750 (Drawn by B. Williams)	46
Fig. 40.	Period 4 well 1750: individual oak planks of timber lining (<i>Drawn by B</i> .	
	Williams)	47
Fig. 41.	Period 4 well 1750: isometric reconstruction of timber lining (<i>Drawn by B</i> .	
	Williams)	48
Fig. 42.	Period 4 pit 2601 in course of excavation	49
Fig. 43.	Ivory-handled folding-knife or razor from pit 2601	50
Fig. 44.	Concentrations of copper, zinc, lead and strontium from Period 3 contexts	55
Fig. 45.	Concentrations of copper, zinc, lead and strontium from Period 4 contexts	56
Fig. 46.	Concentrations of phosphorus and calcium, and of gold, silver and tin, from	
	Periods 3 and 4	58
Fig. 47.	Period 3, Phase 1: contexts associated with a retained ERTB 1	6.
Fig. 48.	Period 3, Phase 2: contexts associated with MRTB 1/ERTB 1 in decay	7
Fig. 49.	Period 3, Phase 3: contexts associated with abandonment of hearth 4216	_
E' 50	and the later life of MRTB 1	74
Fig. 50.	(a) Profile of contexts associated with sample 995 and Phase 1 (FIG. 47); (b)	7
	profile of hearth 4216 and associated contexts of Phases 2 and 3 (FIGS 48–49)	74





LIST OF FIGURES

(

Fig. 51.	(upper) Frequency of plant and organic remains in each context, grouped by deposit type; (lower) frequency of bioarchaeological and micro-artefact	
		20
E:~ 52	residues in each context, grouped by deposit type	80
Fig. 52.	(upper) Frequency of burnt and unburnt micro-residues in each context	
	grouped by deposit type; (lower) frequency of post-depositional alterations	0.3
E:- 52	and pedofeatures in each deposit grouped by deposit type	83
Fig. 53.	(a) The distribution of all coins dating between A.D. 117 and 260; (b) as (a),	
	but denarii distinguished from the rest; (c) as (a), but worn/well-worn coins	0.7
D: 54	distinguished from those unworn or with slight wear	97
Fig. 54.	Small finds: Period 3 timber buildings MRTB 1/ERTB 1 (Object 50037)	404
	(Drawn by Brian Williams)	101
Fig. 55.	Small finds: Period 3 Masonry Building 1 (Object 50018) (Drawn by Brian	
	Williams)	103
Fig. 56.	Small finds: Period 3 Masonry Building 2 (Object 50019) and south-eastern	
	pits (Object 500017) (Drawn by Brian Williams)	105
Fig. 57.	Small finds: Period 3 south-eastern occupation (Object 701) (Drawn by	
	Brian Williams)	107
Fig. 58.	Small finds: Period 4 Masonry Building 3 (Object 50046) (Drawn by Brian	
	Williams)	109
Fig. 59.	Small finds: Period 4 south-eastern pits (1) (Object 500017) (Drawn by	
	Brian Williams)	111
Fig. 60.	Small finds: Period 4 south-eastern pits (2) (Object 500017) (Drawn by	
	Brian Williams)	115
Fig. 61.	Small finds: Period 4 south-eastern occupation (Object 700) (Drawn by	
	Brian Williams)	119
Fig. 62.	Distributions of miscellaneous small finds in Periods 3 and 4 (Category 18)	122
Fig. 63.	Distributions of fittings in Periods 3 and 4 (Category 11)	123
Fig. 64.	Distributions of dress accessories in Periods 3 and 4 (Category 1)	124
Fig. 65.	Distributions of toilet instruments, household items, and items relating to	
	recreation and transport (Categories 2, 4, 5 and 8)	126
Fig. 66.	Distributions of items relating to textile working, weighing and literacy in	
	Periods 3 and 4 (Categories 3, 6 and 7)	128
Fig. 67.	Distributions of tools, horticultural/agricultural equipment and military	
	equipment, and items relating to metal- and bone-working in Periods 3 and	
	4 (Categories 10, 12, 13, 15 and 16)	129
Fig. 68.	Illustrated glass from Period 3 (Drawn by Frances Taylor)	134
Fig. 69.	Illustrated glass from Period 4 (Drawn by Frances Taylor)	135
Fig. 70.	The distribution of glass finds according to context in Periods 3 and 4	137
Fig. 71.	Schematic representation of the distribution of vessel glass by type in	
	Periods 3 and 4. The small quantity of glass from the pits of Period 3 is not	
	included, but that from the Period 4 pits is incorporated into the material	
	from Object 700	138
Fig. 72.	The distribution of window glass in Periods 3 and 4	140
Fig. 73.	Decorated samian from Period 3 Object 701	155
Fig. 74.	Decorated samian from Period 3 Object 701	156
Fig. 75.	Pottery from Period 3 pits and wells (Drawn by Frances Taylor/Jane Timby)	163
Fig. 76.	Pottery from Period 3 well 2234, pit 4835, MB 1 and 2, MRTB 1 and south-	
	east occupation Object 701 (Nos 32–33) (Drawn by Frances Taylor/Jane Timby)	164
Fig. 77.	Pottery from Period 3 south-east occupation Object 701 (Drawn by Frances	
	Taylor/Jane Timby)	168
Fig. 78.	Pottery from Period 3 south-east occupation Object 701 (Drawn by Frances	
	Taylor/Jane Timby)	169
Fig. 79.	Decorated samian from Period 4 pit 2434, well 5735 and the south-east	
	occupation Object 700	173





(

Fig. 80. Fig. 81.	Location of pits and wells in Periods 3 and 4 Pottery from Period 4 pits and wells (<i>Drawn by Frances Taylor</i>) <i>Jane Timby</i>)	177 182
Fig. 82.	Pottery from Period 4 pits 2434 and 2601 (Nos 114–23) and from the south-east occupation Object 700 (Nos 124–42) (<i>Drawn by Frances Taylor/ Jane Timby</i>)	183
Fig. 83.	Pottery from Period 4 south-east occupation Object 700 (<i>Drawn by Frances Taylor</i> [Jane Timby)	188
Fig. 84.	Pottery from Period 4 south-east occupation Object 700 (<i>Drawn by Frances Taylor</i> [fane Timby)	189
Fig. 85.	Sherds with graffiti from Periods 3 and 4 (<i>Drawn by Frances Taylor</i> /Jane <i>Timby</i>)	191
Fig. 86.	Stamps from amphora (No. 1), mortaria (Nos 2–5) and coarse ware (No. 6) (<i>Drawn by Frances Taylor/Jane Timby</i>)	192
Fig. 87.	Comparison of the representation of the principal ware groups from the Period 3 pits and wells, south-east layers and 'House 1'	193
Fig. 88.	Comparison of the representation of the principal ware groups from Period 4 pits and wells, south-east layers and 'House 1' (=MB 3)	194
Fig. 89.	Comparison of the representation of the principal ware groups from the pits and wells of Periods 3 and 4	195
Fig. 90.	Comparison of the representation of the principal ware groups from the south-east layers of Periods 3 (Object 701) and 4 (Object 700)	196
Fig. 91.	Comparison of the representation of the principal ware groups from 'House 1' in Periods 3 and 4	197
Fig. 92.	Comparison of the representation of the principal ware groups from the pits and wells of Periods 3 and 4 and the late Roman pits published in Fulford <i>et</i>	201
Fig. 93.	al. 2006 The representation (by %EVE) of the principal sources of the pottery from Periods 3 and 4	201
Fig. 94.	Distributions of stone artefacts other than tesserae from Periods 3 and 4	202
Fig. 95.	Distribution of stone tesserae of Period 3	212
Fig. 96.	Distribution of stone tesserae of Period 4	213
Fig. 97.	Map showing the location of rock outcrop sources of the stone from Period	
8	3 and 4 contexts	215
Fig. 98.	Fragments of quernstones (Nos 1–6) and a roofing slate (No. 7) (<i>Drawn by Brian Williams</i>)	218
Fig. 99.	Architectural fragment, mortar and fragment of marble inlay (<i>Drawn by Brian Williams</i>)	219
Fig. 100.	Make-up of ceramic building material from contexts with >20kg of material from pits and wells of Periods 3 and 4	221
Fig. 101.	The distribution of tegulae in Periods 3 and 4	222
Fig. 102.	The distribution of Group A and B tegulae	223
Fig. 103.	The distributions of Group C (upper) and Group D (lower) tegulae	224
Fig. 104.	Fragments of flue-tile (Nos 1–4) and a tile prepared for tessera production (No. 5) (<i>Drawn by Brian Williams</i>)	227
Fig. 105.	Fragments of ceramic ventilators or finials (Drawn by Jane Timby/Frances Taylor)	229
Fig. 106.	Location of Period 4 contexts producing fragments of crucible	233
Fig. 107.	The distribution of slags associated with ferrous metalworking in Period 3	235
Fig. 108.	The distribution of slags associated with ferrous metalworking in Period 4	237
Fig. 109.	Location of human remains (neonates and adult) from Period 3 and 4 contexts	241
Fig. 110.	Proportion of major domestic animals according to feature type (%)	246
Fig. 111.	Period 3: percentage survival (elements arranged according to Brain 1969)	247
Fig. 112. Fig. 113.	Period 4: percentage survival (elements arranged according to Brain 1969) South-east layers: estimated age of domestic animals according to tooth	248
	eruption and wear	249





LIST OF FIGURES

Fig. 114. Fig. 115.	South-east layers: estimated age of death according to bone epiphyseal fusion Butchered cattle scapula showing removal of acromion	250 251
Fig. 115.	Cut marks on cattle 1st phalanx	251
Fig. 110. Fig. 117.	Cattle pelvis and navicular cuboid with evidence of degenerative osteoarthritis	252
_		252
Fig. 118.	Cattle 1st phalanx with exostosis at the site of the tendon insertion	
Fig. 119.	Abnormally splayed cattle metatarsal with shave marks from Period 3 deposits	253 254
Fig. 120.	South-east layers: proximal breadth and depth of cattle metapodials	234
Fig. 121.	Period 3: 'House 1', pits, wells and south-east layers: taxa representation according to Object	255
Fig. 122.	Sheep/goat metacarpal from Period 4 deposits with ossification at the site of the tendon attachment	259
Fig. 123.	Butchered and pathological pig humerus from Period 4 deposits	259
Fig. 124.	Evidence for hip dysplasia on a badger pelvis and femur from Period 4 deposits	260
Fig. 125.	Period 4: 'House 1', pits, wells and south-east layers: taxa representation	
	according to Object	261
Fig. 126.	Period 3: density of dog remains (upper) and evidence of skinning (lower)	272
Fig. 127.	Period 4: density of dog remains (upper) and evidence of skinning (lower)	275
Fig. 128.	Estimated shoulder heights of dogs from Silchester and elsewhere in Roman	
	Britain, second to third centuries	277
Fig. 129.	Location by period of pits and wells producing macroscopic plant and	
	invertebrate remains	282
Fig. 130.	Percentage of terrestrial Coleoptera	283
Fig. 131.	Summary of the incidence of carbonised plant remains	286
Fig. 132.	Location of pit 5251 (Period 2)	294
Fig. 133.	Pollen percentage diagram from context 5276, pit 5251. For pollen sums see	
	text. Presence of Trichurid ova is also indicated	296
Fig. 134.	Egg of human whipworm (Trichuris trichiura) from context 5276	297
Fig. 135.	Pits with complete or near complete pots (Periods 3 and 4)	302
Fig. 136.	Pits with dog remains (Periods 3 and 4)	303
Fig. 137.	Pits with the remains of wild animals (Period 4)	305
Fig. 138.	Densities of (a) cbm and stone, (b) pottery and bone, and (c) nails and slags from pits and wells of Periods 3 and 4	309
Fig. 139.	Proportional representation of principal categories of finds from pits and	
	wells of Periods 3 and 4	310
Fig. 140.	Weights of (a) pottery and animal bone, (b) nails, slag and stone, and (c) cbm from each context of Period 4 pit 2601	312
Fig. 141.	Proportional representation of principal categories of finds from each	
	context of Period 4 pit 2601	313
Fig. 142.	Weights of (a) pottery and animal bone, (b) nail, slag and stone, and (c)	
	cbm from each context of Period 4 well 5735	314
Fig. 143.	Proportional representation of principal categories of finds from each	
	context of Period 4 well 5735	315
Fig. 144.	Weights of (a) pottery and animal bone, (b) nails, slag and stone, and (c)	
	cbm from pit 2434	316
Fig. 145.	Proportional representation of principal categories of finds from Period 4 pit	
	2434	317
Fig. 146.	Isometric interpretations of Period 3 buildings MB 1 and MB 2 (By	
	Margaret Mathews)	321
Fig. 147.	Isometric interpretations of Period 4 MB 3 (By Margaret Mathews)	324
Fig. 148.	Two pictorial interpretations of the Period 3 buildings (By Margaret	
-	Mathews)	328
Fig. 149.	Two pictorial interpretations of Period 4 MB 3 (By Margaret Mathews)	336
Fig. 150.	A view from the doorway of MB 3 south-eastwards across the gravel yard	
	(By Margaret Mathews)	340







LIST OF TABLES

		Pag
Table 1.	Archaeological contexts sampled for chemical analysis	54
Table 2.	Concentrations of phosphorus and calcium found in Period 3 contexts	51
Table 3.	Concentrations of phosphorus and calcium found in Period 4 contexts	57
Table 4.	Concentrations of gold (Au), tin (Sn) and silver (Ag)	59
Table 5.	Classification key for micromorphological components	66
Table 6.	Classification key for post-depositional textural pedofeatures	66
Table 7.	Deposit type categories: micromorphology descriptions of the sediment	
	properties	6
Table 8.	Frequency of all inclusion types	78
Table 9.	Frequency of burnt and non-burnt bioarchaeological inclusions and	
	microartefacts	82
Table 10.	Abundance of post-depositional alterations and pedofeatures	86
Table 11.	Silchester Insula IX coins, A.D. 117–260: states of wear, by period	96
Table 12.	Woods used for writing-tablets from various sites in Roman Britain	117
Table 13.	Summary of functional categories represented in each Object	12
Table 14.	Bottle fragments	139
Table 15.	Window glass	141
Table 16.	Summary of statistics for sigillata from context 3836	187
Table 17.	Periods 3 and 4 stone assemblage: rock types, function, geological source	
	and distance from outcrop	205
Table 18.	Quantification of quernstone (including reused material)	209
Table 19.	Quantitative analysis of ceramic building material	220
Table 20.	Tegulae recovered from the pits, wells and layers of Periods 3-4 and	
	comparative material from Period 2	225
Table 21.	Tegula dimensions	226
Table 22.	Number of relief-patterned dies found in towns	228
Table 23.	Dimensions of complete ceramic pieces	228
Table 24.	Quantification of the oyster shell in the pits in the south-east of the trench	279
Table 25.	Oysters: summary of infestation and age	280
Table 26.	'Special deposits' in pits and wells of Periods 3 and 4	308
Table 27.	Period 3 timber buildings MRTB 1/ERTB 1, Object 50037, summary catalogue of small finds	365
Table 28.	Period 3 Masonry Building 1, Object 50018, summary catalogue of small finds	368
Table 29.	Period 3 Masonry Building 2, Object 50019, summary catalogue of small finds	370
Table 30.	Period 4 Masonry Building 3, Object 50046, summary catalogue of small finds	37
Table 31.	Periods 3 and 4 south-eastern pits, Object 500017, summary catalogue of	374
Table 32.	small finds Period 3 northern pits, Object 50029, summary catalogue of small finds	379





xiii

LIST OF TABLES

•

Table 33.	Period 3 south-eastern occupation, Object 701, summary catalogue of small finds	380
Table 34.	Period 4 south-eastern occupation, Object 700, summary catalogue of small	300
	finds	385
Table 35.	Quantified summary of samian fabrics	399
Table 36.	Quantified summary of pottery assemblage from Period 3	400
Table 37.	Quantified summary of pottery from Period 3 well 5693 (Object 500035)	404
Table 38.	Quantified summary of pottery from Period 3 pit 5039 (Object 44008)	405
Table 39.	Quantified summary of pottery from Period 3 well 2234 (Object 41016)	406
Table 40.	Quantified summary of pottery from Period 3 pit 4835 (Object 500028)	407
Table 41.	Summary of pottery from Period 3 layers, Object 701 (no./wt/eve)	408
Table 42.	Summary of samian fabrics from Period 3 layers, Object 701	410
Table 43.	Quantified summary of pottery assemblage from Period 4	411
Table 44.	Quantified summary of pottery from Period 4 pit 3406 (Object 500033)	414
Table 45.	Quantified summary of pottery from Period 4 pit 3102 (Object 500034)	415
Table 46.	Quantified summary of pottery from Period 4 well 5735 (Object 500037)	416
Table 47.	Quantified summary of pottery from Period 4 well 1750 (Object 500020)	417
Table 48.	Quantified summary of pottery from Period 4 pit 2434 (Object 500031)	417
Table 49.	Quantified summary of pottery from Period 4 pit 2601 (Object 500032)	418
Table 50.	Breakdown of forms (expressed as % EVE) across the pits and wells of	
	Periods 3 and 4	419
Table 51.	Summary of samian fabrics from Object 700	419
Table 52.	Summary of pottery from Period 4 layers, Object 700 (no./wt/eve)	420
Table 53.	Summary of the representation of forms (% EVE) from Period 3 pits and	
	wells and south-east layers	421
Table 54.	Summary of the representation of forms (% EVE) from Period 4 pits and	
	wells and south-east layers	422
Table 55.	Comparison of the representation of the main ware groups between the pits	
	and wells of Periods 3 and 4 and the 4th–5th century (Fulford et al. 2006)	422
Table 56.	Tegulae: context assemblages	423
Table 57.	Taxa representation according to recovery method (NISP)	425
Table 58.	South-east layers (Object 701): numbers of paired and articulated	
	specimens (NISP)	427
Table 59.	(a) South-east layers: minimum number of elements and individuals	427
	(b) 'House 1' sequence: minimum number of elements and individuals	428
Table 60.	Anatomical representation of selected taxa (NISP)	429
Table 61.	South-east layers: anatomical representation of birds (NISP)	433
Table 62.	Incidence of gnawing (NISP)	435
Table 63.	Incidence of butchery (NISP)	435
Table 64.	South-east layers: evidence for deliberate breakage in Object 701 (NISP)	436
Table 65.	Incidence of burning (NISP)	436
Table 66.	Estimate of withers height (mm)	436
Table 67.	South-east layers: taxa representation according to Object (NISP)	437
Table 68.	Period 4: taxa representation in ephemeral houses in Object 700 (%NISP)	439
Table 69.	South-east layers: estimated age according to dental data (after Levine 1982;	420
T-1-1- 70	Legge 1991; Payne 1973; O'Connor 1988)	439
Table 70.	'House 1' sequence: estimated age according to tooth eruption and wear	111
Table 71	(after Levine 1982; Legge 1991; Payne 1973; O'Connor 1988)	444
Table 71.	Estimated age according to epiphyseal fusion (NISP) 'House 1' sequence: estimated age according to epiphyseal fusion	445
Table 72. Table 73.	'House 1' sequence: estimated age according to epiphyseal fusion	448 451
Table 73.	Metrical data for mammals: south-east layers Metrical data for mammals: 'House 1' sequence	466
Table 74.	Metrical data for mammais: House 1 sequence Metrical data for birds	470
Table 75.	Dog tooth wear	474
1aoic / 0.	Dog tooth went	-





Table 77.	Dog measurements: skull. Period 3 Object 500028 pit 4835 (5867)	475
Table 78.	Dog measurements: axial and appendicular. Period 3 pits	475
Table 79.	Dog measurements: skull. Period 3 Object 701	475
Table 80.	Dog measurements: mandible. Period 3 Object 701	476
Table 81.	Dog measurements: axial and appendicular. Period 3 Object 701	477
Table 82.	Dog measurements: skull. Period 4 pits	477
Table 83.	Dog measurements: mandible. Period 4 pits	478
Table 84.	Dog measurements: axial and appendicular. Period 4 pits	478
Table 85.	Dog measurements: mandible. Period 4. Object 700	480
Table 86.	Dog measurements: axial and appendicular. Period 4 Object 700	481
Table 87.	Dog: estimated shoulder height	481
Table 88.	Dog: cut marks. Period 3	482
Table 89.	Dog: cut marks. Period 4	482
Table 90.	Dog: cut marks summary	483
Table 91.	Period 4 pit 2601: comparative dog measurements	483
Table 92.	Plant taxa identified from mid-Roman Silchester, Insula IX	485
Table 93.	Waterlogged seeds from mid-Roman Silchester, Insula IX	488
Table 94.	Other waterlogged plant remains from mid-Roman Silchester, Insula IX	490
Table 95.	Coleoptera from mid-Roman Silchester, Insula IX	490
Table 96.	Other insects from mid-Roman Silchester, Insula IX	492
Table 97.	Charred plant remains from mid-Roman Silchester, Insula IX	492
Table 98.	Mineralised plant remains from mid-Roman Silchester, Insula IX	493
Table 99.	Mineralised insect and other Arthropod remains from mid-Roman	
	Silchester, Insula IX	495
Table 100.	Waterlogged seeds from the mid-Roman latrines, Silchester, Insula IX	496







ACKNOWLEDGEMENTS

This reporting of the archaeology of Insula IX in the second and third centuries A.D. relates back to fieldwork undertaken between the start of the project in 1997, when the remains of the townhouses reported here, which we now know date back to the early second century, began to come to light, and 2005 when the excavation of the last pits and wells of this phase of the project was completed.

The publication of *City in Transition*, as well as the continuation of the Silchester Insula IX Town Life Project, now in its fourteenth year, owes a great debt of gratitude to many organisations and individuals. First and foremost our University has provided both framework, through the Department of Archaeology and the School of Human and Environmental Sciences, of which the department is a member, and core resource, in underpinning both the undergraduate training experience, the Field School, at Silchester and the permanent staffing necessary both to manage that, and provide the essential underwriting and continuity of the post-excavation research. At the same time, without the support of the Hampshire County Council, the owner of the Roman town, and of English Heritage, who mediated the Scheduled Monument Consent granted by the Department of Culture, Media and Sport in 1997 and renewed in 2002 and 2007, the excavation could not have taken place.

The project has depended on grants from a number of organisations, academic, private and local authority, all of which are gratefully acknowledged here: first and foremost, The Arts and Humanities Research Council has been the principal supporter of the post-excavation programme (2005–8),¹ followed by The Leverhulme Trust, which awarded the first author a Major Research Fellowship (2004–7). Since 2005 The Calleva Foundation has provided continuous support for the project and, with The Headley Trust, has allowed us to develop a distinctive, scientific strand (Science@Silchester), led by Dr Sam Cook. Welcome annual support has also been provided by The Haverfield Bequest (University of Oxford), which has funded the conservation of our artefacts. The Arts and Humanities Research Council also supported the PhD studentship (2006–9) of Rowena Banerjea (Ch. 4).

In regard to the continuation of the excavation — the source of the data reported here — and its promotion to the wider public, Basingstoke and Deane Borough Council and The Hampshire County Council have, each year, generously provided us with the means to open the site to the public and maintain a visitor programme.

As funding has become ever more difficult, we are profoundly grateful to new supporters of the project, and of the Field School in particular. GML Ltd, along with The Englefield Charitable Trust, The Fishburn Family Trust, and The Horne Foundation have, since 2007, provided us with a level of support without which the Field School could not have been sustained. Through its sponsorship of villagers to take part, the Silchester Association has also provided much valued support to the Field School, while The Society for the Promotion of Roman Studies, through its imaginative bursary scheme, has also, each year, funded the participation of sixth-formers in the excavation. The engagement of local schools and colleges in the project owes a great deal to the pump-priming provided by a Heritage Lottery grant in 2004.





AHRC Grant reference: RGST/PID/120879/AID112201



Many individuals have been wonderful supporters of the project, in particular Nick and Biddy West of The Old Manor House, Silchester, who have assisted it in very many ways since its inception, not least through their warm hospitality each summer and in making generous space available in the barns for us to work on the finds and store equipment. They, and John Cook of Church Lane Farm, Silchester, also warmly generous in his support of the project, are among a growing group of supporters of the project, which Dudley Fishburn, member of the University's Council, has been instrumental in bringing together. Pre-eminent among these are Stephen Butt and Timothy Osborne and to them, but particularly to Dudley Fishburn and his wife, Victoria, we, and the University, owe an enormous debt of gratitude for their energetic support and enthusiasm for the project.

We thank Marilyn Tucker, former Mayor of Basingstoke and Deane, who has been a great supporter of the project throughout.

The Recreational Society, AWE, Aldermaston has been unfailingly generous every season in providing its sports club showers and facilities for the use of the participants in the excavation.

The tenancy of the County Council's estate at Silchester has moved from father to sons. We are grateful to the Best family for their understanding and support of the project throughout.

From Hampshire County Council we thank the late Alderman Dudley Keep, Chair of the County's Silchester Panel, Robin Edwards, Head of the County's Estate Practice, David Hopkins, County Archaeologist, David Allen, Keeper of Archaeology, and Kay Ainsworth, Hampshire County Museums Service. We also thank Dr Richard Massey, Inspector of Ancient Monuments, English Heritage, for his continued support and helpful facilitation of Scheduled Monument Consent for the project.

From the University of Reading we thank the Vice-Chancellor, Professor Gordon Marshall, and his predecessor, Professor Sir Roger Williams, for their unfailing support of the project since its inception, as well as that of the successive Heads of Archaeology: Professors Grenville Astill, Bob Chapman and Roberta Gilchrist; and the Heads of School, Professors Steven Mithen and Rob Potter, and acting Head of School, Stephen Northcliffe, through their various terms of office. Margaret Mathews is the principal illustrator of this volume, but she has also helped with each field season, not only with the planning, but also the interpretation of the excavation to visitors, not least with her richly imaginative reconstructions, some of which are presented in this report. Close, enthusiastic and energetic support of the excavation and post-excavation has been magnificently provided by the successive Silchester Project technicians: Dr Ruth Shaffrey (1998–2002), Klare Tootell (2002–9), who has contributed to this report, and, since 2008, Frances Taylor. We are grateful, too, to Sandie Williams, who, thanks to the AHRC funding, capably and enthusiastically looked after the needs of all our specialists and herself contributed to this report. We also thank Heather Browning, School Administrator, for her much appreciated help in many aspects of the organisation of the Field School. During the excavation seasons Ted Logan and Alan Absalom of the University's Facilities Management Directorate have provided much welcomed assistance with the logistics.

We warmly thank Mike Rains and the York Archaeological Trust, who have supported and developed our database, the IADB, from the inception of this project. Storing all the excavation and finds records in the IADB is an absolutely integral part of the Insula IX Town Life Project, and an essential foundation of, and tool for the post-excavation process. Through the OGHAM and VERA projects, generously supported by the JISC as part of their VRE (Virtual Research Environments) Programme, we have enhanced the ways in which we capture data in the field and engage the members of our research team in the use and development of the IADB. With JISC's assistance we have also experimented successfully with full, on-line publication in *Internet Archaeology*.

We are ever grateful to Dr Rachel Stewart who managed the Heritage Lottery-funded Access Project in 2004–5. She successfully set in place for future seasons the practice and procedure for the management and support of visitors, including the development of the Silchester website.

We remain indebted to Jean Chapman, who, with assistance from Serena Bartlett and Lorraine Mepham, and her husband, Chris, continued to cater for the very large numbers of students and other participants throughout the majority of seasons associated with this phase of the Town Life







Project, working heroically (and stoically) in far from ideal conditions on site. Following Jean's retirement at the end of the 2004 season, the role was shared by students and we thank Sarah Bell, Jude Haigh, Jessica Horniblow and Stuart Kennedy for their help in feeding the team.

To the roll call of supervisors and assistant supervisors acknowledged in *Life and Labour* we add and thank the following, who supported the project up to and including 2005: Edeltraud Aspoeck, Chris Ball, Meredith Carroll, Rob Cole, Jonathan Dicks, Jodie Ford, Ruth Hatfield, Sarah Henley, Dave Houghton, Tom Lyons, Jody Morris, Nick Pankhurst, Gareth Rees, Rebecca Rooney, Duncan Sayer, Rik Sayer, Adam Tinsley, Tamsin Turner and Dan Waterfall. An invaluable supervisor training scheme was set up in 2003 and we thank Kari Bower, Hannah Brown, Susan Brown, Anna Browne-Ribiero, Belinda Crerar, Helen Crossman, Elizabeth Jones, Georgina McHugh, Elizabeth Poulteney, Anthony Roach, Sue Taplin, Jeni Thurstan and Rebecca West for their support of the project.

We thank other key members of the on-site team: Dan Wheeler, Dave Houghton and Lucy Offord for their management of the planning; Darren Baker, Julie Cassidy, Liz Clark, Elise Fraser, Kay Rushton and Sandie Williams for looking after the finds processing, supported by Peter Davies, Oliver Hartree and John Hefferan, and under the attentive oversight of Hella Eckardt. We thank Nancy Fulford, Ann Griffin, Sean Keating and Klare Tootell for taking care of the processing of environmental samples with oversight by Dr Sam Cook assisted by Rowena Banerjea; Margaret Dixon and Mike Eckhoff for looking after the site photography; and Natalie Head, Kat Lund and Verity Murricaine for managing the visiting general public. Margaret James and Lyn Simmonds were invaluable administrative assistants during several excavation seasons, while Jon Tierney, site manager since 2002, proved indispensable in his support over many seasons in maintaining the infrastructure of the project.

We warmly thank all our contributors to this report. Together, their work has helped create a very rich and remarkable characterisation of life in Insula IX in the second and third centuries A.D. Claire Ingrem thanks Dale Serjeantson for her advice and Kate Clark for her assistance with the pathological bones reported in her chapter. Margaret Mathews thanks John Smith for helpful discussions of her interpretations of the Insula IX buildings and for his encouragement in the writing of her contribution, and Peter Warry for his helpful comments on roofing.







xviii



•





PREFACE

The Silchester Insula IX Roman Town Life Project began in 1997 with the objective of investigating in detail the structural and stratigraphic development of a substantial area of the Roman town from its origins in the late Iron Age to its demise in the fifth to seventh century A.D. and, at the same time, capturing the evidence for the changing life and occupations of the inhabitants. Insula IX, a block devoid of public buildings at the intersection of the main east—west and north—south streets of the town, and immediately to the north—west of the forum—basilica, was selected and an area of 3,025 square metres was identified for excavation in the northern part of the insula. The latter had been excavated in 1893–4 as part of the Society of Antiquaries' project to excavate the entirety of the Roman town at Silchester and its selection in 1997 was determined on the basis of the Victorian findings of larger town-houses and smaller buildings, probably houses-cum-workshops. Those early excavations proved to be limited to the exposure of the latest surviving phases of the masonry buildings identified by trial-trenching, leaving the majority of the stratigraphy untouched (Fulford and Clarke 2002). The quality of what has survived earlier excavation is indicated by the project completing its thirteenth season of excavation in the summer of 2009, reaching occupation of the mid-first century A.D.

City in Transition is the second 'monograph' report, following on from the publication of the fourth-century and later archaeology in *Life and Labour in Late Roman Silchester* (Fulford *et al.* 2006). This, in its turn, built on the publication of the Victorian excavations (Fulford and Clarke 2002) and the late/post-Roman Ogham stone and its context (Fulford *et al.* 2000). In addition, the development of the major town-house ('House 1') within the area under excavation was selected for electronic publication in *Internet Archaeology* (Clarke *et al.* 2007) to demonstrate the opportunities the electronic medium offers for presenting the complete underlying archive of the stratigraphic record, along with the conventional narrative of the structural and stratigraphic record and the reporting of the associated finds. This initiative built on the website publications linked to the publication of the Victorian archaeology in 2003 (www.silchester.reading.ac.uk/victorian) and of the late Roman archaeology in 2005 (www.silchester.reading.ac.uk/later).

In reporting all the archaeology across the excavation area of the period between the early second century and the mid/late third century *City in Transition* puts the relevant 'House 1' sequence in its wider context. There is inevitably some duplication with the electronic publication (Clarke *et al.* 2007), but the scale of the pottery and animal bone assemblages, in particular, is such that *City in Transition* only contains summaries of the previously reported material. To gain the full picture it is necessary to consult the electronic publication. Shaping the chronological scope and periodisation of the stratigraphic sequence for both the *Internet Archaeology* and *City in Transition* publications required an extensive, initial programme of spot dating using the coin and pottery evidence. This identified four periods of development of which *City in Transition* is concerned with two, Periods 3 and 4 (see below, Introduction). One exception made to this was to include a major assemblage of environmental evidence from a large latrine pit filled at the end of Period 2, *c.* A.D. 125 (see below, Robinson, Ch. 16 and Dark, Ch. 17).

While it is clear now from the ongoing excavation that Period 2 represents a radical departure from the preceding phase of occupation with the construction *de novo* of two new complexes of timber building, including the first, timber phase of the 'House 1' sequence, *City in Transition*





reports only on the second and third phases of that development (Periods 3 and 4). The first phase of 'House 1', as first described in Clarke *et al.* (2007), will be further reported along with the rest of the Period 2 occupation in the next stage of 'final' reporting. A significant virtue of the *Internet Archaeology* publication is that it embraces the complete lifespan of an evolving household of one or more kin groups ('House 1') and their associated property through three phases of building, from the late first century A.D. until the final destruction of the house and associated re-allocation of space within the insula in the second half of the third century A.D.

The rationale for publishing fully while the excavation still continues downwards to the earliest Roman and late Iron Age levels, and thereby reversing the normal presentation of the archaeological sequence from earliest to latest, is pragmatic: the avoidance of the accumulation of a substantial backlog of unreported structures and stratigraphy with all their associated finds, both material and biological, and environmental data. At the same time there have been significant developments of methodology which have increased the volume and range of information arising from the project. Unlike Life and Labour, City in Transition has benefited from systematic research into soil chemistry (Cook, Ch. 3) and micromorphology (Banerjea, Ch. 4), both of which have made very significant contributions to the interpretation of the occupation and use of structures in the second and third centuries. In particular, these new directions of research have led to a completely different interpretation of one of the second-century timber buildings from that reported in Clarke et al. (2007). This new work highlights the general difficulties that the Insula IX project has had in the identification and interpretation of timber buildings in general since its inception. City in Transition presents the evidence for six timber buildings which were not recognised as such with any confidence during the excavation itself. To the interpretation of two of these geochemistry and soil micromorphology have made vital contributions. Without any doubt a wider application of these approaches would have contributed significantly to the recognition and interpretation of the other structures lacking clear and coherent evidence of structural features such as clay walls, posts or horizontally laid beams.

The reports on the geochemistry and soil micromorphology are presented immediately after the description of the structural and stratigraphic sequence. In presenting their data both contributors have required colour in order to illustrate their results satisfactorily. This has also chimed well with the need for as informative a presentation as possible of the complex structural evidence and its interpretation as standing buildings emerging from the excavation of Insula IX. Indeed, as prefigured in *Life and Labour*, Mathews' reconstructions extend beyond the buildings to their context within the insula, for which colour is, of course, essential. Thus, and representing a significant departure from the publication of *Life and Labour*, that of *City in Transition* makes significant use of colour. Colour is, of course, intrinsic to the archival database record of excavation and finds' images which, as with *Life and Labour*, are available electronically via www.silchester.reading.ac.uk/cit.

We are also very pleased to publish in Appendix 1 Dave Wythe's full list of Iron Age and Roman coins originally recorded and catalogued by George Boon, 1951–4.

Michael Fulford and Amanda Clarke Department of Archaeology University of Reading November 2009



