

Winchester – a City in the Making

**Archaeological excavations between 2002–2007
on the sites of Northgate House, Staple Gardens
and the former Winchester Library, Jewry St**

by Ben M Ford and Steven Teague
with Edward Biddulph, Alan Hardy and Lisa Brown

with contributions by

*Martin Allen, Alex Bayliss, Paul Booth, Christopher Bronk Ramsey,
Greg Campbell, Wendy Carruthers, Dana Challinor, Gordon Cook, H E M Cool,
John Cotter, John Crowther, Gill Cruise, Philip de Jersey, Anne Dodd, Seren Griffiths,
Mark Hounslow, Andrew K G Jones, Vassil Karloukovski, Hugo Lamdin-Whymark,
Richard Macphail, Peter Marshall, Cath Mortimer, Rebecca Nicholson,
Cynthia Poole, Ruth Shaffrey, David Starley, Lena Strid, Helen Webb*

Illustration and design by

*Sophie Lamb, Magdalena Wachnik, Dan Bashford, Mark Gridley,
Ros Lorimer, Sarah Lucas*

Oxford Archaeology Monograph No 12

2011

The publication of this volume has been generously funded by Keyhaven Land (a company in the Merlion Group) and Hampshire County Council, with additional contributions from Laing Homes Ltd and English Heritage

Published by Oxford Archaeology as part of the Oxford Archaeology Monograph series

Designed by Oxford Archaeology Graphics Office

Reconstruction illustrations by Mark Gridley

Edited by Anne Dodd and Alex Smith

© Oxford Archaeology Ltd

Figures 1.1 and 1.3 reproduced from the Ordnance Survey on behalf of the controller of Her Majesty's Stationery Office, © Crown Copyright, AL 100005569

Front cover

Artist's impression showing the area of the excavated site and the north-west corner of the late Saxon *burh* during the mid-10th to mid-11th century, by Mark Gridley

ISBN 978-0-904220-64-3

Typeset by Production Line, Oxford

Printed in Great Britain by Information Press, Eynsham, Oxford

Contents

List of Figures	xiii
List of Plates	xvi
List of Tables	xix
Digital Contents	xxi
Summary	xxiii
Acknowledgements	xiv

Chapter 1: Introduction *by Ben M Ford*

THE PROJECTS	1
General introduction to the projects	1
The archives	1
The structure of the report	1
LOCATION	3
GEOLOGY AND TOPOGRAPHY	5
THE HISTORICAL AND ARCHAEOLOGICAL SETTING	6
Background	6
The pre-Roman period	7
The Roman period	10
The post-Roman: early and middle Saxon periods	11
The late Saxon period	12
Post-Norman Conquest: The Anglo-Norman and medieval periods	12
<i>The project area from medieval documentary sources</i>	13
<i>The project area from the archaeological sources</i>	18
The post-medieval and modern periods	19
THE ARCHAEOLOGICAL MITIGATION PROCESS	19
General	19
Site specific strategies	21
<i>The Northgate House site and the Archaeological Mitigation Strategy</i>	21
<i>The Discovery Centre site and the Archaeological Mitigation Strategy</i>	24
Fieldwork	25
Historic Building Recording	25
Open Area Excavation	25
Watching Brief	25
General comment on stratigraphic recording and Harris matrices	25
General comment on the <i>in situ</i> preservation of archaeological remains	25
POST-EXCAVATION	29
The approach to post-excavation and the archives	29
The research framework	29
<i>The pre-Roman period</i>	29
<i>The Roman period</i>	29
<i>The late Saxon period</i>	29
<i>The Anglo-Norman and medieval periods</i>	29
Dating, phasing and grouping: stratigraphy, artefactual and ecofactual evidence, and scientific dating	30
<i>Grouping</i>	31
SUMMARY OF RESULTS: DEPOSIT SURVIVAL, SITE PHASES AND THE SEQUENCE OF LAND USE	31
Phase 1: Pre-Roman	31

Phase 1.1: Early Iron Age	31
Phases 1.2 and 1.3: Middle - late Iron Age	31
Phase 2.1: Early Roman	31
Phase 2.2: Middle Roman	34
Phase 2.3: Late Roman	34
Phase 2.4 and 3: Latest Roman and early-mid Saxon	34
Phase 4.1: Earliest late Saxon	34
Phase 4.2: Later late Saxon	34
Phase 5: Anglo-Norman	34
Phase 6: Medieval	35
Phase 7: Post-medieval	35
Phase 8: Modern	35

Chapter 2: Prehistoric and Roman evidence *by Lisa Brown and Edward Biddulph*

GEOLOGY AND TOPOGRAPHY	37
THE PREHISTORIC SETTLEMENT (PHASE 1) <i>by Lisa Brown</i>	37
Introduction	37
Phase 1.1 (c 700–400 BC): Early Iron Age roundhouses	40
Structure NH8502	41
Structure NH8508	42
Phase 1.2 (c 400–100 BC): Middle Iron Age roundhouses	45
Structure NH8507	45
Structure NH8509	45
Structure NH8504	45
Structure NH8505	45
Structure NH8506	45
Environmental remains from the middle Iron Age structures	46
Holloway CC7000	47
Undated features (Phase 1)	48
Phase 1.3 (c 100 BC–AD 43): Late Iron Age subsoil	48
THE ROMAN OCCUPTION (PHASE 2) <i>by Edward Biddulph</i>	48
Introduction	48
Phase 2.1 (c AD 43–130/50): Early Roman structures, street surfaces and a water channel	50
Phase 2.2 (c AD 130/50–270): Mid Roman domestic and industrial occupation	55
Phase 2.3 (c AD 270–350/75): Late Roman structures and a street	60
Phase 2.4 (c AD 350/75–400/50): Latest Roman Dark Earth	70

Chapter 3: The late Saxon period (c 850–1050) *by Steve Teague*

THE INHERITED LANDSCAPE (PHASE 3)	71
THE LATE SAXON PERIOD (PHASE 4)	72
Phasing methodology	72
The organisation of the description: streets and properties	73
Property boundaries	76
THE EARLY SURFACES OF BRUDENE STREET	77
BRUDENE STREET EAST	78
Property BE 1	78
Phase 4 pits	78
Property BE 2	83
Phase 4.2 pits	83
Phase 4.2 structural evidence	85
Group CC7014	86
Group CC7009	86
Property BE 3	86
Phase 4 pits	86
Property BE 4	87

Contents

<i>Phase 4.2 pits</i>	87
Pit Group CC7018.....	87
Pit Group CC7023.....	87
Pit Group CC7020.....	89
Pit Group CC7022.....	89
<i>Structural evidence—Cellar CC3261</i>	89
Property BE 5	89
<i>Phase 4.2 boundaries</i>	89
<i>Phase 4.2 Property BE 5 (W)</i>	91
Pit Group CC7046.....	91
Structural evidence	92
<i>Phase 4.2 Property BE 5 (E)</i>	93
BRUDENE STREET WEST	93
Property BW 1	93
<i>Phase 4.1 yard and pits</i>	93
<i>Phase 4.2 pits</i>	93
Property BW 2	94
<i>Phase 4.1 structural evidence</i>	94
<i>Relationship between structures on Property BW 2 and Brudene Street</i>	94
Structure NH8525.....	94
Structure NH8643.....	95
Structure NH8526.....	95
Yard NH8528.....	97
Fence Line (Posthole Group NH8527)	97
Structure NH8529.....	97
<i>Phase 4.1 pits</i>	99
<i>Phase 4.2 structural evidence</i>	99
Structure NH8530.....	99
<i>Phase 4.2 pits</i>	101
Property BW 3	101
<i>Phase 4.1 structural evidence</i>	101
<i>Phase 4.1 pits</i>	102
<i>Phase 4.2 Structure NH8556</i>	102
Exterior Area	103
Property BW 4	104
<i>Phase 4.1 structural evidence</i>	104
Structure NH8566.....	104
Structure NH8567.....	105
<i>Phase 4.1 pits</i>	105
<i>Phase 4.2 Structure NH8567</i>	106
<i>Phase 4.2 pits</i>	107
Property BW 5	107
<i>Phase 4.1 structural evidence</i>	107
Structure NH8585.....	107
Structure NH8586.....	107
<i>Phase 4.1 pits</i>	107
The southern group	107
The northern group	108
<i>Phase 4.2 structural evidence</i>	109
Structure NH8589.....	109
Structure NH8590.....	110
<i>Phase 4.2 pits</i>	110
Property BW 6	111
<i>Phase 4 Structure NH8604</i>	111
<i>Phase 4 pits</i>	111
SNITHELING STREET	111
Property SE 1	111

Phase 4.1 pits	112
Phase 4.2 pits	112
Property SE 2	113
Phase 4.2 structural evidence	113
Early activity	113
Structure NH8624	113
Structure NH8642	113
Structure NH8622	114
Phase 4.2 pits	115
Property SE 3	116
Phase 4 boundary evidence	116
Phase 4 pits	116
Pit Group NH8632	116
Pit Group NH8636	117
Phase 4 Yard or Lane NH8637	117

Chapter 4: The Anglo-Norman and later medieval period (c 1050–1550)

by Steve Teague and Alan Hardy

INTRODUCTION	119
THE ANGLO-NORMAN PERIOD (PHASE 5)	119
BRUDENE STREET EAST	121
Property BE 1	121
Structural Group CC7057	121
Pits	121
Property BE 2	122
Structural evidence	122
Pits	122
Property BE 3	122
Structural evidence	122
Pits	124
Property BE 4	124
Structural evidence	124
Structure CC7024	124
Structure CC7025	125
Well CC2039	125
Pits	125
Property BE 5	126
BE 5 West ‘Property’	126
Structure CC7031	126
Pits	128
BE 5 East ‘Property’	128
Structural evidence	128
Pits	129
BRUDENE STREET WEST	129
Property BW 1	129
Property BW 2	129
Structure NH8530	129
Pits	133
Property BW 3	133
Structure NH8532	133
Well-house Structure NH3547 (?ED: TEXT SAYS NH 8564 HERE)	135
Exterior areas	137
Property BW 4	137
Structure NH8566	137
Structure NH8583	138
Exterior area	138

Contents

Pit Group NH8576	138
Pit Group NH8575	140
Property BW 5	140
<i>Structural evidence</i>	140
<i>Pits</i>	141
Pit Group NH8593	141
Pit Group NH8597	141
Well NH2495	142
Property BW 6	142
<i>Structural evidence</i>	142
<i>Pits</i>	142
SNITHELING STREET	143
Property SE 1: West side	143
<i>Pits pre-dating Structure NH8618</i>	143
<i>Structure NH8618</i>	144
<i>Pits associated with Structure NH8618</i>	144
Property SE 1: East side	144
<i>Structure HN8617</i>	144
<i>Pit Group NH8612</i>	144
Properties SE 2 and SE 3	146
Property SE 2: The chapel (Structure NH8629)	146
<i>Relationship to earlier features</i>	146
<i>Structural and associated evidence</i>	147
The stone house	149
<i>Associated features</i>	150
Property SE 3	150
<i>Quarry pit NH1034</i>	150
<i>Other pits</i>	151
THE MEDIEVAL PERIOD (PHASE 6)	152
BRUDENE STREET EAST	152
Property BE 1	152
Property BE 2	152
Property BE 3	153
Property BE 4	154
Property BE 5	154
Property BE 5 (West)	155
<i>Cellar Structure CC2100</i>	155
<i>Pits</i>	157
Property BE5 (East)	157
<i>Structure CC7038</i>	157
BRUDENE STREET WEST AND SNITHELING STREET	158
Later development of the stone house/hall	158
Properties BW 1 and SE 1	159
<i>Structure NH8535</i>	160
<i>Structure NH8536</i>	161
<i>Structure NH8615</i>	161
<i>Cellar NH5050</i>	161
<i>Structure NH8616</i>	162
<i>Structure NH8537</i>	162
Property BW 2	162
<i>Wall NH4068</i>	162
Property BW 3	162
<i>Structures NH8551 and NH8545</i>	164
<i>Well NH9630</i>	164
Properties BW 4 and BW 5	165
<i>Pit/shaft Structure NH8575</i>	166
<i>Pit Group NH8599</i>	166

POST-MEDIEVAL DEVELOPMENT OF THE SITE (PHASE 7–8)	167
Phase 7 (c 1550–1800)	167
Phase 8 (c 1800–present)	167
Chapter 5: Discussion	
THE PREHISTORIC EVIDENCE <i>by Lisa Brown</i>	169
The early prehistoric setting	169
The later prehistoric setting	169
<i>Late Bronze Age-early Iron Age Winchester</i>	169
The Discovery Centre/Northgate House early Iron Age settlement	172
<i>Middle-late Iron Age Winchester</i>	172
<i>Oram’s Arbour</i>	172
The Discovery Centre/Northgate House middle-late Iron Age settlement	174
Conclusions	175
THE ROMAN TOWN <i>by Edward Biddulph</i>	175
Origins and the pattern of development	175
Nature of occupation	177
Daily life	181
From urban to sub-urban	182
THE ANGLO-SAXON BURH, AND THE ANGLO-NORMAN AND MEDIEVAL CITY: OVERVIEW AND DISCUSSION OF THE EVIDENCE <i>by Steve Teague</i>	183
Early and mid Saxon Winchester	183
The creation of the burh	183
The streets	185
Land apportionment and tenement formation	186
Concordance with the surveys of 1100 and 1148	189
Houses and occupants	190
The development of buildings	190
Principal structures	190
Internal features	192
Ancillary structures	192
Cellars	192
Outbuildings	193
Water supply	194
Pit distribution and function	194
Industry and craft	196
Iron working	196
Non-ferrous metalworking	199
Dyeing, spinning and weaving	199
Skinning and furriering	202
Bone and horn working	202
Economic status and trade	203
The project area from the 13th century	205
The 13th and early 14th centuries	206
The project area after the early 14th century	207
THE RESIDENCE OF THE ARCHDEACON OF WINCHESTER <i>by Alan Hardy</i>	207
A summary of Cunliffe’s structural interpretation	207
The chapel	207
The chapel becomes a church?	210
The hall	211
The extent and layout of the original property	212
Phase 6: The later development of the residence	213
The ‘service range’ (Structure NH8545/NH8551)	213
Structure NH8575, the ‘dovecote’	213
Well NH9630	214
The layout of the Phase 6 residence	214
Access to the residence	214

Contents

<i>The updated design of the residence</i>	215
The material culture of the residence	215
The abandonment of the residence and the clearance of the site	216
Post-medieval activity	216
The Archdeacon's residence: overview and conclusions	216
CONCLUSIONS <i>by Steve Teague</i>	217
The date of the establishment of the burh	217
Winchester and Hamwic	218
Late Saxon occupation in Brudene Street and Snitheling Street	219
The Anglo-Norman period	219
The 13th century onwards	220
Chapter 6: Overview of the scientific dating evidence	
<i>by Seren Griffiths, Alex Bayliss, Ben M Ford, Mark Hounslow, Vassil Karloukovski, Christopher Bronk Ramsey, Gordon Cook and Peter Marshall</i>	
INTRODUCTION	221
THE FOUR SAXON TENEMENTS	224
Archaeological interpretation: the site chronology	227
Archaeological interpretation: the ceramic chronologies	229
Sensitivity analysis	230
OTHER ARCHAEOLOGICAL FEATURES	230
The neonate burial	230
Northgate House negative features	230
<i>Context NH6177</i>	230
<i>Context NH6204</i>	231
<i>Discussion</i>	231
Holloway	231
SUMMARY OF SIGNIFICANT FINDINGS	231
Chapter 7: Overview of the finds assemblages	
POTTERY	233
Prehistoric pottery <i>by Lisa Brown</i>	233
<i>Catalogue of illustrated pottery</i>	234
Roman pottery <i>by Edward Biddulph and Paul Booth</i>	234
Fabrics	234
<i>Samian ware</i>	234
<i>Fine wares</i>	234
<i>Amphorae</i>	235
<i>Mortaria</i>	235
<i>White wares</i>	235
<i>Oxidised wares</i>	235
<i>Reduced (grey and black) wares</i>	238
<i>Black-burnished ware</i>	238
<i>Grog-tempered wares</i>	238
<i>Wares in the Iron Age tradition</i>	240
Key ceramic groups	240
<i>Phase 2.1: Ceramic phase AD 55–70</i>	240
<i>Phase 2.1: Ceramic phase AD 70–130</i>	241
<i>Phase 2.2: Ceramic phase AD 130–260</i>	242
<i>Phase 2.3: Ceramic phase AD 260–350</i>	243
<i>Phase 2.4: Ceramic phase AD 350–400</i>	245
Evidence of pottery use	250
<i>Secondary use of pottery</i>	250
<i>Wear and repair</i>	250
<i>Burnt vessels</i>	251
<i>Graffiti</i>	253

<i>The pottery in its urban context</i>	253
<i>Catalogue of illustrated pottery</i>	254
Post-Roman pottery by John Cotter	257
<i>Ceramic phasing</i>	257
<i>Fabrics</i>	258
<i>Pottery fabrics by property and phase</i>	261
<i>Glazed wares: Chronological development and distribution on the site</i>	263
<i>Vessel forms by property and phase</i>	266
<i>Oil lamps: their possible significance</i>	269
<i>Other vessel forms</i>	270
<i>Vessel forms analysis: general conclusions</i>	270
<i>General conclusions</i>	272
<i>Catalogue of illustrated pottery</i>	273
BUILDING MATERIALS	286
Roman ceramic building material by Cynthia Poole and Ruth Shaffrey	286
<i>Production and distribution</i>	287
<i>The stratified groups</i>	287
<i>Phase 2.1 (c AD 43–130/50)</i>	289
<i>Phase 2.2 (c AD 130/50–270)</i>	289
<i>Phase 2.3 (c AD 270–350/75)</i>	289
<i>Illustration catalogue</i>	289
Post-Roman ceramic building material by Cynthia Poole	289
<i>Roofing</i>	290
<i>Brick</i>	290
<i>Floor</i>	292
<i>Discussion</i>	292
<i>Illustration catalogue</i>	292
Structural clay, fired clay and mortar by Cynthia Poole	292
<i>Fabrics</i>	293
<i>Forms</i>	293
<i>Oven and hearths</i>	293
<i>Industrial</i>	293
<i>Wall/Structural</i>	293
<i>Discussion</i>	294
<i>The Iron Age and Roman assemblage</i>	294
<i>The Saxon-medieval assemblage</i>	294
<i>Catalogue of illustrated fired clay</i>	295
Structural stone by Ruth Shaffrey	295
<i>Phase 1: Prehistoric</i>	295
<i>Phase 2: Roman</i>	295
<i>Phase 4: Late Saxon</i>	295
<i>Phase 5: Anglo-Norman</i>	295
<i>Phase 6: Medieval</i>	296
<i>Painted wall plaster by Edward Biddulph</i>	296
TOOLS, EQUIPMENT, PRODUCTS AND EVERYDAY OBJECTS	297
Iron Age coin by Philip de Jersey	297
Roman coins by Paul Booth	297
<i>Mints</i>	299
<i>Chronology, context and residuality</i>	299
<i>General discussion</i>	300
Post-Roman coins by Martin Allen	300
<i>Identifications</i>	300
<i>Significance</i>	301
Objects of metal, glass, shale and worked bone by H E M Cool, with a contribution by Paul Booth	301

Contents

<i>The Roman period</i>	302
<i>Shale table leg fragment by Paul Booth</i>	304
<i>The late Saxon to medieval finds</i>	304
<i>Summary catalogue of illustrated small finds</i>	307
Worked stone objects by Ruth Shaffrey	324
<i>Prehistoric (Phase 1)</i>	324
<i>Roman (Phase 2)</i>	324
<i>Late Saxon (Phase 4)</i>	324
<i>Anglo-Norman (Phase 5)</i>	325
<i>Medieval (Phase 6)</i>	327
<i>Discussion</i>	327
<i>Catalogue of illustrated stone objects</i>	327
Struck flint by Hugo Lamdin-Whymark	330
METALWORKING	330
Surface X-ray fluorescence (XRF) analysis of non-ferrous metalworking debris by Cath Mortimer	330
<i>Results</i>	331
<i>Discussion</i>	331
The metalworking debris by David Starley	332
<i>Functional categories</i>	332
<i>Iron smithing</i>	332
<i>Undiagnostic ferrous metalworking</i>	332
<i>Non-ferrous metalworking</i>	332
<i>Undiagnostic – metalworking or other high temperature process</i>	332
<i>Fuel</i>	332
<i>Discussion</i>	332
 Chapter 8: Overview of the environmental evidence	
MAMMAL AND BIRD BONE by Lena Strid	335
The assemblage	335
The Roman assemblage	335
<i>Meat-providing domestic mammals</i>	337
<i>Other domestic mammals</i>	339
<i>Wild mammals</i>	339
<i>Birds</i>	339
The late Saxon assemblage	339
<i>Meat providing domestic mammals</i>	342
<i>Other domestic mammals</i>	343
<i>Wild mammals</i>	343
<i>Birds</i>	344
The Anglo-Norman assemblage	344
<i>Meat providing domestic mammals</i>	344
<i>Other domestic mammals</i>	346
<i>Wild mammals</i>	347
<i>Birds</i>	348
The medieval assemblage	349
<i>Meat providing domestic mammals</i>	349
<i>Other domestic mammals</i>	351
<i>Wild mammals</i>	351
<i>Birds</i>	351
Worked bone and other crafts using animal remains	352
<i>Horn working</i>	352
<i>Bone and antler working</i>	353
<i>Furrier</i>	353
<i>Tawying, furring or parchment making?</i>	354

FISH REMAINS by <i>Rebecca Nicholson</i>	354
The assemblage	354
<i>Iron Age and Roman deposits</i>	354
<i>Late Saxon, 850–1050</i>	356
<i>Anglo-Norman, 1050–1225</i>	356
<i>Medieval, 1225–1500</i>	357
Discussion and conclusions	357
MARINE MOLLUSCS by <i>Greg Campbell</i>	357
HUMAN SKELETAL REMAINS by <i>Helen Webb</i>	358
Neonate burials	358
Cremated bone	359
CHARRED AND MINERALISED PLANT REMAINS by <i>Wendy Carruthers</i>	359
Methods	359
<i>Notes on preservation</i>	359
Period summaries and comparisons with contemporary sites in the area	360
<i>Pre-Roman (Phase 1)</i>	360
<i>Roman and Dark Earth (Phase 2)</i>	361
<i>Late Saxon to medieval phases (Phases 4–6)</i>	362
<i>Cereals</i>	362
<i>Pulses</i>	364
<i>Nuts, fruits, vegetables and flavourings</i>	365
<i>Possible medicinal plants</i>	367
<i>Fibre crops and possible dyeplants</i>	367
<i>Differences in waste deposition and the occurrence of fodder crops</i>	367
<i>Arable crop quality over time and corn cockle contamination</i>	368
<i>Weed ecology</i>	368
Conclusions	369
THE WOOD CHARCOAL by <i>Dana Challinor</i>	369
Late Saxon (Phase 4.1)	369
<i>Property BW 2</i>	369
<i>Property BW 4</i>	369
<i>Property BW 5</i>	370
Late Saxon (Phase 4.2)	370
<i>Property BW 2</i>	370
<i>Property BW 4</i>	370
<i>Property BW 5</i>	370
<i>Property BE 2</i>	370
<i>Property BE 4</i>	370
Anglo-Norman (Phase 5)	370
<i>Property BW 2</i>	370
<i>Property SE 1</i>	370
<i>Property SE 3</i>	370
<i>Property BE 5</i>	370
Medieval (Phase 6)	371
<i>Property SE 2</i>	371
<i>Property BE 4</i>	371
Discussion: changes over time and supplies of firewood	371
ANALYSIS OF SAMPLES FOR EGGS OF INTESTINAL PARASITES AND OTHER	
MICROFOSSILS by <i>Andrew K G Jones</i>	371
SOIL MICROMORPHOLOGY, CHEMISTRY AND MAGNETIC SUSCEPTIBILITY	
by <i>Richard Macphail and John Crowther with a contribution by Gill Cruise</i>	372
BIBLIOGRAPHY	373
INDEX	???

List of Figures

CHAPTER 1

1.1	Location of Northgate House and Winchester Discovery Centre sites	2
1.2	Location of the Northgate House and Winchester Discovery Centre development sites and other previously excavated sites in the north-west corner of Winchester	4
1.3	Topography of Winchester showing the Iron Age enclosure and the Roman and medieval defensive circuits with the locations of Northgate House and Winchester Discovery Centre sites and other excavations referred to in the text	8
1.4	The development of Winchester	9
1.5	Sequence of medieval tenement arrangements over time	14
1.6	Plan of Winchester showing the correlation between the medieval (<i>c</i> 1300) and modern street names used throughout the text	15
1.7	Location of development sites on the principal historic maps from early post-medieval to the modern period (17th-20th centuries)	20
1.8	Detailed excavation locations for the Northgate House and Winchester Discovery Centre sites	22
1.9	Schematic west-east cross-section through the sites showing the survival of the archaeological resource	23
1.10	Simplified plans showing the principal site phases	32
1.11	Schematic diagram showing the archaeological evidence for site use over time	33

CHAPTER 2

2.1	Plan of the natural topography of the site	38
2.2	Location of the excavations in relation to Oram's Arbour Iron Age enclosure	38
2.3	Plan of early Iron Age and unphased prehistoric features, Phase 1.1 (<i>c</i> 700–400 BC)	39
2.4	Plan of early Iron Age Structure NH8502, Phase 1.1	42
2.5	Plan of early Iron Age Structure NH8508, Phase 1.1	43
2.6	Plan of middle Iron Age and unphased prehistoric features, Phase 1.2 (<i>c</i> 400–100 BC)	44
2.7	Plan of middle Iron Age Structures NH8504 and NH8505, Phase 1.2	46
2.8	Plan of Holloway CC7000, Phase 1.2	47
2.9	General plan of the Roman features, Phase 2 (AD 43–400)	49
2.10	Plan of Street CC1703, channel CC1850 and Structures CC7002, CC7004, CC7006 and CC7049, Phase 2.1 (<i>c</i> AD 43–130/50)	51
2.11	Detailed plan of Street CC1703 and channel CC1850, Phase 2.1	52
2.12	Section showing deposits and features associated with Group CC7006 (surface or occupation53 deposits), Phase 2.1	53
2.13	Plan of middle Roman features, Phase 2.2 (<i>c</i> AD 130/50–270)	56
2.14	Plan of Structure NH8522 and nearby features, Phase 2.2	57
2.15	Plan of Structure NH8522: detail of collapsed burnt timbers, Phase 2.2	58
2.16	Plan of late Roman features, Phase 2.3 (<i>c</i> AD 270–350/75)	59
2.17	Plan showing phases of late Roman development in part of Northgate House, Phase 2.3	61
2.18	Sections through Street NH8511/8513, Phase 2.3	63
2.19	Plan of Structure NH8521, Phase 2.3	64
2.20	Plan of Structure NH8520, Phase 2.3	65
2.21	Plan of Pit Group NH8524 and nearby features, Phase 2.3	66
2.22	Plan of Structure CC7003, Phase 2.3	67
2.23	Plan of pits and stakeholes in the eastern part of the Discovery Centre, Phase 2.3	68
2.24	Plan showing extent of 'Dark Earth', Phase 2.4 (<i>c</i> AD 350/75–400/50)	69

CHAPTER 3

3.1	Plan of all features, Phase 4.1 (c 850–950)	74
3.2	Plan of all features, Phase 4.2 (c 950–1050)	75
3.3	Section through Brudene Street and showing adjacent occupation levels in Property BW 2, Phases 4.1 and 4.2	78
3.4	Brudene Street surfaces (Phase 4.1) and slumping Anglo-Norman deposits exposed on the south side of Property BW 3	79
3.5	Saxon Brudene street surfaces (unexcavated) and overlying Anglo-Norman floors exposed on the south side of Property BW 2 (slumping into Phase 4.1 cesspit NH4235)	80
3.6	Section through Brudene Street and flanking occupation within Property BW 4	81
3.7	Section through floors pertaining to Structure NH8586 (Property BW 5) and later deposits	82
3.8	Brudene Street (East), Plan of all features, Phase 4 (850–1050)	84
3.9	Plan showing slumped floor groups CC7009 and CC7014 within Property BE 2, Phase 4.2	85
3.10	Plan of cellar CC3261 (Property BE 4), Phase 4.2	90
3.11	Section through cellar CC3261 (Property BE 4), Phase 4.2	91
3.12	Section through ?cellar CC6052 (BE 5 East) and later features	91
3.13	Earliest occupation within Properties BW 1–2, Phase 4.1	93
3.14	Plan of Structure NH8526 and contemporary features (Property BW 2), Phase 4.1	95
3.15	Plan of Structure NH8529 (Property BW 2) and features in Property BW 1, Phase 4.1	98
3.16	Plan of Structure NH8530 and contemporary features (Properties BW 1–2), Phase 4.2	100
3.17	Plan of Structures NH8566/NH8567 (Property BW 4) and contemporary levels in Property BW 3, Phase 4.1	102
3.18	Properties BW 3 and BW 4, Phase 4.2	103
3.19	Plan of Structures NH8585 and NH8586 (Properties BW 5 and BW 6), Phase 4.1/4	108
3.20	Plan of Properties BW 5 and BW 6, Phase 4.2/4	110
3.21	Plan of Property SE 1, Phase 4.2	112
3.22	Properties SE 2 and SE 3, Phase 4.2/4	114

CHAPTER 4

4.1	Plan of all features, Phase 5	120
4.2	Properties BE 1–3, Phase 5	123
4.3	Properties BE 4–5, Phase 5	127
4.4	Properties BW 1–3, Phase 5	130
4.5	Properties BW 4–6, Phase 5	139
4.6	Property SE 1, Phase 5	145
4.7	Properties SE 2–3 in relation to structures found in Cunliffe’s excavation	148
4.8	Properties SE 2–3, Phase 5	149
4.9	Properties BE 1–3, Phase 6	153
4.10	Properties BE 4–5, Phase 6	155
4.11	Section through Cellar CC2100, Property BE 5, Phase 6	156
4.12	Feature plan (Brudene Street West), Phase 6	159
4.13	Property BW 1/SE 1, Phase 6	160
4.14	Property BW 2/BW 3, Phase 6	163
4.15	Plan of pit/shaft Structure NH8575, Phase 6	165
4.16	Section through cess pit NH2007, Phase 6	166

CHAPTER 5

5.1	The Iron Age settlement in its regional setting	170
5.2	The Iron Age settlement in its local setting	171
5.3	Roman Winchester	176
5.4	Dark Earth pottery: scattergram showing relationship between the percentage of residual pottery by sherd count and mean sherd weight	182
5.5	Land ownership in 1148 of the tenements in the region of Brudene Street and Snitheling Street	187
5.6	Saxon-Norman properties at The Brooks, Winchester with conjectural correlations with occupants named in survey of Edward the Confessor (c 1057)	188

List of Figures

5.7	Concordance of industrial and craft activity on the properties through time	197
5.8	Distribution of madder-stained pottery	201
5.9	Conjectural layout of the Archdeacon's residence at the end of the 13th century	208
5.10	Contemporary 11th to 12th century church footprints in Winchester	210
5.11	The footprints of the hall and chapel at Staple Gardens compared to those at Boothby Pagnell, Lincolnshire, and Grove, Bedfordshire	211

CHAPTER 6

6.1	Saxon archaeomagnetic dates from Northgate House, Winchester	221
6.2	Radiocarbon dates from Northgate House, Winchester	223
6.3	Components of a Bayesian chronological model	223
6.4	Summary of the relationships between dated deposits in Property BW 5	224
6.5	Summary of the relationships between dated deposits in Property BW 4	225
6.6	Summary of the relationships between other dated deposits in Property BW 3, (NH4458) is stratigraphically later than hearth (NH4692) in Property BW 2	225
6.7	Summary of the relationships between other dated deposits in Property BW 2, hearth (NH4692) is stratigraphically later than (NH4458) in Property BW 3	226
6.8	Overall structure for the chronological model of Phase 4 deposits from Northgate House, Winchester	227
6.9	Probability distributions of dates from Property BW 6 at Northgate House, Winchester	227
6.10	Probability distributions of dates from Property BW 5 at Northgate House, Winchester	227
6.11	Probability distributions of dates from Property BW 4 at Northgate House, Winchester	228
6.12	Probability distributions of dates from Property BW 3 at Northgate House, Winchester	228
6.13	Probability distributions of dates from Property BW 2 at Northgate House, Winchester	228
6.14	Probability distributions of the first dated events in Properties BW 2, BW 3, BW 4, BW 5, and BW 6 at Northgate House, Winchester	228
6.15	Probability distributions of dates from ceramic phases	229
6.16	Probability distributions of dates relating to the beginnings and endings of ceramic phases	230
6.17	Probability distributions of dates relating to the beginnings and endings of ceramic phases from the alternative model where calibrated radiocarbon dates form the standardised likelihoods component of the model	230

CHAPTER 7

7.1	Prehistoric pottery (1–6)	234
7.2	Roman pottery: Phase 2.1, AD 70–130 (1–29)	241
7.3	Roman pottery: Phase 2.3, AD 260–350/400 (30–47)	246
7.4	Roman pottery: Phase 2.4, AD 350–400 (48–58)	247
7.5	Roman pottery: Phase 2.4, AD 350–400 (59–77)	251
7.6	Roman pottery: Phase 2.4, AD 350–400 (78–115)	252
7.7	Roman pottery: Phase 2.4, AD 350–400 (116–123) and pottery of intrinsic interest, graffiti and potter's stamps and marks (124–138)	255
7.8	Post-Roman pottery: MAB (1), MAD (2–6), MAF (7), and MAQ (8–12)	274
7.9	Post-Roman pottery: MAQ (13–19) and MAV (20–26)	275
7.10	Post-Roman pottery: MAV (27–34)	277
7.11	Post-Roman pottery: MAV (35–46)	278
7.12	Post-Roman pottery: MAV (47–53), MBEAU (54–5), MBK (56–61) and MBN (62–4)	279
7.13	Post-Roman pottery: MBX (65–86)	281
7.14	Post-Roman pottery: MDF (87), MDL (88–91), MFI (92), MMU (93–101) and MNG (102)	282
7.15	Post-Roman pottery: MOE (103–5), MPAF (106), MPIN (107), MSH (108–114) and MTE (115–8)	283
7.16	Post-Roman pottery: MTE (119–124) and MWW (125–132)	284
7.17	Post-Roman pottery: MWW (133–7), MZM (138–147), UNID (148) and WWX (149–150)	285
7.18	Illustrated Roman tile (1–5)	288
7.19	Illustrated medieval tile (6–15)	291
7.20	Illustrated Fired clay (1–3)	293
7.21	The proportions of coins in Reece's phases B and D	300

7.22	Roman personal items	308
7.23	Roman textile equipment, recreational items, tools, fasteners and fittings, military equipment and religious items	309
7.24	Roman industrial by-products and miscellaneous items, and post-Roman personal equipment	311
7.25	Post-Roman personal items and textile equipment	313
7.26	Post-Roman textile equipment, household items, fittings and recreational equipment	314
7.27	Post-Roman weighing and writing equipment	315
7.28	Post-Roman writing equipment, transport items, structural finds and knives	317
7.29	Post-Roman knives, tools, fasteners and fittings	319
7.30	Post-Roman fasteners and fittings	321
7.31	Post-Roman fasteners and fittings, agricultural and horticultural equipment	322
7.32	Post-Roman hunting and military equipment, religious items and miscellaneous items	323
7.33	Worked stone (1–5)	325
7.34	Worked stone (6–8)	326
7.35	Worked stone (9–11)	328
7.36	Worked stone (12–13)	329

CHAPTER 8

8.1	Cereals as percentage of identified grain, by phase	361
8.2	Taxonomic composition of charcoal by phase	371

List of Plates

CHAPTER 1

1.1	View over the Itchen Valley and Winchester looking northwards from St Catherine's Hill	5
1.2	View over Winchester looking westwards from St Giles Hill	6-7
1.3	General view of the excavations at Northgate House	26
1.4	General view of excavations at Winchester Discovery Centre	27
1.5	View looking north-east showing the process of preservation <i>in situ</i> of deposits along the east side of Staple Gardens frontage on the Northgate House site	28

CHAPTER 2

2.1	Structure NH8502, Phase 1.1, looking south	41
2.2	Iron Age Dobunnic coin	48
2.3	Street surface CC1703 in background (marked by ranging poles) and channel CC1850 in foreground, with retained baulk of robber-cut fill in between, looking east	
2.4	Section through multiple surfaces of Street CC1703, overlying buried soil and natural gravel, looking north-east	
2.5	Burnt layer from Structure NH8522 showing <i>in situ</i> wall plaster, Phase 2.2	
2.6	Burnt timbers from Structure NH8522, Phase 2.2, looking west	
2.7	Street surface NH8511, Phase 2.3, looking north-east	
2.8	Structure NH8517, wall NH1397, Phase 2.3, looking east	
2.9	Chalk-filled post-pads of Structure CC7003, looking south-east	
2.10	Stakeholes of Structure CC7003, Phase 2.3, looking north-west	

CHAPTER 3

3.1	Floor group CC7014, slumped into pit CC1352, Property BE 2, Phase 4.2, looking east	83
3.2	Floor CC1437 (Group CC7009) with scorched area (?hearth) slumped into pit CC1397, Property BE 2, Phase 4.2, looking west	86
3.3	Cess pit CC2225, Property BE 4, Phase 4.2, looking west	88
3.4	Cellar CC3261, as excavated, Property BE 4, Phase 4.2, looking west	88
3.5	?Cellar pit CC6052 showing floor CC6054 on its base, Property BE 5 (E), Phase 4.2, looking west	92
3.6	Structure NH8525 showing burnt ?sill-beam NH4734 and hearth NH4733 with postholes forming part of its east wall, Property BW 2, Phase 4.1, looking east	94
3.7	The latest surface of Brudene Street (Street NH8609) with the chalk floor of Structure NH8526 to its west, Property BW 2, Phase 4.1, looking south-west	96
3.8	Floors of the western extension of Structure NH8530 slumping into earlier ?well NH4300, Property BW 2, Phase 4.2, looking north-east	100
3.9	Firepit NH3806 within Structure NH8556, Property BW 3, Phase 4.2, looking east	103
3.10	Scorched floor NH3506 (Structure NH8566), Property BW 4, Phase 4.1, looking south	104
3.11	'Cob' partition wall NH3359 within Structure NH8567, Property BW 4, Phase 4.2, looking east	106
3.12	Floor group NH2322 (Structure NH8589) slumped into earlier pit NH2497, Property BW 5, Phase 4.2, looking south	109
3.13	Chalk floor of Structure NH8624, Property SE 2, Phase 4.2, looking north	115
3.14	Post-pit NH1117 (Structure NH8622), Property SE 2, Phase 4.2, looking east	115

CHAPTER 4

4.1	Well CC1128, Property BE 1, Phase 5, looking north	121
4.2	Mortar floor (Structure CC7024) collapsing into pit CC2041, Property BE 4, Phase 5, looking south-west	125

4.3	Well CC2039, Property BE 4, Phase 5, looking north-west	125
4.4	Cess pit CC2002, Property BE 4, Phase 5, looking north	126
4.5	Floors and features of structural group CC7032 slumped into pit CC3010, Property BE 5 (W), Phase 5, looking north-east	128
4.6	'Cellar' CC6087, showing slot for timber lining on its west side, Property BE 5 (E), Phase 5, looking north	129
4.7	Post-pit NH4272 forming north wall of Structure NH8530, Property BW 2, Phase 5, looking north-east	131
4.8	Slumped remains of oven NH4249 at south end of Structure NH8530, Property BW 2, Phase 5, looking south-east	131
4.9	Well NH4019, Property BW 2, Phase 5, looking west	132
4.10	Floor levels of Structure NH8532, near to mitigation level, Property BW 3, Phase 5, looking south-west	134
4.11	Unexcavated floor deposits slumping into underlying pit NH3017 within the northern part of Structure NH8532, Property BW 3, Phase 5 and earlier, looking west	
4.12	Oven NH8547, Property BW 3, Phase 5, looking south-east	135
4.13	'Well-house' NH8564, Property BW 3, Phase 5, looking south-west	136
4.14	'Well-house' NH8564, detail of south wall showing buttress and infill, Property BW 3, Phase 5, looking east	136
4.15	Pit NH2084, showing rubble and compacted chalk capping, Property BW 4, Phase 5, looking north	140
4.16	Chalk lined pit or well NH7602, Property BW 6, Phase 5, looking north	142
4.17	Pit NH5045, Property SE 1, Phase 5, looking north	143
4.18	Chalk footings of 'Chapel' NH8629, Property SE 2, Phase 5, looking west and north-east	147
4.19	Possible quarry pit NH1034, Property SE 2, Phase 5, looking south-east	151
4.20	Flint-lined cess-pit CC1518, Property BE 2, Phase 6	152
4.21	Cellar CC2100, Property BE 5 (W), Phase 6, looking north-east	156
4.22	West wall of Structure CC7038, Property BE 5 (E), Phase 6, looking south	157
4.23	Well CC3077, Property BE 5 (E), Phase 6, looking south	158
4.24	Unexcavated Structure NH8535, Property BW 1, Phase 6, looking west	160
4.25	Boundary wall foundation NH4068, Phase 6, Property BW 2, looking east	162
4.26	Well NH9630, Property BW 3, Phase 6, looking north-west	165
4.27	Pit/shaft Structure NH8575, Property BW 4, Phase 6, looking south	166

CHAPTER 5

5.1	Artist's impression of the site and its environs from within Oram's Arbour looking north-west towards its bank and northern entrance during the 5th to 1st century BC, Phases 1.2–1.3: middle to late Iron Age	173
5.2	Artist's impression of the area of the site within the north-west corner of the town of <i>Venta Belgarum</i> looking north-west during the mid 3rd to early 4th century AD, Phase 2.3: late Roman	179
5.3	Artist's impression from the south-east showing the area of the site and the north-west corner of the late Saxon burh during the mid-10th to mid 11th century, Phase 4.2: later late Saxon	184
5.4	Artist's impression from the south-east showing the Archdeacon of Winchester's residence and Brudene Street during the late 13th–early 14th century, Phase 6: medieval	209

CHAPTER 8

8.1	Fractured dog femur (unhealed) with extensive bone growth at the fracture	347
8.2	Concreted bran fragments	360

List of Tables

CHAPTER 1

1.1	Periods, site phases and date ranges	30
-----	--	----

CHAPTER 3

3.1	Intrusive post-Roman pottery within Dark Earth deposits on Northgate House.	71
3.2	Phasing allocation for Phase 4	72
3.3	Archaeomagnetic dated hearths phased to the late Saxon period (Phase 4).	72
3.4	Radiocarbon and Bayesian dating from late Saxon phased contexts (Phase 4).	73
3.5	Evidence for property boundaries	76

CHAPTER 5

5.1	Widths of properties.	188
5.2	Concordance of Surveys I and II within the area of the site	189
5.3	Augured wells and the deeper unlined-pits that probably served as wells	190
5.4	Quantities and shapes of pits over time	195
5.5	Concordance of dyeing, spinning and weaving evidence	200
5.6	Status indicators	203

CHAPTER 6

6.1	List of the hearths sampled for archaeomagnetic dating from Northgate House.	221
6.2	Radiocarbon determinations from Northgate House, Winchester.	222-3
6.3	Weighed sample-mean ChRM directions for the hearths from Northgate House, Winchester	224
6.4	Posterior density estimates from alternative models of the dating of the site phases	229

CHAPTER 7

7.1	Prehistoric pottery: quantification of fabrics	233
7.2	Prehistoric pottery: forms	233
7.3	Roman pottery: quantification of fabrics (+ = less than 0.5%)	236-8
7.4	Roman pottery: list of key ceramic groups	239
7.5	Roman pottery: list of forms represented in key groups	239
7.6	Roman pottery: key groups, Phase 2.1 (AD 55–70)	240
7.7	Roman pottery: key groups, Phase 2.1 (AD 70–130)	242
7.8	Roman pottery: key groups, Phase 2.2 (AD 130–260)	243
7.9	Roman pottery: key groups, Phase 2.3 (AD 260–350)	244-5
7.10	Roman pottery: key groups, Phase 2.4 (AD 350–400)	248-9
7.11	Post-roman pottery: quantification of catalogued sample by fabric	258
7.12	Post-Roman pottery: fabrics by phase. Quantification by sherd count	259
7.13	Post-Roman pottery: fabrics by phase. Quantification by weight (g).	260
7.14	Post-Roman pottery: fabrics by phase. Quantification by EVEs	261
7.15	Post-Roman pottery: fabric groups by phase. Quantification by sherd count.	263
7.16	Post-Roman pottery: fabric groups by street frontage and phase. Quantification by sherd count	264
7.17	Post-Roman pottery: quantities of glazed wares on each of the phased properties as percentage of total phased pottery assemblage (Phases 4.2, 5 and 6).	265
7.18	Post-Roman pottery: quantification of vessel form by EVEs	266
7.19	Post-Roman pottery: vessel form by phase. Quantification by EVEs	267
7.20	Post-Roman pottery: vessel form by street frontage and phase. Quantification by EVEs	268
7.21	Roman ceramic building material quantified by weight and fragment count	287
7.22	Quantification and forms of medieval and post-medieval tile by phase	290
7.23	Quantification of Roman coins by issue period and phase	298

7.24	Numbers of 4th-century coins attributed to mints	299
7.25	Small finds: A comparison of the Roman and later assemblage by function.	302
7.26	Selected categories of finds from the different properties	305
7.27	The worked flint assemblage by category type	330
7.28	XRF analyses of crucibles and other metalworking debris.	330
7.29	Breakdown of metalworking activity by debris.	332

CHAPTER 8

8.1	Number of identified bones (NISP) / taxon by chronological phase in the Northgate House and Discovery Centre assemblage	336
8.2	Roman assemblage, Phase 2: Anatomical distribution of all species	337
8.3	Late Saxon assemblage, Phase 4.1: Anatomical distribution of all species	340
8.4	Late Saxon assemblage, Phase 4.2: Anatomical distribution of all species	341
8.5	Anglo-Norman assemblage, Phase 5: Anatomical distribution for all major mammals	345
8.6	Phase 5 pit NH5169: Anatomical distribution of all fur bearing species and neonatal caprines	348
8.7	Medieval assemblage, Phase 6: Anatomical distribution for all major mammals.	350
8.8	Numbers of identified fish remains recovered from bulk-sieved samples, by phase.	355
8.9	Numbers of hand collected fish bones, by phase	356
8.10	Archaeological and osteological inventory of the four neonate skeletons and cremated bone NH6236.	358
8.11	Numbers of samples analysed for plant remains, by phase and property	360
8.12	Distribution of major crops in different types of context during Phases 4 to 6.	362
8.13	Main economic plants by phase and property	364-5

Digital contents

Part 1: Mitigation Methodologies, Assessment Reports and Revised Research Design

Part 2: Building Recording Projects

Part 3: Specialist reports

1. **Pottery**
 - 1.1 *Prehistoric pottery* by Lisa Brown
 - 1.2 *Roman pottery* by Edward Biddulph and Paul Booth
 - 1.3 *Medieval pottery* by John Cotter
2. **Coins** by Philip de Jersey and Paul Booth
3. **Small Finds** by Hilary Cool
4. **Metalworking**
 - 4.1 *Metalworking debris* by David Starley
 - 4.2 *Surface X-ray fluorescence (XRF) analysis of non-ferrous metalworking debris* by Cath Mortimer
5. **Structural and Fired Clay** by Cynthia Poole
6. **Painted Wall Plaster** by Edward Biddulph
7. **Ceramic and Stone Building Material** by Cynthia Poole and Ruth Shaffrey
8. **Worked Stone** by Ruth Shaffrey
9. **Struck Flint** by Hugo Lamdin-Whymark
10. **Human Skeletal Remains** by Helen Webb
11. **Mammal and Bird Bones** by Lena Strid
12. **Fish Remains** by Rebecca Nicholson
13. **Marine Molluscs** by Greg Campbell
14. **Analysis of samples for eggs of intestinal parasites and other microfossils** by Andrew K. G. Jones
15. **Charred and Mineralised Plant Remains** by Wendy Carruthers
16. **Wood Charcoal** by Dana Challinor
17. **Soil Micromorphology, Chemistry and Magnetic Susceptibility** by Richard Macphail and John Crowther with pollen contribution from Gill Cruise
18. **Geoarchaeological Field Investigations at Winchester Discovery Centre and Northgate House** by G.E. Swindle, C.P. Green, N.P. Branch, A. Vaughan-Williams, P. Austin and S. Warman
19. **Scientific Dating and Chronology** by Seren Griffiths, Alex Bayliss, Ben Ford, Mark Hounslow, Vassil Karloukovski, Christopher Bronk Ramsey, Gordon Cook and Peter Marshall

Part 4: Photographic Gallery

Summary

This volume presents the results of two adjacent, large-scale, archaeological projects that took place sequentially between 2002 and 2007 within the north-west corner of the historic core of the city of Winchester. The two sites, Northgate House on Staple Gardens and Winchester Library on Jewry Street, were located on ESE facing slopes overlooking the Itchen Valley, and it is precisely this topographic position that shaped the earliest settlement of the area and provided the legacy that influenced all subsequent 2600 years of change and development. The majority of the evidence focuses on the 9th to 14th centuries, although significant remains from the Iron Age and Roman periods were also recovered.

The earliest evidence related to successive groups of roundhouses positioned along a slight terrace that followed the contour of the hillside dating to the early and the middle Iron Age. The latter phase was contemporary with a holloway located 50 m down slope, which linked the northern and southern entrances of a large enclosure called Oram's Arbour. The apparent linear nature of this part of the Iron Age settlement, combined with the lack of evidence for contemporary pits and other settlement features, suggests a sustained and organised layout with potential zoning of activities.

After a possible hiatus in activity, part of the Oram's Arbour enclosure was developed into a major Roman town, *Venta Belgarum*. The principal north-south street of the town was located at the eastern edge of the excavation area, and took its alignment from the pre-existing holloway. The street was associated with a substantial stone lined water channel/culvert that appears to represent the urban continuation of the aqueduct located outside the North Gate. Occupation during the early part of the Roman period does not appear to have been intensive, but included the remarkably well-preserved remains of a timber-framed house that had burnt to the ground. In the later Roman period there are indications of greater activity, with timber structures aligned along the principal street. Further upslope a focus of iron working activity developed

along a secondary east-west street, and another property at some distance from these yielded a full set of bone weaving tablets from its floor. A significant amount of late Roman finds were recovered from Dark Earth deposits that began to form in the late 4th century, after which there is no evidence of significant occupation until the imposition of tenements in the 9th century.

A lack of modern development along the western frontage on Staple Gardens (Brudene Street) resulted in the very exceptional preservation of nearly 350 years of structural development and property usage for five neighbouring tenements. There is also partial evidence for six other tenements opposite these and a further three from the contemporary parallel street (Snitheling Street) to the west. Therefore, aspects of fourteen different properties were excavated and analysed, and links can be suggested between the archaeological data and contemporary documentary sources.

A unique set of scientific dates was obtained and used to create statistical models, which suggest the urban tenement form commenced along Staple Gardens prior to Alfred's *burh* works in the late 9th century. Nearly 1500 post-Roman small finds were recovered, and for the first time from Winchester, a collection of such significant size is considered with reference to its full archaeological context, documenting details of domestic and artisanal activity and trends. These results combine with a wealth of environmental data that provides information on the occupants' diets, the wider environment and rural practices in agriculture and animal husbandry.

As this part of the city became less intensively used in the 13th century, the Archdeacon of Winchester developed a large residence by amalgamating a number of earlier properties, including a small chapel, to create a 'complex' similar in form to a rural manorial model. A handful of finds from the 14th and 15th centuries confirm documentary sources that state the area was depopulated and given over to 'market gardens' as the town contracted.

Acknowledgements

The excavations at Winchester Discovery Centre and Northgate House, and subsequent publication of this volume, have been generously funded by Keyhaven Land (a company in the Merlion Group) and Hampshire County Council, with additional contributions from Laing Homes Ltd and English Heritage. As the archaeological consultant for the Northgate House site, Gifford were engaged by Hampshire County Council to oversee the programme of post-excavation work that led to this publication. The support from all of these organisations is gratefully acknowledged. Gifford extend their particular thanks to Peter North (Merlion Capital Corporation Group).

Staff from Winchester City Council: Tracy Matthews (Historic Environment Officer – Archaeology), Helen Rees (Curator of Archaeology), Graham Scobie (Heritage Information Officer), Ross Turle (Curator of Recent History and Photographs) and Mark Barden (Museums Graphic Designer).

Staff from Hampshire County Council: Alec Gillies (Assistant Head of Architecture), Martin Hallum (Senior Architect), Alex Chinn (Team Leader - Quantity Surveying), and Stephen Appleby (Senior Archaeologist).

Thanks are due to Tom James and Professor Michael Fulford CBE for their constructive comments on the draft text and also to Professor Martin Biddle and Birthe Kyjølbye-Biddle, Professor Barry Cunliffe, and Domonique de Moulin (English Heritage) for sharing their knowledge and advice on site during the excavations.

A huge debt of thanks is also due for the sterling help received from the Winchester Archaeological Rescue Group (WARG) and other volunteers who collectively gave 1146 hours of their time. These included: Denise Baker, Mavis Blanchard, Brian Botwright, Pat Brockway, Geraldine Buchanan, Janet Cairney, Jan Church, Garrard Cole, Britta Echtle, Jean Edwards, David Gollins, Martin Gregory, Sue Harrington, Vicki Harrison, Wendy

Haynes, Chris James, Jo James, Janet Johnston, Jennifer Jones, Arthur King, Prue King, David Lloyd, Gill Lovegrove, Jenny Masters, Joanna Morgan, Ann Murphy, Hannah Murphy, Jaynie Oram, Laura Pearson, Val Pegg, Stephen Priestner, Mrs Priestner, Julia Reeves, Julia Sandison, Valerie Sanguine, Catherine Sanguine, Lucy Seviour, Sarah Seviour, Phillip Smith, Rosemary Smith, Tessa Smith, Elizabeth Thorn, Eric Wadham, Pam Wadham, Mollie White, Eleanor Yates

Cath Mortimer would like to thank Dr J O Tate (National Museums of Scotland) for his help with the XRF analyses.

Paul Booth is indebted to Cathy King for help with identification of a number of problematic coins, and, along with Edward Biddulph, is grateful to Helen Rees for her advice with the Winchester pottery fabric series.

Lena Strid thanks Joanne Cooper (Natural History Museum Tring) for identification of cormorant and grey partridge, Helen Rees (Winchester Museum Service) for access to manuscript chapters, and Wendy Smith for commenting on her text.

Rebecca Nicholson owes a debt of gratitude to Dale Serjeantson, Alison Locker and Sheila Hamilton-Dyer for access to their unpublished reports.

Ben M Ford extends thanks to Damian McKenna (Mansells), Terry Rumford (Davis Langdon), Martin Kirby (Gifford), Jules Passingham (Passingham Scaffolding), Penny Lawrence (Capita Symonds), Frank Hallet (The Safety Consultancy), Trish Bould and Belinda Mitchell (Drawing Spaces), and Vik Martin (Vik Martin Photography).

Lisa Brown would like to thank Helen Rees for advice on regional Iron Age pottery fabrics and Professors John Collis and Barry Cunliffe for useful discussions on oppida.

Last but not least, Steve Teague would like to thank Paul McCulloch.

THE PROJECT TEAMS

Ben M Ford was Senior Project Manager for Oxford Archaeology during all stages of archaeological fieldwork and post-excavation for both projects (with the exception of the evaluation (Gifford) and the initial excavation (Wessex) at Northgate House). Steve Teague undertook most of the post-excavation analysis, with support from Lisa Brown, Edward Biddulph and Alan Hardy. Anne Dodd reviewed and extensively revised the draft text for Chapters 3, 4 and 5. Anne Dodd and Alex Smith edited the publication text.

Phil Emery and Dr Gerry Wait of Giffords acted as Archaeological Consultants for Northgate House, and Phil Emery continued in this role for the production of this volume.

NORTHGATE HOUSE

Wessex Archaeology Team

Project Manager: Paul McCulloch

Project Officer: Gail Wakeham

Excavation Staff: Andy Armstrong, Andrew Baines, David Brown, Laura Cassie, Jonathon Crisp, Kirsten Dinwiddy, Neil Fitzpatrick, Victoria Lambert, Steve Legg, Catherine McHarg, Martin McGonigle, Dave Murdie, Christopher Owen, Ruth Panes, Nicholas Plunkett, Clare Roberts, Andy Sole, and Steven Teague.

Oxford Archaeology Team

Project Officer: Dan Dodds

Supervisors: Robin Bashford, Guy Cockin, Emily Glass, Robert Radford, Dan Sykes, Steve Teague

Excavation Staff: Kirsty Bone, Jane Brant, Abigail Brown, Ralph Brown, Will Clarke, Charlie Correa, Rob Cole, Jon Crisp, Patrick Dresch, Kevan Edinborough, Pascal Eloy, Paul Everill, Jonny Geber, J Gibblin, Martin Greaney, Leo Heatley, R Humphey, F Gibson, Emily Glass, Jacek Gruszczynski, Anna Komar, Vicky Lambert, Adam Lord, S Lucas, D Mahoney, Jennifer Marchant, Alan Marshall, Bryan Matthews, Rowan McAlley, Martin McGonigle, Lucy Offord, Chris Richardsdon (and his invaluable work as Matrix Coordinator), Chris Swales, Phillippa Puzey-Broomhead, D Reay, Mary

Saunders, Robert Tannahill, Julian Thorley, Marc Storey, Nick Pankhurst, Tavis Walker, Kate Weaton, Dan Wheeler, D Whittaker, Justin Wiles, A Witkin, and Kevin Wooldridge.

WINCHESTER DISCOVERY CENTRE

Buildings Team

(WW II Shelters and Library structure)

Jon Gill, Andy Miller, Jane Phimester, for their work on the WWII shelters and Simon Underdown for his work on the Library Building.

Evaluation Team

Supervisor: Dan Sykes

Excavation Staff: Ian Cook, Darko Maricevic, Chris Richardson, Dan Wheeler.

Excavation Team

Project Officer: Steve Teague

Supervisors: Robin Bashford, Emily Glass, Nick Pankhurst.

Excavation Staff: Laura Cassie, David Carr, Matt Copley, Claire Davies, Mark Dodd, Jodie Ford, Dawn Irving, Hannah Kennedy, Mike Kershaw, Alan Marshall, Steve Martin, Rowan McAlley, Ross McGauran, Dave McNicolls, Dave Murdy, Mary Nicholls, Phillippa Puzey-Broomhead, Chris Richardson, Guy Salkeld, Mary Saunders, Mark Stedman, Elin Ahlin Sundman, Jeni Thurstan, Dan Watkeys, Dan Wheeler. Jane Brant and Leanne Ellis who so competently supervised all the work by the volunteers.

OTHER OA STAFF

For their contributions behind the scenes and back at the office thank you to Leigh Allen, Robert Bailey, Jane Baldwin, Angela Boyle, Robin Latour, Steve Laurie-Lynch, Mark Littlewood, Olivia Pierpoint, Marta Perez, Simon Palmer, Daniel Poore, Kay Proctor, Nicola Scott, Nick Shepherd, Georgina Slater, Elizabeth Strafford, Duncan Waltham, Graham Walton, Robert Williams.



*The Northgate House
Excavation Team
(February 2005)*



*The Discovery Centre
Excavation Team
(March 2006)*