

Land South of Water Lane Angmering West Sussex

Written Scheme of Investigation for an Archaeological Evaluation



for

Barratt David Wilson
Homes

CA Project: AN0135

February 2020



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Figure 1 Site and Trial Trench Location Plan

1. INTRODUCTION

- 1.1 This document sets out details of a *Written Scheme of Investigation* (WSI) by Cotswold Archaeology (CA) for an archaeological evaluation at Land South of Water Lane Angmering, West Sussex. centred on National Grid Reference (NGR) 507544 104454 at the request of Barratt David Wilson Homes Southern Counties (see Figure 1).
- 1.2 An application A/99/17/OUT has been made Arun District Council for residential development of the site along with associated infrastructure. A brief for archaeological evaluation has been prepared by James Kenny (Chichester District Council), the archaeological advisor to the Local Planning Authority (LPA). The current works will be undertaken under the current Outline application: a separate application is currently being submitted for Reserved Matters. Under the current application it is recognised that the original trial trenching exercise needs to be augmented in order to more clearly define the archaeological potential within the development areas beyond the known settlement and enclosures in the southern part of the site, hence the objective of the current evaluation works. In addition, as part of the existing condition it is also required that following completion of the current evaluation works, further mitigation (i.e. excavation) will be undertaken in the southern part of the site and in those areas where the current evaluation establishes/confirms significant archaeological remains survive which require preservation by record. All subsequent excavation works will require a post excavation assessment and updated project design to be undertaken, to be followed by detailed analysis and publication.
- 1.3 This WSI has been guided in its composition by *Standard and guidance: Archaeological field evaluation* (CIfA 2014), the Sussex Archaeological Standards (2019), the *Management of Research Projects in the Historic Environment (MORPHE): Project Planning Note 3* (English Heritage 2008), the *Management of Research Projects in the Historic Environment (MORPHE): Project Manager's Guide* (EH 2006) and any other relevant standards or guidance contained within Appendix B. The evaluation has been informed by previous phases of both non-intrusive and intrusive archaeological investigation on the site, comprising geophysical survey (GSB 2016) and trial trench evaluation (ASE 2016). The current phase of trial trench evaluation is aimed at providing greater definition in terms of the limits of any areas

of archaeological potential and allowing mitigation areas to be appropriately focussed.

The site

- 1.4 The proposed development area is approximately 9ha, and comprises pastoral land currently grazed by livestock ranged around Avenals Farm on the eastern periphery of Angmering. It is bounded by Water Lane to the north, residential properties to the south, the A280 to the east and Weavers Hill to the West. The site lies at approximately 8m above Ordnance Datum (aOD) in the north of the site up to 15m aOD in the south.
- 1.5 The underlying bedrock geology of the area is mapped as the Lambeth Group of Clay, Silt, Sand and Gravel. Sedimentary Bedrock formed approximately 56 to 66 million years ago in the Palaeogene Period (BGS 2020).

2. ARCHAEOLOGICAL BACKGROUND

- 2.1 The following background information is a summary of the results of a desk-based assessment carried out by CgMs in 2016, a geophysical survey report carried out by GSB in 2016 and an archaeological evaluation carried out by ASE in 2016.

Prehistoric

- 2.2 Evidence for earlier prehistoric activity in the vicinity of the site is limited to a findspot of a Neolithic flint axe, c.500m northwest of the site and pottery and flintwork from post holes and ditches dating to the Neolithic period from an evaluation at Pound Nursery, c.375m east of the site. Evidence of Bronze Age activity in the vicinity of the site is plentiful. The evaluation at Pound Nursery also revealed evidence for systematic land organisation possibly dating to the Late Bronze Age and an archaeological evaluation west of the site at 24 Water Lane revealed Late Bronze Age pottery, burnt flint, worked flint and plant macro remains.

Iron Age and Roman

- 2.3 Works on the Angmering bypass recovered Iron Age and Roman artefacts from upper fills of earlier ditches including a La Tene I brooch and Roman pottery. A substantial Middle to Late Iron Age grain storage and processing site was recorded

c.120m south of the Site. Early Roman ditches were also identified at Pound Nursery.

Saxon and Medieval

- 2.4 Immediately adjacent to the south east of the site, early Saxon and medieval evidence was recorded during works on the Angmering Bypass South consisting of ditches, pits and postholes.

Previous Archaeological Investigation

- 2.5 A geophysical survey carried out on site by GSB in 2016 identified a number of ditches forming complex enclosures and trackways across the south-eastern part of the site. A subsequent 3% evaluation was undertaken by ASE 2016 across the site. This was able to confirm the results of the Geophysical Survey, the series of complex enclosures was dated to the Late Bronze Age/Early Iron Age and appeared to continue into the Roman Period. In addition, the evaluation identified a Medieval field system in the western part of the site and a small assemblage of residual flint from the later deposits indicated probable transient early prehistoric activity in the vicinity of the site.

3. AIMS AND OBJECTIVES

- 3.1 The objectives of the evaluation are to provide information about the archaeological resource within the site, including its presence/absence, character, extent, date, integrity, state of preservation and quality. In accordance with *Standard and guidance: Archaeological field evaluation* (ClfA 2014), the evaluation has been designed to be minimally intrusive and minimally destructive to archaeological remains. The information gathered will enable the Arun District Council to identify and assess the particular significance of any heritage asset, consider the impact of the proposed development upon it, and to avoid or minimise conflict between the heritage asset's conservation and any aspect of the development proposal, in line with the *National Planning Policy Framework* (DCLG 2012).
- 3.2 If significant archaeological remains are identified, reference will be made to the South-East Research Framework (SERF) so that the remains can, if possible, be placed within their local and regional context.

- 3.3 Specifically this phase of trial trench evaluation will seek to better define the medieval activity in the west of the site, the northern extent of the enclosure system in the south-east of the site and ascertain the exact nature, date and extent of activity in the north-east of the site.

4. METHODOLOGY

Excavation and recording

- 4.1 The evaluation comprises the excavation of 27 trenches in the locations shown on the attached plan. All trenches will be 30m long and 1.8m wide. Trenches will be set out on OS National Grid Reference (NGR) co-ordinates using Leica GPS and scanned for live services by trained Cotswold Archaeology staff using CAT and Genny equipment in accordance with the Cotswold Archaeology *Safe System of Work for avoiding underground services*. The position of the trenches may be adjusted on site to account for services and other constraints, with the approval of the archaeological advisor to CDC. The final 'as dug' trench plan will be recorded with GPS.
- 4.2 All trenches will be excavated by a mechanical excavator equipped with a toothless grading bucket. All machining will be conducted under archaeological supervision and will cease when the first archaeological horizon or natural substrate is revealed (whichever is encountered first). Topsoil and subsoil will be stored separately adjacent to each trench.
- 4.3 Following machining, all archaeological features revealed will be planned and recorded in accordance with *CA Technical Manual 1: Fieldwork Recording Manual*. Each context will be recorded on a pro-forma context sheet by written and measured description; principal deposits will be recorded by drawn plans (scale 1:20 or 1:50, or electronically using Leica GPS or Total Station (TST) as appropriate) and drawn sections (scale 1:10 or 1:20 as appropriate). Where detailed feature planning is undertaken using GPS/TST this will be carried out in accordance with *CA Technical Manual 4: Survey Manual*. Photographs (digital colour) will be taken as appropriate. All finds and samples will be bagged separately and related to the context record. All artefacts will be recovered and retained for processing and analysis in accordance with *CA Technical Manual 3: Treatment of Finds Immediately after Excavation*.

4.4 Sample excavation of archaeological deposits will be limited and minimally intrusive, sufficient to achieve the aims and objectives identified in Section 3 above, and at this stage there is no requirement to sample all archaeological features encountered. Where appropriate excavation will not compromise the integrity of the archaeological record and will be undertaken in such a way as to allow for the subsequent protection of remains either for conservation or to allow more detailed investigations to be conducted under better conditions at a later date.

- All linear features will be sampled, using a minimum 1-metre wide section
- Sampling of linear features to be at 10-metre intervals or totalling 10% of the length of the linear cut feature (whichever is the greater)
- All discrete features will be half sectioned until sufficiently characterised. Once this has been achieved a lower sample of cut features may be considered appropriate subject to agreement with the Archaeological Adviser
- Where three or fewer pits or probable pits, whether or not evidently datable or ancient (excepting evidently modern features), occur in any trench, all those features will be sampled
- Priority is to be given to features with more charcoal-rich fills or anticipated dating evidence
- Should five or fewer archaeological features of any kind, discrete or linear, be revealed within any one trench, all those features will be sampled
- Where two or fewer buried pottery vessels are present, buried upright or inverted, both should be lifted and removed from site;
- If such vessels are believed to be human cremation burials (e.g. because of visible remains of burnt / cremated bone in their contents), a Licence from the Ministry of Justice, permitting their removal, must first be obtained
- Other probable cremation vessels or unburnt human remains should be left *in situ* after recording their visible portions

Contingency sampling:

- The proportion of features to be sampled within any trench, and the necessity of extensions to or additional trenching, may be increased at the reasonable request of the Local Authority Archaeological Adviser. In the case of features within a trench this could be up to a maximum of 100% (i.e. sampling all the features in a trench, rather than sampling only half of them), in exceptional cases, e.g. should they feel that insufficient of a complex of features has been examined to allow viable provisional interpretation or dating of the whole
- However, if the trench contains a large number of features, it will not usually be considered appropriate to sample all such features
- The percentage of any one feature to be sampled may need to be so increased, for similar purposes, particularly for linear features, or to enable dating evidence to be obtained for a critical discrete feature such as a post-hole forming part of a wider complex of structures.

Artefact retention and discard

- 4.5 Artefacts from topsoil and subsoil and un-stratified contexts will normally be noted but not retained unless they are of intrinsic interest (e.g. worked flint or flint debitage, featured pottery sherds, and other potential 'registered artefacts'). All artefacts will be collected from stratified excavated contexts except for large assemblages of post-medieval or modern material. Such material may be noted and not retained, or, if appropriate, a representative sample may be collected and retained.

Human remains

- 4.6 In the case of the discovery of human remains (skeletal or cremated), at all times they should be treated with due decency and respect. For each situation, the following actions are to be undertaken:
- In line with the recommendations *Guidance for best practice for the treatment of Human remains excavated from Christian Burial Grounds in England* (APABE 2017) human burials should not be disturbed without good reason. However, investigation of human remains should be undertaken to an extent sufficient for adequate evaluation. Therefore, a suspected burial feature (inhumation or cremated bone deposit) will be investigated with a small slot to confirm the presence and condition of human bone. Once confirmed as human, the buried

remains will not be disturbed through any further investigation and will instead be left *in situ* - unless further disturbance is absolutely unavoidable.

- Where further disturbance is unavoidable, or full exhumation of the remains is deemed necessary, this will be conducted following the provisions of the Coroners Unit in the Ministry of Justice. All excavation and post-excavation processes will be in accordance with the standards set out in *CIfA Technical Paper No 7 Guidelines to the Standards for recording Human Remains* (CIfA 2004).

Environmental remains

- 4.7 Due care will be taken to identify deposits which may have environmental potential, and where appropriate, a programme of environmental sampling will be initiated. This will follow the Historic England environmental sampling guidelines outlined in *Environmental Archaeology, A guide to the Theory and Practice of Methods, from Sampling and Recovery to Post-excavation* (English Heritage 2011), and *CA Technical Manual 2: The Taking and Processing of Environmental and Other Samples from Archaeological Sites*. The sampling strategy will be adapted for the specific circumstances of this site, in close consultation with the CA Environmental Officer, but will follow the general selection parameters set out in the following paragraphs.
- 4.8 Secure and phased deposits, especially those related to settlement activity and/or structures will be considered for sampling for the recovery of charred plant remains, charcoal and mineralised remains. Any cremation-related deposits will be sampled appropriately for the recovery of cremated human bone and charred remains. If any evidence of *in situ* metal working is found, suitable samples for the recovery of slag and hammer scale will be taken.
- 4.9 Where sealed waterlogged deposits are encountered, samples for the recovery of waterlogged remains, insects, molluscs and pollen, as well as any charred remains, will be considered. The taking of sequences of samples for the recovery of molluscs and/or waterlogged remains will be considered through any suitable deposits such as deep enclosure ditches, barrow ditches, palaeo-channels, or buried soils. Monolith samples may also be taken from this kind of deposit as appropriate to allow soil and sediment description/interpretation as well as sub-sampling for pollen and other micro/macrofossils such as diatoms, foraminifera and ostracods.

- 4.10 The need for any more specialist samples, such as OSL, archaeomagnetic dating and dendrochronology will be evaluated and will be taken in consultation with the relevant specialist.
- 4.11 The processing of the samples will be done in conjunction with the relevant specialist following the Historic England general environmental processing guidelines (English Heritage 2011). Flotation or wet sieve samples will be processed to 0.25mm. Other more specialist samples such as those for pollen will be prepared by the relevant specialist. Further details of the general sampling policy and the methods of taking and processing specific sample types are contained within *CA Technical Manual 2: The Taking and Processing of Environmental and Other Samples from Archaeological Sites*.
- Treasure*
- 4.12 Upon discovery of Treasure CA will notify the client and the curator immediately. CA will comply fully with the provisions of the Treasure Act 1996 and the Code of Practice referred to therein. Findings will be reported to the coroner within 14 days.
- 4.13 Upon completion of the evaluation all trenches will be backfilled by mechanical excavator.

5. STAFF AND TIMETABLE

- 5.1 This project will be under the management of Oliver Good ACIFA Project Manager, CA.
- 5.2 The staffing structure will be organised thus: The Project Manager will direct the overall conduct of the evaluation as required during the period of fieldwork. Day to day responsibility however will rest with the Project Leader who will be on-site throughout the project.
- 5.3 The field team will consist of a maximum of 4 staff (eg 1 Project Officer; 3 Archaeologists).
- 5.4 It is envisaged that the project will require approximately 5 days fieldwork. Analysis of the results and subsequent reporting will take up to a further 4 weeks.

- 5.5 Specialists who will be invited to advise and report on specific aspects of the project as necessary are:

Ceramics	Ed McSloy MCIfA (CA)
Metalwork	Ed McSloy MCIfA (CA)
Flint	Jacky Sommerville PCIfA (CA)
Animal Bone	Andy Clarke BA (Hons) MA (CA)/ Matty Holmes BSc MSc ACIfA (freelance)
Human Bone	Sharon Clough MCIfA (CA)
Environmental Remains	Sarah Wyles PCIfA (CA)
Conservation	Pieta Greeves BSc MSc ACR (Drakon Heritage and Conservation)
Geoarchaeology	Dr Keith Wilkinson (ARCA)

- 5.6 Depending upon the nature of the deposits and artefacts encountered it may be necessary to consult other specialists not listed here. A full list of specialists currently used by Cotswold Archaeology is contained within Appendix A.

6. POST-EXCAVATION, ARCHIVING AND REPORTING

- 6.1 Following completion of fieldwork, all artefacts and environmental samples will be processed, assessed, conserved and packaged in accordance with CA Technical Manuals and the Novium Museum guidelines. A recommendation will be made regarding material deemed suitable for disposal/dispersal in line with the relevant recipient Museums' collection policy.

- 6.2 An illustrated report will be compiled on the results of the fieldwork and assessment of the artefacts, palaeoenvironmental samples etc. The report will include:

- (i) an abstract containing the essential elements of the results preceding the main body of the report;
- (ii) a summary of the project's background;
- (iii) description and illustration of the site location;
- (iv) a methodology of the works undertaken;

- (v) integration of, or cross-reference to, appropriate cartographic and documentary evidence and the results of other research undertaken, where relevant to the interpretation of the evaluation results;
- (vi) a description of the project's results;
- (vii) an interpretation of the results in the appropriate context;
- (viii) a summary of the contents of the project archive and its location (including summary catalogues of finds and samples);
- (ix) a site location plan at an appropriate scale on an Ordnance Survey, or equivalent, base-map;
- (x) a plan showing the location of the trenches and exposed archaeological features and deposits in relation to the site boundaries;
- (xi) plans of each trench, or part of trench, in which archaeological features are recognised. These will be at an appropriate scale to allow the nature of the features exposed to be shown and understood. Plans will show the orientation of trenches in relation to north. Section drawing locations will be shown on these plans. Archaeologically sterile areas will not be illustrated unless this can provide information on the development of the site stratigraphy or show palaeoenvironmental deposits that have influenced the site stratigraphy;
- (xii) appropriate section drawings of trenches and features will be included, with OD heights and at scales appropriate to the stratigraphic detail being represented. These will show the orientation of the drawing in relation to north/south/east/west. Archaeologically sterile trenches will not be illustrated unless they provide significant information on the development of the site stratigraphy or show palaeoenvironmental deposits that have influenced the site stratigraphy;
- (xiii) photographs showing significant features and deposits that are referred to in the text. All photographs will contain appropriate scales, the size of which will be noted in the illustration's caption;
- (xiv) a consideration of evidence within its wider local/regional context;
- (xv) a summary table and descriptive text showing the features, classes and numbers of artefacts recovered and soil profiles with interpretation;
- (xvi) specialist assessment or analysis reports where undertaken;
- (xvii) an evaluation of the methodology employed, and the results obtained (i.e. a confidence rating).

6.3 Specialist artefact and palaeoenvironmental assessment will take into account the wider local/regional context of the archaeology and will include:

- (i) specialist aims and objectives
- (ii) processing methodologies (where relevant)
- (iii) any known biases in recovery, or problems of contamination/residuality
- (iv) quantity of material; types of material present; distribution of material
- (v) for environmental material, a statement on abundance, diversity and preservation
- (vi) summary and discussion of the results to include significance in a local and regional context

6.4 Copies of the draft report will be distributed to the Client or their Representative and to CDC's Archaeological Advisor thereafter for verification and approval. Thereafter, copies of the approved report will be issued to the Client, CDC's Archaeological Advisor and the local Historic Environment Record (HER). Reports will be issued in digital format (PDF/PDFA as appropriate) except where hard copies have been specifically requested and will be supplied to the HER along with shapefiles containing location data for the areas investigated, if required.

6.5 Should no further work be required, an ordered, indexed, and internally consistent site archive will be prepared and deposited in accordance with *Archaeological Archives: A Guide to Best Practice in Creation, Compilation, Transfer and Curation* (Archaeological Archives Forum 2007) and the relevant museum guidelines.

Academic dissemination

6.6 As the limited scope of this work is likely to restrict its publication value, it is anticipated that a short publication note only will be produced, suitable for inclusion within an appropriate local archaeological journal. Subject to any contractual constraints, a summary of information from the project will also be entered onto the OASIS online database of archaeological projects in Britain including the upload of a digital (PDF) copy of the final report, which will appear on the Archaeology Data Service (ADS) website once the OASIS record has been verified.

Public dissemination

6.7 In addition to the ADS website, a digital (PDF) copy of the final report will also be made available for public viewing via Cotswold Archaeology's *Archaeological*

Reports Online web page, generally within 12 months of completion of the project (<http://reports.cotswoldarchaeology.co.uk/>).

Archive deposition

- 6.8 CA will make arrangements with the Novium Museum for the deposition of the site archive and, subject to agreement with the legal landowner(s), the artefact collection. The Novium Museum will be consulted at this stage concerning their requirements and notified in advance of the expected time limits for deposition of the archive.

7. HEALTH, SAFETY AND ENVIRONMENT

- 7.1 CA will conduct all works in accordance with the Health and Safety at Work Act 1974 and all subsequent Health and Safety legislation, CA Health and Safety and Environmental policies and the CA Safety, Health and Environmental Management System (SHE), as well as any Principal Contractor's policies or procedures. A site-specific Construction Phase Plan (form SHE 017) will be formulated prior to commencement of fieldwork

8. INSURANCES

- 8.1 CA holds Public Liability Insurance to a limit of £10,000,000 and Professional Indemnity Insurance to a limit of £10,000,000.

9. MONITORING

- 9.1 Notification of the start of site works will be made to James Kenny the archaeological advisor to CDC so that there will be opportunities to visit the evaluation and check on the quality and progress of the work.

10. QUALITY ASSURANCE

- 10.1 CA is a Registered Organisation (RO) with the Chartered Institute for Archaeologists (RO Ref. No. 8). As a RO, CA endorses the *Code of Conduct* (CIfA 2014) and the *Code of Approved Practice for the Regulation of Contractual Arrangements in Field Archaeology* (CIfA 2014). All CA Project Managers and Project Officers hold either full Member or Associate status within the CIfA.
- 10.2 CA operates an internal quality assurance system in the following manner. Projects are overseen by a Project Manager who is responsible for the quality of the project. The Project Manager reports to the Chief Executive who bears ultimate responsibility for the conduct of all CA operations. Matters of policy and corporate strategy are determined by the Board of Directors, and in cases of dispute recourse may be made to the Chairman of the Board.

11. PUBLIC ENGAGEMENT, PARTICIPATION AND BENEFIT

- 11.1 This project will not afford opportunities for public engagement or participation during the course of the fieldwork. However, the results will be made publicly available on the ADS and Cotswold Archaeology websites, as set out in Section 6 above, in due course.

12. STAFF TRAINING AND CPD

- 12.1 CA has a fully documented mandatory Performance Management system for all staff which reviews personal performance, identifies areas for improvement, sets targets and ensures the provision of appropriate training within CA's adopted training policy. In addition, CA has developed an award-winning Career Development Programme for its staff, which ensures a consistent and high-quality approach to the development of appropriate skills.
- 12.2 As part of the company's requirement for Continuing Professional Development, all members of staff are also required to maintain a Personal Development Plan and an associated log which is reviewed within the Performance Management system. All staff are subject to probationary periods on appointment, with monthly review; for site-based staff additional monthly Employee Performance Evaluations measure and record skills and identify training needs.

13. REFERENCES

APABE (Advisory Panel on the Archaeology of Burials in England) 2017 *Guidance for best practice for the treatment of Human remains excavated from Christian Burial Grounds in England, 2nd Edition.*

Archaeology South East. 2016. *An Archaeological Evaluation at Land South of Water Lane, Angmering, West Sussex, Archaeology South-East Report. Project No. 160339*

BGS (British Geological Survey) 2016 *Geology of Britain Viewer*
<http://mapapps.bgs.ac.uk/geologyofbritain/home.html> Accessed 5 February 2020

CgMs 2016. *Land at Water Lane, Angmering, West Sussex: Archaeological Desk-Based Assessment.*

DCLG (Department of Communities and Local Government) 2012 *National Planning Policy Framework*

GSB 2016. *Land at Water Lane, Angmering, West Sussex, Geophysical Survey Report G1613*

APPENDIX A: COTSWOLD ARCHAEOLOGY SPECIALISTS

Ceramics

Neolithic/Bronze Age	Ed McSloy BA MCIFA (CA) Emily Edwards (freelance) Dr Elaine Morris BA PhD FSA MCIFA (University of Southampton)
Iron Age/Roman (Samian) (Amphorae stamps)	Ed McSloy BA MCIFA (CA) Kayt Marter Brown BA MSc MCIFA (freelance) Gwladys Montell MA PhD (freelance) Dr David Williams PhD FSA (freelance)
Anglo-Saxon	Paul Blinkhorn BTech (freelance) Dr Jane Timby BA PhD FSA MCIFA (freelance)
Medieval/post-medieval	Ed McSloy BA MCIFA (CA) Kayt Marter Brown BA MSc MCIFA (freelance) Stephanie Ratkai BA (freelance) Paul Blinkhorn BTech (freelance) John Allan BA MPhil FSA (freelance)
South West	Henrietta Quinnell BA FSA MCIFA (University of Exeter)
Clay tobacco pipe	Reg Jackson MLitt MCIFA (freelance)

	Marek Lewcun (freelance)
Ceramic Building Material	Ed McSloy MCIFA (CA) Dr Peter Warry PhD (freelance)
<i>Other Finds</i>	
Small Finds	Ed McSloy BA MCIFA (CA)
Metal Artefacts	Katie Marsden BSc (CA) Dr Jörn Schuster MA DPhil FSA MCIFA (freelance) Dr Hilary Cool BA PhD FSA (freelance)
Lithics	Ed McSloy BA MCIFA (CA) Jacky Sommerville BSc MA PCIFA (CA) Dr Francis Wenban-Smith BA MA PhD (University of Southampton)
(Palaeolithic)	
Worked Stone	Dr Ruth Shaffrey BA PhD MCIFA (freelance) Dr Kevin Hayward FSA BSc MSc PhD PCIFA (freelance)
Inscriptions	Dr Roger Tomlin MA DPhil, FSA (Oxford)
Glass	Ed McSloy MCIFA (CA) Dr Hilary Cool BA PhD FSA (freelance) Dr David Dungworth BA PhD (freelance; English Heritage)
Coins	Ed McSloy BA MCIFA (CA) Dr Peter Guest BA PhD FSA (Cardiff University) Dr Richard Reece BSc PhD FSA (freelance)
Leather	Quita Mould MA FSA (freelance)
Textiles	Penelope Walton Rogers FSA Dip Acc. (freelance)
Iron slag/metal technology	Dr Tim Young MA PhD (Cardiff University) Dr David Starley BSc PhD
Worked wood	Michael Bamforth BSc MCIFA (freelance)
<i>Biological Remains</i>	
Animal bone	Dr Philip Armitage MSc PhD MCIFA (freelance) Dr Matilda Holmes BSc MSc ACIFA (freelance)
Human Bone	Sharon Clough BA MSc MCIFA (CA)
Environmental sampling	Sarah Wyles BA PCIFA (CA) Sarah Cobain BSc MSc ACIFA (CA) Dr Keith Wilkinson BSc PhD MCIFA (ARCA)
Pollen	Dr Michael Grant BSc MSc PhD (University of Southampton) Dr Rob Batchelor BSc MSc PhD MCIFA (QUEST, University of Reading)
Diatoms	Dr Tom Hill BSc PhD CPLHE (Natural History Museum) Dr Nigel Cameron BSc MSc PhD (University College London)
Charred Plant Remains	Sarah Wyles BA PCIFA (CA) Sarah Cobain BSc MSc ACIFA (CA)
Wood/Charcoal	Sarah Cobain BSc MSc ACIFA(CA) Dana Challinor MA (freelance)
Insects	Enid Allison BSc D.Phil (Canterbury Archaeological Trust) Dr David Smith MA PhD (University of Birmingham)
Mollusca	Sarah Wyles BA PCIFA (CA)

	Dr Keith Wilkinson BSc PhD MCIFA (ARCA)
Ostracods and Foraminifera	Dr John Whittaker BSc PhD (freelance)
Fish bones	Dr Philip Armitage MSc PhD MCIFA (freelance)
<i>Geoarchaeology</i>	Dr Keith Wilkinson BSc PhD MCIFA (ARCA)
Soil micromorphology	Dr Richard Macphail BSc MSc PhD (University College London)
<i>Scientific Dating</i>	
Dendrochronology	Robert Howard BA (NTRDL Nottingham)
Radiocarbon dating	SUERC (East Kilbride, Scotland) Beta Analytic (Florida, USA)
Archaeomagnetic dating	Dr Cathy Batt BSc PhD (University of Bradford)
TL/OSL Dating	Dr Phil Toms BSc PhD (University of Gloucestershire)
<i>Conservation</i>	Karen Barker BSc (freelance) Pieta Greaves BSc MSc ACR (Drakon Heritage and Conservation)

APPENDIX B: ARCHAEOLOGICAL STANDARDS AND GUIDELINES

- AAF 2007 *Archaeological Archives. A guide to best practice in creation, compilation, transfer and curation*. Archaeological Archives Forum
- AAI&S 1988 *The Illustration of Lithic Artifacts: A guide to drawing stone tools for specialist reports*. Association of Archaeological Illustrators and Surveyors Paper 9
- AAI&S 1994 *The Illustration of Wooden Artifacts: An Introduction and Guide to the Depiction of Wooden Objects*. Association of Archaeological Illustrators and Surveyors Paper 11
- AAI&S 1997. *Aspects of Illustration: Prehistoric pottery*. Association of Archaeological Illustrators and Surveyors Paper 13
- AAI&S nd *Introduction to Drawing Archaeological Pottery*. Association of Archaeological Illustrators and Surveyors, Graphic Archaeology Occasional Papers 1
- ACBMG 2004 *Draft Minimum Standards for the Recovery, Analysis and Publication of Ceramic Building Material*. (third edition) Archaeological Ceramic Building Materials Group
- AEA 1995 *Environmental Archaeology and Archaeological Evaluations. Recommendations concerning the environmental archaeology component of archaeological evaluations in England*. Working Papers of the Association for Environmental Archaeology No. 2
- BABAO and IFA, 2004 *Guidelines to the Standards for Recording Human Remains*. British Association for Biological Anthropology and Osteoarchaeology and Institute of Field Archaeologists. Institute of Field Archaeologists Technical Paper 7 (Reading)
- Barber, B., Carver, J., Hinton, P. and Nixon, T. 2008 *Archaeology and development. A good practice guide to managing risk and maximising benefit*. Construction Industry Research and Information Association Report C672
- Bayley, J. (ed) 1998 *Science in Archaeology. An agenda for the future*. English Heritage (London)
- Bewley, R., Donoghue, D., Gaffney, V., Van Leusen, M., Wise, M., 1998 *Archiving Aerial Photography and Remote Sensing Data: A guide to good practice*. Archaeology Data Service
- Blake, H. and P. Davey (eds) 1983 *Guidelines for the processing and publication of Medieval pottery from excavations, report by a working party of the Medieval Pottery Research Group and the Department of the Environment*. Directorate of Ancient Monuments and Historic Buildings Occasional Paper 5, 23-34, DoE, London
- Brickley, M. and McKinley, J.I., 2004 *Guidelines to the Standards for Recording Human Remains*. IFA Paper No 7, Institute of Field Archaeologists (Reading)
- Brickstock, R.J. 2004 *The Production, Analysis and Standardisation of Romano-British Coin Reports*. English Heritage (Swindon)
- Brown, A. and Perrin, K. 2000 *A Model for the Description of Archaeological Archives*. English Heritage Centre for Archaeology/ Institute of Field Archaeologists (Reading)
- Brown, D.H. 2007 *Archaeological Archives: A guide to best practice in creation, compilation, transfer and curation*. IFA Archaeological Archives Forum (Reading)
- Buikstra, J.E. and Ubelaker D.H. (eds) 1994 *Standards for Data Collection from Human Skeletal Remains*. (Fayetteville, Arkansas)
- ClfA, 2014, *Code of Approved Practice for the Regulation of Contractual Arrangements in Field Archaeology*. Chartered Institute for Archaeologists (Reading)
- ClfA, 2014, *Standard and Guidance for Archaeological Desk-based Assessment*. Chartered Institute for Archaeologists (Reading)
- ClfA, 2014, *Standard and Guidance for Archaeological Watching Brief*. Chartered Institute for Archaeologists (Reading)
- ClfA, 2014, *Standard and Guidance for Archaeological Excavation*. Chartered Institute for Archaeologists (Reading)
- ClfA, 2014, *Standard and Guidance for Archaeological Investigation and Recording of Standing Buildings or Structures*. Chartered Institute for Archaeologists (Reading)
- ClfA, 2014, *Standard and Guidance for the Collection, Documentation, Conservation and Research of Archaeological Materials*. Chartered Institute for Archaeologists (Reading)
- ClfA, 2014, *Standard and Guidance for the Creation, Compilation, Transfer and Deposition of Archaeological Archives*. Chartered Institute for Archaeologists (Reading)
- ClfA, 2014, *Standard and Guidance for Archaeological Field Evaluation*. Chartered Institute for Archaeologists (Reading)
- Clark, J., Darlington, J. and Fairclough, G. 2004 *Using Historic Landscape Characterisation*. English Heritage (London)
- Coles, J.M., 1990 *Waterlogged Wood: guidelines on the recording, sampling, conservation and curation of structural wood*. English Heritage (London)
- Cowton, J., 1997 *Spectrum. The UK Museums Documentation Standard*. Second edition. Museums Documentation Association
- Cox, M., 2002 *Crypt Archaeology: an approach*. Institute of Field Archaeologists Technical Paper 3 (Reading)
- Darvill, T. and Atkins, M., 1991 *Regulating Archaeological Works by Contract*. IFA Technical Paper No 8, Institute of Field Archaeologists (Reading)

- Davey P.J. 1981 *Guidelines for the processing and publication of clay pipes from excavations*. Medieval and Later Pottery in Wales, IV, 65-87
- Eiteljorg, H., Fernie, K., Huggett, J. and Robinson, D. 2002 *CAD: A guide to good practice*. Archaeology Data Service (York)
- EA 2005 *Guidance on Assessing the Risk Posed by Land Contamination and its Remediation on Archaeological Resource Management*. English Heritage/ Environment Agency Science Report P5-077/SR (Bristol)
- EH 1995 *A Strategy for the Care and Investigation of Finds*. English Heritage Ancient Monuments Laboratory (London)
- EH 1998 *Identifying and Protecting Palaeolithic Remains*. Archaeological guidance for planning authorities and developers. English Heritage (London)
- EH 1999 *Guidelines for the Conservation of Textiles*. English Heritage (London)
- EH 2000, *Managing Lithic Scatters*. Archaeological guidance for planning authorities and developers. English Heritage (London)
- EH 2002 *With Alidade and Tape: graphical and plane table survey of archaeological earthworks*. English Heritage (Swindon)
- EH 2003a *Where on Earth Are We? The Global Positioning System (GPS) in archaeological field survey*. English Heritage (London)
- EH 2003b *Twentieth-Century Military Sites. Current approaches to their recording and conservation* English Heritage (Swindon)
- EH 2004a *Dendrochronology. Guidelines on producing and interpreting dendrochronological dates*. English Heritage (Swindon)
- EH 2004b *Human Bones from Archaeological Sites: Guidelines for producing assessment documents and analytical report*. English Heritage Centre for Archaeology Guidelines
- EH 2006a *Guidelines on the X-radiography of Archaeological Metalwork*. English Heritage (Swindon)
- EH 2006b *Archaeomagnetic Dating*. English Heritage (Swindon)
- EH 2006c *Science for Historic Industries: Guidelines for the investigation of 17th- to 19th-century industries*. English Heritage (Swindon)
- EH 2007a *Understanding the Archaeology of Landscapes. A guide to good recording practice*. English Heritage (Swindon)
- EH 2007b *Geoarchaeology. Using earth sciences to understand the archaeological record*. (London)
- EH 2008a *Luminescence Dating. Guidelines on using luminescence dating in archaeology*. English Heritage (Swindon)
- EH 2008b *Geophysical Survey in Archaeological Field Evaluation. English Heritage Research and Professional Services Guidelines No 1* (second edition). English Heritage (Swindon)
- EH 2008c *Research and Conservation Framework for the British Palaeolithic*. English Heritage/Prehistoric Society (Swindon)
- EH 2008d *Investigative Conservation. Guidelines on how the detailed examination of artefacts from archaeological sites can shed light on their manufacture and use*. English Heritage (Swindon)
- EH 2010 *Waterlogged Wood: Guidelines on the recording, sampling, conservation and curation of archaeological wood*. English Heritage (London)
- EH 2011 *Environmental Archaeology: A guide to the theory and practice of methods, from sampling and recovery to post-excavation*. English Heritage Centre for Archaeology Guidelines (London)
- EH 2012, *Guidelines for the Care of Waterlogged Organic Artefacts: guidelines on their recovery, analysis and conservation*.
- EH 2014 *Our Portable Past: a statement of English Heritage policy and good practice for portable antiquities/surface collected material in the context of field archaeology and survey programmes (including the use of metal detectors)*. English Heritage (Swindon)
- EH and Church of England, 2005, *Guidance for Best Practice for Treatment of Human Remains Excavated from Christian Burial Grounds in England*. English Heritage (London)
- Ferguson, L. and Murray, D., 1997, *Archaeological Documentary Archives*. IFA Paper 1, Institute of Field Archaeologists (Reading)
- Gaffney, C. and Gater, J., with Ovenden, S., 2002, *The Use of Geophysical Techniques in Archaeological Evaluations*. IFA Technical Paper 9, Institute of Field Archaeologists (Reading)
- Gillings, M. and Wise, A., 1999, *GIS: A guide to good practice*. Archaeology Data Service (York)
- Gurney, D.A., 1985, *Phosphate Analysis of Soils: A Guide for the Field Archaeologist*. IFA Technical Paper 3, Institute of Field Archaeologists (Reading)
- HE 2015a *Archaeometallurgy: Guidelines for Best Practice*. Historic England (Swindon)
- HE 2015b (revised 2008), *Metric Survey Specifications for Cultural Heritage*. Historic England (Swindon)
- HE 2015c *Management of Research Projects in the Historic Environment. The MoRPHE Project Managers' Guide*. Historic England (Swindon)
- Handley, M., 1999, *Microfilming Archaeological Archives*. IFA Technical Paper 2, Institute of Field Archaeologists (Reading)
- Mays, S., 1991, *Recommendations for Processing Human Bone from Archaeological Sites*. Ancient Monuments Lab Report 124/91 (London)
- Mays, S., Brickley, M. and Dodwell, N., 2002, *Human Bones from Archaeological Sites. Guidelines for Producing Assessment Documents and Analytical Reports*. Centre for Archaeology Guidelines, English Heritage (Portsmouth)

- McKinley, J.I. and Roberts, C., 1993, *Excavation and Post-excavation Treatment of Cremated and Inhumed Human Remains*. Institute of Field Archaeologists Technical Paper No. 13 (Reading)
- MGC, 1992, *Standards in the Museum Care of Archaeological Collections*. Museums and Galleries Commission
- Murphy, P.L. and Wiltshire, P.E.J. 1994, *A Guide to Sampling Archaeological Deposits for Environmental Analysis*. English Heritage (London)
- MPRG 2000, *A Guide to the Classification of Medieval Ceramics*. Medieval Pottery Research Group Occasional Papers No. 1.
- MPRG 2001, *Minimum Standards for the Processing, Recording, Analysis and Publication of Post-Roman Ceramics*. Medieval Pottery Research Group
- Owen, J., 1995, *Towards an Accessible Archaeological Archive. The Transfer of archaeological archives to museums: guidelines for use in England, Northern Ireland, Scotland and Wales*. Society of Museum Archaeologists
- PCRG 1997, *The Study of Later Prehistoric Pottery: General policies and guidelines for analysis and publication*. Prehistoric Ceramics Research Group Occasional Paper 12
- Philo, C. and Swann, A., 1992, *Preparation of Artwork for Publication*. Institute of Field Archaeologists Technical Paper No. 10 (Reading)
- RCHME 1999, *Recording Archaeological Field Monuments: A descriptive specification*. RCHME (Swindon)
- RCHME 2007, *MIDAS: A manual and data standard for monuments inventories*. RCHME (Swindon)
- Schofield, A J, (ed) 1998, *Interpreting Artefact Scatters*. Oxbow Monograph 4 (Oxford)
- Richards, J. and Robinson, D. (eds), 2001, *Digital Archives From Excavation and Fieldwork: A guide to good practice*. Archaeology Data Service
- Robinson, W., 1998, *First Aid for Underwater Finds*. Archetype Books (London)
- RFG and FRG, 1993, *Guidelines for the Preparation of Site and Assessments for all Finds other than Fired Clay Vessels*. Roman Finds Group And Finds Research Group
- Schmidt, A., 2001, *Geophysical Data in Archaeology: A guide to good practice*. Archaeology Data Service
- SGRP, 1994, *Guidelines for the Archiving of Roman Pottery*. Study Group for Roman Pottery
- SMA, 1993, *Guidelines on the Selection, Retention and Dispersal of Archaeological Collections*. Society of Museum Archaeologists
- UKIC, 1983, *Packaging and Storage of Freshly Excavated Artefacts from Archaeological Sites*. (United Kingdom Institute for Conservation, Conservation Guidelines No 2)
- UKIC, 1984, *Environmental Standards for Permanent Storage of Excavated material from Archaeological Sites*. (United Kingdom Institute for Conservation, Conservation Guidelines No 3)
- UKIC, 1990, *Guidance for Conservation Practice*. United Kingdom Institute for Conservation
- UKIC, 1990, *Guidelines for the Preparation of Excavation Archives for Long-term Storage*. United Kingdom Institute for Conservation Archaeology Section
- UKIC, 2001, *Excavated Artefacts and Conservation*. (United Kingdom Institute for Conservation, Conservation Guidelines No 1, revised)
- Watkinson, D.E., and Neal, V., 1998, *First Aid for Finds*. (3rd edition) RESCUE/United Kingdom Institute for Conservation, Archaeology Section and Museum of London
- Willis, S., 1997, (ed) *Research Frameworks for the Study of Roman Pottery*. Study Group for Roman Pottery
- World Archaeology Congress 1989, *The Vermillion Accord – Human Remains*. Motion Approved at the First Inter-Congress on the Disposal of the Dead (Vermillion)
- Young C., 1980, *Guidelines for the Processing and Publication of Roman Pottery*. Department of the Environment



- Legend**
- Site boundary
 - Proposed evaluation trench
 - Previous feature (ASE 2016)
 - Previous trench (ASE 2016)



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Cotswold
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PROJECT TITLE
Land South of Water Lane
Angmering, West Sussex

FIGURE TITLE
**Trench location plan
showing geophysical survey results
and previous evaluation results**

DRAWN BY	KW	PROJECT NO	AN0135	FIGURE NO.
CHECKED BY	DATE	DATE	06/02/2020	2
APPROVED BY	REG	SCALE@A3	1:2,000	

