St Andrew’s Church, Dacre, Cumbria
Archaeological Watching Brief Report

June 2019

Client: St Andrew’s Church

Issue No: V. 1
OA Reference No: 2019-20/2012
NGR: NY 45998 26659
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St Andrew’s Church, Dacre, Cumbria

Archaeological Watching Brief Report

Written by James Hodgson

With illustrations by Mark Tidmarsh

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Summary

Oxford Archaeology (OA) North were commissioned by St Andrew’s Church (NGR NY 45998 26659) to undertake an archaeological watching brief during ground works for a replacement oil tank and associated oil delivery pipe along the northern side of the church. The work was undertaken as a Faculty (number 78.2018). The Faculty required that the works on-site be overseen by an archaeologist, as such, Steve Huddart (Church Secretary of St Andrew’s) commissioned OA North to produce a Written Scheme of Investigation (WSI; Appendix D) and maintain a watching brief during the works.

The current church is largely 12th century in date, with additions made in the 15th and 19th centuries, but is built on the site of a much earlier church, which itself was likely to have been constructed on the site of a 7th century Saxon monastery. Archaeological evidence from excavations in 1929, and between 1982 and 1985 supported the view that the church is built on the site of the monastery mentioned by Bede.

The Watching Brief was undertaken on 05th July 2019. No archaeological features were identified during the watching brief and the finds recovered were likely of modern date. A rubble-filled French drain, identified within the area of the oil tank base, is probably of modern date. The lack of archaeological features is most likely due to the ground works being excavated through an existing service trench and where not through the existing service, the trench was only excavated to a depth of 0.3m below ground level.
Acknowledgements

OA North would like to thank Steve Huddart, Church Secretary of St Andrew’s Church for commissioning this project. Thanks are also extended to Eleanor Kingston who monitored the work on behalf of the Lake District National Park Authority for her advice and guidance.

The project was managed for OA North by Paul Dunn. The fieldwork was undertaken by James Hodgson. Illustrations were produced by Mark Tidmarsh.
1 INTRODUCTION

1.1 Scope of work

1.1.1 OA North were commissioned by St Andrew’s Church (NGR NY 45998 26659; Fig 1) to undertake an archaeological watching brief during ground works for a replacement oil tank and associated oil delivery pipe along the northern side of the church (Fig 2).

1.1.2 The work was undertaken as a Faculty (number 78.2018). The Faculty required that the works on-site be overseen by an archaeologist; as such, Steve Huddart (Church Secretary of St Andrew’s) commissioned OA North to produce a Written Scheme of Investigation (WSI; Appendix D) and maintain a watching brief during the works. The fieldwork was undertaken on 05th July 2019.

1.2 Location, topography and geology

1.2.1 St Andrew’s Church lies to the north-east of the village of Dacre in, what is now, a cul-de-sac. The church is bonded by fields to the north, east and south, to the west it is bounded by cottages lining the cul-de-sac.

1.2.2 The solid geology of the area is mapped as Mell Fell Conglomerate, deposited in the Devonian Period (BGS 2019). The superficial deposits are mapped as Devensian Till, Diamicton, deposited in the Quarternary Period (ibid). The soils are mapped as freely draining slightly acid loamy soils (Cranfield 2019)

1.3 Archaeological and historical background

1.3.1 The earliest reference which appears to refer to Dacre, occurs within Bede’s Historia Ecclesiastica (completed c AD 731). He wrote of a miracle, which took place some three years before in a monastery, constructed near the river Dacore (Colgrave and Mynors 1969, 32). This monastery was clearly functioning at the time of writing, since Bede stated that one Thrydred was currently the abbot and that he had heard of the miracle from the monk upon whom it had been performed. Bede never stated where 'Dacore' was, although the assumption has always been made that the monastery was under the authority of the Northumbrian church. No other source makes any reference to a monastery at 'Dacore'. Another settlement named Dacre survives near Ripon, North Yorkshire, although it is not an ancient ecclesiastical parish. Both the surviving settlements have taken their names from nearby streams, the name deriving from the Celtic 'trickling stream' (Armstrong et al. 1950, 10).

1.3.2 The present church does not contain any pre-Norman elements. The earliest part is the tower, which contains twelfth-century architecture, while the chancel is largely late Romanesque in style. The nave contains elements of twelfth- to fifteenth-century date. However, support for the hypothesis that the church at Dacre was founded on a pre-Conquest site came in the late nineteenth century with the discovery of two pieces of sculpture. The first was found during the rebuilding of the east wall of the chancel in 1875 (Mathews 1891, 226). Known as the Dacre Stone, this would appear to be the shaft of a cross of tenth-century date, decorated in an Anglo-Viking style (Bailey 1977, 61). The second and earlier fragment of a cross shaft was found c 1900 'in deep clay'
during the digging of a service trench to a cottage close to the church (Collingwood 1912, 157). Its iconography and style clearly link it to Northumbrian sculpture of eighth-ninth-century date (Bailey and Cramp 1988, 91). One side of this fragment was worn and the stone had obviously been reused, perhaps in a pavement or floor, at some period between the destruction of the cross and its discovery.

1.3.3 A stone-lined drain, thought initially to be a passage, was discovered in the cemetery extension created in the nineteenth century along the south side of the original churchyard. This was opened in the late 1920s and proved to be formed of massive blocks of stone, worked in two distinct patterns (Hudleston 1932, 76). It also became clear that the drain was actually the outlet of two channels, which had flowed downhill from points close to the church. The drain was re-excavated during excavations at the church between 1982 and 1984, and proved to be constructed of re-used Roman stones, fairly crudely retooled, draining the area of the present churchyard and leading into the field to the south (Newman and Leech forthcoming). Excavations to the north of the church, between 1982 and 1984, revealed a Christian cemetery of more than 230 graves, associated with at least two buildings pre-dating the development of the parochial church from the eleventh and twelfth centuries (ibid). Further excavations in the field to the south of the churchyard merely produced the remains of an open ditch (Hudleston 1932, 76-7).

1.3.4 The association of this feature with a church site producing pre-Norman sculpture led to the assumption that Dacre, near Penrith, was indeed the site of the monastery referred to by Bede. It was noted that a large stone-lined drain had been excavated in association with Anglo-Saxon structures at Whitby (Peers and Radford 1943, 31) and Hudleston inferred that the present church had been constructed over an earlier Anglo-Saxon structure, with the buildings served by these drains lying beneath the medieval churchyard to the south of the church (Hudleston 1932, 76-7).

1.3.5 The churchyard contains a further unusual feature: the presence of four upright stone figures, one roughly at each corner of the church, although they are not aligned with the present church. Three of the figures resemble bears, while the fourth, at the northeast corner, has some similarities with a lion. The two figures on southern side of the church appear to have gripping beasts on their backs, but all are worn to a greater or lesser extent. They were first recorded in 1704, during Bishop Nicolson’s visitation: ’At each corner of the churchyard... there stands a Bear and Ragged Staff, cut in Stone’ (Ferguson 1877, 128). Nothing is known of their origin.

1.3.6 The most recent archaeological work undertaken at St Andrew’s Church, was undertaken by North Pennines Archaeology in 2011. This work monitored ten test pits, a service trench to serve a new toilet and kitchen block and a drainage trench (NPA 2011). Features of note included the discovery of a stone culvert or wall located at the point where the present turf of the graveyard and the north side of the gravel path meet. This feature was noted to have truncated a burial (ibid). A further in-situ burial was revealed midway along the length of the gravel path, again possibly suggesting that this burial may have predated the creation of the main entrance into the church from the west (ibid). Also, a c 1.40m wide section of wall was revealed at a depth of only 0.35m below present ground level. No finds were retrieved to allow for an approximate date for this wall; it has been considered that it may have belonged to an
earlier phase of the church, or possibly part of an earlier boundary wall which ran much closer to the church at the south side. It is also possible that it may represent a pre-Norman structure, possibly even part of the monastery buildings believed to have occupied the locality.
2 \textbf{WATCHING BRIEF AIMS AND METHODOLOGY}

2.1 Aims

2.1.1 The project aims and objectives were as follows:

i. To adhere to and fulfill the agreed programme of works associated with the archaeological potential of the site;

ii. To determine or confirm the general nature of any remains present;

iii. To determine or confirm the approximate date or date range of any remains, by means of artefactual or other evidence;

iv. To compile a professional archival record of any archaeological remains within the site

2.2 Methodology

2.2.1 The full methodology is outlined in the Written Scheme of Investigation \textit{(Appendix D)} and was adhered to in full and was fully compliant with prevailing guidelines and established industry best practice (CIfA 2014a: 2014b: 2014c: Historic England 2015). A programme of field observation accurately recorded the character of deposits within the excavations.

2.2.2 The topsoil and overburden were removed using a 1-ton 360°, tracked excavator (fitted with a toothless bucket) to the surface of the first significant archaeological deposit, under direct archaeological supervision at all times. Subsequent cleaning and investigation of all archaeological deposits were undertaken manually, using either hoes, shovel scraping, and/or trowels depending on the subsoil conditions. All features of archaeological interest were investigated and recorded.

2.2.3 All information identified during the site works was recorded stratigraphically, using a system adapted from that used by the former Centre of Archaeology of English Heritage, with an accompanying pictorial record (plans, sections, and digital photographs). Primary records were available for inspection at all times.

2.2.4 Results of all field investigations were recorded on \textit{pro forma} context sheets. The site archive includes a photographic record and accurate large-scale plans and sections at appropriate scales (1:50, 1:20 1:10).

2.2.5 A full professional archive has been compiled in accordance with the Written Scheme of Investigation \textit{(Appendix D)}, and in accordance with current CIfA (2014c) and Historic England guidelines (Historic England 2015). The archive will be deposited with Lake District National Park Authority.
3 RESULTS

3.1 Introduction and presentation of results

3.1.1 The results of the watching brief are presented below and include a stratigraphic description of the ground works monitored. A context list with dimensions and depths of all deposits can be found in Appendix A.

3.2 General soils and ground conditions

3.2.1 Soil conditions were dry and well drained. The western area of excavation consisted predominantly of a sandy silt amongst a substantial amount of gravels. Natural geology was not encountered, and the soil sequence was fairly uniform.

3.2.2 Ground conditions throughout the watching brief were generally good, and the site remained dry throughout. Archaeological features, where present, were easy to identify against the underlying natural geology.

3.3 Watching Brief Results

3.3.1 The oil delivery pipe trench was aligned approximately east/west along the northern edge of the church, was excavated approximately 25m long by 0.2m wide and up to 0.3m deep.

3.3.2 For the most part, the oil delivery pipe trench was within the confines of pre-existing service trenches which did not reach natural geology due to a required maximum depth of 0.3m, with no significant archaeology being identified. Where the trench was excavated through the existing drainage trench, only gravel infill, 102, was observed, outside of this drainage trench only topsoil, 101, was observed, due to the shallow nature of the trench being excavated. Three iron objects (Section 3.4) were recovered close to the vestry’s northern wall near the proposed site for the two new boilers.

3.3.3 The oil tank base was excavated directly east of the vestry and north of the altar (Fig 2) and measured 2.9m long by 1.5m wide and excavated to a depth of 0.3m. Due to the shallow nature of the excavation, only topsoil 101 was observed. No significant archaeology was identified, though there was evidence for a north-west/south-east aligned French drain, filled with rubble and masonry, cutting through the south-west corner of the oil tank base.
3.4 Environmental and Finds summary

3.4.1 No environmental samples were taken as there were no suitable deposits. Three iron objects were recovered from the oil delivery pipe trench, with no finds being recovered from the oil tank base. Upon close inspection these iron objects are potentially related to the multiple manholes for service access nearby. These objects were not retained.

Plate 1: Oil delivery pipe trench looking south-west

Plate 2: Iron objects recovered from the oil delivery pipe trench, scale 0.5m
4 DISCUSSION

4.1 Watching Brief results and interpretation

4.1.1 No archaeological features were identified during the watching brief and the finds recovered were likely of modern date. The rubble-filled French drain, identified within the area of the oil tank base, is again, likely of modern date. The lack of archaeological features is most likely due to the ground works being excavated through an existing service trench and also potentially beneath the topsoil in those areas where it was excavated outside the existing drainage trench.
APPENDIX A CONTEXT INVENTORY

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General description

No significant archaeology was encountered. Topsoil and gravel infill were the only deposits encountered.

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**APPENDIX C**

**SITE SUMMARY DETAILS**

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**Summary of Results:**

OA North were commissioned by St Andrew’s Church (NGR NY 45998 26659) to undertake an archaeological watching brief during ground works prior to the installation of a new fuel tank and associated fuel lines supplying new boilers. The work was undertaken as a Faculty (number 78.2018). The Faculty required that the works on-site be overseen by an archaeologist, as such, Steve Huddart commissioned OA North to produce a Written Scheme of Investigation (WSI; Appendix D) and maintain a watching brief during the works. The fieldwork was undertaken on 05th July 2019.

No significant archaeology was identified during the watching brief. A French drain was identified within the area of the oil tank base and three iron objects were recovered from the fuel line trench close to the vestry’s northern wall, the finds were not retained. The lack of archaeological features is likely due to the ground works being excavated through an existing service trench and also not breaking through the topsoil.
APPENDIX D  WRITTEN SCHEME OF INVESTIGATION
St Andrew's Church, Dacre, Cumbria

Client Name: St Andrew’s Church
Document Title: St Andrew’s Church, Dacre, Cumbria
Document Type: Written Scheme of Investigation
Grid Reference: NY 45998 26659
Site Code: SAC19
Invoice Code: L11231
OA Document File Location: X:\Projects\L11231_St_Andrews_Dacre\WSI
OA Graphics File Location: X:\Projects\L11231_St_Andrews_Dacre\OAN_CAD
Issue No: V. 1
Date: May 2019
Prepared by: Paul Dunn (Project Manager)
Checked by: Paul Dunn (Project Manager)

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St Andrew’s Church, Dacre, Cumbria

Written Scheme of Investigation for an Archaeological Watching Brief

Centred on NY 45998 26659

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1 INTRODUCTION

1.1 Project details

1.1.1 Oxford Archaeology (OA) North have been commissioned by St Andrews Church to undertake an archaeological watching brief at the church during excavation works for a replacement oil tank and associated fuel lines.

1.1.2 The work is being undertaken as a Faculty (number 78.2018). The Faculty required that the works on-site be overseen by an archaeologist, as such, Steve Huddart commissioned OA North to produce this Written Scheme of Investigation and maintain a watching brief during the works. This document outlines how OA will implement those requirements.

1.1.3 All work will be undertaken in accordance with local and national planning policies referenced throughout this document.

1.2 Location, topography and geology

1.2.1 St Andrew’s Church lies to the north-east of the village of Dacre, in what is now a cul-de-sac. The church is bonded by fields to the north, east and south, to the west it is bounded by cottages lining the cul-de-sac.

1.2.2 The solid geology of the area is mapped as Mell Fell Conglomerate, deposited in the Devonian Period (BGS 2019). The superficial deposits are mapped as Devensian Till, Diamicton, deposited in the Quaternary Period (ibid). The soils are mapped as freely draining slightly acid loamy soils (Cranfield 2019).
2 ARCHAEOLOGICAL AND HISTORICAL BACKGROUND AND POTENTIAL

2.1 Archaeological and historical background

2.1.1 The earliest reference which appears to refer to Dacre, occurs within Bede's *Historia Ecclesiastica* (completed c AD 731). He wrote of a miracle, which took place some three years before in a monastery, constructed near the river Dacore (*Est autem factum in monasterio, quod iuxta amnem Dacore constructum ab eo cognomen accepit, HE iv, 32*). This monastery was clearly functioning at the time of writing, since Bede stated that one Thrydred was currently the abbot and that he had heard of the miracle from the monk upon whom it had been performed. Bede never stated where 'Dacore' was, although the assumption has always been made that the monastery was under the authority of the Northumbrian church. No other source makes any reference to a monastery at 'Dacore'. Another settlement named Dacre survives near Ripon, North Yorkshire, although it is not an ancient ecclesiastical parish, not to mention the possibility of other settlements which have failed or have had their names changed. Both the surviving settlements have taken their names from nearby streams, the name deriving from the Celtic 'trickling stream' (Armstrong *et al.* 1950, 10).

2.1.2 The present church does not contain any pre-Norman elements. The earliest part is the tower, which contains twelfth-century architecture, while the chancel is largely late Romanesque in style. The nave contains elements of twelfth- to fifteenth-century date. However, support for the hypothesis that the church at Dacre was founded on a pre-Conquest site came in the late nineteenth century with the discovery of two pieces of sculpture. The first was found during the rebuilding of the east wall of the chancel in 1875 (Mathews 1891, 226). Known as the Dacre Stone, this would appear to be the shaft of a cross of tenth-century date, decorated in an Anglo-Viking style (Bailey 1977, 61). The second and earlier fragment of a cross shaft was found c 1900 'in deep clay' during the digging of a service trench to a cottage close to the church (Collingwood 1912, 157). Its iconography and style clearly link it to Northumbrian sculpture of eighth-ninth-century date (Bailey and Cramp 1988, 91). One side of this fragment was worn and the stone had obviously been reused, perhaps in a pavement or floor, at some period between the destruction of the cross and its discovery.

2.1.3 A stone-lined drain, thought initially to be a passage, was discovered in the cemetery extension created in the nineteenth century along the south side of the original churchyard. This was opened in the late 1920s and proved to be formed of massive blocks of stone, worked in two distinct patterns (Hudleston 1932, 76). It also became clear that the drain was actually the outlet of two channels, which had flowed downhill from points close to the church. Further excavations in the field to the south of the churchyard merely produced the remains of an open ditch (*ibid*, 75-6). No finds were recorded.

2.1.4 The association of this feature with a church site producing pre-Norman sculpture led to the assumption that Dacre, near Penrith, was indeed the site of the monastery referred to by Bede (*HE iv*, 32). It was noted that a large stone-lined drain had been excavated in association with Anglo-Saxon structures at Whitby (Peers and Radford 1943, 31) and Hudleston inferred that the present church had been constructed over
an earlier Anglo-Saxon structure, with the buildings served by these drains lying beneath the medieval churchyard to the south of the church (Hudleston 1932, 76-7).

2.1.5 The churchyard contains a further unusual feature: the presence of four upright stone figures, one roughly at each corner of the church, although they are not aligned with the present church. Three of the figures resemble bears, while the fourth, at the north-east corner, has some similarities with a lion. The two figures on southern side of the church appear to have gripping beasts on their backs, but all are worn to a greater or lesser extent. They were first recorded in 1704, during Bishop Nicolson’s visitation: ‘At each corner of the churchyard... there stands a Bear and Ragged Staff, cut in Stone’ (Ferguson 1877, 128). Nothing is known of their origin.

2.2 Potential

2.2.1 Although the works on site are due to be confined to existing service trenches and will also be shallow, 0.3m deep, there is still the possibility that archaeological remains may be identified within the new service trench.
3 **PROJECTAIMS**

3.1 **General**

3.1.1 The general aims of the project can be summarised as follows;

- to adhere to and fulfil the agreed programme of works associated with the archaeological potential of the site;
- to determine or confirm the general nature of any remains present;
- to determine or confirm the approximate date or date range of any remains, by means of artefactual or other evidence;
- to compile a professional archival record of any archaeological remains within the site.

3.2 **Specific aims and objectives**

3.2.1 The specific aims and objectives of the watching brief are;

i. to determine or confirm the general nature of any remains present;
ii. to determine or confirm the approximate date or date range of any remains, by means of artefactual or other evidence.
4 PROJECT SPECIFIC EXCAVATION AND RECORDING METHODOLOGY

4.1 Scope of works

4.1.1 The works will involve the archaeological monitoring of the excavation of a new fuel line linking a new oil tank to the churches boilers. These works will be undertaken using a mechanical excavator to excavate to depth of 0.3m below ground level, along the line of an existing surface water drain. If archaeological features are identified, they will be manually cleaned and recorded by the archaeologist monitoring the works. The archaeologist will be afforded the opportunity to clean, investigate and record any features or structures present. If potentially significant archaeological remains are identified, the archaeologist will inform the client and consult with the DAC, before work can recommence.

4.2 Programme

4.2.1 OA North will commence the watching brief when directed by St Andrew’s Church. The duration of the archaeological presence is currently unknown.

4.2.2 The project will be under the direct management of Paul Dunn (OA North Project Manager) to whom all correspondence should be addressed. The watching brief will be undertaken by a Project Archaeologist, depending on OA North’s timetabling of works and weather this may be subject to change through the duration of the archaeological works. All OA North Project Officers, Supervisors and Project Archaeologists are experienced field archaeologists capable of carrying out projects of all sizes.

4.2.3 All fieldwork undertaken by OA North is overseen by the Operations Manager, Alan Lupton MCIfA.

4.3 Site specific methodology

4.3.1 A summary of OA’s general approach to excavation and recording can be found in Appendix A. Standard methodologies for Geomatics and Survey, Environmental evidence, Artefactual evidence and Burials can also be found below (Appendices B, C, D and E respectively).

4.3.2 Site specific methodologies will be as follows;

i. the Project Archaeologist will maintain a watching brief during the excavation works for the new fuel line;

ii. they will be afforded the opportunity to clean, investigate, record and sample all archaeological remains to an appropriate degree. The hand excavation and recording methodology which will be implemented can be found in Appendix A;

iii. if potentially significant remains are identified, the Project Archaeologist will stop works. They will then inform the client and will consult with the DAC, work will only continue with their approval;

iv. all information identified in the course of the site works will be recorded stratigraphically, using a system adapted from that used by the Centre for Archaeology Service of English Heritage. Results of the watching briefs will be
recorded on *pro-forma* context sheets, and will be accompanied with sufficient pictorial record (plans, sections and digital photographs) to identify and illustrate archaeological features;

v. a full and detailed photographic record of archaeological features will be maintained and similarly general views from standard view points of the overall site at all stages of the excavation will be generated. Photography will be undertaken using 16 or 18 mega-pixel digital SLR or hybrid compact digital camera, and all frames will include a graduated metric scale (Historic England 2015). The images will be taken in JPEG and RAW formats. Photograph record will be maintained on special photographic *pro-forma* sheets;

vi. where disarticulated human remains and/or other funerary remains, such as coffin fittings, are encountered, they will be lifted and contained within lidded cardboard boxes or opaque burial sacks, and removed daily from the immediate vicinity for safe storage (for example within the church). Such bones will be rapidly scanned and quantified on site. Unless specified by the DAC, they will be returned to the contractor for reburial within the backfill of the drainage works. In the event that burials are encountered, the standard Human Remains methodology can be found in *Appendix E*;

vii. at all times, the archaeologist will work under the Health and Safety directions of the site contractor.
5 PROJECT SPECIFIC REPORTING AND ARCHIVE METHODOLOGY

5.1 Programme

5.1.1 The results of the watching brief fieldwork will culminate in a final report to be submitted initially as a draft as a digital (.pdf) copy within approximately six weeks of completion of the fieldwork (subject to any specialist reports outstanding). Following approval, the report will be finalised as a digital copy (hardcopies provided on request). A digital copy will be forwarded to the Lake District National Park Authority Historic Environment Record and the DAC within six weeks of the completion of the fieldwork.

5.2 Content

5.2.1 The content of this report will be as defined in Appendix F.

5.3 Specialist input

5.3.1 OA has a large pool of internal specialists, as well as a network of external specialists with whom OA have well established working relationships. A general list of these specialists is presented in Appendix G; in the event that additional input should be required, an updated list of specialists can be supplied.

5.4 Archive

5.4.1 The site archive will be deposited with the Lake District National Park Authority following completion of the project. This will follow appropriate industry guidelines (CIfA 2014). The Arts and Humanities Data Service (AHDS) online database project Online Access to index of Archaeological Investigations (OASIS) will be completed as part of the archiving phase of the project.

5.4.2 A summary of OA’s general approach to documentary archiving can be found in Appendix H.
6 HEALTH AND SAFETY

6.1 Roles and responsibilities

6.1.1 The Project Manager, Paul Dunn, has responsibility for ensuring that safe systems of work are adhered to on site. Elements of this responsibility will be delegated to the Project Archaeologist, who implements these on a day to day basis. Paul Dunn, the Project Archaeologist and Historic Buildings Project Officer are supported by OA North’s Health and Safety Advisor, Fraser Brown.

6.1.2 The Director with responsibility for Health and Safety at OA is Dan Poore Tech IOSH (Chief Business Officer).

6.2 Method statement and risk assessment

6.2.1 A summary of OA’s general approach to health and safety can be found in Appendix I. A risk assessment has also been undertaken and approved and will be kept on site, along with OA’s standard Health and Safety file, which will contain all relevant health and safety documentation.

6.2.2 The Health and Safety file will be available to view at any time.

6.3 Monitoring of works

6.3.1 Archaeological investigations will be monitored where appropriate by the client and the DAC. The client will be regularly updated with the ongoing results of the fieldwork. The ultimate release of the planning conditions will be dependent upon the successful completion of these archaeological aims, but also the production of a complete archaeological report detailing the results of the watching brief and an interpretation of their significance.

6.3.2 All site visits will be carried out under the auspices of the Main Contractors Health and Safety Plan and visitors will have a current CSCS card, wear appropriate PPE and be accompanied at all times. The client and the DAC will have free access to the site (subject to Health and Safety considerations) and all records to ensure the works are being carried out in accordance with this WSI and all other relevant standards.
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Proposed New boilers &
Oil tank & associated work
at
St. Andrew's Church,
Darre, Nr. Penwith.

Scale 1:50
The following methods and terms will apply, where appropriate, to all OA fieldwork unless varied by the accompanying detailed Written Scheme of Investigation.

Copies of all OA internal standards and guidelines referred to below are available on request.

APPENDIX A GENERAL EXCAVATION AND RECORDING METHODOLOGY

A.1 Standard methodology – summary

**Mechanical excavation**

A.1.1 An appropriate mechanical excavator will be used for machine excavation. This will normally be a JCB or 360° tracked excavator with a 1.5 m to 2 m wide toothless ditching bucket. For work with restricted access or working room a mini excavator may be used.

A.1.2 All mechanical excavation will be undertaken under direct archaeological supervision.

A.1.3 All undifferentiated topsoil or overburden of recent origin will be removed down to the first significant archaeological horizon, in successive, level spits.

A.1.4 Following mechanical excavation, all areas that require examination or recording will be cleaned using appropriate hand tools.

A.1.5 Spoil heaps will be monitored in order to recover artefacts to assist in the analysis of the spatial distribution of artefacts. Modern artefacts will be noted but not retained.

A.1.6 After recording, evaluation trenches and test pits will usually be backfilled with excavated material in reverse order of excavation, and compacted as far as is practicable with the mechanical excavator. Area excavations will not normally be backfilled.

**Hand excavation**

A.1.7 All investigation of archaeological levels will usually be by hand, with cleaning, examination and recording both in plan and section.

A.1.8 Within significant archaeological levels the minimum number and proportion of features required to meet the aims of the excavation will be hand excavated. Pits and postholes will usually be subject to a 50% sample by volume. Linear features will be sectioned as appropriate. More complex features such as those associated with funerary activity will usually be subject to 100% hand excavation.

A.1.9 In the case of evaluations, it is not necessarily the intention that all trial trenches will be fully excavated to natural stratigraphy, but the depth of archaeological deposits across the site will be assessed. The stratigraphy of a representative sample of the evaluation trenches will be recorded even where no archaeological deposits have been identified. Any excavation, both by machine and by hand, will be undertaken with a view to avoiding damage to any archaeological features or deposits, which appear to be worthy of preservation in situ.
**Recording**

A.1.10 Written descriptions will be recorded on proforma sheets comprising factual data and interpretative elements.

A.1.11 Where stratified deposits are encountered a Harris matrix will be compiled during the course of the excavation.

A.1.12 Plans will normally be drawn at 1:100, but on urban or deeply stratified sites a scale of 1:50 or 1:20 will be used. Detailed plans will be at an appropriate scale. Burials will be drawn at scale 1:10 or recorded using geo-referenced digital photography.

A.1.13 The site grid will be accurately tied into the National Grid and located on the 1:2500 or 1:1250 map of the area.

A.1.14 A register of plans will be kept.

A.1.15 Long sections of showing layers will be drawn at 1:50. Sections of features or short lengths of trenches will be drawn at 1:20.

A.1.16 A register of sections will be kept.

A.1.17 Generally, all sections will be tied in to Ordnance Datum.

A.1.18 A full photographic record, illustrating in both detail and general context the principal features and finds discovered will be maintained. The photographic record will also include working shots to illustrate more generally the nature of the archaeological work.

A.1.19 Photographs will be recorded on OA Photographic Record Sheets.

**A.2 Relevant industry standards and guidelines**

A.2.1 The Chartered Institute for Archaeologists Standard and Guidance notes relevant to fieldwork are:

- Standard and Guidance for Archaeological Field Evaluation
- Standard and Guidance for Archaeological Excavation
- Standard and Guidance for an Archaeological Watching Brief.

A.2.2 These will be adhered to at all times.

**A.3 Relevant OA manual and other supporting documentation**

A.3.1 All fieldwork will be undertaken in accordance with the requirements of the OA Field Manual (ed. D Wilkinson 1992), and the revised OA fieldwork manual (publication forthcoming).

A.3.2 Further guidance is provided to all excavators in the form of the OA 'Fieldwork Crib Sheets - a companion guide to the Fieldwork Manual'. These have been issued ahead of formal publication of the revised Fieldwork Manual.
APPENDIX B GEOMATICS AND SURVEY

B.1 Standard methodology - summary

B.1.1 The aim of OA methodology is to provide comprehensive survey cover of all investigation areas. Additionally, it is designed to provide coverage for any areas, beyond the original scope of the project, which arise as a result of further work. It provides digital plans of all required elements of the project and locates them within an overall grid.

B.1.2 It also maintains all necessary survey data and ensures that the relevant information is copied into the primary record, in order to ensure the integrity of the project archive. Furthermore, it ensures that all core data is securely stored and backed up. It establishes accurate project reference systems utilising a series of control stations and permanent base lines.

B.1.3 The survey will be conducted using a combination of Total Station Theodolite (TST) survey utilising Reflectorless Electronic Distance Measurement (REDM) where appropriate, hand-measured elements and GPS (Global Positioning System), or photogrammetry.

B.1.4 Before the main work commences, a network of control stations will be laid out encompassing the area. Control stations will be tied in to known points or existing features using rigorous metric observation. The control network will be set in using a TST to complete a traverse or using techniques as appropriate to ensure sufficient accuracy. A GPS, or other appropriate method, will be used to orientate the control network to National Grid or other recognised coordinate system.

B.1.5 All control stations will be checked by closed traverse and/or GPS, as appropriate. The accuracy of these control stations will be assessed on a regular basis and re-established accordingly. All stations will be recorded on Survey Control Station sheets.

B.1.6 Each control station will be marked with a PGM (Permanent Ground Marker). Witness diagrams will include the full 3-D co-ordinates generated, a sketch diagram and measurements to at least three fixed details, written description of the mark and a photograph of the control point in its environs.

B.1.7 Prior to entry into the field all equipment will be checked, and all pre-survey information will be logged onto the field computer and uploaded onto survey equipment as appropriate. The software in the field computer will be verified and all cabling between the GPS and/or TST and computer will be checked. Prior to conducting the survey, the site will be reconnoitred for locations for a viable control network and check the line of sight and any possible hindrance to survey. Daily record sheets will be kept to record daily tasks and conditions.

B.1.8 All spatial data will be periodically downloaded onto a field computer, and backed up onto CD, or DVD. It will be cleaned, validated and inspected.

B.1.9 All survey data will be documented on daily survey record sheets. Information entered on these sheets includes key set up information (Instrument height etc.) as well as daily variables and errors/comments. All survey data will be digitally recorded in a raw
format and translated during the download process this shall allow for any errors to be cross referenced with the daily survey record and corrected accordingly.

B.1.10 A weekly summary of survey work will be produced to access development and highlight problems. This information also will be recorded on the weekly survey journal. Technical support for the survey equipment and download software shall be available at all times. In those instances, where sites are remotely operated, all digital data will be backed up regularly and a copy returned to Oxford on a weekly basis.

B.1.11 A site plan will initially be created by a rapid survey of relevant archaeological features by mapping their extent using a combination of TST and GPS. This will form the basis for deciding excavation strategy and will be updated as the excavation clarifies the extent of, and relationships between, archaeological features.

B.1.12 Excavated archaeological interventions and areas of complex stratigraphy will be hand drawn. At least two Drawing Points (DPs) will be set in as a baseline and measurements taken off this by tape and offset. The hand drawn plans will be referenced to the digitally captured pre-site plan by measuring in the DPs with a TST or GPS. These hand drawn elements will then be scanned in, geo-referenced using the DPs as reference points and digitised following OA’s digitising protocols. For further details on hand planning procedure please refer to the fieldwork guidelines.

B.1.13 Where appropriate photogrammetry or rectified photography may be used to record standing structures or burials. This will be carried out in line with Standard OA procedures for photogrammetry or rectified photography.

B.1.14 Survey data recorded in the field will be downloaded using appropriate downloading software, and saved as an AutoCAD Map DWG file, or an ESRI Shapefile. These files will be regularly updated and backed up with originals being stored on an OA server in Oxford.

B.1.15 All drawings will be composed of closed polygons, polylines or points in accordance with the requirements of GIS construction and OA Geomatics protocols. Once created, additional GIS/CAD work will normally be carried out at the local OA central office or at on-site remote locations when appropriate. Support for all GIS/CAD work will be available from OA’s Oxford Office during normal office hours. The aim of the GIS/CAD work is to produce workable draft plans, which can be produced as stand-alone products, or can be readily converted to GIS format. Any hand-drawn plans will be scanned and digitised on site in the first instance. Subsequent plans will be added to the main drawing as it develops.

B.1.16 All plan scans will be numbered according to their plan site number. Digital plans will be given a standard new plan number taken out from the site plan index.

B.1.17 All digital data will be backed up incrementally on CD or DVD. On each Friday the entire data directory will be backed up and returned to Oxford where it will be copied onto the OA projects server. Each CAD drawing will contain an information layout which will include all the relevant details appertaining to that drawing. Information (metadata) on all other digital files will be created and stored as appropriate. At the end of the survey all raw measurements will be made available as hard copy for archiving purposes.
B.2 Relevant industry standards and guidelines


B.3 Relevant OA manual and other supporting documentation

B.3.1 OA South Metric Survey, Data Capture and Download Procedures

B.3.2 OA South Digitising Protocols

B.3.3 OA South GIS Protocols

B.3.4 These will be superseded by the OA South Geomatics Manual (in progress).
APPENDIX C  ENVIRONMENTAL EVIDENCE

C.1  Standard methodology – summary

C.1.1  Different environmental and geoarchaeological sampling strategies may be employed according to established research targets and the perceived importance of the strata under investigation. Where possible an environmental specialist(s) will visit the site to advise on sampling strategies. Sampling methods will follow guidelines produced by Historic England and Oxford Archaeology. A register of samples will be kept. Specialists will be consulted where non-standard sampling is required (e.g. TL, OSL or archaeomagnetic dating) and if appropriate will be invited to visit the site and take the samples.

C.1.2  Geoarchaeological sampling methods are site specific, and methodologies will be designed in consultation with the geoarchaeological manager on a site by site basis.

C.1.3  Bulk soil samples, where possible of 40 litres or 100% of a deposit if less is available, will be taken from potentially datable features and layers for flotation for charred plant remains and for the recovery of small bones and artefacts. Larger soil samples (up to 100L) may be taken for the complete recovery of animal bones, marine shell and small artefacts from appropriate contexts. Smaller bulk samples (general biological samples) of 10-20 litres will be taken from any waterlogged deposits present for the recovery of macroscopic plant remains and insects. Series of incremental 2L samples may be taken through buried soils and deep feature fills for the recovery of snails and/or waterlogged plant remains, depending on the nature of the stratigraphy and of the soils and sediments. Columns will be taken from buried soils, peats and waterlogged feature fills for pollen and/or phytoliths, diatoms, ostracods and foraminifera if appropriate. Soil samples will be taken for soil investigations (particle size, organic matter, bulk chemistry, soil micromorphology etc.) and possibly for metallurgical analysis in consultation with the appropriate specialists.

C.1.4  Bulk samples from dry deposits will be processed by standard water flotation using a modified Siraf-style machine and meshes of 0.25mm (flot) and 0.5 or 1mm depending on sediment type and like modes of preservation (residue). Heavy residues will be wet sieved, air dried and sorted. Samples taken exclusively for the recovery of bones, marine shell or artefacts will be wet sieved to 2mm. Waterlogged samples (1L sub-sample) and snail samples (2L) will be processed by hand flotation with flots and residues collected to 0.25mm (waterlogged plants) and 0.5mm (snails) respectively; these flots and residues will be sorted by the specialist. Samples specifically taken for insects, pollen, other microflora and microfauna, metallurgy and soil analysis will be submitted as whole earth to the appropriate specialists or processed following their instructions.

C.2  Relevant industry standards and guidelines


C.3 Relevant OA manual and other supporting documentation

APPENDIX D  ARTEFACTUAL EVIDENCE

D.1 Standard methodology - summary

D.1.1 Before a site begins arrangements concerning the finds will be discussed with the Head of Finds. Information will be provided by the project manager about the nature of the site, the expected size and make-up of the finds assemblage and any site specific finds retrieval strategies. On-site requirements will be discussed and a conservator appointed who can be called on to make site visits if required. Special requirements regarding particular categories of material will be raised at this early stage for instance the likelihood of recovering assemblages of waterlogged material, large timbers, quantities of structural stone or ceramic building material. Specialists may be required to visit sites to discuss retrieval strategies.

D.1.2 The project manager will supply the Head of Finds with contact details of the landowner of the site so that consent to deposit any finds resulting from the investigation can be sought.

D.1.3 The on-site retrieval, lifting and short term packaging of bulk and small finds will follow the detailed guidelines set out in the OA Finds Manual (sections 2 and 3), First Aid for Finds and the UKIC conservation guidelines No.2.

D.1.4 All finds recovered from site will be transported to an OA regional office for processing; local sites will return finds at the end of each day, away based sites at the end of each week. Special arrangements can be discussed for certain sites with the department manager before the start of a project. Larger long running sites may in some instances set up on-site processing units to deal with the material from a particular site.

D.1.5 All finds qualifying as Treasure will be removed to a safe place and reported to the local Coroner according to the procedures relating to the Treasure Act (1996), and the Treasure (Designation) Order 2002. Where removal cannot be effected on the same working day as the discovery, suitable security measures will be taken to protect the finds from theft.

D.1.6 Each box of finds will be accompanied by a finds context checklist itemising the finds within each box. The number of bags of finds from each context and individual small find from each context will be recorded. A member of the processing team will check the list when it arrives in the department. There are separate forms for finds recovered from fieldwalking.

D.1.7 The processing programme is reviewed on a weekly basis and priorities are worked out after discussions with the Head of Fieldwork and the Head of Post-excavation. Project managers will keep the Head of Finds informed of any pressing deadlines that they are aware of. All finds from evaluations are dealt with as a matter of priority.

D.1.8 All bulk finds are washed (where appropriate), marked, bagged and boxed by the processing team according to the guidelines set out in section 4 and 5 of the OA Finds Manual, First-aid for finds and the UKIC guidelines No.2. They must also take into account the requirements of the receiving museum. Primary data recording count and weight of fragments by material from each context is recorded on the site database.
D.1.9 Unstable and sensitive objects are recorded onto the database and then packaged and stored in controlled environments according to their individual requirements. The advice of a conservator will be sought for sensitive objects in need of urgent conservation. All metalwork will be x-rayed prior to assessment (and to meet the requirements of most receiving museums).

D.1.10 Finds recovered from the environmental sample processing will be incorporated into the main assemblage and added to the database.

D.1.11 On completion of the processing and data entry a finds file for each archaeological investigation will be produced, a summary of which is available for the project manager. The assemblage is allocated an OA number for storage purposes. Bulk finds are stored on a roller racking system, metals in a secure controlled storage and organic finds are refrigerated where possible.

D.1.12 The movement of finds in and out of the department storage areas is strictly monitored and recorded. Carbon copy transit forms exist to record this information. Finds will not be removed from storage without the prior knowledge of the Head of Finds.

D.1.13 Finds information summarised in the finds compendium is used to assess the finds requirements for the post excavation stages of the project. The Finds department holds a list of all specialists used by OA (see below) both internal and external.

D.1.14 On completion of the post excavation stage of the project the department prepares the finds assemblage for deposition with the receiving museum. Discussions will be held with the museum, the excavator and the head of finds to finalise any selection, retention or discard policy. Most museums issue strict guidelines for the preparation of archives for deposition with their individual labelling, packaging and recording requirements.

D.2 Relevant industry standards and guidelines


D.3 Relevant OA manual and other supporting documentation

D.3.1 Allen, L, and Cropper, C (internal publication only) Oxford Archaeology Finds Manual.
APPENDIX E  HUMAN REMAINS

E.1 Standard methodology - summary

E.1.1 Human remains will not be excavated without a relevant licence/faculty and, where applicable (for example, a post medieval cemetery), a risk assessment from the local environmental officer.

E.1.2 All human remains will be treated with due care and regard to the sensitivities involved, and will be screened from the public throughout the course of the works.

E.1.3 Excavation will be undertaken in accordance with CIfA (Roberts and McKinley 1993), Historic England (2018) and the Advisory Panel on the Archaeology of Burials in England (APABE, 2015, 2017). For crypts and post-medieval burials, the recommendations set out by the CIfA (Cox 2001) and by the Association of Diocesan and Cathedral Archaeologists and APABE (2010) are also relevant.

E.1.4 In accordance with recommendations set out in the Historic England and Church of England (2005) and updated by the Advisory Panel on the Archaeology of Burials in England (2017), skeletons will not be excavated beyond the limits of the trench, unless they are deemed osteologically or archaeologically important.

E.1.5 Where any soft tissue survives and/or materials (for example, inner coffins, mattresses and other paddings) soaked in body liquor, no excavation or handling of the remains will take place until an appropriate risk assessment has been undertaken. Relevant protocols (i.e. Cox 2001) for their excavation, recording and removal will be adhered to.

E.1.6 OA does not excavate or remove modern burials (those less than 100 years old) and does not remove or open sealed lead coffins. Appropriate PPE (e.g. chemical suit, latex gloves) will be worn by all staff when working with lead coffins.

E.1.7 Graves and their contents will be hand excavated in plan. Each component (for example, skeleton, grave cut, coffin (or remains of), grave fill) will be assigned a unique context number from a running sequence. A group number will also be assigned to all of these, and small finds numbers to features such as coffin nails, hobnails and other grave goods (as appropriate).

E.1.8 Soil samples will be normally taken during the excavation of inhumations, usually from the region of the skull, chest, right hand, left hand, abdomen and pelvis, right foot and left foot. Infants (circa. less than 5 years) will normally be recovered as bulk samples. Soil samples will also be taken from graves that appear to contain no human bone.

E.1.9 Burials (including the skeleton, cremation, coffin fittings, coffin, urn, grave goods / other) will be recorded by photographic and written record using specialised pro forma context sheets, although these records may only include schematic representations of the location and position of the skeletons, depending on the nature and circumstances of the burial.

E.1.10 Where necessary, hand drawn plans (usually at 1:10, sometimes 1:5) will be made, especially of contexts where required details cannot be adequately seen using photography (for example, urned cremations; undisturbed hob nails).
E.1.11 Levels will be taken. For inhumations this will be on the skull, pelvis and feet as a minimum.

E.1.12 Human remains that are exhumed will be bagged and labelled according to skeletal region and carefully packed into suitable containers (for example, acid free cardboard boxes) and transported to a suitable storage location. Any associated coffins and coffin fittings will be contained with the human remains wherever possible.

E.1.13 Unurned cremations will not usually be half sectioned, but excavated in spits and/or quadrants (i.e. large deposits or spreads), or recovered as a bulk sample.

E.1.14 Wherever possible, urned cremations will be carefully bandaged, recovered whole and will be excavated in spits in the laboratory, as per the recommendations of McKinley (2004, 2017).

E.1.15 Unless deemed osteologically or archaeologically important disarticulated bone / charnel will be collected and reserved for re-burial if immediate re-internment as close to its original position is not practicable. In some instances, a rapid scan of this material may be undertaken by a qualified osteologist, if deemed relevant.

E.1.16 If undisturbed, pyre sites will normally be excavated in quadrants, at the very least in 0.5 m blocks of 0.5 m spits.

E.1.17 Pyre debris dumps will be half sectioned or quadranted and will be subject to 100% sampling.

E.1.18 Wooden and lead coffins and any associated fittings, including fixing nails will be recorded on a pro forma coffin recording sheet. All surviving coffin fittings will be recorded by reference to Reeve and Adams (1993) and the unpublished master catalogue that is being compiled by OA. Where individual types cannot be paralleled, they will be drawn and/ or photographed and assigned a style number. Biographical details obtained from legible departum plate inscriptions will be recorded and further documentary research will be made.

E.1.19 Funerary structures, such as brick shaft graves and/or vaults will be recorded by photogrammetry or hand-drawn at a scale of 1:10 or 1:20, as appropriate. Location, dimensions and method of construction will be noted, and the structure added to the overall trench plan.

E.1.20 Memorials, including headstones, revealed within the areas of development will be recorded irrespective of whether they are believed to be in situ.

E.1.21 Where required, memorials will be accorded an individual context number and will also be included as part of the grave group, if the association with a burial is clear.

E.1.22 Memorials will be recorded on pro-forma context sheets, based on and following the guidelines set out by Mytum (2002), and will include details of:

- Shape
- Dimensions
- Type of stone used
• Condition, completeness and fragmentation of stones, no longer in original positions
• Iconography (an illustration may best describe these features)
• Inscription (verbatim record of inscription; font of the lettering)
• Stylistic type

E.2 Relevant industry standards and guidelines


E.2.4 Association of Diocesan and Cathedral Archaeologists and APABE. 2010 Archaeology and Burial Vaults. A guidance note for churches. Guidance Note 2

E.2.5 British Association of Biological Anthropology and Osteoarchaeology. 2011 Code of Practice

E.2.6 British Association of Biological Anthropology and Osteoarchaeology. 2011 Code of Ethics

E.2.7 Cox, M, 2001 Crypt archaeology. An approach. CIfA Paper No. 3

E.2.8 English Heritage, 2002 Human Bones from Archaeological Sites. Guidelines for producing assessment documents and analytical reports


E.2.13 Mitchell P, and Brickley, M (eds) Updated Guidelines to the Standards for Recording Human Remains, CIFA 2017


E.2.16 The Human Tissue Act 2004

E.3 Relevant OA manual and other supporting documentation

E.3.1 Loe, L, 2008 The Treatment of Human Remains in the Care of Oxford Archaeology. Oxford Archaeology internal policy document

E.3.2 Excavating and recording of buried human remains. Oxford Archaeology internal guidelines document
APPENDIX F REPORTING

F.1 Standard methodology - summary

F.1.1 For Watching Briefs and Evaluations, the style and format of the report will be determined by OA, but will include as a minimum the following:

- A location plan of trenches and/or other fieldwork in relation to the proposed development.
- Plans and sections of features located at an appropriate scale.
- A section drawing showing depth of deposits including present ground level with Ordnance Datum, vertical and horizontal scale.
- A summary statement of the results.
- A table summarising the features, classes and numbers of artefacts contained within, spot dating of significant finds and an interpretation.
- A reconsideration of the methodology used, and a confidence rating for the results.
- An interpretation of the archaeological findings both within the site and within their wider landscape/townscape setting.

F.1.2 For Excavations, a Post-Excavation Assessment and Project Design will generally be prepared, as prescribed by Historic England Management of Research Projects in the Historic Environment (MoRPHE) 2006, Section 2.3. This will include a Project Description containing:

- A summary description and background of the project.
- A summary of the quantities and assessment of potential for analysis of the information recovered for each category of site, finds, dating and environmental data. Detailed assessment reports will be contained within appendices.
- An explicit statement of the scope of the project design and how the project relates to any other projects or work preceding, concurrent with or following on from it.
- A statement of the research aims of the fieldwork and an illustrated summary of results to date indicating to what extent the aims were fulfilled.
- A list of the project aims as revised in the light of the results of fieldwork and the current post-excavation assessment process.

F.1.3 A section on Resources and Programming will also be produced, containing:

- A list of the personnel involved indicating their qualifications for the tasks undertaken, along with an explanation of how the project team will communicate, both internally and externally.
- A list of the methods which will be used to achieve the revised research aims.
• A list of all the tasks involved in using the stated methods to achieve the
aims and produce a report and research archive in the stated format,
indicating the personnel and time in days involved in each task. Allowance
should be made for general project-related tasks such as monitoring,
management and project meetings, editorial and revision time.

• A cascade or Gantt chart indicating tasks in the sequence and relationships
required to complete the project. Due allowance will be made for leave and
public holidays. Time will also be allowed for the report to be read by a
named academic referee as agreed with the County Archaeological Officer,
and by the County Archaeological Officer.

• A report synopsis indicating publisher and report format, broken down into
chapters, section headings and subheadings, with approximate word
lengths and numbers and titles of illustrations per chapter. The structure of
the report synopsis should explicitly reflect the research aims of the project.

F.1.4 The Project Design will be submitted to the County Archaeological Officer or
equivalent for agreement.

F.1.5 Under certain circumstances (e.g. with very small mitigations), and as agreed with the
County Archaeological Officer or equivalent, a formal Assessment and Project Design
may not be required and either the project will continue straight to full analysis, or a
simple Project Proposal (MoRPHE 2006 Section 2.1) will be produced prior to full
analysis. This proposal may include:

• A summary of the background to the project
• Research aims and objectives
• Methods statement outlining how the aims and objectives will be achieved
• An outline of the stages, products and tasks
• Proposed project team
• Estimated overall timetable and budget if appropriate.

F.1.6 Once the post-excavation Project Design or Project Proposal has been accepted, the
County Archaeological Officer or his appointed deputy will monitor the progress of the
post-excavation project at agreed points. Any significant variation in the project design
will be agreed with the County Archaeological Officer.

F.1.7 The results of the project will be published in an appropriate archaeological journal or
monograph. The appropriate level of publication will be dependent on the significance
of the fieldwork results and will be agreed with the County Archaeological Officer. An
OASIS (Online Access to the Index of Archaeological Investigations) form will be
completed for each project as per Historic England guidelines.

F.2 Relevant industry standards and guidelines

F.2.1 Oxford Archaeology (OA) adheres to the national standards in post-excavation
procedure as outlined in Historic England’s Management of Research Projects in the
Historic Environment (MoRPHE; EH 2006). Furthermore, all post-excavation projects
take into account the appropriate regional research frameworks as well as national research agendas such as the Framework for Historic Environment Activities & Programmes in Historic England (SHAPE; EH 2008).
# APPENDIX G  LIST OF SPECIALISTS REGULARLY USED BY OA

**G.1.1** Below are two tables, one containing 'in-house' OA specialists, and the other containing a list of external specialists who are regularly used by OA.

**Internal archaeological specialists used by OA**

<table>
<thead>
<tr>
<th>Specialist</th>
<th>Specialism</th>
<th>Qualifications</th>
</tr>
</thead>
<tbody>
<tr>
<td>Lisa Brown</td>
<td>Early Prehistoric pottery</td>
<td>BA, PGDip, MLitt, MCIfA</td>
</tr>
<tr>
<td>Paul Booth</td>
<td>Iron Age and Roman pottery</td>
<td>BA, FSA, MCIfA</td>
</tr>
<tr>
<td>John Cotter</td>
<td>Medieval and Post Medieval pottery, Clay Pipe and CBM</td>
<td>BA (Hons), MCIfA</td>
</tr>
<tr>
<td>Cynthia Poole</td>
<td>CBM and Fired Clay</td>
<td>BA (Hons), MSc</td>
</tr>
<tr>
<td>Edward Biddulph</td>
<td>Roman Pottery</td>
<td>BA (Hons), MA, MCIfA</td>
</tr>
<tr>
<td>Ian Scott</td>
<td>Metalwork and Glass</td>
<td>BA (Hons)</td>
</tr>
<tr>
<td>Leigh Allen</td>
<td>Metalwork and worked bone</td>
<td>BA (Hons), PGDip</td>
</tr>
<tr>
<td>Dr Ruth Shaffrey</td>
<td>Worked stone artefacts</td>
<td>BA, PhD, MCIfA</td>
</tr>
<tr>
<td>Julian Munby</td>
<td>Architectural Stone</td>
<td>BA, FSA</td>
</tr>
<tr>
<td>Dr Rebecca Nicholson</td>
<td>Fish and Bird Bone</td>
<td>BA (Hons), MA, D.Phil, MCIfA, FSA Scot</td>
</tr>
<tr>
<td>Dr Mairead Rutherford</td>
<td>Pollen</td>
<td>BSc, MSc</td>
</tr>
<tr>
<td>Lee Broderick</td>
<td>Animal bone</td>
<td>BA (Hons), MA, MSc, FZG, SAC Dip (ecology)</td>
</tr>
<tr>
<td>Julia Meen</td>
<td>Charred and waterlogged plant remains and charcoal</td>
<td>BSc (Hons), MA</td>
</tr>
<tr>
<td>Dr Denise Druce</td>
<td>Charred plant remains, charcoal and pollen</td>
<td>BA (Hons), PhD, MCIfA</td>
</tr>
<tr>
<td>Elizabeth Stafford</td>
<td>Geoarchaeology and land snails</td>
<td>BA (Hons), MSc</td>
</tr>
<tr>
<td>Carl Champness</td>
<td>Geoarchaeology</td>
<td>BA (Hons), MSc, ACIfA</td>
</tr>
<tr>
<td>Dr Ian Smith</td>
<td>Animal Bone</td>
<td>BSc, PhD</td>
</tr>
<tr>
<td>Nicola Scott</td>
<td>Archaeological archive deposition</td>
<td>BA (Hons Dunelm)</td>
</tr>
<tr>
<td>Mike Donnelly</td>
<td>Flint</td>
<td>BSc, MCIfA</td>
</tr>
<tr>
<td>Dr Louise Loe</td>
<td>Human Bone</td>
<td>D.Phil, BA, MCIfA</td>
</tr>
<tr>
<td>Helen Webb</td>
<td>Human Bone</td>
<td>MSc, BSc</td>
</tr>
<tr>
<td>Mark Gibson</td>
<td>Human Bone</td>
<td>MSc, BA</td>
</tr>
<tr>
<td>Dr Lauren McIntyre</td>
<td>Human Bone</td>
<td>D.Phil, MSc, BSc</td>
</tr>
</tbody>
</table>

**External archaeological specialists regularly used by OA**

<table>
<thead>
<tr>
<th>Specialist</th>
<th>Specialism</th>
<th>Qualifications</th>
</tr>
</thead>
<tbody>
<tr>
<td>Lynne Keys</td>
<td>Slag</td>
<td>BA (Hons)</td>
</tr>
<tr>
<td>Quita Mould</td>
<td>Leather</td>
<td>BA, MA</td>
</tr>
<tr>
<td>Specialist</td>
<td>Specialism</td>
<td>Qualifications</td>
</tr>
<tr>
<td>------------</td>
<td>------------</td>
<td>----------------</td>
</tr>
<tr>
<td>Penelope Walton Rogers, The Anglo Saxon Laboratory</td>
<td>Identification of Medieval Textiles</td>
<td>FSA, Dip.Acc</td>
</tr>
<tr>
<td>Dana Goodburn-Brown</td>
<td>Conservation</td>
<td>BSc (Hons), BA, MSc</td>
</tr>
<tr>
<td>Steve Allen, York Archaeological Trust</td>
<td>Conservation</td>
<td>BA, MA, MAAIS</td>
</tr>
<tr>
<td>Dr Richard Macphail</td>
<td>Soils, especially Micromorphology</td>
<td>BA (Hons), MSc, PhD</td>
</tr>
<tr>
<td>Dana Challinor</td>
<td>Charcoal</td>
<td>MA, MSc</td>
</tr>
<tr>
<td>Dr Nigel Cameron</td>
<td>Diatoms</td>
<td>BSc, MSc, PhD</td>
</tr>
<tr>
<td>Dr David Smith</td>
<td>Insects</td>
<td>BA (Hons), MA, PhD</td>
</tr>
<tr>
<td>Professor Adrian Parker</td>
<td>Phytoliths and pollen</td>
<td>BSc (Hons), D.Phil</td>
</tr>
<tr>
<td>Dr David Starley</td>
<td>Metalworking Slag</td>
<td>BSc (Hons), PhD</td>
</tr>
<tr>
<td>Wendy Carruthers</td>
<td>Charred and waterlogged plant remains</td>
<td>BA (Hons)</td>
</tr>
<tr>
<td>Dr Sylvia Peglar</td>
<td>Pollen</td>
<td>PhD</td>
</tr>
<tr>
<td>Dr John Whittaker</td>
<td>Ostracods and Foraminifera</td>
<td>BA (Hons), PhD</td>
</tr>
<tr>
<td>Dr John Crowther</td>
<td>Soil Chemistry</td>
<td>MA, PhD</td>
</tr>
<tr>
<td>Dr Martin Bates</td>
<td>Geoarchaeology</td>
<td>BSc, PhD</td>
</tr>
<tr>
<td>Dr Dan Miles</td>
<td>Dendrochronology</td>
<td>D.Phil, FSA</td>
</tr>
<tr>
<td>Dr Jean-Luc Schwenninger</td>
<td>Optically Stimulated Luminescence Dating</td>
<td>PhD</td>
</tr>
<tr>
<td>Dr David Higgins</td>
<td>Clay Pipe</td>
<td>BA, PhD, MCIfA</td>
</tr>
<tr>
<td>Dr Hugo Anderson-Wymark</td>
<td>Flint</td>
<td>BSc, PhD, FSA Scot, MCIfA</td>
</tr>
<tr>
<td>Dr Damian Goodburn-Brown</td>
<td>Ancient Woodwork</td>
<td>BA, PhD</td>
</tr>
</tbody>
</table>
APPENDIX H DOCUMENTARY ARCHIVING

H.1 Standard methodology – summary

H.1.1 The documentary archive constitutes all the written, drawn, photographic and digital records relating to the set up, fieldwork and post-excavation phases of the project. This documentary archive, together with the artefactual and environmental ecofact archive collectively forms the record of the site. The report is part of the documentary archive, and the archive must provide the evidence that supports the conclusions of the report, but the archive may also include data which exceeds the limitations of research parameters set down for the report and which could be of significant value to future researchers.

H.1.2 At the outset of the project OA Archive department will contact the relevant local receiving museum or archive repository to notify them of the imminent start of a new fieldwork project in their collecting area. Relevant local archiving guidelines will be observed and site codes, which integrate with the receiving repository, will be agreed for labelling of archives and finds.

H.1.3 Where there is currently no receiving museum for the project archive, although responsibility for the archive ultimately lies with the client, OA will hold the archive on their behalf for a period of up to 3 years after completion of the report, after which time (in the event that a suitable depository has not been secured) provision for further storage of the archive will be made in agreement with Oxford Archaeology, the client and the relevant planning archaeologist.

H.1.4 During the course of the project the Archive department will assist the Project Manager in the management of the archive including the cataloguing and development technique suitable for photographic archive requirements.

H.1.5 The hard copy site archive will be security copied by scanning to PdFA and a copy of this will be housed on the OA Archive Server. A full digital copy of the archive, including scanned hard copy and born digital data, will be deposited with and made publicly available on-line through the ADS. A further copy will be maintained on the OA server and if requested a copy on disk will also be sent to the receiving museum with the hard copy. This will act as a safeguard against the accidental loss and the long-term degeneration of paper records and photographs.

H.1.6 Born digital data will only be printed to hard copy for the receiving museum where practical. Archive elements that need maintaining in digital form will be sent to ADS in accordance with Arches Standard and ADS guidelines. A copy will be sent to the receiving museum by CD and back-up copies will be stored on the OA digital network. In most cases a digital copy of the report will be included in the OASIS project library hosted by ADS.

H.1.7 Prior to deposition the Archive department will contact the museum regarding the size and content of the archive and discuss any retention and dispersal policies which may be applicable in line with local and SMA Guidelines ' Selection, Retention & Dispersal of Archaeological Collections' 1993.
The site archive will then be deposited with the relevant receiving museum or repository at the earliest opportunity unless further archaeological work on the site is expected. The documentary archive will include correspondence detailing landowner consent to deposit the artefacts and any copyright licences in accordance with the receiving museum guidelines. Deposition charges will be required from the client as part of the project costs but the level of the fee is set by the receiving body, and may be subject to change during the lifespan of the project. Changes to archiving charges beyond OA’s control will be passed across to the client.

Oxford Archaeology will retain full copyright of any commissioned reports, tender documents or other project documents, under the Copyright, Designs and Patents Act 1988 with all rights reserved; excepting that it will provide the receiving repository or museum for the archive with a full licence for use to the client in all matters directly relating to the project as described in the Written Scheme of Investigation, and in line with the relevant receiving body guidelines.

OA will advise the receiving repository or museum for the archive of 3rd party materials supplied in the course of projects which are not OA’s copyright.

OA undertakes to respect all requirements for confidentiality about the client’s proposals provided that these are clearly stated. It is expected that such conditions shall not unreasonably impede the satisfactory performance of the services required. Archaeological findings and conclusions can be kept confidential for a limited period but will be made publicly available in line with the above procedure either after a specified time period agreed with the client at the outset of the project, or where no such period is agreed, after a reasonable period of time. It is expected that clients respect OA’s general ethical obligations not to suppress significant archaeological data for an unreasonable period.

Relevant industry standards and guidelines

At the end of the project the site archive will be ordered, catalogued, labelled and conserved and stored according to the following national guidelines:


The 2014 CIFA Standard and Guidance for the Creation, Compilation, Transfer and Deposition of Archaeological Archives.


The UKIC’s Guidelines for the preparation of excavation archives for long-term storage.

The MGC’s Standards in the museum care of archaeological collections.

Local museum guidelines such as Museum of London Guidelines: (http://www.museumoflondonarchaeology.org.uk/English/ArchiveResearch/DeposResource) will be adopted where appropriate to the archive collecting area.

The site archive will be prepared to at least the minimum acceptable standard defined in Management of Archaeological Projects 2, Historic England 1991.
H.3  Relevant OA manual and other supporting documentation

H.3.1  The OA Archives Policy.
APPENDIX I  HEALTH AND SAFETY

I.1 Standard Methodology - summary

I.1.1 All work will be undertaken in accordance with the current OA Health and Safety Policy, the OA Site Safety Procedures Manual, a site-specific Risk Assessment and, if required, Safety Plan or Method Statement. Copies of the site-specific documents will be submitted to the client or their representative for approvals prior to mobilisation, and all relevant H and S documentation will be available on site at all times. The Health and Safety documentation will be read in conjunction with the project WSI.

I.1.2 Where a project falls under the Construction (Design and Management) Regulations (2015), all work will be carried out in accordance with the Principal Contractor’s Construction Phase Plan (CPP).

I.2 Relevant industry standards and guidelines

I.2.1 All work will be carried out according to the requirements of all relevant legislation and guidance, including, but not exclusively:

I.2.2 The Health and Safety at Work Act (1974).
I.2.3 Management of Health and Safety at Work Regulations (1999).
I.2.5 The Reporting of Injuries, Diseases and Dangerous Occurrences Regulations (2013).
I.2.7 Relevant OA manual and other supporting documentation
I.2.8 The OA Health and Safety Policy.
I.2.9 The OA Site Safety Procedures Manual.
I.2.10 The OA Risk Assessment templates.
I.2.11 The OA Method Statement template.
I.2.12 The OA Construction Phase Plan template.