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MAP Archaeological Practice

Portal Avenue
Watton
Norfolk

MAP 5.13.18

Post-Excavation Assessment

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Archaeological Excavation

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Date: 09.01.2020	Date: 09.01.2020

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Application Number: 3PL/2014/1378/F

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Post-Excavation Assessment

Non-technical Summary

An Archaeological Excavation was undertaken by MAP Archaeological Practice between March 11th and April 5th 2019 at the development at Portal Avenue, Watton, Norfolk, in advance of development for residential housing. This scheme of work follows on from a Trial Trenching evaluation previously conducted on the development site by Pre-Construct Archaeology Ltd. in 2011.

A Bronze Age Round Barrow, along with Late Iron Age/Early Romano-British features, including field boundaries and pits were identified and recorded, with associated finds of pottery sherds, flint and animal bone.

1. Introduction

- 1.1 This report describes the results of the Archaeological Excavation carried out by MAP Archaeological Practice Ltd between 11th March and 5th April 2019 in advance of residential development of the site.

1.2 Planning permission for the development (application no. 3PL/2014/1378/F) was granted by Breckland Council, subject to the fulfilment of several planning conditions. Condition 8 states:

8. *No development shall take place until:*

A) *an archaeological written scheme of investigation has been submitted to and approved by the local planning authority in writing. The scheme shall include an assessment of significance and research questions; and 1) The programme and methodology of site investigation and recording, 2) The programme for post investigation assessment, 3) Provision to be made for analysis of the site investigation and recording, 4) Provision to be made for publication and dissemination of the analysis and records of the site investigation, 5) Provision to be made for archive deposition of the analysis and records of the site investigation and 6) Nomination of a competent person or persons/organization to undertake the works set out within the written scheme of investigation;*

B) *No development shall take place other than in accordance with the written scheme of investigation approved under Part (A);*

C) *The development shall not be occupied until the site investigation and post investigation assessment has been completed in accordance with the programme set out in the archaeological written scheme of investigation approved under Part (A) and the provision to be made for analysis, publication and dissemination of results and archive deposition has been secured.*

Reason for condition:-

The details are required prior to the commencement of development in order to ensure the potential archaeological interest of the site is investigated in accordance with policy DC 17 of the Adopted Core Strategy and Development Control Policies Development Plan Document 2009.

- 1.3 The Archaeological Excavation is the final phase of work on the site, which has previously included Trial Trenching Evaluation carried out by Pre-Construct Archaeology Ltd in 2011 (PCA, 2011)
- 1.4 The work was carried out in accordance with the recommendations of the National Planning Policy Framework (February 2019) and according to a Written Scheme of Investigation (WSI) that was prepared by Lanpro (Appendix 10).
- 1.5 MAP adhered to the general principles of both the ClfA (2014) '*Code of Conduct*' and '*Standard and Guidance for Archaeological Field Evaluation*' throughout the work, along with Norfolk County Council's (2018) '*Standards for Development Led Archaeological Projects in Norfolk*'.
- 1.6 The work was commissioned by Paul Gajos of LanPro Services Ltd, on behalf of Bennet Homes.
- 1.7 The Ordnance Survey maps within this report are reproduced under licence from the Ordnance Survey, licence no. AL 50453A, with permission from the Controller of Her Majesty's Stationery Office, © Crown Copyright and also data derived from Open Street Map (www.openstreetmap.org/copyright)

2. Topography and Geology

- 2.1 The site is located at the former RAF Officers Mess, Watton, Norfolk, immediately south of Norwich Road. The development covers an area of approximately 10.3 hectares, centred at National Grid Reference TF 9332 0053 (fig.1)

- 2.2 The site is situated on a Lowestoft Formation Diamicton, overlying a Lewes Nodular Chalk bedrock formation (BGS, 2019).
- 2.3 The development lies at a height of 59.24m AOD to the south and 54.13m AOD to the north.
- 2.4 The southern excavation area appears to have been severely truncated at some point in the past, probably during the construction of RAF Watton.

3. Archaeological and Historical Background

- 3.1 Earlier archaeological work conducted on the development area has consisted of a trial trenching evaluation, undertaken by Pre-Construct Archaeology in 2011 (PCA, 2011). This comprised of 18 trenches across the northern and southern areas of site, with two areas of archaeological potential identified, one in the south-west of the development area (trenches 16 and 17), and one in the north-east of the development area (trenches 6 and 7). This evidence, combined with the Historic Environment Record and other previous archaeological investigations near to the development area, create the impression of the site being very much peripheral to human activity in the area throughout prehistory.
- 3.2 Breckland flint scatters retrieved during the trial trenching, dating to the Late Neolithic period, represent the earliest known activity on site. These were considered residual rather than *in situ*, as they were associated with pottery assemblages dating to mainly the Iron Age, and in one instance the Bronze Age.
- 3.3 Bronze Age activity in the immediate vicinity of the development area was uncovered during excavations to the west, at the site of the RAF Radar station.

These revealed a Bronze Age round barrow containing a single urned cremation, along with five satellite cremations and a single inhumation (Mason, 2011). Six socketed Bronze Age axes were also found in 1958 along the line of the B1108 Norwich Road (NHER 8777), which runs along the north end of site, with a seventh axe was discovered in the same area in 1964. Within the development site itself, a single sherd of early Bronze Age beaker pottery was retrieved from a ditch in trench 16 during trial trenching, suggesting the potential for a low level of activity having occurred on site during this period.

- 3.4 The remainder of the pottery assemblage, amounting to ten sherds, retrieved from the trial trenching dated to the earlier Iron Age (800-350BC). The majority of this was retrieved from trenches 16 and 17 in Area 1, while a single sherd was recovered from Area 2 to the north. Significant quantities of Iron Age pottery were retrieved during field walking in the Wayland Wood, located just over 1km south west of the development area (NHER 36300), potentially being the location of a settlement. Some evidence of Middle Iron Age activity was retrieved during investigations at Watton Green (NHER 61665), to the north of the site. This consisted of two north-south aligned ditches, forming a track or driveway, along with other associated gullies.
- 3.5 The B1108 Norwich Road through Watton follows the line of one of the major east-west Roman roads across Norfolk, running from the Civitas capital at Venta Icenorum (Caistor St Edmund) to the edge of the fens at Denver (NHER 8786). Metal detecting north of the road, and about 500m west of the development area, in the late 80's and early 90's uncovered a scatter of 50+ Roman coins, along with 12 Roman brooches. Roman pottery was also recovered. The lack of Roman material from the trial trenching suggests that Roman activity in the area again was focused away from the development site.

- 3.6 The first edition OS Map shows that the area of the development site was divided across four separate fields, with no internal sub-divisions shown. Both excavation areas are completely contained within individual fields.
- 3.7 The site was developed during the 1930s as part of the RAF Watton base. This involved the erection of the Officer's Mess towards the south of the development area, just north of Area 1, as well as access roads, including Elworthy close, which forms the north boundary of Area 1. The ground level covering Area 1 appears to have been significantly lowered during the construction, posing a high risk of truncation of features located here. The later insertion of a tennis court in the south east corner of the area would also have affected the likelihood of features surviving undamaged.

4. Aims and Objectives

- 4.1 In accordance with the Written Scheme of Investigation produced by LanPro, the aims of the Archaeological Excavation were to:
- To establish the spatial extent date, character, condition and significance of the archaeological activity in the proposed investigation areas
 - To recover information relating to the nature and function of past human activity represented by the surviving archaeological remains
 - Excavate and record identified archaeological features and deposits to a level appropriate to their extent and significance
 - Assess the potential for survival of environmental evidence
 - To interpret the nature of human activity at the site and to place the site within its local, regional and national context as appropriate

- Assess the site formation processes and the effects that these may have had on the survival and integrity of the archaeological features and deposits
- Undertake sufficient post-excavation assessment to confidently interpret identified archaeological features
- Undertake sufficient post-excavation assessment and analysis of artefacts and environmental samples to interpret their significance
- Report and publish the results of the excavation and post-excavation analysis and place them within their local and regional context
- Compile and deposit a site archive at a suitable repository and to provide information for the local HER to ensure the long-term survival of the excavated data.

5. Methods

- 5.1 Topsoil and overburden were stripped from the target areas by a mechanical excavator fitted with a 2m wide toothless ditching bucket, supervised by a qualified archaeologist. The stripped area was then cleaned by hoe or trowel as appropriate.
- 5.2 The north east corner of Area 1 remained unexcavated following the identification of several shallow services joining to a nearby sub-station.
- 5.3 Archaeological deposits were planned at a scale of 1:20 or 1:50 as appropriate for plans, and 1:10 for sections. The positions of the excavated segments were located using a Trimble R8S GPS Rover.

- 5.4 A Photographic record was taken using a digital camera with ten million pixels set on high resolution.
- 5.5 A total of 232 separate contexts were recorded (Appendix 1). There were 143 drawings, comprised of 55 plans (at scales of 1:20 or 1:50) and 88 sections (at 1:10 scale) on drawing film (Appendix 2). 216 digital images were taken (Appendix 3). 83 samples were taken for environmental analysis (Appendix 4). The finds assemblage consists of 164 pottery sherds, 17 flint fragments and 40 animal bone fragments (Appendix 5).

6. Results

6.1 Overview

- 6.1.1 The scheme of works comprised of two areas of excavation, Area 1 being located to the far south of the site, and Area 2 towards the north.
- 6.1.2 Area 1 (fig.2) contained the majority of a large ring gully, which headed west out of the edge of excavation, with a central pit. Other features present consist of two linear features, one aligned east-west which extends across the full length of the site, apart from being truncated by modern activity in the centre, and the other aligned north-south, entering from the northern edge, and terminating approximately 15m into the excavated area, and 15 discrete pits.
- 6.1.3 Area 2 (fig.3) revealed two linear ditches forming part of a field system, with one, 240, aligned north to south running across the excavated area, and

another, 241, running east from the first, before turning southwards and terminating. Also present were two ring gullies and a rectangular enclosure gully, as well as 19 discrete pits. The remains of a small linear was also present, aligned east to west. All features, apart from five pits, were located within the enclosure formed by 240 and 241.

6.2 Phase 1: Bronze Age

6.2.1 The Bronze Age period is represented by a single feature in Area 1, being Ring Gully 209 (fig.4).

6.2.2 Ring Gully 209 (pls.5, 6) was a large, circular feature, with an external diameter of approximately 23m. It was located on the eastern edge of Area 1, running beyond the limit of excavation. A single internal feature, pit [236] was identified. Two termini, excavated as segments [216] and [226], formed an entry point in the western side of the feature. Five full segments, two on the southern side, [218] (fig.7 s.3) and [220] (fig.7 s.4), and three on the northern, [230] (fig.7 s.1), [232] and [234] (fig.7 s.2), were excavated prior to the total excavation of the feature. These revealed a shallow, U-shaped gully, averaging a depth of 0.2m, filled by a light greyish brown silty sand, recorded as fills (215), (217), (219), (225), (229), (231) and (235). Finds of flint and pottery were recovered from the south eastern quadrant of the ring gully, with one Late Iron Age body sherd and two flint flakes recovered from terminus segment [216], and another Late Iron Age body sherd and two more flint flakes from segment [218] (Appendices 6 & 7). The flint dates from the Later Neolithic/Early Bronze Age, while the pottery most likely is indicative of the earthwork remaining open for a long period of time.

6.3 Phase 2: Late Iron Age/Early Romano British

6.3.1 Nearly all of the datable features from the Area 1 are from the Late Iron Age/Early Romano British period. These include linear features 238, 239 and 242, and nine pits.

6.3.2 Ditch 239 was the western stretch of a truncated ditch, which ran east-west across Area 1. Three segments [028], [030] and [034] were excavated from this stretch of the ditch. Segments [028] and [030] revealed a roughly U-shaped profile approximately 0.2m deep, filled by a mid-greyish brown silty sand, recorded as (027) and (029). Both fills contained several fragments of 1st Century AD pottery (Appendix 6). Segment [030] (pl.7) was recorded as truncating gully [032], which ran alongside the southern edge of the ditch. Fill (031) of this gully had two small fragments of 3rd Century AD pottery within it (Appendix 6), but these are more than likely intrusive, given the consistent dating from the entire length of the truncating east west ditch. Segment [034] was an investigation into the end of the western length of ditch, revealing it was truncated rather than terminating here.

6.3.3 The eastern stretch of the ditch, 238, was excavated in four segments, [024], [036], [041] and [048]. [036] was the westernmost of the four, investigating the end of this eastern stretch of the ditch. As with segment [034] in the western stretch, this proved that the ditch had been fully truncated, rather than terminating intentionally. Segments [024], [041] and [048] excavated the full width of the ditch, with [041] truncating pit [038] (pl.8). [024] was the westernmost segment, [048] was the easternmost segment taken from the ditch, while [041] was located roughly halfway between [024] and [048]. These revealed a U-shaped profile, deepening as it headed east, from 0.39m in segment [024] to 0.56m in segment [048], but stayed roughly the same width, 1.58m in segment [024] and 1.65m in segment [048]. Segment [024] truncated a

smaller gully, [026], which ran alongside the southern edge of the ditch and is most likely a continuation of gully [032]. This had been fully truncated by segment [041]. Two fills were recorded across the three segments, a mid brownish grey silty sand upper fill, (022), (039) and (046), and a mid-dark greyish brown silty sand lower fill, (023), (040) and (047). Pottery dating from AD1-70 was recovered from fills (022), (023), (040), (046) and (047) (Appendix 6), providing a secure date for this feature, contemporary with the pottery from the western stretch of the feature. A single rim sherd dating to the late 1st Century to 2nd Century was recovered from fill (046) is most likely intrusive, though could be indicative of continued use of earlier pottery forms. A dumped deposit of hazel nutshells was also recovered from the environmental sample taken from fill (023) of ditch [024] (Appendix 9).

6.3.4 Gully 242 was north-south aligned running into Area 1 from the northern limit of excavation, heading southward, before terminating after 15m. It was excavated in two segments, [050] being the terminus, and [204] being a 1.5m long segment across the width of the ditch. The gully was broad and shallow, with a width of 0.75m and a depth of 0.15m in segment [204] (pl.9). A single fill was present in either segment, being a pale yellow grey, soft, silty sand, recorded as (049) and (203). This has been included as part of the Late Iron Age/Early Romano British period despite the lack of dating evidence due to its association and alignment with ditches 238 and 239.

6.3.5 Pit [038] (pl.8) was a large, shallow, oval pit, approximately 1.2m by 1.8m in diameter, and 0.25m deep. It contained a single fill, (037) of mid-dark brown, loose and friable silty sand. While the pit itself contained no dating evidence, it is truncated on its northern edge by ditch segment [041], which contained Late Iron Age/Romano British pottery, dating the pit to no later than this period.

- 6.3.6 Pit [043] (pl.10) was a shallow, oval shaped pit, 1.6m long, 1.24m wide, with a bowl-shaped profile about 0.25m deep. It was filled by (042), a soft, mid yellowish grey brown sand. It truncated the northern half of pit [045], which contained Late Iron Age/Romano British pottery, dating it no earlier than this period.
- 6.3.7 Pit [045] (pl.10) was an oval shaped pit, with a north south orientation. It measured 1.24m in length and 0.72m in width, with a depth of 0.34m. It has a shallow U-shaped profile, which was truncated on its northern edge by pit [043]. It was filled by a dark grey brown silty sand, (044), which contained two sherds of pottery dating to the Late Iron Age/Romano British period (Appendix 6). Maloidae charcoal and a grain of six row hulled barley were recovered from sampling (Appendix 9).
- 6.3.8 A large oval pit measuring 1.3m long and 0.5m wide was excavated in two segments, [054] and [058]. A single fill was present in both segments, being a dark grey brown soft silty sand, (053) and (057) respectively. Two sherds of pottery dating to the Late Iron Age/Early Romano British period were recovered from fill (053) (Appendix 6). Segment [054] was shown to truncate gully [056], while gully [060] was truncated by pit segment [058]. Both gullies continued south from the pit for approximately 1.5m before petering out, most likely due to modern truncation relating to the tennis court. Both were filled with a pale greyish yellow silty sand, recorded as (055) and (059). Segment of [052] was excavated from the southern end of gully [056] and was filled by (051).
- 6.3.9 Pit [062] (pl.11) was a shallow, oval shaped pit, measuring 1m in length, and 0.7m in width, with a u-shaped profile about 0.2m deep. It contained a single fill (061), consisting of a mid-brownish grey, friable, silty sand. Hazelnut shell was retrieved from the environmental sample (Appendix 9), suggesting the deposit is

the remains from food processing. [062] truncated pit [065] and may have been a re-cut of the earlier feature.

- 6.3.10 Sub-circular pit [065] (pl.11) was approximately 0.8m in diameter. It was located in the northeast corner of Area 1. It had a U-shaped profile, 0.25m deep, with a ledge on the southwest side. Two fills were present, an upper fill of dark brownish grey silty sand, (063), and a lower fill of mid greyish brown silty sand (064). Eleven sherds of Late Iron Age pottery were recovered from fill (063) (Appendix 6), which also contained a concentrated deposit of hazel nutshell (Appendix 9). A similar, though smaller quantity of hazel nutshell was also retrieved from the lower fill.
- 6.3.11 Pit [071] was a shallow, oval shaped pit, approximately 1.2m long, and 1m wide, with a depth of 0.3m, containing a single fill, (070), of mid greyish-brown, friable, silty sand. No finds were recovered from this fill, but a significant deposit of hazelnut shells was recovered from the environmental sample (Appendix 9), similar to those retrieved from pits [062] and [065], suggesting a similar Late Iron Age date to these.
- 6.3.12 Pit [075] was circular with a rough U-shaped profile, measuring 1m in diameter and 0.3m deep. It was located in the southwest corner of area 1, south of ring gully 209. A single dark greyish brown silty sand fill, (074), was recorded, from which a single sherd of Late Iron Age pottery was recovered (Appendix 6). It truncated a tree bole to the west.
- 6.3.13 Pit [206] (pl.12) was a shallow, circular pit located in the northwest corner of area 1, north of ring gully 209. It had a depth of 0.15m, and a diameter of 1.1m, which was truncated by a modern service line on its western edge. It contained a very dark grey silty sand fill, (205), which contained a high concentration of oak

charcoal (Appendix 9), as well as pottery sherds dating to the Late Iron Age/Early Romano British period (Appendix 6).

- 6.3.14 Pit [208] was a shallow, oval shaped pit, aligned east to west, located north of ring gully 209. It measured 1.5m in length and 1m in width, with a depth of 0.2m. A single fill of mid-brownish grey firm silty sand, (207), was recorded. The entire pit was truncated through the centre by a modern east-west service line, with (207) survived either side of this truncation. Two sherds of Late Iron Age pottery were retrieved (Appendix 6), as well as a small concentration of oak charcoal (Appendix 9).
- 6.3.15 Pit [214] (pl.13) was rectangular in plan, 1.4m long by 2.5m wide, with a depth of 0.5m. It had quite a square profile, with steep straight sides and a flat base. Two fills were recorded, a mixed grey-brown, silty sand upper fill, (212), with a very dark grey, silty sand lower fill, (213). Fill (212) contained 25 pottery fragments dating to 1-70AD (Appendix 6), while fill (213) contained the largest amount of animal bone retrieved from the site, including cattle teeth, and bone fragments from a large mammal long bone (Appendix 8). The environmental samples taken from both fills also contained significant concentrations of oak charcoal (Appendix 9).
- 6.3.16 Part of a field system was revealed in Area 2, comprised of ditches 240 and 241, which formed a large enclosure. A small rectangular enclosure, 237, was located south of ditch 241, with 241 forming its northern edge. Two ring gullies, 086 and 095, were located west of 237, within the large enclosure. Despite the overall lack of datable material from these features, they all appear to respect each other, and have been interpreted as all being part of the same phase of activity (fig.5).

- 6.3.17 Two ring gullies were identified within Area 2, located in the northwest corner of the enclosure formed by 240 and 241, immediately west of rectangular enclosure 237. Their inclusion in this phase is due to their close association with the enclosure system, despite the lack of datable evidence recovered from these features.
- 6.3.18 Ring gully 086 (pl.14) was located towards the northern edge of the enclosure. It was the western of two ring gullies found in area 2, the other being 095. It was sub-circular in plan, with an external diameter ranging from 6-6.5m. It was excavated in four segments, [088] (fig.7 s.8), [090], [092] (fig.7 s.9) and [094], prior to being fully excavated. It appeared to have a U-shaped profile, varying from 0.3-0.35m in depth, filled by a mid-light brownish grey, loose silty sand, (087), (089), (091) and (093). It had been truncated by several post-medieval land drains, recorded in segment [090]. There were no internal features present.
- 6.3.19 The second ring gully 095 (pl.15) was located just east of 086. It was an incomplete circular shape, with a diameter of 6-6.5m. It had an opening on the eastern edge, formed by two termini excavated as segments [103] and [109]. Three other segments were also excavated prior to full excavation, being [097] (fig.7 s.10), [099] and [101] (fig.7 s.11). As with gully 086, all segments revealed a similar U-shaped profile of an average depth of 0.25m, filled by a mid-greyish brown, loose silty sand. Two modern land drains truncated the ring gully across the south and through the northeast corner, recorded in segment [101]. Two intercutting pits, [105] and [107], were located within the limits of the ring gully, east of the centre, close to segment [099]. Pit [105] was the latest of the two, filled by (104), a mid-brownish grey, silty sand, which contained a single fragment of burnt animal bone (Appendix 8). A small concentration of oak charcoal was retrieved from the sample (Appendix 9). Pit [107] is filled by (106), a light grey, loose silty sand.

6.3.20 Linear feature 240 was a north south aligned ditch which ran for 45m across the full extent of the stripped area. The ditch was excavated in four 1.5m segments, [004], [112] (fig.7 s.5), [118] (pl.16) and [120] from south to north. The profile of the ditch appeared as v-shaped across all four segments, though the dimensions varied significantly across them, with segment [004] measuring 0.7m wide and 0.2m deep, and segment [112] at 1.4m wide and 0.4m deep. This suggests a significant degree of truncation, which probably occurred during the construction of the RAF base. It appeared to form the western boundary of activity in this area, as all other features in the area were located east of the ditch. Segment [114] investigated the relationship with segment [116] of ditch 241 (pl.17). [114] was revealed to be truncating [116], though as they are orientated with respect to each other, it is most likely that these two ditches were contemporary, with 240 being maintained longer than 241.

6.3.21 Ditch 241 ran perpendicular from the north-south ditch, heading east from segment [116] for 50.5m, where it turned to the south at segment [078] (pl.18), terminating in segment [083] after 22.8m. Four full segments were excavated from this feature, [081] (pl.19) on the north-south section, and [122], [125] (pl.20, fig.7 s.6) and [157] (fig.7 s.7) on the east-west section, in addition to those previously mentioned. A further two segments, [127] and [169] were excavated in order to establish the relationship between this ditch and gully 237. These showed 237 being truncated by ditch 241. A relationship slot was also excavated, segment [116], which revealed that this ditch was truncated by a north-south ditch, segment [114]. A main fill of mid-dark greyish brown silty sand was recorded in all segments, with distinct primary fills appearing in segments [078] and [081], being a pale grey silty sand, (077) and (080), and a mid-grey brown firm silty sand primary fill, (124), in segment [125]. Finds from the ditch included a single sherd of AD1-70 dated pottery from terminus segment [083], a single

sherd of Roman pottery from segment [127], and three post medieval pottery sherds from the upper fill (079) of segment [081] (Appendix 6), though these are potentially intrusive, as there was a large area of disturbance just east of this segment.

6.3.22 A small, rectangular enclosure, 237 (pl.21), extended south from 241, with the ditch forming the northern edge of the enclosure. It had internal dimensions of 4.5m north to south and 3m east to west, with no internal features. Five full segments were excavated prior to full excavation, being cuts [131], [137], [139], [145] and [147] (fig.7 s.14). Segments [131] and [139] truncate postholes [133] and [141] respectively (fig.7 s.12, 13), both of which were located on the outside edge of the gully, while segment [171] truncated pit [178] (fig.7 s.15, 16). Across the segments, the gully maintains a similar v-shaped, flat based profile, filled by a dark brownish grey, friable silty sand, (128), (130), (136), (138), (144), (146) and (170). Two extra segments were excavated to establish the relationship between the enclosure gully and the ditch, being [129] and [171]. These revealed that ditch segments [127] and [169] truncated the gully, indicating the boundary ditch was in use longer than this small enclosure. Given the close alignment and orientation of ditch 241 and enclosure 237, it is highly likely that these were for the most part contemporary.

6.4 Undated Features

6.4.1 A small number of undated features were present in Area 1, comprised of linear feature [211], and four pits, [067], [069], [073] and [236]. While it is likely that these features are contemporary with the other features in Area 1 as dating from

the Late Iron Age/Early Romano British period, this could not be fully ascertained.

- 6.4.2 Linear feature, [211], (pl.22) was present, situated east of ring gully 209. This was a short, shallow, rectangular shaped feature, measuring about 1.1m in length and 0.4m wide. It was very shallow, about 0.05m deep. This was a re-excavation of a possible beam slot recorded during the trial trenching (PCA, 2011), however there is no other evidence of a surrounding structure and is likely to be some root disturbance or natural feature.
- 6.4.3 Pit [067] (pl.23) was a shallow sub-circular pit, approximately 1.4m in diameter and 0.2m deep, with a single mottled pale yellow and greyish brown silty sand fill, (066).
- 6.4.4 Pit [069] was a shallow, sub-circular pit, measuring approximately 1m in diameter and 0.15m in depth. It contained a single fill, (068), being a mid-greyish brown friable silty sand.
- 6.4.5 Pit [073] was a shallow, sub-circular shaped pit, between 0.8m and 0.9m in diameter, with a depth of 0.12m. It contained a mid-greyish brown friable silty sand fill, (072). A fragment of clay pipe, most likely intrusive, and a single fragment of birch charcoal were recovered (Appendix 9).
- 6.4.6 Pit [236] (pl.24) was located approximately in the centre of the area enclosed by ring gully 209. It had a circular shape, approximately 1.4m in diameter, with a U-shaped profile 0.23m deep. A single fill, (235), of dark grey sandy silt was removed, which contained nine flint fragments (Appendix 7) and a single sherd of Late Iron Age pottery (Appendix 6). Another sherd of Late Iron Age pottery was also identified from the pit during the initial trial trenching on the site (PCA, 2011). The environmental sample contained varied charcoal types, emmer wheat

grains and a hazel nutshell fragment (Appendix 9), suggesting the material was derived from the cooking process, though there was little evidence for *in situ* burning to establish the actual function of the pit.

6.4.7 The majority of features in Area 2 remain undated due to the scarcity of material culture retrieved (fig.6). These included a shallow gully, 243, and 19 discrete pit features. As with the undated features from Area 1, these were potentially contemporary to the dated features, from the Late Iron Age/Early Romano British periods.

6.4.8 The remnants of a small linear gully, 243, were located immediately south of ring gully 095, aligned east to west. The gully appears to have been heavily truncated. It was excavated in two segments, the western terminus, [163], and a 1m segment [165] (pl.25, fig.7 s.17). A single fill was present in these segments, (162) and (164) respectively, being a light brownish grey loose silty sand. The gully thinned out about 2m east of segment [165]. Terminus [163] had been truncated by a land drain.

6.4.9 Shallow pit [008] (pl.26) was a small, oval shape measuring approximately 0.4m wide by 0.75m long, with a depth of around 0.15m, orientated north to south. It had a single fill, (007), of pale brownish grey, soft silty sand. It was located within the enclosure, towards the southern edge of the excavated area, immediately south of pit [010]. Substantial amounts of oak charcoal were retrieved from the environmental sample, suggesting potential *in situ* burning (see Appendix 9).

6.4.10 Pit [010], (pl.26) found immediately north of pit [008], was oval shaped in plan, measuring approximately 0.9m by 0.5m, with a maximum depth of 0.2m, orientated north south. Its fill, (009), consisted of a mid-greyish brown, soft silty sand. As with pit [008], significant quantities of oak charcoal were retrieved from the environmental sample (Appendix 9), suggesting its use as a fire pit.

- 6.4.11 An elongated pit, located to the east of pits [008] and [010], was excavated in three separate segments, being [012], [015] and [151], with [012] and [151] being the southern and northern ends of the pit respectively. It measured about 3.5m in length, and 0.7m at its widest point. It was 0.25m at its deepest point within slot [015] (fig.7 s.20). A single fill of mid-brownish grey, friable, silty sand was present in all three sections, recorded as (011), (013) and (150).
- 6.4.12 Pit [017] (pl.27) was sub-circular with a diameter of around 1.45m. It was located towards the southeast of area 2, west of pits [019] and [021]. The northern half of the pit was excavated, revealing a shallow, dish shaped profile, less than 0.2m deep. It contained a mid-dark brownish grey, friable, silty sand fill, (016). No finds were retrieved, but significant amounts of oak charcoal were retrieved from sampling (Appendix 9).
- 6.4.13 Pit [019] (pl.28) was shallow and sub-circular, around 0.7m in diameter and 0.16m deep. A single fill, (018), was present, being a mid-greyish brown, soft, silty sand. It was located towards the south east of area 2, east of pits [17] and [021]. A small amount of oak charcoal was recovered from the pit, suggesting some *in situ* burning (Appendix 9), but to a lesser extent than pit [017].
- 6.4.14 A shallow, circular pit, [149], around 0.85m in diameter and 0.18m deep was located towards the centre of the southern enclosure. It contained a single fill, (148), which was a compact, mid-grey sandy silt. A small amount of oak charcoal was recovered through sampling (Appendix 9).
- 6.4.15 Pit [153] (fig.7 s.18) was circular in shape, measuring around 1.35m in diameter, with a U-shaped profile approximately 0.4m deep. Small amounts of oak charcoal were retrieved from fill (152) (Appendix 9), which was a mid-dark grey compact sandy silt. The pit was located east of ring gully 095.

- 6.4.16 Circular pit [155] was located in the south east corner of Area 2. It had a U-shaped profile 0.07m deep, and a diameter of 0.7m. It contained a mid-grey, compact, sandy silt fill, (154). A small amount of oak charcoal was retrieved from the environmental sample (Appendix 9).
- 6.4.17 Circular pit [159] (pl.29, fig.7 s.19) was located east of 237, had a diameter of 0.7m. It had a U-shaped profile, 0.22m deep, and contained a mid-light grey, compact sandy silt fill, (158), with a small amount of charcoal (Appendix 9).
- 6.4.18 A small, circular pit, [161] (pl.30) was the only feature to be located west of ditch 240. It had a shallow U-shaped profile. 0.06m deep and measured 0.6m in diameter. A single fill, (160), of light grey compact sandy silt was present (160).
- 6.4.19 Oval shaped pit [167] (pl.31) was 0.89m in length, and 0.65m in width, on a north south alignment, with a shallow irregular profile around 0.15m deep. It had a single fill, (166), consisting of a mid-brownish grey, friable, silty sand. It was located immediately south of the rectangular gully 237.
- 6.4.20 Oblong pit [180] was located just north of ring gully 086. It had a U-shaped profile, approximately 0.2m deep, and measured 1.5m in length and 0.8m in width. It was filled by (179), a mid-dark grey compact sandy silt.
- 6.4.21 There was a second elongated pit, located to the northeast of site, north of the east-west aligned enclosure ditch. It was excavated in three segments, [183], [187], [190], with [183] and [190] excavating the northern and southern ends of the pit, respectively. It has a total length of 3.2m, with a maximum width of 1.2m. Central segment [187] revealed a U-shaped profile, with a maximum depth of 0.35m. Three fills were recorded across the segments. An upper fill of mid-dark grey, silty sand was recorded in in segment [187] as (184), however this did not extend into the two end segments. A secondary fill of very dark grey, firm sandy silt extended across the majority of the feature, recorded as (181), (185) and

(188). This overlaid a primary fill of mottled pale yellow grey sand (182), (186) and (189), which seems to be an early erosion deposit against the base and sides of the feature.

6.4.22 Isolated pit [193] was located in the northeast corner of area 2. It was oval shaped, measuring 1.2m by 0.8m, with a U-shaped profile, 0.4m deep. It contained two fills, secondary fill (191) and primary fill (192). The secondary fill was a very dark grey, firm, silty sand, while the primary fill was a mid-grey silty sand.

6.4.23 A second isolated pit, [196], was located in the northeast corner of area 2, east of pit [193]. It was oval shaped in plane, 1.25m in length and 0.9m in width. Its profile was a broad shallow U-shape, with a slightly concave base. It contained two fills, a secondary fill of very dark grey, firm silty sand, (194), and a mid-grey, firm, silty sand primary fill (195). (195) contained a small concentration of oak charcoal, suggesting a small *in situ* burning event (Appendix 9).

6.4.24 There were two intercutting pits, [198] and [200], located just north of rectangular gully 237. [198] was the later of the two, truncating the southern end of pit [200]. It was circular in shape, 0.7m in diameter, with a U-shaped profile 0.2m deep, with a singular fill (197) of mottled grey and brown, firm silty sand. Pit [200] was oval shaped, orientated north to south, measuring 1.1m in length and 0.8m in width, with a shallow profile, about 0.2m deep. It had a single fill, (199), consisting of a dark grey, firm sandy silt.

6.4.25 Pit [202] (pl.32) was very shallow and sub-circular shaped, located south east of the rectangular gully 237. It measured approximately 1.1m in diameter, and 0.1m deep. It had a single, mottled reddish brown with grey, firm sandy silt fill, (201). The mixed nature of the fill could be indicative of a tree throw.

6.3.26 Feature [006] was either the terminus of a gully or of an elongated pit similar to [183, 187, 190] and [012, 015, 151]. It extended roughly 1m into the stripped area from the southern limit, and contained a single fill, (005), of mid brownish grey, friable silty sand.

6.5 Modern Features

6.5.1 There were a series of 39 modern pits, square in shape, measuring 1mx1m, aligned east-west across Area 1. Investigation into one of these revealed it to be modern, most likely part of the landscaping for the RAF base. The remainder were not excavated.

6.5.2 There were several drainage gullies dug crossing across Area 2, truncating several features. These were modern, dating to the early-mid 20th Century and associated with the development of the RAF base. Several 20th century tiles were found within the drain cuts, but these were not retained.

7. Discussion

7.1 The site appears to be represented by two phases of activity, with an earlier phase dating from the Early Bronze Age (EBA) and a later phase from the Late Iron Age/Early Romano British (LIA/ERB) period. The EBA is represented solely in Area 1, while the LIA/ERB activity was represented across both Areas 1 in the south and 2 to the north. The finds distribution from this period is heavily bias towards Area 1, with only two sherds of pottery retrieved in Area 2 (Appendix 5).

- 7.2 The dominant feature of Area 1 is the large ring gully 209, which has been interpreted to date to the Early Bronze Age. This could be the remains of a barrow ditch, which would have been heavily truncated during the landscaping associated with the military base, leaving only a shallow gully. It is currently unclear if the break in the southeastern edge of this feature is the result of this truncation or represents a genuine break in the ditch to form a causeway. Funerary monuments from this period have previously been identified in the immediate area, with earlier excavations to the west of the site uncovered a Bronze Age round barrow with associated cremations (Mason, 2011). While this barrow was significantly smaller, with an internal diameter of 6.5m, there are several examples across Norfolk of barrows with similar diameters to feature 209, including both barrows at Flag Heath, (NHER 7373 and NHER 7374), approximately 5 miles southwest of Watton.
- 7.3 Pit [236], which was approximately in the centre of the barrow, complicates the picture slightly. One sherd of Late Iron Age pottery was recovered from it during this phase of work (Appendix 6), with another recovered during the trial trenching (PCA, 2011). Nine flint flakes were also recovered from within, interpreted as an *in-situ* or near *in-situ* knapping event (Appendix 7). While the pottery could be a later intrusion, it may be possible that the pit is in fact of a Late Iron Age date, and the flint was a surface scatter disturbed during the digging of the pit. In this latter instance, it seems likely that any mound on the barrow would have been quite shallow by the Late Iron Age period. Further dating of the pit would clearly add to the current understanding of the relationship between the pit and the barrow.
- 7.4 Part of an enclosure system dated to the LIA/ERB period was also identified within Area 1. This was formed by three linear features, 238, 239 and 241. 238 and 239 represent two parts of a single east-west aligned ditch, which has been

truncated in the centre of the site by modern activity, with 241 approaching it from the north. The close proximity of ditch 239 to the barrow initially suggests that the later feature is respecting the barrow, however given the heavy truncation of the area, it is possible that the LIA ditch once truncated the barrow ditch.

- 7.5 Hazel nut processing on site is evidenced through nutshells being found in five features across Area 1, including central pit [236]. Three of these features, pits [065] and [236], and ditch cut [024], contain pottery from the Late Iron Age/Early Romano British period (Appendix 6), and it is likely that the remaining two pits, [062] and [071,] are broadly contemporary with the other features. The remaining undated pits within Area 1 are also most likely contemporary to this period, given the distinct lack of material culture from other periods.
- 7.6 Area 2 appears to have an agricultural focus, with ditches 240 and 241 forming an enclosure in the southern half of the area. All features in Area 2 were located east of 240, except for pit [161], and the majority of these were located south of 241, within the enclosure. These include two ring gullies, 086 and 095, located in the north west corner of the enclosure. These are possibly hayricks, or fodder stations for livestock.
- 7.7 The small rectangular enclosure, 237, is similar in nature to features found across parts of Cambridgeshire (Abrehart, 2017) and Lincolnshire (Bush 2014), situated away from settlement activity, and closely associated with Late Iron Age/Early Romano British field systems. This has given rise to their interpretation as either hayricks or seasonal, summer shelters for shepherds or cowherds. Both interpretations are consistent with the agricultural activity identified within Area 2.

- 7.8 All of the pits excavated within Area 2 remain undated. However, given that the majority of them are within the enclosure, it is highly likely that they also date to the Late Iron Age/Early Romano British period, though this cannot be firmly established.
- 7.9 The few fragments of later pottery recovered from the features makes conclusive dating of these features problematic at this stage. Initial interpretation has put them within the LIA/RB period, due to the similarity to the features discussed above (7.6), but the possibility of them being medieval or post-medieval features cannot be dismissed at this point, and further analysis is needed.
- 7.10 The pottery assemblage predominantly dates to the 1st Century AD, with the suggestion of a mid-late 1st Century cut off point for the deposition (Appendix 6). This would be roughly in line with the Romanisation of Britain, and the Boudican Revolt of AD. 60, with the implication of a rapid change in focus for the area during this period. While the presence of pottery dating from the late 1st-2nd Century and 3rd Century is evidence of a continued presence in the area in the Roman period, the scarcity of finds supports the theory that this focus was away from site.

8. Data Assessment

- 8.1 Presented below is an assessment of the potential of the various data sets retrieved from the site, which have been incorporated into an Updated Project Design (Appendix 11).

8.2 Stratigraphic Record

8.2.1 The main archaeological potential of the stratigraphic information recovered from the excavation relates to the development of field system within Area 2. Linear features 237, 240 and 241 respect each other spatially, suggesting some degree of being contemporary, but stratigraphically present a sequence of features falling into disuse at different times, implying broader changes in land use on site. However, given the lack of artefactual or environmental evidence from these features, the potential for this data is quite low, as a secure, datable chronology for these changes is unattainable.

8.3 Artefactual Record

8.3.1 Pottery

8.3.1.1 A total of 164 sherds were recovered during excavation, detailed in Appendix 6. The pottery analysis already conducted has provided a reasonably tight chronology for the site. Further analysis has the potential to provide more information on supply of the pottery to the site and about the status of the site, therefore giving some indication to the site's connection with its wider regional setting (P. Mills, Appendix 6), however given the small size of this assemblage, the contribution this assemblage can make to the regional picture is quite limited.

8.3.1.2 There is an interesting point of contention between the dating of material retrieved during this phase of work when compared to the material retrieved during trial trenching phase. The Iron Age material recovered from the trial trenching was dated to the earlier Iron Age, broadly 800-350BC, while material retrieved during the excavation stage has been dated to the Late Iron Age, with a strong representation of material from the 1st Century AD. While this could be attributed to differential distribution across the site, the lack of any crossover

material between the two periods is worth further consideration, especially when the same features are represented in both assemblages.

8.3.1.3 The inclusion of Post Medieval pottery in the uppermost fills of features currently interpreted as dating to the LIA/ERB period also merits further analysis to fully establish whether these sherds are intrusive into much earlier features, or if these features actually represent a later phase of activity on the site.

8.3.1.4 The pottery assemblage predominantly dates to the 1st Century AD, with the suggestion of a mid-late 1st Century cut off point for the deposition (Appendix 6). This would be roughly in line with the Romanisation of Britain, and the Boudican Revolt of AD. 60, with the implication of a rapid change in focus for the region during this period. The scarcity of later Roman finds suggests that this was focus was not in the vicinity of the site.

8.3.1.5 The inclusion of some Middle Iron Age traditions within the assemblage is notable given the poor representation of this period in Norfolk (Medlycott, 2011). While these have initially been considered to represent a continuation of use of these fabrics in the Late Iron Age, further assessment might reveal a distinct earlier phase of Iron Age activity on the site.

8.3.2 Flint

8.3.2.1 The flint assemblage consists of seventeen pieces of struck flint, retrieved from five separate fills across three features, detailed in Appendix 7. Following the analysis already conducted, the assemblage has no further potential (P. Makey, Appendix 7).

8.3.3 Animal Bone

8.3.3.1 Forty fragments of Animal Bone were recovered from six separate fills, detailed in Appendix 8. This assemblage has no further potential beyond the initial analysis already conducted (J. Richardson, Appendix 8).

8.4 Environmental Record

8.4.1 Carbonised Plant Material

8.4.1.1 A total of 51 environmental sample flots (Alldritt, Appendix 9) were retrieved from a total of 83 bulk samples taken, listed in Appendix 4). From these, nine contained material identified as suitable for radiocarbon dating, with eight coming from Area 1. Several of these have good potential to add significant detail to the current understanding of the site. The single potential sample from Area 2 was recovered from a ditch segment and has been suggested as most likely being a chance inclusion (Appendix 9). Subsequently, the potential for securely dating the features in Area 2 through radiocarbon dating is severely limited.

8.4.1.2 At this point, it has been assumed that undated pit features are contemporary with those dated to the Late Iron Age/Early Romano-British period, as this is the only identifiable phase of activity on site. In particular, this includes some of the hazel nutshell caches retrieved from pits in Area 1. While hazelnut processing is normally associated with earlier prehistoric activity, at this site there appears to be some stratigraphic association present between Late Iron Age pottery and hazel nutshell caches, such as in pit [065]. Radiocarbon dating this material could show one of two things:

1. The Late Iron Age pottery is intrusive in these contexts, and the hazel nutshell processing is evidence of an earlier period of activity on the site.

2. The pottery and nutshells are contemporary, which would show a continued reliance on, or at the least a preference for, hazelnut during the Late Iron Age in this region.

9. Conclusion

- 9.1 The earliest feature on the site consisted of the shallow remains of a Bronze Age barrow ditch, located on the western edge of Area 1. There is no surviving evidence for a mound, or any associated burials, which is most likely due to the heavy truncation of Area 1 during the construction of the RAF Watton base.
- 9.2 The LIA/ERB features appear at this point to be similar in nature to others found in the area, being somewhat peripheral to a settlement focus. However, the evidence for food preparation from the pits located in Area 1 could be suggestive of being near to a settlement. The dominance of Late Iron Age pottery in the assemblage is fairly typical within Norfolk, with the Middle Iron Age being significantly under-represented in the region, as noted in the regional research framework (Medlycott, 2011), however the presence of some pottery from this period suggests some degree of continuation from the Middle Iron Age into the Late Iron Age.
- 9.3 The data sets recovered from the excavation have limited potential for further analysis. Radiocarbon dating of the hazel nutshells will provide a firmer chronology for the site, particularly with regards to Area 1, while a comparison between the pottery assemblage retrieved during this phase of work and the previous trial trenching phase may help to resolve some of the discrepancies in feature dating between the two assemblages.

10. Project Staffing Details

Fieldwork: Claire Medina, Martyn Thomas, Owain Wells, Bekki Wittaker, Alice Woods

Report Text: Martyn Thomas

Surveying: Max Stubbings

Figures: Max Stubbings

Finds and Environmental Sample Processing: Max Greeves

Editing: Paula Ware

Report Production and Administration: Sophie Coy

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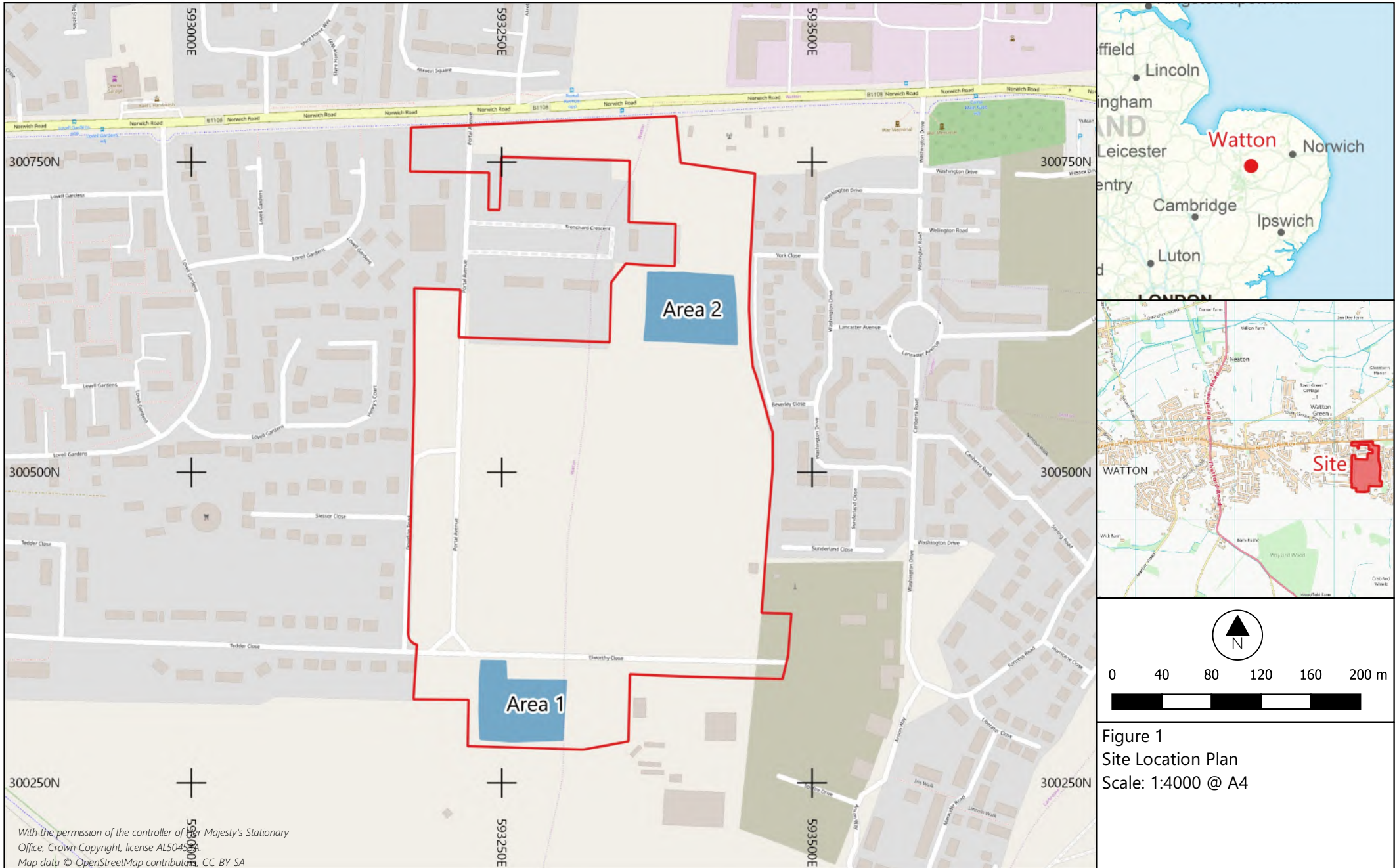
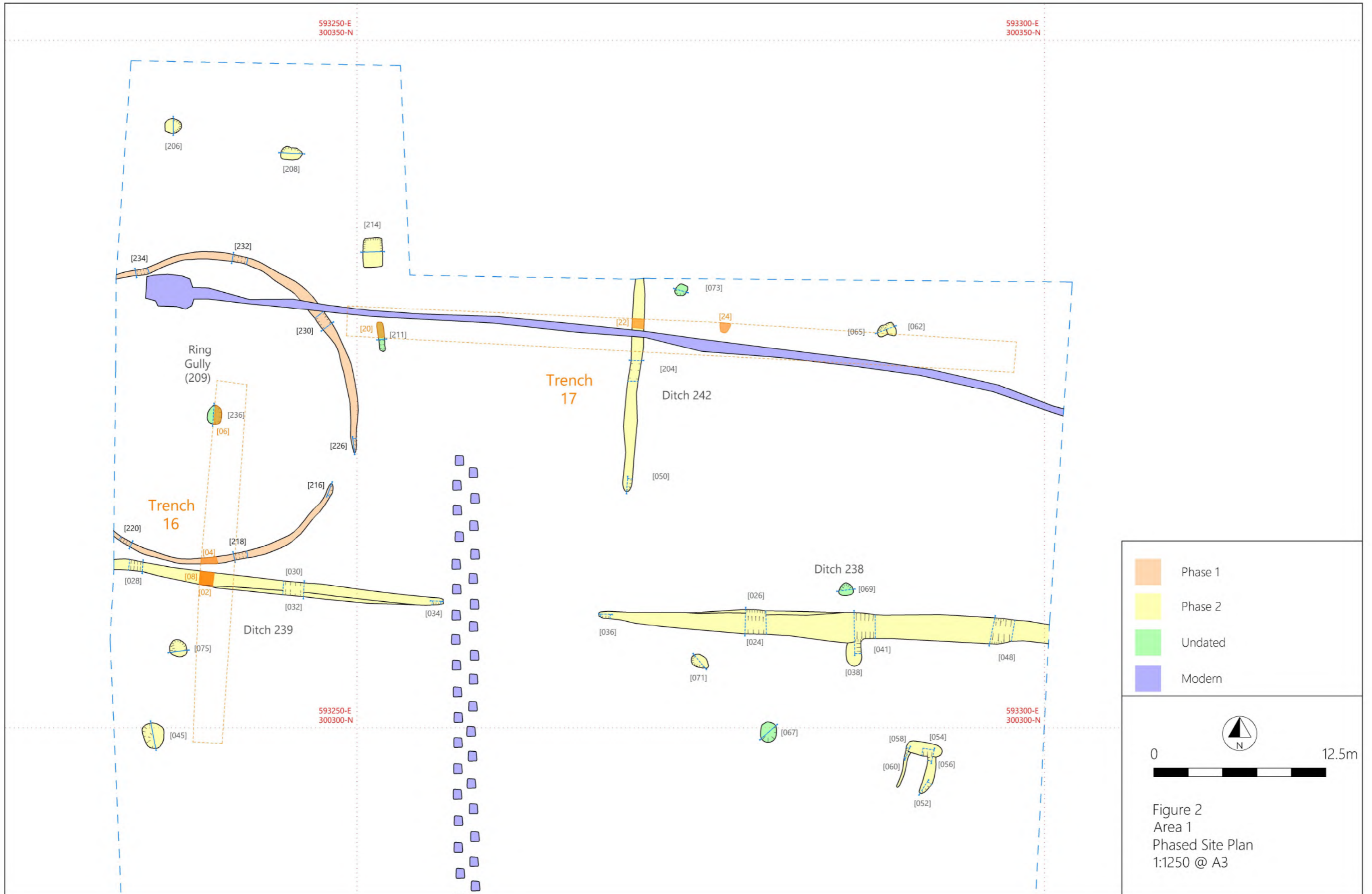
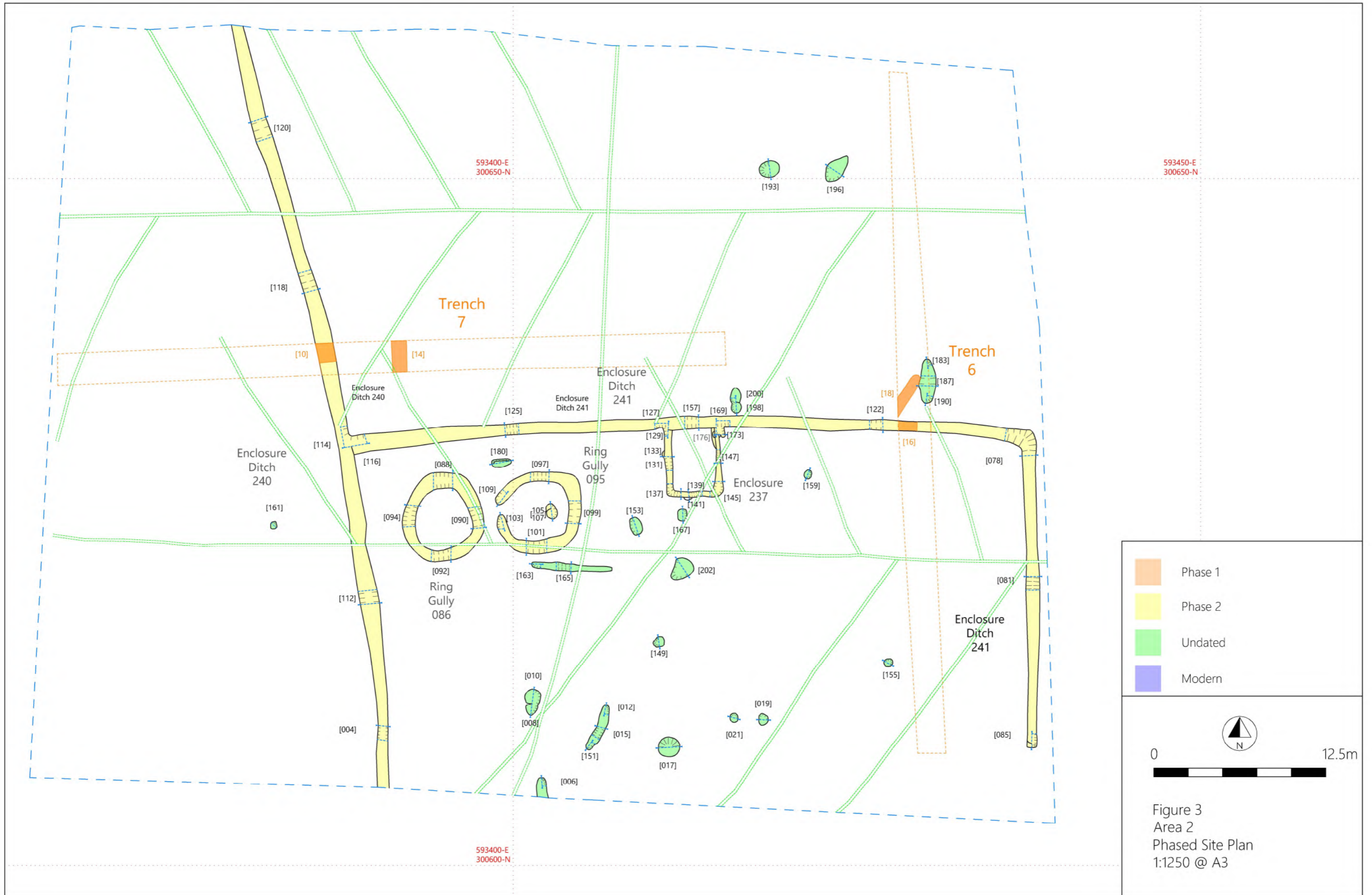


Figure 1
Site Location Plan
Scale: 1:4000 @ A4

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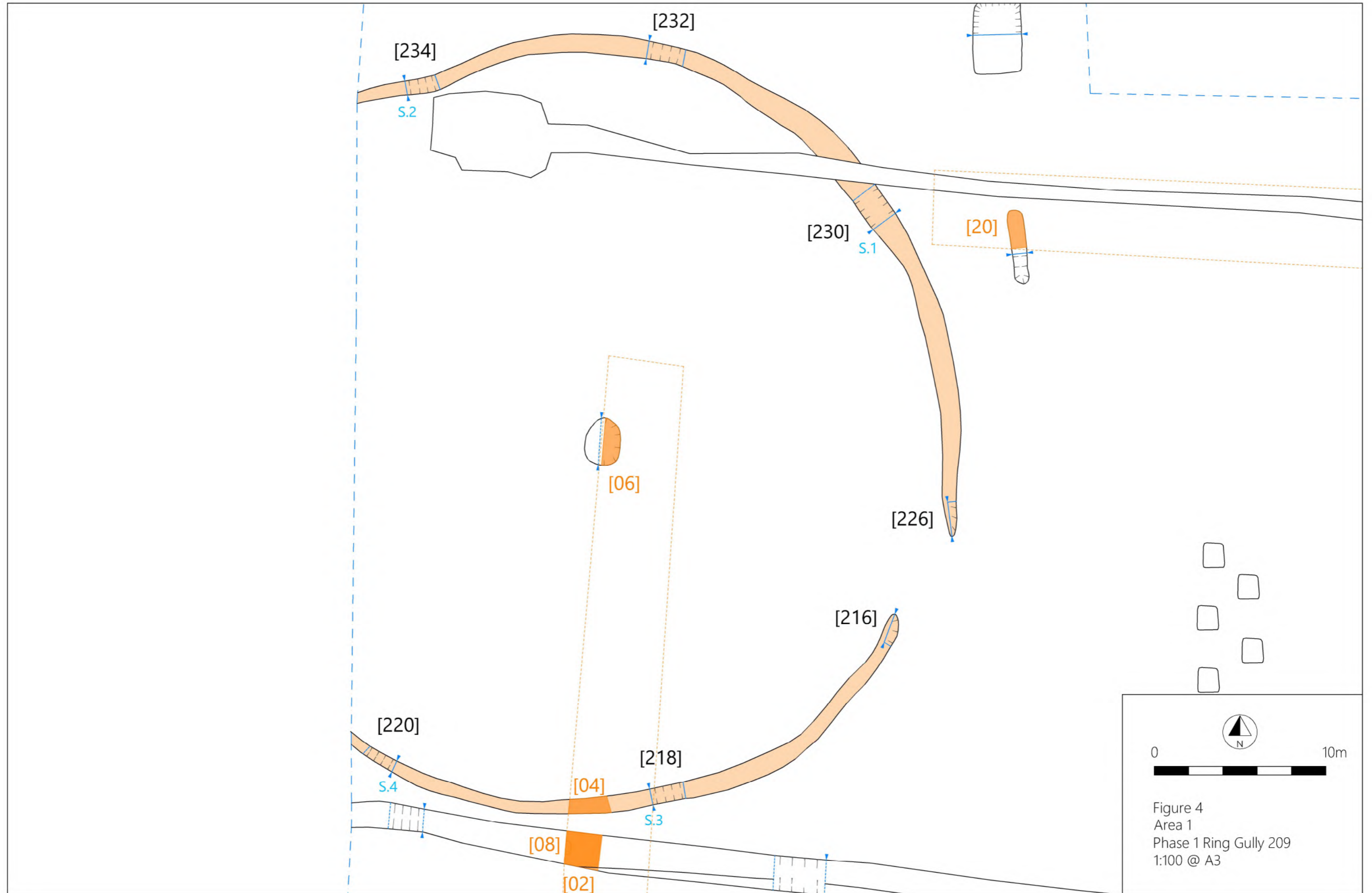


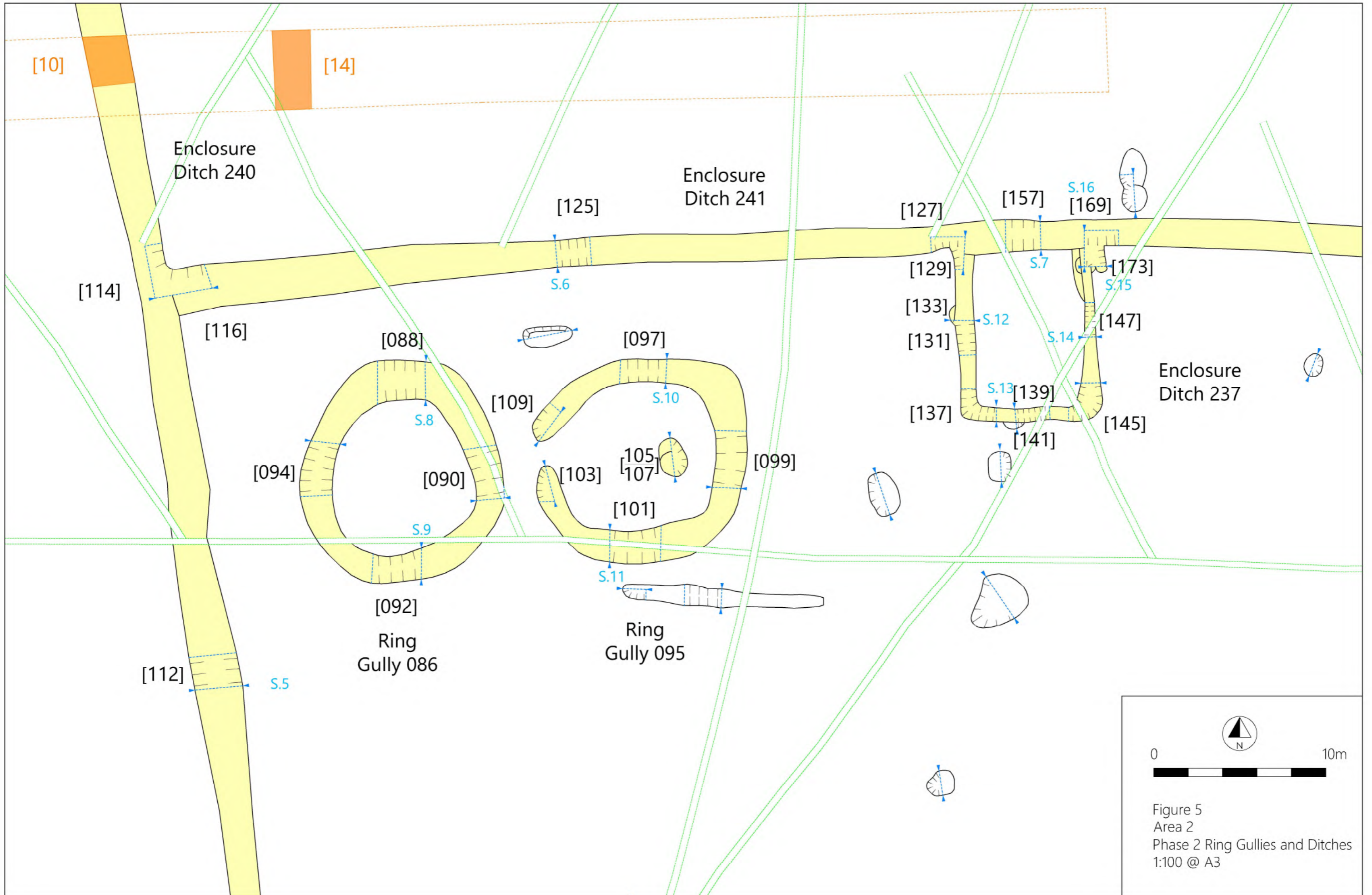


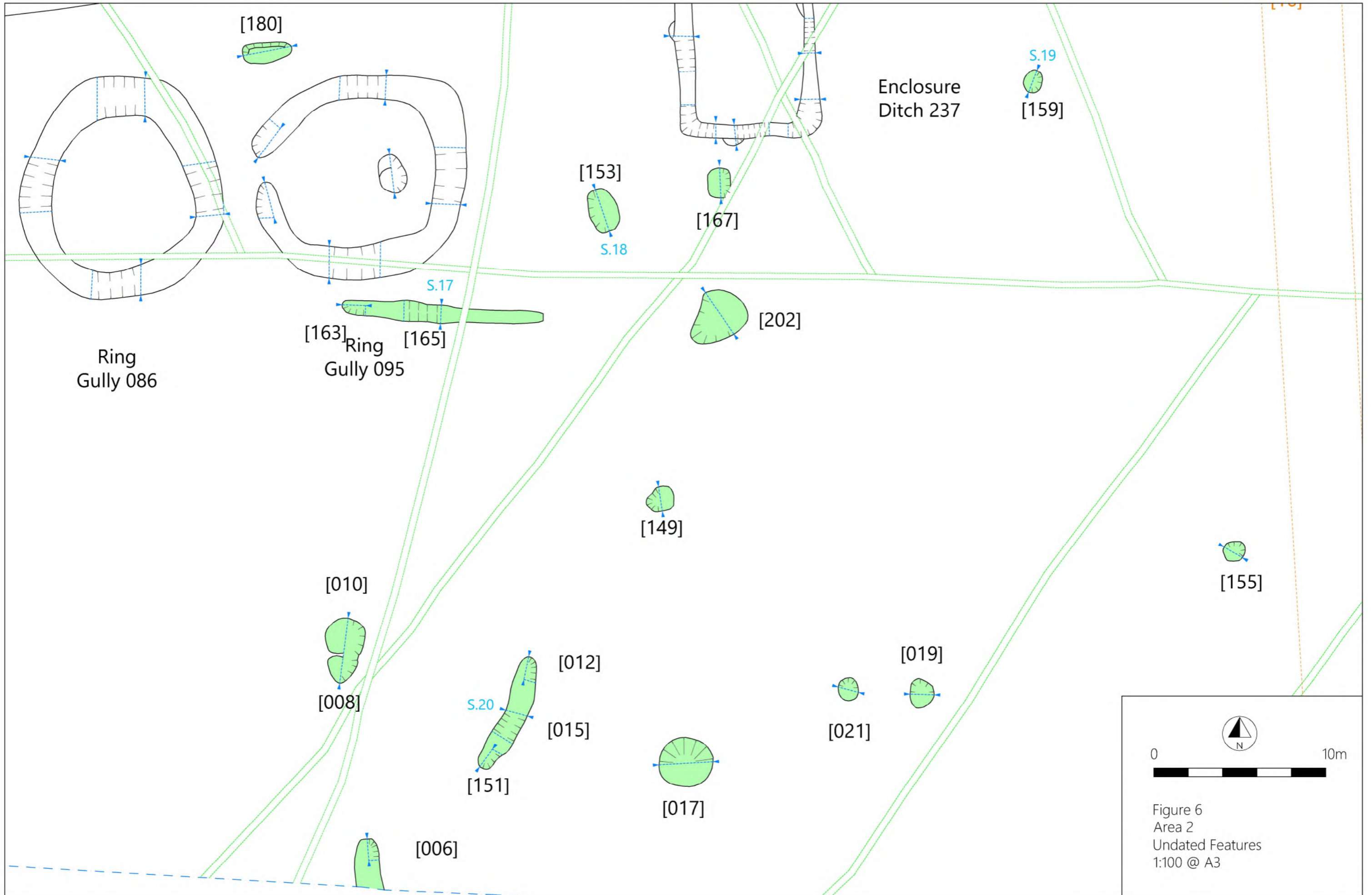
	Phase 1
	Phase 2
	Undated
	Modern

0 12.5m

Figure 3
Area 2
Phased Site Plan
1:1250 @ A3







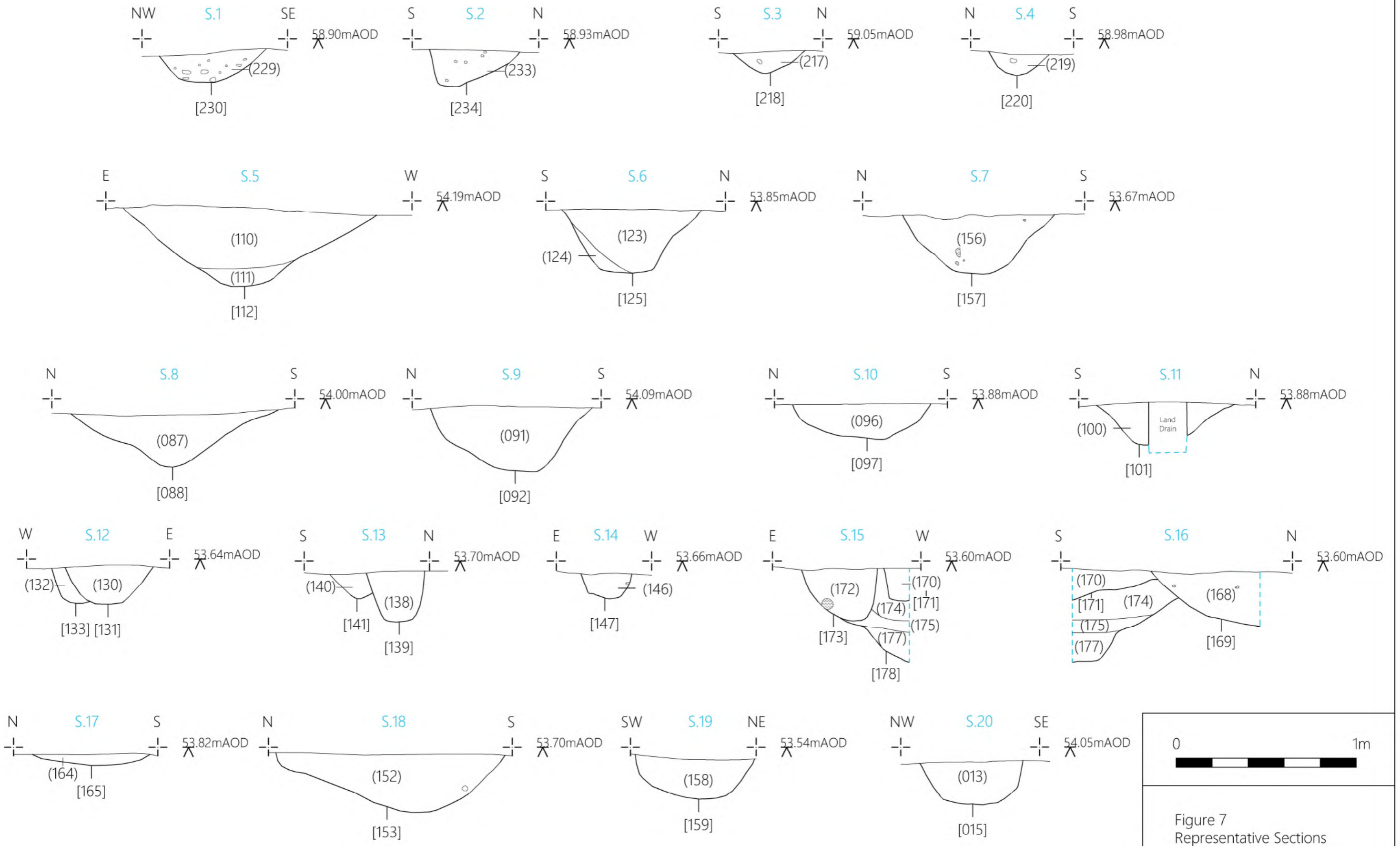


Figure 7
Representative Sections
Sections 1:20 @ A3



Plate 1: View of Area 1, Facing South East



Plate 2: View of Area 1, Facing South West



Plate 3: View of Area 2, Facing South East



Plate 4: View of Area 2, Facing South West



Plate 5: Ring Gully g.209 Full Excavation, Facing North West



Plate 6: Ring Gully g.209 Full Excavation, Facing South



Plate 7: West Facing Section of Gullies [030] and [032], 1m Scale



Plate 8: West Facing Section of Pit [038] and Ditch [041], 2m Scale



Plate 9: South Facing Section of Gully [204], 0.5m Scale



Plate 10: West Facing Section of Pits [043] and [045], 2m Scale



Plate 11: North West Facing Section of Pits [062] and [065], 1m Scale



Plate 12: East Facing Section of Pit [206], 1m Scale



Plate 13: North Facing Section of Pit [208], 1m Scale



Plate 14: Ring Gully 086 Full Excavation, Facing South 2x1m Scales



Plate 15: Ring Gully 095 Full Excavation, Facing South, 2x1m Scales

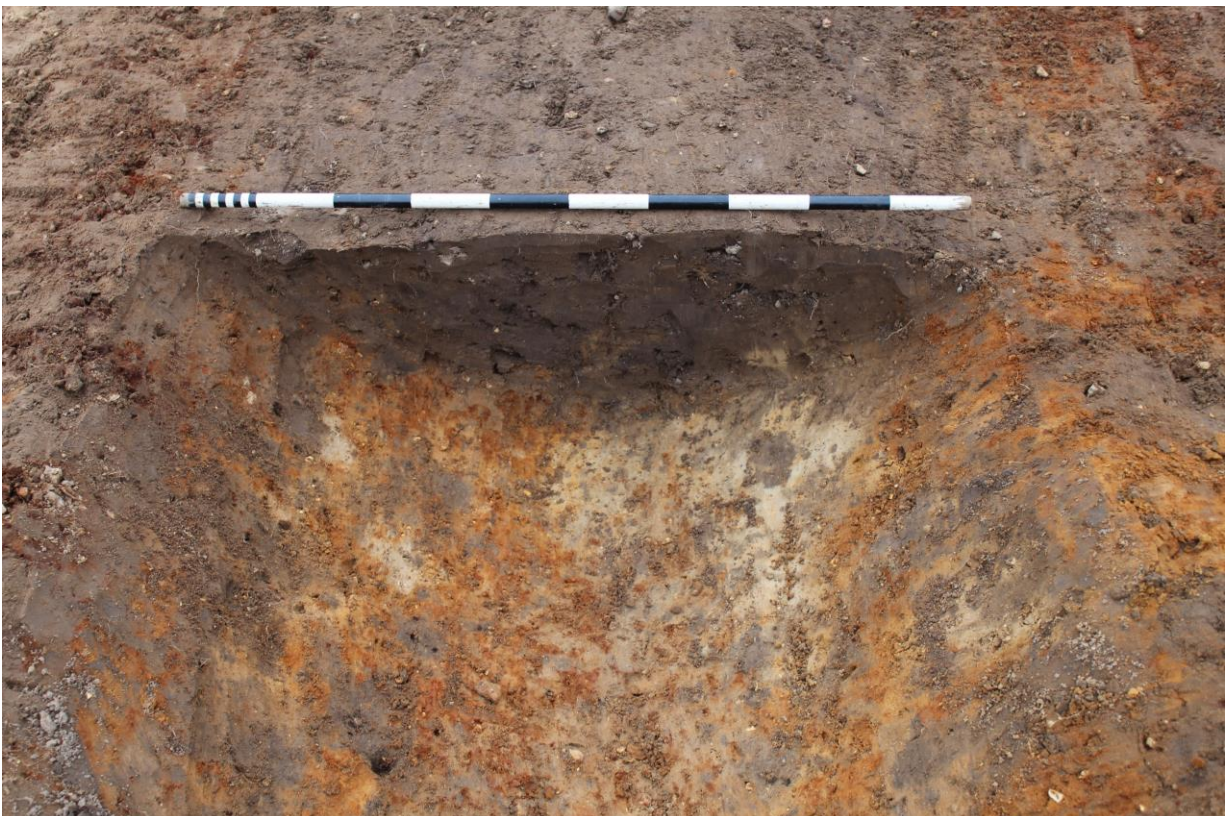


Plate 16: North Facing Section of Ditch [118], 1m Scale



Plate 17: North Facing Section of Ditches [114] and [116], 1m Scale

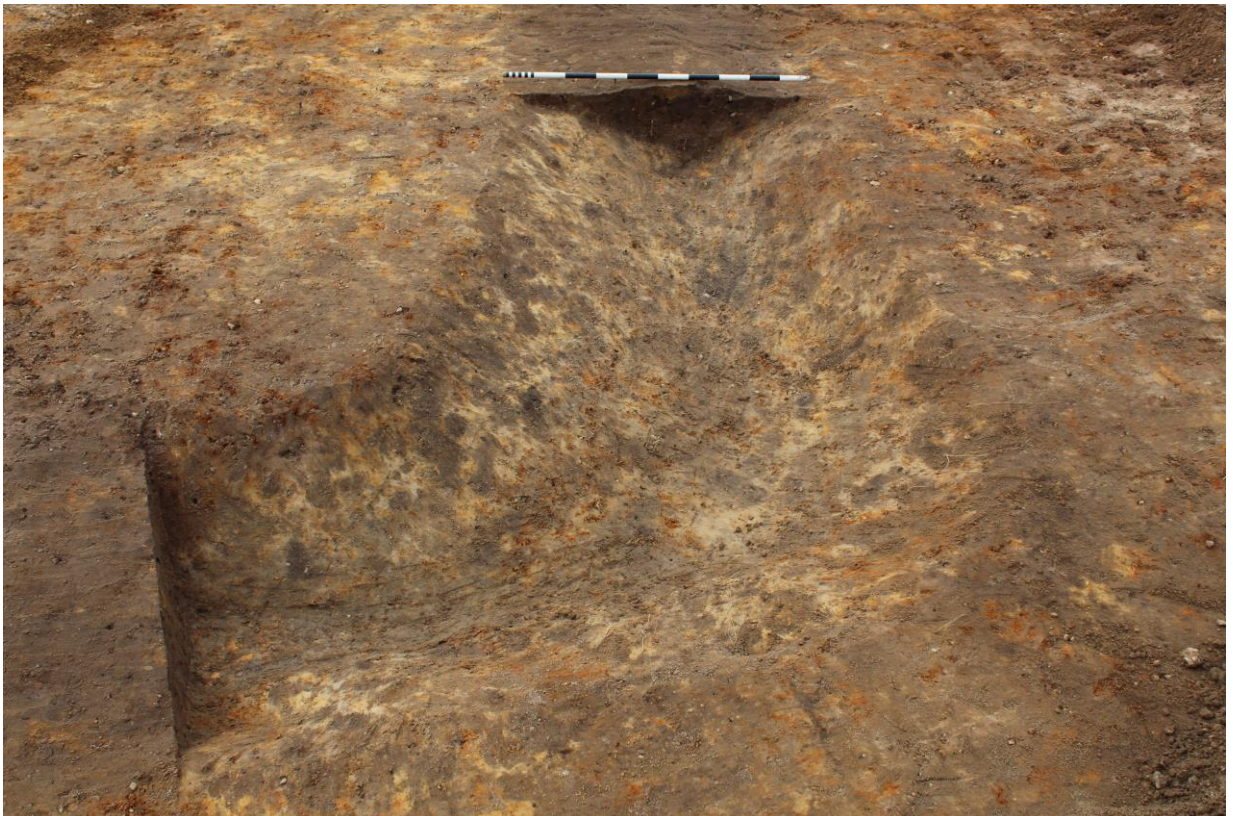


Plate 18: Ditch Corner [078], Facing West. 1m Scale



Plate 19: South Facing Section of Ditch [081], 1m Scale



Plate 20: East Facing Section of [125], 0.5m Scale



Plate 21: Rectangular Enclosure Gully 237, Facing South, 2x1m Scales



Plate 22: South Facing Section of Undated Gully [211], 0.5m Scale

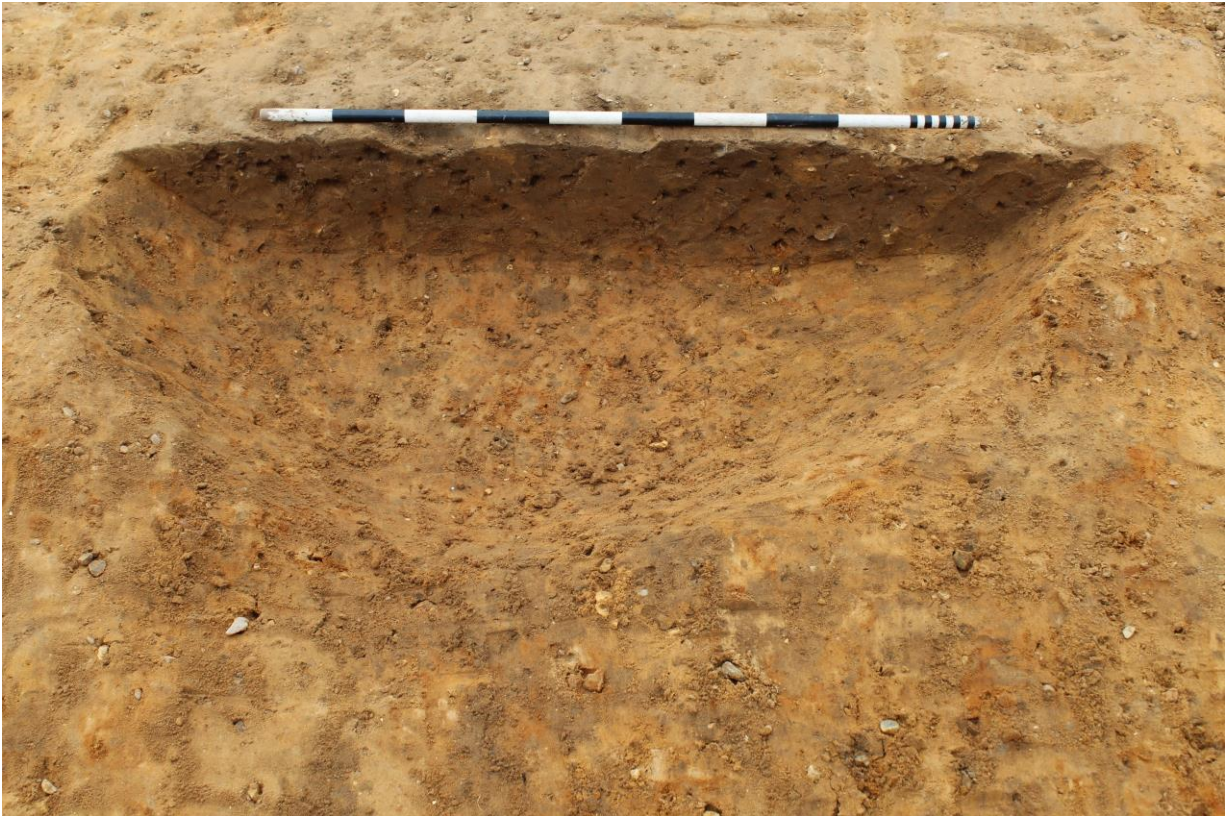


Plate 23: South East Facing Section of Undated Pit [067], 1m Scale



Plate 24: East Facing Section of Central Pit [236], 0.5m Scale



Plate 25: East Facing Section of Undated Gully [165], 0.5m Scale



Plate 26: East Facing Section of Undated Pits [008] and [010], 1m Scale



Plate 27: North Facing Section of Undated Pit [017], 1m Scale



Plate 28: North Facing Section of Undated Pit [019], 0.5m Scale



Plate 29: East Facing Section of Undated Pit [159], 0.5m Scale



Plate 30: East Facing Section of Undated Pit [161], 0.5m Scale

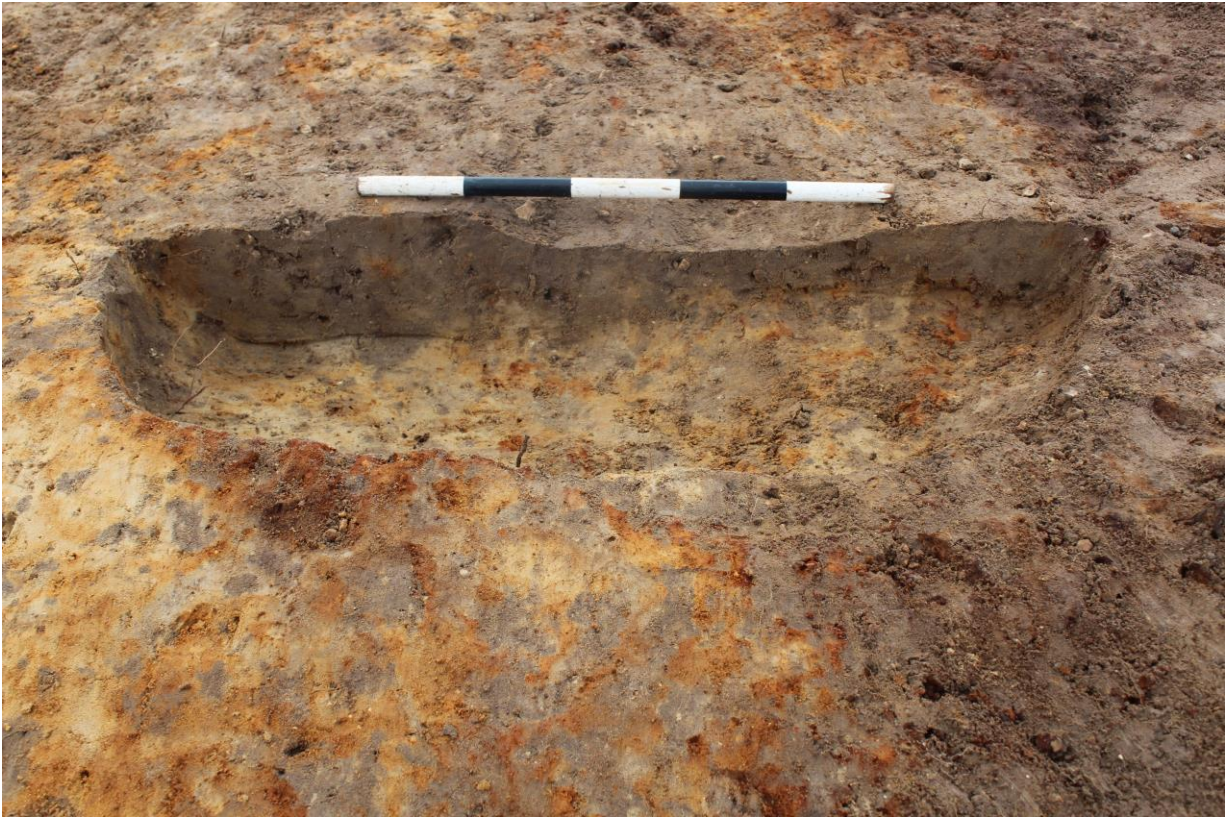


Plate 31: West Facing Section of Undated Pit [167], 0.5m Scale



Plate 32: South West Facing Section of Undated Pit [202], 1m Scale

APPENDIX 1

Context Listing

Context	Type	Description	Area
001	Layer	Top Soil	-
002	Layer	Subsoil	-
003	Fill	Pale grey, very soft, silty sand. Single fill of Gully [004].	2
004	Cut	Cut of North-South Aligned Gully.	2
005	Fill	Mid greyish brown, friable, silty sand. Single fill of gully terminus [006].	2
006	Cut	Cut of North South Aligned Gully Terminus.	2
007	Fill	Pale brown grey, soft, silty sand. Single fill of small pit [008].	2
008	Cut	Cut of Pit.	2
009	Fill	Mixed grey brown and dark brown, soft, silty sand. Single Fill of Pit [010].	2
010	Cut	Cut of Pit.	2
011	Fill	Mid brownish grey, friable, silty sand. Single fill of elongated pit end [012].	2
012	Cut	Cut of Elongated Pit End.	2
013	Fill	Mottled mid brownish grey, friable, silty sand. Single fill of elongated pit [015].	2
014	VOID	VOID	-
015	Cut	Cut of Elongated Pit Segment.	2
016	Fill	Mid-dark brown grey, loose, friable, silty sand. Single fill of shallow pit [017].	2
017	Cut	Cut of Pit.	2
018	Fill	Mid grey brown, soft, silty sand. Single fill of pit [019].	2
019	Cut	Cut of Pit.	2
020	Fill	Mid-dark brownish grey, loose, friable, silty sand. Single fill of pit [021].	2
021	Cut	Cut of Pit.	2
022	Fill	Mid brownish, blackish grey, friable, silty sand. Secondary fill of ditch [024].	1
023	Fill	Mid brownish grey, friable, silty sand. Primary fill of ditch [024].	1
024	Cut	Cut of East-West Ditch.	1
025	Fill	Mid greyish brown, friable, silty sand. Single fill of gully [026].	1
026	Cut	Cut of East-West Gully.	1
027	Fill	Mid grey brown, soft, silty sand. Single fill of east west gully [028].	1
028	Cut	Cut of East West Gully.	1
029	Fill	Mottled mid grey brown with yellow brown, soft, silty sand. Single fill of gully [030].	1
030	Cut	Re-Cut of East West Gully.	1
031	Fill	Dark grey brown, soft, silty sand. Single fill of gully [032].	1
032	Cut	Cut of East West Gully.	1
033	Fill	Mottled mid grey brown, soft, silty sand. Single fill of gully [034].	1
034	Cut	Cut of Truncated Gully.	1
035	Fill	Dark grey brown, loose, friable, silty sand. Single fill of ditch [036].	1
036	Cut	Cut of Truncated Ditch.	1
037	Fill	Mid-dark brown, loose, friable, silty sand. Single fill of pit [038].	1
038	Cut	Cut of Pit.	1
039	Fill	Mid-dark brownish grey, loose, friable, silty sand. Secondary fill of ditch [042].	1
040	Fill	Dark grey, loose, friable, silty sand. Primary fill of ditch [041].	1
041	Cut	Cut of Ditch.	1

042	Fill	Mottled very pale yellow with mid grey brown, soft sand. Single fill of pit [043].	1
043	Cut	Cut of Pit.	1
044	Fill	Dark grey brown, soft, silty sand. Single fill of pit [045].	1
045	Cut	Cut of Pit.	1
046	Fill	Mid brownish grey, friable, silty sand. Secondary fill of ditch [048].	1
047	Fill	Mid greyish brown, friable, silty sand. Primary fill of ditch [048].	1
048	Cut	Cut of East West Ditch.	1
049	Fill	Light yellowish, greyish brown, friable, silty sand. Single fill of gully terminus [050]	1
050	Cut	Cut of North South Gully Terminus.	1
051	Fill	Pale yellow grey, firm, fine sand. Single fill of gully terminus [052].	1
052	Cut	Cut of Gully Terminus.	1
053	Fill	Mottled dark greyish brown with orange, soft, silty sand. Single fill of pit [054].	1
054	Cut	Cut of Pit.	1
055	Fill	Mid grey yellow brown, firm, sandy silt. Single fill of gully [056].	1
056	Cut	Cut of Gully.	1
057	Fill	Dark grey brown mottled with orange, soft, silty sand. Single fill of pit [058].	1
058	Cut	Cut of Pit.	1
059	Fill	Mottled pale grey with yellow brown, soft-firm sand. Single fill of gully [060].	1
060	Cut	Cut of Gully.	1
061	Fill	Mid brownish grey, friable, silty sand. Single fill of pit [062].	1
062	Cut	Cut of Pit.	1
063	Fill	Mixed mid brown/black grey, friable, silty sand. Secondary fill of pit [065].	1
064	Fill	Mid greyish brown, friable, silty sand. Primary fill of ditch [065].	1
065	Cut	Cut of Pit.	1
066	Fill	Mottled grey brown with yellow brown, soft, silty sand. Single fill of pit [067].	1
067	Cut	Cut of Pit.	1
068	Fill	Mid greyish brown, friable, silty sand. Single fill of pit [069].	1
069	Cut	Cut of Pit.	1
070	Fill	Mid brownish grey, friable, silty sand. Single fill of pit [071].	1
071	Cut	Cut of Pit.	1
072	Fill	Mid greyish brown, friable, silty sand. Single fill of pit [073].	1
073	Cut	Cut of Pit.	1
074	Fill	Dark grey yellow brown, soft, silty sand. Single fill of pit [075].	1
075	Cut	Cut of Pit.	1
076	Fill	Mid grey brown, mottled with yellow, soft, silty sand. Secondary fill of ditch [077].	2
077	Fill	Pale brown grey, soft, silty sand. Primary fill of ditch [077].	2
078	Cut	Cut of Enclosure Ditch Corner.	2
079	Fill	Dark grey brown, soft, silty sand. Secondary fill of ditch [081].	2
080	Fill	Pale yellow grey, soft, silty sand. Primary fill of ditch [081].	2
081	Cut	Cut of Enclosure Ditch.	2
082	Fill	Dark grey brown with pale yellow grey, soft, silty sand. Single fill of ditch [083].	2
083	Cut	Re-cut of Terminus.	2
084	Fill	Very pale grey, soft, fine sand. Single fill of ditch [085].	2
085	Cut	Cut of Enclosure Ditch Terminus.	2

086	Group	Ring Gully 1.	2
087	Fill	Mid-light grey brown, loose, friable silty sand. Single fill of gully segment [088].	2
088	Cut	Cut of Ring Gully Segment.	2
089	Fill	Mid-light grey brown, loose, friable silty sand. Single fill of gully segment [090].	2
090	Cut	Cut of Ring Gully Segment.	2
091	Fill	Mid-light grey brown, loose, friable silty sand. Single fill of gully segment [092].	2
092	Cut	Cut of Ring Gully Segment.	2
093	Fill	Mid-light grey brown, loose, friable silty sand. Single fill of gully segment [094].	2
094	Cut	Cut of Ring Gully Segment.	2
095	Group	Ring Gully 2.	2
096	Fill	Mid-light grey brown, loose, friable, silty sand. Single fill of gully segment [097].	2
097	Cut	Cut of Ring Gully Segment.	2
098	Fill	Mid brown with grey, loose, friable, silty sand. Single fill of gully segment [099].	2
099	Cut	Cut of Ring Gully Segment.	2
100	Fill	Mid brown with grey, loose, friable, silty sand. Single fill of gully segment [101].	2
101	Cut	Cut of Ring Gully Segment.	2
102	Fill	Mid brown with grey, loose, friable, silty sand. Single fill of gully segment [103].	2
103	Cut	Cut of Ring Gully Terminus.	2
104	Fill	Mid-dark brownish grey, loose, friable, silty sand. Single fill of pit [105].	2
105	Cut	Cut of Pit.	2
106	Fill	Mid-light grey, loose, friable, silty sand. Single fill of pit [107].	2
107	Cut	Cut of Pit.	2
108	Fill	Mid grey brown, loose, friable, silty sand. Single fill of gully terminus [109].	2
109	Cut	Cut of Ring Gully Terminus.	2
110	Fill	Dark grey brown, moderately firm, silty sand. Secondary fill of ditch [112].	2
111	Fill	Pale yellow grey, firm, silty sand. Primary fill of ditch [112].	2
112	Cut	Cut of North-South Enclosure Ditch.	2
113	Fill	Mid grey brown, moderately firm, silty sand. Single fill of ditch [114].	2
114	Cut	Cut of North-South Enclosure Ditch.	2
115	Fill	Mottled mid reddish grey, firm, silty sand. Single fill of ditch [116].	2
116	Cut	Cut of East-West Enclosure Ditch.	2
117	Fill	Mid-dark brownish grey, firm, silty sand. Single fill of ditch [118].	2
118	Cut	Cut of North-South Enclosure Ditch.	2
119	Fill	Mid-dark brownish grey, moderately firm, silty sand. Single fill of ditch [120].	2
120	Cut	Cut of North-South Enclosure Ditch.	2
121	Fill	Mid-dark brownish grey, firm, silty sand. Single fill of ditch [122].	2
122	Cut	Cut of East-West Enclosure Ditch.	2
123	Fill	Mid-dark grey brown, moderately firm, silty sand. Secondary fill of ditch [125].	2
124	Fill	Mid grey brown, firm, silty sand. Primary fill of ditch [125].	2
125	Cut	Cut of East-West Enclosure Ditch.	2
126	Fill	Dark blackish grey, friable, silty sand. Single fill of ditch segment [127].	2
127	Cut	Cut of Ditch.	2
128	Fill	Dark brownish grey, friable, silty sand. Single fill of gully segment [129].	2
129	Cut	Cut of Gully.	2

130	Fill	Dark brownish grey, friable, silty sand. Single fill of gully segment [131].	2
131	Cut	Cut of Gully.	2
132	Fill	Mid brownish grey, friable, silty sand. Single fill of pit/post hole [133].	2
133	Cut	Cut of Pit/Post Hole.	2
134	VOID	VOID	-
135	VOID	VOID	-
136	Fill	Dark Brownish grey, friable, silty sand. Single fill of gully segment [137].	2
137	Cut	Cut of Gully.	2
138	Fill	Dark brownish grey, friable, silty sand. Single fill of gully segment [139].	2
139	Cut	Cut of Gully.	2
140	Fill	Dark brownish grey, friable, silty sand. Single fill of post hole [141].	2
141	Cut	Cut of Post Hole.	2
142	VOID	VOID	-
143	VOID	VOID	-
144	Fill	Dark brownish grey, friable, silty sand. Single fill of gully segment [145].	2
145	Cut	Cut of Gully.	2
146	Fill	Dark brownish grey, friable, silty sand. Single fill of gully segment [147].	2
147	Cut	Cut of Gully.	2
148	Fill	Mid grey, compact, sandy silt. Single fill of pit [149].	2
149	Cut	Cut of Pit.	2
150	Fill	Mid-dark brown, loose, friable, silty sand. Single fill of gully terminus [151].	2
151	Cut	Cut of Gully Terminus.	2
152	Fill	Mid-dark grey, compact, sandy silt. Single fill of pit [153].	2
153	Cut	Cut of Pit.	2
154	Fill	Mid grey, compact, sandy silt. Single fill of pit [155].	2
155	Cut	Cut of Shallow Pit.	2
156	Fill	Dark blackish grey, friable, silty sand. Single fill of ditch segment [127].	2
157	Cut	Cut of Ditch.	2
158	Fill	Mid-light grey, compact, sandy silt. Single fill of pit [159].	2
159	Cut	Cut of Pit.	2
160	Fill	Light grey, compact, sandy silt. Single fill of pit [161].	2
161	Cut	Cut of Pit.	2
162	Fill	Light grey, loose, silty sand. Single fill of gully segment [163].	2
163	Cut	Cut of Gully.	2
164	Fill	Light grey, loose, silty sand. Single fill of gully segment [165].	2
165	Cut	Cut of Gully.	2
166	Fill	Mid brownish grey, friable, silty sand. Single fill of pit [167].	2
167	Cut	Cut of Pit.	2
168	Fill	Dark blackish grey, friable, silty sand. Single fill of ditch [169].	2
169	Cut	Cut of Ditch.	2
170	Fill	Dark brownish grey, friable, silty sand. Single fill of gully [171].	2
171	Cut	Cut of Gully.	2
172	Fill	Dark grey, friable, silty sand. Single fill of pit [173].	2
173	Cut	Cut of Pit.	2

174	Fill	Mid brownish grey, friable, silty sand. Upper fill of pit [178].	2
175	Fill	Dark blackish grey, friable, silty sand. Fill of pit [178].	2
176	VOID	VOID	-
177	Fill	Light yellowish grey, friable, silty sand. Lower fill of pit [178].	2
178	Cut	Cut of Pit.	2
179	Fill	Mid-dark grey, compact, sandy silt. Single fill of pit [180].	2
180	Cut	Cut of Pit.	2
181	Fill	Very dark grey, firm, sandy silt. Secondary fill of pit end [183].	2
182	Fill	Mottled pale yellow grey, moderately firm sand. Primary fill of pit end [183].	2
183	Cut	Cut of Elongated Pit End.	2
184	Fill	Mid-dark grey, moderately firm, silty sand. Tertiary fill of pit segment [187].	2
185	Fill	Very dark grey, firm, silty sand. Secondary fill of pit segment [187].	2
186	Fill	Mottled pale yellow grey, firm, sand. Primary fill of pit segment [187].	2
187	Cut	Cut of Elongated Pit Segment.	2
188	Fill	Very dark grey, firm, silty sand. Secondary fill of pit end [190].	2
189	Fill	Mottled pale yellow grey, firm, sand. Primary fill of pit end [190].	2
190	Cut	Cut of Elongated Pit End.	2
191	Fill	Very dark grey, firm, silty sand. Secondary fill of pit [193].	2
192	Fill	Mid-dark grey, firm, silty sand. Primary fill of pit [193].	2
193	Cut	Cut of Pit.	2
194	Fill	Very dark grey, firm, silty sand. Secondary fill of pit [196].	2
195	Fill	Mid-dark grey, firm, silty sand. Primary fill of pit [196].	2
196	Cut	Cut of Pit.	2
197	Fill	Mottled grey, firm, silty sand. Single fill of pit [198].	2
198	Cut	Cut of Pit.	2
199	Fill	Dark grey, firm, silty sand. Single fill of pit [200].	2
200	Cut	Cut of Pit.	2
201	Fill	Mottled orange grey, firm, silty sand. Single fill of pit [202].	2
202	Cut	Cut of Pit (probable treebole).	2
203	Fill	Mottled pale yellow grey, loose, silty sand. Single fill of gully [204].	1
204	Cut	Cut of Gully.	1
205	Fill	Very dark grey, firm, silty sand. Single fill of pit [206].	1
206	Cut	Cut of Pit.	1
207	Fill	Mid brown grey, firm, silty sand. Single fill of pit [208].	1
208	Cut	Cut of Pit.	1
209	Group	Barrow Group Number.	1
210	Fill	Light grey, loose, silty sand. Single fill of gully segment [211].	1
211	Cut	Cut of Gully.	1
212	Fill	Mid greyish black, loose, friable, silty sand. Secondary fill of pit [214].	1
213	Fill	Dark brownish grey, loose, silty sand. Primary fill of pit [214].	1
214	Cut	Cut of Pit.	1
215	Fill	Light greyish brown, friable, silty sand. Single fill of barrow terminus [216].	1
216	Cut	Cut of Barrow Terminus.	1
217	Fill	Light greyish brown, friable, silty sand. Single fill of barrow segment [218].	1

218	Cut	Cut of Barrow Segment.	1
219	Fill	Light greyish brown, friable, silty sand. Single fill of barrow segment [220].	1
220	Cut	Cut of Ring Barrow Segment.	1
221	VOID	VOID	-
222	VOID	VOID	-
223	VOID	VOID	-
224	VOID	VOID	-
225	Fill	Light greyish brown, friable, silty sand. Single fill of barrow terminus [226].	1
226	Cut	Cut of Ring Barrow Terminus.	1
227	VOID	VOID	-
228	VOID	VOID	-
229	Fill	Light greyish brown, friable, silty sand. Single fill of barrow segment [230].	1
230	Cut	Cut of Barrow Segment.	1
231	Fill	Light greyish brown, friable, silty sand. Single fill of barrow segment [232].	1
232	Cut	Cut of Barrow Segment.	1
233	Fill	Light greyish brown, friable, silty sand. Single fill of barrow segment [234].	1
234	Cut	Cut of Barrow Segment.	1
235	Fill	Dark grey, compact, sandy silt. Single fill of pit [236].	1
236	Cut	Cut of Pit.	1
237	Group	Rectangular Feature Group Number.	2
238	Group	Area 1 Eastern Ditch	1
239	Group	Area 1 Western Ditch	1
240	Group	Area 2 North South Aligned Ditch	2
241	Group	Area 2 East West Aligned Ditch	2
242	Group	Area 1 North South Aligned Gully	1
243	Group	Area 2 East West Aligned Gully	2

APPENDIX 2

Drawn Archive Listing

Drawing	Scale	Context	Description	Area
001	1:10	(003)-[004]	S Facing Section of Ditch [004]	2
002	1:20	(003)-[004]	Plan of Ditch [004]	2
003	1:10	(005)-[006]	NE Facing Section of Gully Terminus [006]	2
004	1:20	(005)-[006]	Plan of Gully Terminus [006]	2
005	1:10	(007)-[010]	E Facing Section of Pits [008] + [010]	2
006	1:20	(007)-[010]	Plan of Pits [008] + [010]	2
007	1:10	(011)-[012]	N+E Facing Sections of Gully Terminus [012]	2
008	1:20	(011)-[012]	Plan of Gully Terminus [012]	2
009	1:10	(013)-[015]	NW Facing Section of Gully [015]	2
010	1:20	(013)-[015]	Plan of Gully [015]	2
011	1:10	(016)-[017]	N Facing Section of Pit [017]	2
012	1:20	(016)-[017]	Plan of Pit [017]	2
013	1:10	(020)-[021]	N Facing Section of Pit [021]	2
014	1:20	(020)-[021]	Plan of Pit [021]	2
015	1:10	(018)-[019]	N Facing Section of Pit [019]	2
016	1:20	(018)-[019]	Plan of Pit [019]	2
017	1:10	(022)-[026]	E Facing Section of Ditch [024] and Gully [026]	1
018	1:20	(022)-[026]	Plan of Ditch [024] and Gully [026]	1
019	1:10	(027)-[028]	W Facing Section of Gully [028]	1
020	1:20	(027)-[028]	Plan of Gully [028]	1
021	1:10	(029)-[032]	W Facing Section of Gullies [030] + [032]	1
022	1:20	(029)-[032]	Plan of Gullies [030] + [032]	1
023	1:10	(033)-[034]	S Facing Section of Truncated Gully [034]	1
024	1:20	(033)-[034]	Plan of Truncated Gully [034]	1
025	1:10	(035)-[036]	S Facing Section of Truncated Ditch [036]	1
026	1:20	(035)-[036]	Plan of Truncated Ditch [036]	1
027	1:10	(037)-[041]	E Facing Section of Pit [038] + Ditch [040]	1
028	1:20	(037)-[041]	Plan of Pit [038] + Ditch [040] Intersection	1
029	1:10	(042)-[045]	W Facing Section of Pits [043] + [045]	1
030	1:20	(042)-[045]	Plan of Pits [042] + [045]	1
031	1:10	(046)-[048]	E Facing Section of Ditch [048]	1
032	1:20	(046)-[048]	Plan of Ditch [048]	1
033	1:10	(049)-[050]	E+S Facing Section of Gully Terminus [050]	1
034	1:20	(049)-[050]	Plan of Gully Terminus [050]	1
035	1:10	(061)-[065]	NW Facing Section of Pits [062] + [065]	1
036	1:20	(061)-[065]	Plan of Pits [062] + [065]	1
037	1:10	(051)-[052]	SW Facing Section of Gully Terminus [052]	1
038	1:10	(051)-[052]	SE Facing Section of Gully Terminus [052]	1
039	1:10	(053)-[056]	W Facing Section of Pit [054] and Gully [056]	1
040	1:10	(057)-[060]	W Facing Section of Pit [058] and Gully [060]	1

041	1:20	{051}-[060]	Plan of Pits [054]+[058] and Gullies [056] and [060]	1
042	1:10	(066)-[067]	SE Facing Section of Pit [067]	1
043	1:20	(066)-[067]	Plan of Pit [067]	1
044	1:10	(068)-[069]	NW Facing Section of Pit [069]	1
045	1:20	(068)-[069]	Plan of Pit [069]	1
046	1:10	(070)-[071]	SW Facing Section of Pit [071]	1
047	1:20	(070)-[071]	Plan of Pit [071]	1
048	1:10	(072)-[073]	SE Facing Section of Pit [073]	1
049	1:20	(072)-[073]	Plan of Pit [073]	1
050	1:10	(074)-[075]	N Facing Section of Pit [075]	1
051	1:20	(074)-[075]	Plan of Pit [075]	1
052	1:10	(076)-[078]	E Facing Section of Ditch Corner [078]	2
053	1:10	(076)-[078]	N Facing Section of Ditch Corner [078]	2
054	1:20	(076)-[078]	Plan of Ditch Corner [078]	2
055	1:10	(079)-[081]	S Facing Section of Enclosure Ditch [081]	2
056	1:20	(079)-[081]	Plan of Enclosure Ditch [081]	2
057	1:10	(082)-[085]	E Facing Section of Enclosure Ditch Terminus [085]	2
058	1:10	(082)-[085]	S Facing Section of Enclosure Ditch Terminus [085]	2
059	1:20	(082)-[085]	Plan of Enclosure Ditch Terminus [085]	2
060	1:10	(087)-[088]	W Facing Section of Ring Gully Segment [088]	2
061	1:10	(089)-[090]	N Facing Section of Ring Gully Segment [090]	2
062	1:10	(091)-[092]	W Facing Section of Ring Gully Segment [092]	2
063	1:10	(093)-[094]	S Facing Section of Ring Gully Segment [094]	2
064	1:50	(087)-[094]	Plan Of Ring Gully G.086	2
065	1:10	(096)-[097]	W Facing Section of Ring Gully Segment [097]	2
066	1:10	(098)-[099]	N Facing Section of Ring Gully Segment [099]	2
067	1:10	(100)-[101]	E Facing Section of Ring Gully Segment [101]	2
068	1:10	(102)-[103]	W Facing Section of Ring Gully Terminus [103]	2
069	1:10	(104)-[107]	E Facing Section of Pits [105] + [107]	2
070	1:10	(108)-[109]	W Facing Section of Ring Gully Terminus [109]	2
071	1:50	(096)-[109]	Plan of Ring Gully G.095	2
072	1:10	(110)-[112]	N Facing Section of Ditch [112]	2
073	1:20	(110)-[112]	Plan of Ditch [112]	2
074	1:10	(113)-[116]	N Facing Section of Ditches [114] + [116]	2
075	1:20	(113)-[116]	Plan of Ditches [114] + [116]	2
076	1:10	(117)-[118]	N Facing Section of Ditch [118]	2
077	1:20	(117)-[118]	Plan of Ditch [118]	2
078	1:10	(119)-[120]	S Facing Section of Ditch [120]	2
079	1:20	(119)-[120]	Plan of Ditch [120]	2
080	1:10	(121)-[122]	W Facing Section of Ditch [122]	2
081	1:20	(121)-[122]	Plan of Ditch [122]	2
082	1:10	(123)-[125]	East Facing Section of Ditch [125]	2
083	1:20	(123)-[125]	Plan of Ditch [125]	2
084	1:50	G.237	Plan of Rectangular Feature G.237	2
085	1:10	(126)-[129]	W Facing Section of Ditch [127] and Gully [129]	2

086	1:10	(130)-[133]	S Facing Section of Gully [131] and Pit [133]	2
087	1:10	(130)-[131]	N Facing Section of Gully [131]	2
088	1:10	(136)-[137]	W Facing Section of Gully [137]	2
089	1:10	(138)-[141]	E Facing Section of Posthole [139] and Gully [141]	2
090	1:10	(138)-[139]	W Facing Section of Gully [139]	2
091	1:10	(144)-[145]	S Facing Section of Gully [145]	2
092	1:10	(146)-[147]	N Facing Section of Gully [147]	2
093	VOID	VOID	VOID	2
094	VOID	VOID	VOID	2
095	1:10	(148)-[149]	W Facing Section of Pit [149]	2
096	1:20	(148)-[149]	Plan of Pit [149]	2
097	1:10	(150)-[151]	E Facing Section of Terminus [151]	2
098	1:20	(150)-[151]	Plan of Terminus [151]	2
099	1:10	(152)-[153]	W Facing Section of Pit [153]	2
100	1:20	(152)-[153]	Plan of Pit [153]	2
101	1:10	(154)-[155]	N Facing Section of Pit [155]	2
102	1:20	(154)-[155]	Plan of Pit [155]	2
103	1:10	(158)-[159]	E Facing Section of Pit [159]	2
104	1:20	(158)-[159]	Plan of Pit [159]	2
105	1:10	(160)-[161]	E Facing Section of Pit [161]	2
106	1:20	(160)-[161]	Plan of Pit [161]	2
107	1:10	(162)-[163]	S Facing and W Facing Section of Gully [163]	2
108	1:10	(164)-[165]	E Facing Section of Gully [165]	2
109	1:20	(162)-[165]	Plan of Gully Segments [163] + [165]	2
110	1:10	(156)-[157]	W Facing Section of Ditch [157]	2
111	1:10	(166)-[167]	E Facing Section of Pit [167]	2
112	1:10	(168)-[178]	N&E Facing Section of Relationship	2
113	1:10	(179)-[180]	E Facing Section of Pit [180]	2
114	1:20	(179)-[180]	Plan of Pit [180]	2
115	1:10	(181)-[183]	E Facing Section of Pit End [183]	2
116	1:10	(184)-[187]	N Facing Section of Pit Segment [187]	2
117	1:10	(188)-[190]	E Facing Section of Pit End [190]	2
118	1:20	(181)-[190]	Plan of Elongated Pit	2
119	1:10	(191)-[193]	W Facing Section of Pit [193]	2
120	1:20	(191)-[193]	Plan of Pit [193]	2
121	1:10	(194)-[196]	SW Facing Section of Pit [196]	2
122	1:20	(194)-[196]	Plan of Pit [196]	2
123	1:10	(197)-[200]	W Facing Section of Pits [198] + [200]	2
124	1:20	(197)-[200]	Plan of Pits [198] + [200]	2
125	1:10	(201)-[202]	SW Facing Section of Pit [202]	2
126	1:20	(201)-[202]	Plan of Pit [202]	2
127	1:10	(203)-[204]	S Facing Section of Gully [204]	1
128	1:20	(203)-[204]	Plan of Gully [204]	1
129	1:10	(205)-[206]	E Facing Section of Pit [206]	1
130	1:20	(205)-[206]	Plan of Pit [206]	1

131	1:10	(207)-[208]	N Facing Section of Pit [208]	1
132	1:20	(207)-[208]	Plan of Pit [208]	1
133	1:50	G.209	Plan of Barrow G.209	1
134	1:10	(210)-[211]	S Facing Section of Gully Terminus [211]	1
135	1:10	(210)-[211]	Plan of Gully Terminus [211]	1
136	1:10	(212)-[214]	N Facing Section of Pit [214]	1
137	1:20	(212)-[214]	Plan of Pit [214]	1
138	1:10	(215)-[216]	E Facing Section of Barrow Terminus [216]	1
139	1:10	(217)-[218]	E Facing Section of Barrow Segment [218]	1
140	1:10	(219)-[220]	W Facing Section of Barrow Segment [220]	1
141	VOID	VOID	VOID	-
142	VOID	VOID	VOID	-
143	1:10	(225)-[226]	E&S Facing Sections of Barrow Terminus [226]	1
144	VOID	VOID	VOID	-
145	1:10	(229)-[230]	SE Facing Section of Barrow Segment [230]	1
146	1:10	(231)-[232]	SE Facing Section of Barrow Segment [232]	1
147	1:10	(233)-[234]	E Facing Section of Barrow Segment [234]	1
148	1:10	(235)-[236]	E Facing Section of Pit [236]	1

APPENDIX 3

Photographic Archive Listing

Digital

Frame	Context	Scale	Facing	Description	Area
757	Area 2	-	N	Pre-ex Shots of Area 2	2
758	Area 2	-	NW	Pre-ex Shots of Area 2	2
759	Area 2	-	W	Pre-ex Shots of Area 2	2
760	Area 2	-	SE	Pre-ex Shots of Area 2	2
761	Area 2	-	SW	Pre-ex Shots of Area 2	2
762	Area 2	-	W	Pre-ex Shots of Area 2	2
763	(003)-[004]	0.5m	N	S Facing Section of Gully [004]	2
764	(003)-[004]	0.5m	N	S Facing Section of Gully [004]	2
765	Area 1	-	S	Pre-ex Shots of Area 1	1
766	Area 1	-	SW	Pre-ex Shots of Area 1	1
767	Area 1	-	W	Pre-ex Shots of Area 1	1
768	Area 1	-	SE	Pre-ex Shots of Area 1	1
769	(051)-[052]	0.5m	NE	SW Facing Section of Gully Terminus [052]	2
770	(051)-[052]	0.5m	NE	SW Facing Section of Gully Terminus [052]	2
771	(051)-[052]	1m	NW	SE Facing Section of Gully Terminus [052]	2
772	(051)-[052]	1m	NW	SE Facing Section of Gully Terminus [052]	2
773	(005)-[006]	0.5m	W	E Facing Section of Gully Terminus [006]	2
774	(005)-[006]	0.5m	S	N Facing Section of Gully Terminus [006]	2
775	(005)-[006]	0.5m	W	E Facing Section of Gully Terminus [006]	2
776	(007)-[010]	1m	W	Working Shot of Pits [008] and [010]	2
777	Area 2	0.5m	S	Rooting	2
778	Area 2	0.5m	S	Rooting	2
779	(007)-[010]	1m	W	Working Shot of Pits [008] and [010]	2
780	(009)-[010]	0.5m	N	S Facing Section of Pit [010]	2
781	(007)-[010]	1m	W	E Facing Section of Pits [008] + [010]	2
782	(016)-[017]	1m	S	N Facing Section of Pit [017]	2
783	(016)-[017]	1m	S	Plan Photo of Pit [017]	2
784	(013)-[015]	1m	SW	NE Facing Section of Elongated Pit [015]	2
785	(013)-[015]	1m	NE	SW Facing Section of Elongated Pit [015]	2
786	(013)-[015]	1m	SE	Plan Photo of Elongated Pit [015]	2
787	(011)-[012]	0.5m	W	E Facing Section of Gully Terminus [012]	2
788	(011)-[012]	0.5m	S	N Facing Section of Gully Terminus [012]	2
789	(011)-[012]	0.5m	W	Plan Photo of Gully Terminus [012]	2
790	(018)-[019]	0.5m	S	N Facing Section of Pit [019]	2
791	(018)-[019]	0.5m	S	N Facing Section of Pit [019]	2
792	(020)-[021]	0.5m	S	N Facing Section of Pit [021]	2
793	(020)-[021]	0.5m	S	Plan Photo of Pit [021]	2
794	Area 1	0.5m	S	N Facing Section of Modern Pit	1

795 Area 1	0.5m	S	N Facing Section of Modern Pit	1
796 (027)-[028]	0.5m	E	W Facing Section of Gully [028]	1
797 (027)-[028]	0.5m	E	W Facing Section of Gully [028]	1
798 (035)-[036]	0.5m	N	S Facing Section of Ditch Terminus [036]	1
799 (035)-[036]	0.5m	N	S Facing Section of Ditch Terminus [036]	1
800 (035)-[036]	0.5m	N	Plan Photo of Ditch Terminus [036]	1
801 (022)-[026]	1m	W	E Facing Section of Ditches [024] + [026]	1
802 (022)-[026]	1m	N	Plan of Ditched [024] + [026]	1
803 (022)-[026]	1m	E	W Facing Section of Ditches [024] + [026]	1
804 (029)-[032]	1m	E	W Facing Section of Gullies [030] + [032]	1
805 (029)-[032]	1m	E	W Facing Section of Gullies [030] + [032]	1
806 (037)-[041]	1m	W	E Facing Section of Pit [038] + Ditch [041]	1
807 (037)-[041]	1m	W	Plan Photo of Pit [038] + Ditch [041]	1
808 (033)-[034]	0.5m	N	S Facing Section of Gully Terminus [034]	1
809 (033)-[034]	0.5m	N	S Facing Section of Gully Terminus [034]	1
810 (033)-[034]	0.5m	N	S Facing Section of Gully Terminus [034]	1
811 (037)-[041]	2m	W	E Facing Section of Pit [038] + Ditch [041]	1
812 (037)-[041]	2m	W	Plan Photo of Pit [038] + Ditch [041]	1
813 (042)-[045]	2m	E	W Facing Section of Pits [043] + [045]	1
814 (042)-[045]	2m	E	W Facing Section of Pits [043] + [045]	1
815 (042)-[045]	2m	E	W Facing Section of Pits [043] + [045]	1
816 (046)-[048]	1m	W	E Facing Section of Ditch [048]	1
817 (046)-[048]	1m	W	Plan Photo of Ditch [048]	1
818 G.209	2x1m	NW	Pre-Ex of Barrow 209	2
819 G.209	2x1m	NW	Pre-Ex of Barrow 209	2
820 G.209	2x1m	E	Pre-Ex of Barrow 209	2
821 G.209	2x1m	E	Pre-Ex of Barrow 209	2
822 G.209	2x1m	E	Pre-Ex of Barrow 209	2
823 G.209	2x1m	E	Pre-Ex of Barrow 209	2
824 G.086	2x1m	S	Pre-Ex of Ring Gully 086.	2
825 G.086	2x1m	S	Pre-Ex of Ring Gully 086.	2
826 (049)-[050]	0.5m	W	E Facing Section of Gully Terminus [050]	1
827 (049)-[050]	0.5m	N	S Facing Section of Gully Terminus [050]	1
828 (057)-[060]	0.5m	E	W Facing Section of Gully [058] + Pit [060]	1
829 (057)-[060]	0.5m	E	W Facing Section of Gully [058] + Pit [060]	1
830 (053)-[056]	1m	E	W Facing Section of Pit [054] + Gully [056]	1
831 (053)-[056]	1m	E	W Facing Section of Pit [054] + Gully [056]	1
832 G. 095	2x1m	S	Pre-Ex of Ring Gully 095.	2
833 G. 095	2x1m	S	Pre-Ex of Ring Gully 095.	2
834 (061)-[065]	1m	SE	NW Facing Section of Pits [062] + [065]	1
835 (061)-[065]	1m	SE	Plan Photo of Pits [062] + [065]	1
836 (066)-[067]	1m	NW	SE Facing Section of Pit [067]	1
837 (066)-[067]	1m	NW	SE Facing Section of Pit [067]	1
838 (087)-[088]	0.5m	E	W Facing Section of Ring Gully Segment [088]	2
839 (087)-[088]	0.5m	E	Plan Photo of Ring Gully Segment [088]	2

840 (093)-[094]	0.5m	N	S Facing Section of Ring Gully Segment [094]	2
841 (093)-[094]	0.5m	N	Plan Photo of Ring Gully Segment [094]	2
842 (068)-[069]	1m	S	N Facing Section of Pit [069]	1
843 (068)-[069]	1m	S	Plan Photo of Pit [069]	1
844 (070)-[071]	1m	NW	SE F Section of Pit [071]	1
845 (070)-[071]	1m	NW	Plan Photo of Pit [071]	1
846 -	1m	S	N Facing Section of Rooting/Solution Hole	1
847 -	1m	S	N Facing Section of Rooting/Solution Hole	1
848 (091)-[092]	0.5m	E	W Facing Section of Ring Gully Segment [092]	2
849 (091)-[092]	0.5m	E	Plan Photo of Ring Gully Segment [092]	2
850 (089)-[090]	0.5m	N	S Facing Section of Ring Gully Segment [090]	2
851 (089)-[090]	0.5m	S	N Facing Section of Ring Gully Segment [090]	2
852 (089)-[090]	0.5m	S	Plan Photo of Ring Gully Segment [090]	2
853 (072)-[073]	0.5m	NE	SW Facing Section of Pit [073]	1
854 (072)-[073]	0.5m	NE	Plan Photo of Pit [073]	1
855 (074)-[075]	1m	S	N Facing Section of Pit [075]	1
856 (074)-[075]	1m	S	N Facing Section of Pit [075]	1
857 (074)-[075]	1m	S	N Facing Section of Pit [075]	1
858 (119)-[120]	1m	N	S Facing Section of Ditch [120]	2
859 (117)-[118]	1m	S	N Facing Section of Ditch [118]	2
860 (113)-[116]	1m	S	N Facing Section of Intersection of [114] + [118]	2
861 (110)-[112]	1m	S	N Facing Section of Ditch [112]	2
862 G.237	-	S	Pre-Ex of Rectangular Feature G.237	2
863 G.237	2x1m	S	Pre-Ex of Rectangular Feature G.237	2
864 (082)-[085]	1m	W	E Facing Section of Terminus [085]	2
865 (082)-[085]	1m	W	E Facing Section of Terminus [085]	2
866 (121)-[122]	0.5m	E	W Facing Section of Ditch [122]	2
867 (076)-[078]	1m	W	E Facing Section of Ditch Corner [078]	2
868 (076)-[078]	1m	W	E Facing Section of Ditch Corner [078]	2
869 (076)-[078]	1m	W	Plan Photo of Ditch Corner [078]	2
870 (076)-[078]	1m	W	Plan Photo of Ditch Corner [078]	2
871 (076)-[078]	1m	S	N Facing Section of Ditch Corner [078]	2
872 (076)-[078]	1m	S	N Facing Section of Ditch Corner [078]	2
873 (096)-[097]	0.5m	E	W Facing Section of Ring Gully Segment [097]	2
874 (096)-[097]	0.5m	E	Plan Photo of Ring Gully Segment [097]	2
875 (098)-[099]	0.5m	S	N Facing Section of Ring Gully Segment [099]	2
876 (098)-[099]	0.5m	S	Plan Photo of Ring Gully Segment [099]	2
877 (100)-[101]	0.5m	W	E Facing Section of Ring Gully Segment [101]	2
878 (100)-[101]	0.5m	W	Plan Photo of Ring Gully Segment [101]	2
879 (102)-[103]	0.5m	E	W Facing Section of Ring Gully Terminus [103]	2
880 (102)-[103]	0.5m	E	Plan Photo of Ring Gully Terminus [103]	2
881 (108)-[109]	0.5m	E	W Facing Section of Ring Gully Terminus [109]	2
882 (108)-[109]	0.5m	E	Plan Photo of Ring Gully Terminus [109]	2
883 (104)-[107]	1m	W	E Facing Section of Pits [105] + [107]	2
884 (104)-[107]	1m	W	Plan Photo of Pits [105] + [107]	2

885 (123)-[125]	0.5m	W	E Facing Section of Ditch [125]	2
886 (079)-[081]	1m	N	S Facing Section of Ditch [081]	2
887 (079)-[081]	1m	N	S Facing Section of Ditch [081]	2
888 (126)-[129]	1m	E	W Facing Section of Ditch [127] + Gully [129]	2
889 (130)-[133]	0.5m	N	S Facing Section of Pit [131] + Gully [133]	2
890 (130)-[131]	0.5m	S	N Facing Section of Gully [131]	2
891 (136)-[137]	0.5m	E	W Facing Section of Gully [137]	2
892 (138)-[141]	0.5m	W	E Facing Section of Posthole [139] + Gully [141]	2
893 (138)-[139]	0.5m	E	W Facing Section of Gully [139]	2
894 (144)-[145]	0.5m	N	S Facing Section of Gully [145]	2
895 (146)-[147]	0.5m	S	N Facing Section of Gully [147]	2
896 (148)-[149]	0.5m	W	E Facing Section of Gully [149]	2
897 (150)-[151]	0.5m	W	E Facing Section of Gully [151]	2
898 (150)-[151]	0.5m	W	Plan Photo of Gully [151]	2
899 (188)-[190]	0.5m	W	E Facing Section of Pit End [190]	2
900 (188)-[190]	0.5m	W	E Facing Section of Pit End [190]	2
901 (184)-[187]	1m	S	N Facing Section of Pit Segment [187]	2
902 (184)-[187]	1m	S	N Facing Section of Pit Segment [187]	2
903 (181)-[183]	0.5m	W	E Facing Section of Pit End [183]	2
904 (104)-[107]	1m	W	E Facing Section of Pits [105] + [107]	2
905 (197)-[200]	1m	E	W Facing Section of Pits [198] + [200]	2
906 (201)-[202]	1m	NE	SW Facing Section of Possible Treebole [202]	2
907 (152)-[153]	0.5m	E	W Facing Section of Pit [153]	2
908 (152)-[153]	0.5m	E	W Facing Section of Pit [153]	2
909 (152)-[153]	0.5m	E	W Facing Section of Pit [153]	2
910 G.086	2x1m	S	Mid Ex Photo of Ring Gully G.086	2
911 G.086	2x1m	S	Mid Ex Photo of Ring Gully G.086	2
912 (154)-[155]	0.5m	S	N Facing Section of Pit [155]	2
913 G.095	2x1m	S	Mid Ex Photo of Ring Gully G.095	2
914 G.095	2x1m	S	Mid Ex Photo of Ring Gully G.095	2
915 (158)-[159]	0.5m	W	E Facing Section of Pit [159]	2
916 G.237	2x1m	S	Mid Ex of Rectangular Feature G.237	2
917 (156)-[157]	0.5m	E	W Facing Section of Ditch [157]	2
918 (168)-[178]	0.5m	S	N Facing Section of Intersection	2
919 (168)-[178]	1m	W	E Facing Section of Intersection	2
920 (191)-[193]	1m	E	W Facing Section of Pit [193]	2
921 (194)-[196]	1m	NE	SW Facing Section of Pit [196]	2
922 (194)-[196]	1m	NE	SW Facing Section of Pit [196]	2
923 (160)-[161]	0.5m	W	E Facing Section of Pit [161]	2
924 (162)-[163]	0.5m	N	S Facing of Gully Terminus [163]	2
925 (162)-[163]	0.5m	N	Plan Photo of Gully Terminus [163]	2
926 (162)-[163]	0.5m	N	Plan Photo of Gully Terminus [163]	2
927 (164)-[165]	0.5m	W	E Facing Section of Gully [165]	2
928 (164)-[165]	0.5m	W	Plan Photo of Gully [165]	2
929 G.243	0.5m	N	Truncation of G.243	2

930 (166)-[167]	0.5m	E	W Facing Section of Pit [167]	2
931 (166)-[167]	0.5m	E	Plan Photo of Pit [167]	2
932 (179)-[180]	1m	S	N Facing Section of Pit [180]	2
933 (179)-[180]	1m	S	N Facing Section of Pit [180]	2
934 (203)-[204]	0.5m	N	S Facing Section of Ditch [204]	1
935 (225)-[226]	1m	W	E Facing Section of Barrow Terminus [226]	1
936 (225)-[226]	0.5m	N	S Facing Section of Barrow Terminus [226]	1
937 (215)-[216]	0.5m	W	E Facing Section of of Barrow Terminus [216]	1
938 (215)-[216]	0.5m	W	E Facing Section of of Barrow Terminus [216]	1
939 (215)-[216]	0.5m	W	Plan Photo of Barrow Terminus [216]	1
940 (205)-[206]	1m	W	E Facing Section of Pit [206]	1
941 (207)-[208]	1m	S	N Facing Section of Pit [208]	1
942 (217)-[218]	0.5m	W	E Facing Section of Barrow Ditch [218]	1
943 (217)-[218]	0.5m	W	Plan Photo of Barrow Ditch [218]	1
944 (229)-[230]	0.5m	NW	SE Facing Section of Barrow Ditch [218]	1
945 (229)-[230]	0.5m	NW	Plan Photo of Barrow Ditch [218]	1
946 (231)-[232]	0.5m	NW	SE Facing Section of Barrow Ditch [232]	1
947 (219)-[220]	0.5m	E	W Facing Section of Barrow Ditch [220]	1
948 (219)-[220]	0.5m	E	Plan Photo of Barrow Ditch [220]	1
949 (210)-[211]	0.5m	N	S Facing Section of Gully Terminus [211]	1
950 (210)-[211]	0.5m	N	Plan Photo of Gully Terminus [211]	1
951 (233)-[234]	0.5m	W	E Facing Section of Barrow Slot [234]	1
952 (212)-[214]	1m	S	N Facing Section of Pit [214]	1
953 (212)-[214]	1m	S	Plan Photo of Pit [214]	1
954 (212)-[214]	1m	S	Plan Photo of Pit [214]	1
955 (235)-[236]	1m	W	E Facing Section of Pit [236]	1
956 (235)-[236]	1m	W	Plan Photo of Pit [236]	1
957 (235)-[236]	1m	W	Plan Photo of Pit [236]	1
958 G.209	-	S	Post Ex of Barrow Ditch	1
959 G.209	-	SW	Post Ex of Barrow Ditch	1
960 G.209	-	W	Post Ex of Barrow Ditch	1
961 G.209	-	NE	Post Ex of Barrow Ditch	1
962 G.209	-	N	Post Ex of Barrow Ditch	1
963 -	-	-	Working Shot	1
964 G.095	2x1m	S	Post Ex of Ring Gully G.095	2
965 G.095	2x1m	S	Post Ex of Ring Gully G.095	2
966 G.086	2x1m	S	Post Ex of Ring Gully G.086	2
967 G.086	2x1m	S	Post Ex of Ring Gully G.086	2
968 G.086	2x1m	S	Post Ex of Ring Gully G.086	2
969 G.237	2x1m	S	Post Ex of Rectangular Feature G.237	2
970 G.237	2x1m	S	Post Ex of Rectangular Feature G.237	2
971 G.237	2x1m	S	Post Ex of Rectangular Feature G.237	2
972 (212)-[214]	1m	S	Post Ex of Pit [214]	1

APPENDIX 4

Environmental Sample Listing

Sample	Context Sampled	Cut	Type	Description	Area
001	(005)	[006]	GBA	Single Fill of Terminus [006]	2
002	(007)	[008]	GBA	Single Fill of Pit [008]	2
003	(009)	[010]	GBA	Single Fill of Pit [010]	2
004	(016)	[017]	GBA	Single Fill of Pit [017]	2
005	(020)	[021]	GBA	Single Fill of Pit [021]	2
006	(018)	[019]	GBA	Single Fill of Pit [019]	2
007	(011)	[012]	GBA	Single Fill of Gully Terminus [012]	2
008	(014)	[015]	GBA	Primary Fill of Gully [015]	2
009	(022)	[024]	GBA	Secondary Fill of Gully [024]	1
010	(023)	[024]	GBA	Primary Fill of Gully [024]	1
011	(025)	[026]	GBA	Single Fill of Gully [026]	1
012	(027)	[028]	GBA	Single Fill of Gully [028]	1
013	(029)	[030]	GBA	Single Fill of Gully [030]	1
014	(031)	[032]	GBA	Single Fill of Gully [032]	1
015	(037)	[038]	GBA	Single Fill of Pit [038]	1
016	(040)	[041]	GBA	Primary Fill of Ditch [041]	1
017	(044)	[045]	GBA	Single Fill of Pit [045]	1
018	(046)	[048]	GBA	Secondary Fill of Ditch [048]	1
019	(047)	[048]	GBA	Primary Fill of Ditch [048]	1
020	(049)	[050]	GBA	Single Fill of Gully Terminus [050]	1
021	(061)	[062]	GBA	Single Fill of Pit [062]	1
022	(063)	[065]	GBA	Secondary Fill of Pit [065]	1
023	(064)	[065]	GBA	Primary Fill of Pit [065]	1
024	(053)	[054]	GBA	Single Fill of Pit [054]	1
025	(066)	[067]	GBA	Single Fill of Pit [067]	1
026	(068)	[069]	GBA	Single Fill of Pit [069]	1
027	(070)	[071]	GBA	Single Fill of Pit [071]	1
028	(072)	[073]	GBA	Single Fill of Pit [073]	1
029	(074)	[075]	GBA	Single Fill of Pit [075]	1
030	(087)	[088]	GBA	Single Fill of Ring Gully Segment [088]	2
031	(089)	[090]	GBA	Single Fill of Ring Gully Segment [090]	2
032	(091)	[092]	GBA	Single Fill of Ring Gully Segment [092]	2
033	(093)	[094]	GBA	Single Fill of Ring Gully Segment [094]	2
034	(096)	[097]	GBA	Single Fill of Ring Gully Segment [097]	2
035	(098)	[099]	GBA	Single Fill of Ring Gully Segment [099]	2
036	(100)	[101]	GBA	Single Fill of Ring Gully Segment [101]	2
037	(102)	[103]	GBA	Single Fill of Ring Gully Terminus [103]	2
038	(104)	[105]	GBA	Single Fill of Pit [105]	2
039	(106)	[107]	GBA	Single Fill of Ring Gully Terminus [107]	2

040	(111)	[112]	GBA	Primary Fill of Ditch [112]	2
041	(113)	[114]	GBA	Single Fill of Ditch [114]	2
042	(115)	[116]	GBA	Single Fill of Ditch [116]	2
043	(117)	[118]	GBA	Single Fill of Ditch [118]	2
044	(119)	[120]	GBA	Single Fill of Ditch [120]	2
045	(121)	[122]	GBA	Single Fill of Ditch [122]	2
046	(124)	[125]	GBA	Primary Fill of Ditch [125]	2
047	(076)	[077]	GBA	Secondary Fill of Ditch [077]	2
048	(079)	[081]	GBA	Secondary Fill of Ditch [081]	2
049	(082)	[083]	GBA	Single Fill of Terminus [083]	2
050	(130)	[131]	GBA	Single Fill of Gully [135]	2
051	(136)	[137]	GBA	Single Fill of Gully [137]	2
052	(138)	[139]	GBA	Single Fill of Gully [143]	2
053	(144)	[145]	GBA	Single Fill of Gully [145]	2
054	(146)	[147]	GBA	Single Fill of Gully [147]	2
055	(148)	[149]	GBA	Single Fill of Pit [149]	2
056	(150)	[151]	GBA	Single Fill of Gully Terminus [151]	2
057	(152)	[153]	GBA	Single Fill of Pit [153]	2
058	(154)	[155]	GBA	Single Fill of Pit [155]	2
059	(158)	[159]	GBA	Single Fill of Pit [159]	2
060	(160)	[161]	GBA	Single Fill of Pit [161]	2
061	(162)	[163]	GBA	Single Fill of Gully [163]	2
062	(164)	[165]	GBA	Single Fill of Gully [165]	2
063	(156)	[157]	GBA	Single Fill of Ditch [157]	2
064	(166)	[167]	GBA	Single Fill of Pit [167]	2
065	(179)	[180]	GBA	Single Fill of Pit [180]	2
066	(185)	[187]	GBA	Fill of Gully [187]	2
067	(192)	[193]	GBA	Primary Fill of Pit [193]	2
068	(195)	[196]	GBA	Primary Fill of Pit [196]	2
069	(197)	[198]	GBA	Single Fill of Pit [198]	2
070	(201)	[202]	GBA	Single Fill of Pit [202]	2
071	(203)	[204]	GBA	Single Fill of Gully [204]	1
072	(205)	[206]	GBA	Single Fill of Pit [206]	1
073	(207)	[208]	GBA	Single Fill of Pit [208]	1
074	(210)	[211]	GBA	Single Fill of Gully [211]	1
075	(212)	[214]	GBA	Secondary Fill of Pit [214]	1
076	(213)	[214]	GBA	Primary Fill of Pit [214]	1
077	(215)	[216]	GBA	Single Fill of Barrow Terminus [216]	1
078	(217)	[218]	GBA	Single Fill of Barrow Segment [218]	1
079	(225)	[226]	GBA	Single Fill of Barrow Terminus [226]	1
080	(229)	[230]	GBA	Single Fill of Barrow Segment [230]	1
081	(231)	[232]	GBA	Single Fill of Barrow Segment [232]	1
082	(219)	[220]	GBA	Single Fill of Barrow Segment [220]	1
083	(235)	[236]	GBA	Single Fill of Pit [236]	1

APPENDIX 5

Finds Listing

Context	Material	Description	Area
020	Pottery	1 Rim Sherd	2
022	Pottery	1 Rim Sherd	1
		15 Body Sherds	
	Flint	2 Flint Fragments	
023	Pottery	5 Rim Sherds	1
		18 Body Sherds	
	Pottery (Flot 010)	2 Rim Sherds	
		2 Base Sherds	
	Daub	3 Daub Fragments	
	Flint	2 Flint Fragment	
025	Animal Bone	7 Animal Teeth Fragments	1
027	Pottery	3 Rim Sherd	1
		24 Body Sherds	
029	Pottery	2 Body Sherds	1
031	Pottery	1 Rim Sherd	1
		1 Body Sherd	
	Animal Bone	3 Animal Teeth	
		2 Animal Bone Fragments	
040	Pottery	2 Rim Sherds	1
		3 Body Sherds	
		1 Base Sherd	
044	Pottery	1 Body Sherd	1
		1 Base Sherd	
046	Pottery	1 Rim Sherd	1
		2 Body Sherds	
		1 Base Sherd	
047	Pottery	9 Body Sherds	1
053	Pottery	2 Body Sherds	1

	Animal Bone	1 Animal Tooth	
063	Pottery	11 Body Sherds	1
072	Clay Pipe	1 Clay Pipe Fragment	1
074	Pottery	1 Body Sherd	1
079	Pottery	1 Post-Med Rim Sherd 2 Post-Med Body Sherds?	2
082	Pottery	1 Body Sherd	2
104	Animal Bone	1 Burnt Bone Fragment	2
126	Pottery	1 Body Sherds	2
205	Pottery	3 Rim Sherds 2 Body Sherds	1
	Pottery (Flot 072)	1 Rim Sherd 4 Body Sherds	
207	Pottery	2 Body Sherds	1
212	Pottery	2 Rim Sherds 23 Body Sherds	1
	Animal Bone	3 Animal Teeth	
213	Animal Bone	5 Teeth Fragments 1 Mandible Fragment 28 Animal Bone Fragments	1
215	Pottery Flint	1 Body Sherd 2 Flint Sherds	1
217	Pottery Flint	1 Body Sherd 2 Flint Fragments	1
235	Pottery Flint	1 Body Sherd 9 Flint Fragments	1

Appendix 6

Assessment on the pottery from Portal Avenue

Dr Phil Mills MCIFA (May 2019)

Introduction

There were 164 sherds provided for assessment weighing a total of 1371g, this comprised of 151 body sherds, 1285 g, 10 rims, 3 fragments of burnt clay and a clay pipe stem.

The material was rapidly recorded using the Warwickshire museum/ Oxford archaeology recording system and codes (Booth 2000), with fabrics identified to the Warwickshire fabric classes. Metrics recorded were number of sherds, NoSh, weight in grams, Wt, minimum number of rims, MNR, rim diameter in cm, RD, and rim equivalent, RE. mean sherd weight, MSW, was calculated by NoSh/Wt.

Dating

There was a small component of Middle Iron age tradition material although only on vessel rim was noted from a slack profiles jar with a straight everted rim.

Much of the material was placed in class E and formed a group of sandy wheel made fabrics with a range of typical form types (Thompson 1982 types B1-5 no3 and D1-5 no 3) for this class, nominally dating from AD 1-70

There were two roman grey ware vessels, one which was probably of early Roman date (as Darling and Precious 2014 no 981)

The latest roman piece was an oxidised Swanpool bowl with triangle rim (as Darling and Precious 2014 no 510) of late 3rd century or later date.

Taphonomy

Table 1 shows the break down by context type for pottery recovered, The majority of material is from ditches and gullies which is typical for a rural site. There is a high proportion of material from pits which may relate to light industrial activities on the site.

Table 1 Pottery by Context type

Context Type	NoSh%	Wt%	MNR%	RE%	MSW
Ditch	42.4%	40.0%	40.0%	62.2%	8.03
Gully	21.2%	16.2%	20.0%	11.9%	6.50
Pit	35.1%	43.3%	40.0%	25.9%	10.51
Ring ditch	1.3%	0.5%			3.00
N/AVG	151	1285	10	135	8.51

Supply

Table 2 shows the break down by ware class for the site.

Class C, calcareous tempered pottery is present at 1% and is likely of late Iron age to roman in date.

Class E, fabrics in Aylesford -Swarling tradition are the largest group at 74%. These are wheel made, usually reduced in a sandy fabric and are 1st century in date, probably until c. AD 70.

Class O, oxidised wares are small at 1%

Class P, Iron age tradition handmade wares are present at 15%

Class R, reduced wares are low at 6%, probably down to the early date of much of the pottery deposition.

Class Z post medieval wares at present at 3%.

The full catalogue of material is shown in Table 3

Table 2 break down of assemblage by ware type

Class	Ware Type	NoSh%	Wt%	MNR%	RE%	MSW
C	Shell	1.32%	1.40%	0.00%	0.00%	9.00
E	Aylesford-Swarling	74.17%	76.89%	60.00%	78.52%	8.82
O	Oxidised	0.66%	0.39%	10.00%	2.96%	5.00
P	Prehistoric	15.23%	6.85%	10.00%	1.48%	3.83
R	Reduced	5.96%	7.63%	20.00%	17.04%	10.89
Z	Post-Medieval	2.65%	6.85%	0.00%	0.00%	22.00
N/AVG		151	1285	10	135	8.51

Table 3 The Full Catalogue

Context	Fabric	Part	Function	Confidence	Base	NoSh	Wt	MNR	RE	RD	Date From	Date to	Period	Comments
020	E00	Rim	D			1	11	1	6	17	50	200	LC1-C2	Simple rim dish with double groove
022	E00	Body				15	98	0	0				AD1-70	
022	E00	Rim	J			1	2	1	4	15	1	70		
023	E00	Body				3	13	0	0					
023	E00	Body				1	2	0	0				AD1-70	
023	E00	Body	J			17	76	0	0				AD1-70	
023	E00	Rim	J			5	38	1	49	15	50	70	AD1-70	Darling and Precious no 981
023	E00	Rim	J			4	50	1	20	15	1	100	c1	
027	E00	Body				24	131	0	0				c1	

027	E00	Rim	B			2	56	1	12	27			c1	globular with an everted rim
027	P00	Body				2	1	0	0				c1	
029	P00	Body				2	8	0	0				c1	
031	O00	Rim	B			1	5	1	4	20	266	410	LC3+	Darling and Precious no 510
031	R00	Body				1	7	0	0				Roman	
040	E00	Base			18	1	35	0	0				AD1-70	
040	E00	Body				3	11	0	0				AD1-70	
040	E00	Rim	J			2	40	1	24	13	1	70	AD1-70	Thompson 1983 B1-5 no 3
044	R00	Base			18	1	11	0	0				Roman	
044	R00	Body				1	13	0	0				AD1-70	
046	E00	Base			11	1	19	0	0				AD1-70	
046	E00	Body				2	7	0	0				AD1-70	
046	R00	Rim	J			1	42	1	7	21	50	200	LC1-C2	everted outcurving rim and cordon on neck
047	E00	Body				8	38	0	0				AD1-70	burnished
047	p00	Body				1	8	0	0				LIA	
053	E00	Body				2	44	0	0				AD1-70	
063	P00	Body				14	53	0	0				LIA	
072	Z00	Body				1	1	0	0				Post Med	clay pipe stem
074	P00	Body				1	8	0	0				LIA	
079	Z30	Body		2		3	46	0	0				Post Med	
079	Z30	Body				1	42	0	0				Post Med	
082	E00	Body				1	5	0	0				AD1-70	
126	R00	Body				1	5	0	0				Roman	burnished surfaces
205	C00	Body				1	3	0	0				LIA+	
205	E01	Rim	J			1	12	1	7	15	1	70	AD1-70	everted outcurving thickening rim
205	E21	Body				1	19	0	0				AD1-70	
205	P00	Body				4	10	0	0				LIA	
205	R00	Rim	J			3	12	1	16	15	50	410	Roman	necked with a straight everted tri in section rim
207	P00	Rim	J			2	12	1	2	15			LIA	slack profile everted st rim
212	E00	Base			11	1	62	0	0				AD1-70	
212	E00	Body				23	221	0	0				AD1-70	
212	E00	Rim	B			1	73	1	11	20	1	70	AD1-70	globular body with everted

															stubby rim of Thompson 1982 D3-1 no 5
215	P00	Body				1	5	0	0						LIA
217	P00	Body				1	1	0	0						LIA
235	C00	Body				1	15	0	0						LIA+

Function

Table 6 shows the functional break down of the stratified assemblage. Jars are at 60% by MNR or 76% by RE with bowls and dishes at 50 % (24%). This is perhaps a relatively high number of bowls and dishes for a basic rural site, although the low level of rims from the assemblage is perhaps distorting this figure.

Table 4 functional breakdown of the stratified assemblage

	J	B	D	N
MNR	60.0%	30.0%	10.0%	10 rims
RE	75.6%	20.0%	4.4%	135%

Discussion

This is a group of 1st century material with some middle iron age tradition material (probably contemporary) the bulk of which is unlikely to be deposited after the late 1st century ad there is a small amount of Roman material most of which could be late 1st to 2nd century in date although there is a later 3rd century + Swanpool oxidised dish which suggest any subsequent activity was focused away from the excavated area.

The functional analysis is consistent with a largely rural site, as is the taphonomic profile

Further work

This is a relatively small group but would benefit from a more detailed analysis which should yield information about settlement development and connections to the wider regional economy of the Late Iron Age and Early Roman period.

Updated research question

Date of the site

The pottery will give sound evidence for the chronology of the site

Supply to the site

Analysis of the fabric proportions can give evidence of connections of the site to the wider regional setting

Site status

The taphonomic and functional analysis can give good evidence about site status and how it may change over time.

Methodology

The material will be examined by fabric and form type, following a types series.

Synopsis

Introduction

Dating

Taphonomy

Supply

Functional analysis

Other aspects

Discussion

Appendices: fabric occurrence, form occurrence

Tasks

- | | |
|---|----------|
| a. Fully record the pottery | 1.5 days |
| b. Data cleaning and analysis | 0.5 days |
| c. Draft report* | 1.5 days |
| d. Select and check drawings | 0.5 days |
| • Need site stratigraphy, phasing information for completion of this task | |

Cost

Day rate at £280, cost valid until 31 March 2020

	Time	Amount
a. Fully record the pottery	1.5 days	£420
b. Data cleaning and analysis	0.5 days	£140
c. Draft report	1.5 days	£420
d. Select and check drawings	0.5 days	£120
Total	4 days	£1100

This does not cover cost of transport of material to and from Leicester

Provision should be made for 10 drawings

Bibliography

Booth 2000 The Oxford Archaeology Roman recording system unpublished Oxford archaeology manual

Darling, M. and Precious, P. 2014 **A Corpus of Roman Pottery from Lincoln**, Oxford Oxbow

Thompson. I. 1983 **Grog-tempered 'Belgic' Pottery of South-eastern England**. Oxford: BAR BS 108

Watton.
Sub Site: **Portal Avenue.**

Site Code: **05-13-18.**
County: **Norfolk.**
OS GR: **TF 9332 0053.**

Appendix 7

FLINT ASSESSMENT

by **P. Makey.**

A report prepared for MAP Archaeological Practice Ltd (Last Revision 24/06/19).

The flint has been fully catalogued in MS excel format (appended) and pieces have each been allocated an individual flint catalogue number. The colour of the flints has been recorded using Munsell (1988) nomenclature.

1. Introduction.

The assemblage comprises a total of seventeen struck pieces from three separate features from five separate contexts. Four of the pieces exhibit signs of use wear and one of these (blade, archive record no 6: barrow terminus 218, fill 215) also exhibits traces of micro wear. Most of the flint is in a very fresh state and several of the pieces from the fill (context 235) of a pit (context 236) and almost conjoin. Only one of the pieces is patinated and there are no traces of recent damage. Only four of the pieces are broken and three of these are proximal-distal fragments.

The flint assemblage comprises:-

Artefact	Number	Contexts
Cores	1	Ditch 24 (secondary fill 022)
Core Rejuvenation Flakes	1	Ditch 24 (primary fill 023)
Chippings	1	Pit 236 (single fill 235)
Spalls	1	Pit 236 (single fill 235)
Flakes	7 (3)	Ditch 24 (primary fill 023), Barrow Terminus 218 (fill 215)(1) Pit 236 (single fill 235) x5(2)
Micro Bladelets	1 (1)	Barrow Terminus 218 (fill 217)(1)
Bladelets	3	Ditch 24 (secondary fill 022), Barrow Terminus 218 (fill 217), Pit 236 (single fill 235)
Blades	2	Barrow Terminus 218 (fill 215), Pit 236 (single fill 235)
Total	17 (4)	() = Number broken

2. Raw Material & Reduction Technology.

All the pieces have been struck by the application of hard hammers. Overall the flaking is of a high standard. There are three different colours of flint used in the assemblage; these colours are; olive grey (Munsell 5Y 3/2), light olive grey (5YR 6/1) and pale yellowish brown (10YR 6/2). This represents fourteen, one and two pieces respectively. Five pieces possess small amounts of smooth cortex that is a greyish yellow (5Y 8/4) in colour. The core has a small amount (<5%) of dusky yellow coloured (5Y 6/4) cortex. Over forty one percent (7 pieces) of the flint is un-corticated and comes from late (tertiary) stages of flint knapping. Where present the cortex is limited in extent. The

flint raw material is predominately fine to medium grained and consistent with material from the local Marley drift and Lowestoft till deposits.

3. The Features.

Pit 236.

Single fill 235 contained nine struck pieces; one chipping, one spall, one blade, one bladelet and five flakes (two broken). Barring the chipping (archive record number 17) and the spall (archive record number 14) there is a marked consistency within this assemblage and the pieces almost conjoin / refit. The chipping possesses a very light patination. The spall is a very small (<1cm length) tertiary (un-corticated) flake from final stages of knapping. This assemblage probably represents an in-situ or near in-situ knapping event of a single phase of domestic activity.

Probable date.....Early to Middle Neolithic.

Ditch 024.

Ditch 024 fills contained four pieces from two fills. Primary fill 023 contained a core rejuvenation flake and an irregular flake. Secondary fill 022 contained a four platformed core and a bladelet. The flint core from the secondary fill (context 022) of ditch 024 is a four platformed flake variety that has been heavily battered and worked to exhaustion. The core rejuvenation flake from the primary fill (context 023) of the same feature is a small platform edge removal that is not consistent with the core. The core has traces of four small bladelet (average length 25mm; width 10mm) and squat flake removals (average length 26mm). The core is similar to examples excavated at Hurst Fen, Mildenhall, Suffolk (Clark et al: 1960). The bladelet (archive record number 2) is a double crested example that exhibits very light traces of use wear on its ventral (lower) right and left hand lateral margins. Despite being from the fill of a ditch the flint is in a very fresh state, this might be consistent with the ditch being a short lived feature. This is domestic material consistent with prehistoric occupation activities.

Probable date.....Middle Neolithic to Early Bronze Age.

Barrow Terminus 218.

The South East edge (context 215) contained a broken, irregular flake and a broad single crested blade. The Southern edge (context 217) contained a broken micro-bladelet and a bladelet. This material is slightly different from the material from ditch 024 and pit 236. The broad single crested tertiary blade (archive record number 6) from the South East edge (fill 215) possesses micro wear on its ventral (lower) right hand side that is consistent with cutting meat. Once again despite being from the fill of a barrow ditch the flint is in a very fresh state, this might be consistent with the ditch being a short lived feature. This is domestic material consistent with prehistoric occupation activities.

Probable date.....Early Neolithic to Early Bronze Age.

4. Date of the Material.

There is a high degree of uniformity in the assemblage, suggesting that most of the pieces are of a contemporary or nearly contemporaneous date. The flakes, blade and bladelet from Pit 236 are characteristic of Neolithic assemblages in East Anglia. Barrow Terminus 218 (context 217) contained one atypical piece; a micro-bladelet (archive record number 7) that is found in both Later Mesolithic and a restricted range of Neolithic assemblages. This piece is similar the bladelet from ditch 024 and also resembles the flake scars on the core from this feature. Ditch 024; material is

characteristic of Later Neolithic / Early Bronze Age assemblages. The lithic material probably represents either one or two phases:-

Option one phase 1, Early to Middle Neolithic plus, phase 2, Later Neolithic / Early Bronze Age

Option two all Later Neolithic / Early Bronze Age.

5. Discussion.

Due to the small size of the assemblage it is not possible to make any assumptions about its significance. However, the material is in a better state than one might expect and is of a domestic nature and is consistent with the presence of a prehistoric occupation site. It does not look like a background scatter.

6. Recommendations.

6.1 The material has been catalogued in detail and no further cataloguing is required for this assemblage.

6.2 Drawings.

None of the material warrants illustration at present. This may change if more significant lithic finds are made on the site.

References.

Clark, J.G.D., Higgs, E.S., & Longworth, I.H., 1960.

Excavations at the Neolithic Site at Hurst Fen, Mildenhall, Suffolk.

***Proceedings of the Prehistoric Society* 26: pp. 202-245.**

Munsell Rock-Colour Chart., 1991.

The Geological Society of America. Boulder Colorado, U.S.A. Munsell color.

APPENDIX 7.1
Flint Assessment Table 1

Flint					Phasing	Almost Re-fit	Flint ID	Sub-Type	Crested	Completeness	Damage	State	Use Wear
Rec No	Context	Con Type	Feature / Layer										
1	022	Fill (Secondary)	Ditch 024	Roman	<2	Core	Class C4 (Globular) F&B core		Complete		V Fresh	Bat H	
2	022	Fill (Secondary)	Ditch 024	Roman	>1	Bladelet	Double crested (use wear)	Double	Complete		V Fresh	Light	
3	023	Fill (Primary)	Ditch 024	Roman		Flake	Irregular		Complete		V Fresh		
4	023	Fill (Primary)	Ditch 024	Roman		Core Rej Flake	Plat edge removal.		Complete		V Fresh		
5	215	Fill (Single)	Barrow Terminus 218 SE Edge			Flake / Br	Irregular		Prox / Med		V Fresh		
6	215	Fill (Single)	Barrow Terminus 218 SE Edge			Blade	Single crested, broad	Single	Complete		V Fresh	Mod RHS	
7	217	Fill (Single)	Barrow Terminus 218 S Edge		sim to >2	Micro Bladelet / Br	Single crested	Single	Dist / Med		Fresh		
8	217	Fill (Single)	Barrow Terminus 218 S Edge			Bladelet			Complete		V Fresh	Light RHS	
9	235	Fill (Single)	Pit 236 Central		Sim to 10,11	Flake			Complete		V Fresh		
10	235	Fill (Single)	Pit 236 Central		Sim to 9	Bladelet	Single crested	Single	Complete		V Fresh		
11	235	Fill (Single)	Pit 236 Central		Sim to 9,13: >1	Flake	Broad		Complete		V Fresh		
12	235	Fill (Single)	Pit 236 Central		<11, sim to 13	Flake	Irregular		Complete		V Fresh		
13	235	Fill (Single)	Pit 236 Central		Sim to 11, 12	Flake / Br	Broad		Prox / Med		Fresh		
14	235	Fill (Single)	Pit 236 Central			Spall	V small flake		Complete		V Fresh		
15	235	Fill (Single)	Pit 236 Central		Sim to 16,	Flake / Br	Broad. Single crested	Single	Prox / Med		Mod / Fr		
16	235	Fill (Single)	Pit 236 Central		Sim to 15,	Blade			Complete		Mod / Fr		
17	235	Fill (Single)	Pit 236 Central			Chipping			Complete		Moderate		
Rec No	Context	Con Type	Feature / Layer	Phasing	Re-fit	Flint ID	Sub-Type	Crested	Completeness	Damage	State	Use Wear	

Flint	Use	Micro	Reduction				% Dors	Flint	Flint	Cortex	Cortex	Patina	Weight	Un-det								
Rec No	Context	Location	Wear	P	S	T	ST	Cortex	Colour	Munsell	Colour	Munsell	Patina	Colour	(g)	Length	Width	Thickn's	Hammer	Bulbs	Bulb	Platform
1	022	All over		X				5	Olive Grey	5Y 3/2	Dusky Yellow	5Y 6/4			97.9	59.1	53.3	32.5	Hard	8		CF
2	022	L VT-LS&RS				X			Olive Grey	5Y 3/2					2	34	14	3.8	Hard		Salient	SF
3	023			X				20	Olive Grey	5Y 3/2	Greyish Yellow	5Y 8/4			1.41	16.2	17.3	61	Hard		Salient	CF
4	023			X				40	Olive Grey	5Y 3/2	Greyish Yellow	5Y 8/4			7.25	32.1	24.9	16.2	Hard		Salient	CF
5	215			X				<10	Olive Grey	5Y 3/2	Greyish Yellow	5Y 8/4			0.52	00:12	15.8	2.3	Hard		Salient Scar	CF
6	215	RHS	VT RHS			X			Olive Grey	5Y 3/2					8.29	54	26	8	Hard	1	Salient Scar	Trimmed
7	217						X		L Olive Grey	5Y 6/1					0.19	00:18	6.6	1.7	Hard			
8	217	RHS				X			Olive Grey	5Y 3/2					3.5	35.6	14.6	6.6	Hard		Pronounced	Facetted
9	235					X			Olive Grey	5Y 3/2					4.25	41.7	20.7	5.4	Hard		Salient	Linear
10	235			X				10	Olive Grey	5Y 3/2	Greyish Yellow	5Y 8/4			1	39.2	8.5	3	Hard			CF
11	235			X				<5	Olive Grey	5Y 3/2	Greyish Yellow	5Y 8/4			2.57	21	35	4.9	Hard		Salient	CF
12	235					X			Olive Grey	5Y 3/2					1.13	16.9	23.6	3.46	Hard		Pro Scar	Trimmed
13	235						X		Olive Grey	5Y 3/2					15.9	00:16	173	5	Hard			Dihedral
14	235					X			Olive Grey	5Y 3/2					0.08	12	65	1.6	Hard		Diffuse	
15	235						X		Pale Yell Brown	10YR 6/2					1.62	00:23	24	3.3	Hard			Punctiform
16	235						X		Pale Yell Brown	10YR 6/2					1.03	34	15.6	1.9	Hard		Diffuse	Linear
17	235					X			Olive Grey	5Y 3/2			Light	L Grey	0.9	13.8	12.7	5.3	Hard			

Flint			Raw Mat	Flint	Retouch	DATE / period
Rec No	Context	Termination	Source	Grain	Type	
1	022	F H	Till	Medium		L Neo / EBA
2	022	Feather	Till	Medium		L Neo / EBA
3	023	Platform	Till	Medium		L Neo / EBA
4	023		Till	Very Fine		L Neo / EBA
5	215	Snap	Till	Fine		Neolithic / EBA
6	215	Feather	Till	Very Fine		Neolithic
7	217	Feather	Till	Fine		L Meso / L Neo / EBA
8	217	Feather	Till	Fine		Neolithic
9	235	Hinged	Till	Fine		Neolithic
10	235	Feather	Till	Fine		Neolithic
11	235	Feather	Till	Fine		Neolithic
12	235	Feather	Till	Fne		Neolithic
13	235	Snap	Till	Medium		Neolithic
14	235	Feather	Till	Fine		Any
15	235	Snap	Till	Fine / Med		Neolithic
16	235	Feather	Till	Fine / Med		Neolithic
17	235		Till	Medium		Any
Rec No	Context	Termination	Source	Grain	Type	DATE / period

Flint			Draw
Rec No	Context	NOTES	Draw
1	022	Globular multi platformed core 11 rems = 4 blade, 7 flake. Av blade = L 25 W 10. Av Flake = L 26 W 24. Fine, heavily battered .	?
2	022	Bladelet almost conjoins the core (archive rec no 1); probably from the core. Very slight traces of edge use. Double crested.	?
3	023		
4	023	Plunging pebble core rejuvenation flake, struck from side of plat. Five rems; squat flakes. Av L = 26 W = 6.5. Fine edge trimming. Not from same core as rec 1.	
5	215		
6	215	Broad blade. Single crested with dorsal hinge. Microwear; possible meat cutting.	?
7	217	Single crested micro bladeler fragment. Would fit well with bladelet (archive record 2).	
8	217	Struck from a tabular core; LHS has a straight facet. Looks a bit like a flake from an axe.	
9	235		
10	235	Plunging pladelet with L shaped proximal.	
11	235		
12	235		
13	235		
14	235	Spalling.	
15	235		
16	235		
17	235	Chipping.	
Rec No	Context	NOTES	Draw

Appendix 8

05.13.18

Animal bone by Jane Richardson

Animal bone were recovered from hand-excavated deposits and are listed by context in Table 1. Unfortunately the small assemblage was highly fragmented and heavily eroded. As a result, very few fragments were identified to taxa. Only cattle and sheep/goat are represented, both by tooth fragments which likely represent the poor state of preservation. Given its size and condition, this assemblage is limited in its scope. It is recommended that it is retained as part of the site archive, but no further analysis is required.

Table 1. Animal bone by context

Context	Description	Quantity
025	Cattle tooth fragments	5
031	Large mammal long bone fragments. Cattle tooth fragment, sheep/goat third molar (wear stage g)	5
053	Cattle tooth	1
104	Large mammal long bone fragment (cremated)	1
212	Cattle tooth fragments	3
213	Large mammal long bone fragments. Cattle mandible fragments and loose teeth	25

Appendix 9

Portal Avenue, Watton, Norfolk MAP 05-13-18

Carbonised Plant Macrofossils and Charcoal

Diane Alldritt

1: Introduction

Fifty one environmental sample flots taken during archaeological evaluation work in advance of residential development on the site of the former RAF Officers Mess at Portal Avenue, Watton, Norfolk (MAP 05-13-18), were examined for carbonised plant macrofossils and charcoal. Samples were taken from a series of pit features, a ring gully structure and a number of ditch fills.

2: Methodology

The bulk environmental samples were processed by MAP Archaeological Practice Ltd. using a Siraf style water flotation system (French 1971). The samples varied from 10 to 60litres in volume. The flots were dried before examination under a low power binocular microscope typically at x10 magnification. All identified plant remains including charcoal were removed and bagged separately by type.

Wood charcoal was examined using a high powered Vickers M10 metallurgical microscope at magnifications up to x200. The reference photographs of Schweingruber (1990) were consulted for charcoal identification. Plant nomenclature utilised in the text follows Stace (1997) for all vascular plants apart from cereals, which follow Zohary and Hopf (2000).

3: Results

The environmental samples produced small to moderate amounts of carbonised plant remains from <2.5ml up to 30ml in volume, with the larger concentrations recovered from the pit features, whilst the gully, ditch and other deposits generally had less. Modern remains were present in amounts <2.5ml consisting of occasional earthworm egg capsules and a few traces of modern root detritus suggesting a fairly low degree of bioturbation occurring.

Results are given in table 1 and discussed below.

4: Discussion

Pit Features

Twenty eight samples were examined from pit features excavated at the site with some large concentrations of charcoal and hazel nutshell recorded.

Pit features [008] (007), [010] (009), [017] (016), [206] (205) and [214] fills (213) and (212), contained large caches of *Quercus* (oak) charcoal in fragment sizes 0.5cm up to 3.0cm in amongst smaller crushed charred detritus. These were probably quite substantial fire pits with material burnt in situ and could be early Prehistoric in date. All the oak charcoal was heavily concreted with iron pan probably from poor soil conditions. Smaller volumes of oak charcoal were recorded in pits [019] (018), [105] (104), [149] (148), [153] (152), [155] (154), [159] (158), [196] (195) and [208] (207), suggesting burning activity was also taking place in these features although perhaps to a lesser degree of intensity.

Three of the pits examined, [062] (061), [065] fills (063) and (064), and [071] (070) produced concentrated deposits of *Corylus avellana* (hazel) nutshell, with upper fill (063) from pit [065] containing the largest amount. These deposits are probably remains from processing of hazel nuts for food, possibly fairly early Prehistoric in date, and could be

radiocarbon dated if required. The hazel nutshell was generally in good condition with fragment sizes 0.5cm to 1.0cm and very little abrasion present.

Three of the pits were probably from a different phase of activity and produced varied charcoal types and small amounts of cereal grain. Central pit [236] (235) contained a small concentration of carbonised cereal grain with all identified as *Triticum dicoccum* (emmer wheat) in good condition, together with a single 1.0cm fragment of hazel nutshell. This feature was perhaps a central hearth or cooking pit. Pit [045] (044) contained Maloideae charcoal and a very well preserved grain of *Hordeum vulgare* var. *vulgare* (six row hulled barley). Pit [073] (072) contained a single 1.0cm fragment of *Betula* (birch) charcoal suggesting a low degree of burning or waste deposition taking place here. These deposits are possibly related to a later Prehistoric, perhaps more permanent domestic phase of activity at the site.

Trace charred detritus was present in pit features [021] (020), [038] (037), [054] (053), [067] (066), [069] (068), [075] (074), [198] (197), with nothing identifiable.

Ditch and Gully Features

Twenty three samples taken from ditch, gully and ring gully deposits produced small trace volumes of charred remains suggesting general wind-blown or trampled / swept material from nearby burning activity.

The first fill of ditch [024] (023) contained a small cache of hazel nutshell, perhaps a discrete deposit of hearth waste, whilst second fill (022) contained only a single degraded indeterminate cereal grain, probably intrusive. Ditch [048] (046) had a deposit of oak charcoal fragments 1.0cm to 1.5cm in size, probably a fuel waste dump from burning occurring nearby. A single trace fragment of oak was found in ditch [112] (111), whilst a large 2.0cm chunk of Maloideae (apple / hawthorn / whitebeams) type charcoal was perhaps a chance inclusion in ditch [120] (119).

Gully [015] (014) contained a few small fragments of oak charcoal and a single 1.0cm fragment of hazel nutshell in good condition, and this could be radiocarbon dated if required. Gully [026] (025) also contained a few fragments of degraded oak charcoal. The re-cut of gully [030] (029) had a rubbed and degraded *Hordeum vulgare* sl. (barley) and a few fragments of clinker mixed through. Gully [145] (144) had trapped a few fragments of oak charcoal.

Gully features [006] (005), [028] (027), [050] (049), [187] (185), [230] (229), [232] (231), ring gully segments [090] (089), [218] (217) and ditch features [041] (040), [048] (044), [078] (076), [083] (082), [118] (117), [125] (124), produced highly crushed trace charred detritus with nothing identifiable. These features were probably at the periphery of any major burning activity or were deliberately kept clean.

5: Conclusion

The environmental samples produced a number of concentrated deposits of carbonised plant remains and charcoal, consisting of large caches of oak charcoal recovered from pit features [010] (009), [017] (016) and [214] (213), with significant amounts of hazel nutshell from pits [062] (061), [065] (063) and (064) and [071] (070). Small volumes of cereal grain and hazel nutshell were recorded from central pit [236] (235). The ditch and gully deposits generally contained fewer remains with trace charred detritus and occasional identifiable fragments of oak charcoal and cereal grain present.

At least two phases of activity are suggested by the remains recorded from the pit features, with the oak charcoal rich fire pits [010], [017] and [214], together with the substantial deposits of carbonised hazel nutshell recorded from pit [065] and to a lesser extent [062] and [071] indicating a probably early Prehistoric, perhaps Neolithic date for some of the activity. In contrast finds of birch and Maloideae type charcoal together with wheat and barley cereal grain from some of the other pit features, in particular the emmer wheat from central pit [236], suggested a possibly later phase of domestic activity taking

place at the site. Material suitable for radiocarbon dating has been obtained from a number of samples.

Further excavation work in the area has a good potential to continue to produce well-preserved carbonised remains.

References

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Zohary, D. and Hopf, M. 2000 *Domestication of Plants in the Old World*. 3rd Edition Oxford University Press.

APPENDIX 9.1

Table 1															
Portal Avenue, Watton	Sample	1	2	3	4	5	6	8	9	10	11	12	13	15	16
MAP 05-13-18	Context	5	7	9	16	20	18	14	22	23	25	27	29	37	40
	Feature	gully [006]	pit [008]	pit [010]	pit [017]	pit [021]	pit [019]	gully [015]	ditch [024]	ditch [024]	gully [026]	gully [028]	gully recut [030]	pit [038]	ditch [041]
	Sample Volume (litres)	20	20	20	20	10	20	10	10	20	10	20	10	20	20
	Total CV	<2.5ml	5ml	15ml	25ml	<2.5ml	5ml	5ml	<2.5ml	5ml	10ml	<2.5ml	<2.5ml	<2.5ml	2.5ml
	Modern	0	0	<2.5ml	<2.5ml	<2.5ml	0	0	0	<2.5ml	<2.5ml	0	<2.5ml	<2.5ml	0
Carbonised Cereal Grain		Common Name													
<i>Triticum</i> sp.	wheat														
<i>Triticum dicoccum</i>	emmer wheat														
<i>Hordeum vulgare</i> var. <i>vulgare</i>	six row hulled barley														
<i>Hordeum vulgare</i> sl.	barley													1	
Indeterminate cereal grain (+embryo)									1						
Charcoal															
<i>Quercus</i>	oak		4 (0.71g)	8 (3.01g)	5 (3.84g)		3 (0.55g)	2 (0.41g)				2 (1.17g)			
<i>Betula</i>	birch														
Maloideae	apple/hawthorn/whitebeams														
Carbonised Wild Resources															
<i>Corylus avellana</i>	nutshell							1 (0.04g)		3 (0.09g)					
Other Remains															
Clinker						1			1					2	2
Coal												1			
Pottery fragments															1 (4.05g)
Slag															
Concreted dry turf / peat															
Earthworm egg capsules											1				

APPENDIX 9.1																
Table 1																
Portal Avenue, Watton	Sample	1	2	3	4	5	6	8	9	10	11	12	13	15	16	17
MAP 05-13-18	Context	5	7	9	16	20	18	14	22	23	25	27	29	37	40	44
	Feature	gully [006]	pit [008]	pit [010]	pit [017]	pit [021]	pit [019]	gully [015]	ditch [024]	ditch [024]	gully [026]	gully [028]	gully recut [030]	pit [038]	ditch [041]	pit [045]
	Sample Volume (litres)	20	20	20	20	10	20	10	10	20	10	20	10	20	20	20
	Total CV	<2.5ml	5ml	15ml	25ml	<2.5ml	5ml	5ml	<2.5ml	5ml	10ml	<2.5ml	<2.5ml	<2.5ml	2.5ml	5ml
	Modern	0	0	<2.5ml	<2.5ml	<2.5ml	0	0	0	<2.5ml	<2.5ml	0	<2.5ml	<2.5ml	0	<2.5ml
Carbonised Cereal Grain	Common Name															
<i>Triticum</i> sp.	wheat															
<i>Triticum dicoccum</i>	emmer wheat															
<i>Hordeum vulgare</i> var. <i>vulgare</i>	six row hulled barley															1
<i>Hordeum vulgare</i> sl.	barley												1			
Indeterminate cereal grain (+embryo)									1							
Charcoal																
<i>Quercus</i>	oak	4 (0.71g)	8 (3.01g)	5 (3.84g)		3 (0.55g)	2 (0.41g)				2 (1.17g)					
<i>Betula</i>	birch															
Maloideae	apple/hawthorn/whitebeams															1 (0.16g)
Carbonised Wild Resources																
<i>Corylus avellana</i> nutshell	hazel nutshell						1 (0.04g)			3 (0.09g)						
Other Remains																
Clinker						1			1				2	2		
Coal												1				
Pottery fragments															1 (4.05g)	
Slag																
Concreted dry turf / peat																
Earthworm egg capsules											1					

APPENDIX 9.1

Table 1																
Portal Avenue, Watton	Sample	1	2	3	4	5	6	8	9	10	11	12	13	15	16	18
MAP 05-13-18	Context	5	7	9	16	20	18	14	22	23	25	27	29	37	40	46
	Feature	gully [006]	pit [008]	pit [010]	pit [017]	pit [021]	pit [019]	gully [015]	ditch [024]	ditch [024]	gully [026]	gully [028]	gully recut [030]	pit [038]	ditch [041]	ditch [048]
	Sample Volume (litres)	20	20	20	20	10	20	10	10	20	10	20	10	20	20	10
	Total CV	<2.5ml	5ml	15ml	25ml	<2.5ml	5ml	5ml	<2.5ml	5ml	10ml	<2.5ml	<2.5ml	<2.5ml	2.5ml	20ml
	Modern	0	0	<2.5ml	<2.5ml	<2.5ml	0	0	0	<2.5ml	<2.5ml	0	<2.5ml	<2.5ml	0	<2.5ml
Carbonised Cereal Grain	Common Name															
<i>Triticum</i> sp.	wheat															
<i>Triticum dicoccum</i>	emmer wheat															
<i>Hordeum vulgare</i> var. <i>vulgare</i>	six row hulled barley															
<i>Hordeum vulgare</i> sl.	barley													1		
Indeterminate cereal grain (+embryo)									1							
Charcoal																
<i>Quercus</i>	oak	4 (0.71g)	8 (3.01g)	5 (3.84g)		3 (0.55g)	2 (0.41g)				2 (1.17g)					10 (1.46g)
<i>Betula</i>	birch															
Maloideae	apple/hawthorn/whitebeams															
Carbonised Wild Resources																
<i>Corylus avellana</i> nutshell	hazel nutshell							1 (0.04g)		3 (0.09g)						
Other Remains																
Clinker						1			1					2	2	
Coal												1				
Pottery fragments															1 (4.05g)	
Slag																
Concreted dry turf / peat																
Earthworm egg capsules											1					

APPENDIX 9.1																
Table 1																
Portal Avenue, Watton	Sample	1	2	3	4	5	6	8	9	10	11	12	13	15	16	19
MAP 05-13-18	Context	5	7	9	16	20	18	14	22	23	25	27	29	37	40	44
	Feature	gully [006]	pit [008]	pit [010]	pit [017]	pit [021]	pit [019]	gully [015]	ditch [024]	ditch [024]	gully [026]	gully [028]	gully recut [030]	pit [038]	ditch [041]	ditch [048]
	Sample Volume (litres)	20	20	20	20	10	20	10	10	20	10	20	10	20	20	10
	Total CV	<2.5ml	5ml	15ml	25ml	<2.5ml	5ml	5ml	<2.5ml	5ml	10ml	<2.5ml	<2.5ml	<2.5ml	2.5ml	<2.5ml
	Modern	0	0	<2.5ml	<2.5ml	<2.5ml	0	0	0	<2.5ml	<2.5ml	0	<2.5ml	<2.5ml	0	<2.5ml
Carbonised Cereal Grain		Common Name														
	<i>Triticum</i> sp.	wheat														
	<i>Triticum dicoccum</i>	emmer wheat														
	<i>Hordeum vulgare</i> var. <i>vulgare</i>	six row hulled barley														
	<i>Hordeum vulgare</i> sl.	barley												1		
	Indeterminate cereal grain (+embryo)								1							
Charcoal																
	<i>Quercus</i>	oak	4 (0.71g)	8 (3.01g)	5 (3.84g)		3 (0.55g)	2 (0.41g)					2 (1.17g)			
	<i>Betula</i>	birch														
	Maloideae	apple/hawthorn/whitebeams														
Carbonised Wild Resources																
	<i>Corylus avellana</i> nutshell	hazel nutshell						1 (0.04g)		3 (0.09g)						
Other Remains																
	Clinker					1			1					2	2	
	Coal											1				
	Pottery fragments														1 (4.05g)	
	Slag															
	Concreted dry turf / peat															
	Earthworm egg capsules										1					

APPENDIX 9.1																
Table 1																
Portal Avenue, Watton	Sample	1	2	3	4	5	6	8	9	10	11	12	13	15	16	20
MAP 05-13-18	Context	5	7	9	16	20	18	14	22	23	25	27	29	37	40	49
	Feature	gully [006]	pit [008]	pit [010]	pit [017]	pit [021]	pit [019]	gully [015]	ditch [024]	ditch [024]	gully [026]	gully [028]	gully recut [030]	pit [038]	ditch [041]	gully [050]
	Sample Volume (litres)	20	20	20	20	10	20	10	10	20	10	20	10	20	20	10
	Total CV	<2.5ml	5ml	15ml	25ml	<2.5ml	5ml	5ml	<2.5ml	5ml	10ml	<2.5ml	<2.5ml	<2.5ml	2.5ml	2.5ml
	Modern	0	0	<2.5ml	<2.5ml	<2.5ml	0	0	0	<2.5ml	<2.5ml	0	<2.5ml	<2.5ml	0	<2.5ml
Carbonised Cereal Grain	Common Name															
<i>Triticum</i> sp.	wheat															
<i>Triticum dicoccum</i>	emmer wheat															
<i>Hordeum vulgare</i> var. <i>vulgare</i>	six row hulled barley															
<i>Hordeum vulgare</i> sl.	barley												1			
Indeterminate cereal grain (+embryo)									1							
Charcoal																
<i>Quercus</i>	oak		4 (0.71g)	8 (3.01g)	5 (3.84g)		3 (0.55g)	2 (0.41g)				2 (1.17g)				
<i>Betula</i>	birch															
Maloideae	apple/hawthorn/whitebeams															
Carbonised Wild Resources																
<i>Corylus avellana</i> nutshell	hazel nutshell							1 (0.04g)		3 (0.09g)						
Other Remains																
Clinker						1			1				2	2		5+
Coal												1				
Pottery fragments															1 (4.05g)	
Slag																
Concreted dry turf / peat																
Earthworm egg capsules											1					

APPENDIX 9.1																
Table 1																
Portal Avenue, Watton	Sample	1	2	3	4	5	6	8	9	10	11	12	13	15	16	21
MAP 05-13-18	Context	5	7	9	16	20	18	14	22	23	25	27	29	37	40	61
	Feature	gully [006]	pit [008]	pit [010]	pit [017]	pit [021]	pit [019]	gully [015]	ditch [024]	ditch [024]	gully [026]	gully [028]	gully recut [030]	pit [038]	ditch [041]	pit [062]
	Sample Volume (litres)	20	20	20	20	10	20	10	10	20	10	20	10	20	20	10
	Total CV	<2.5ml	5ml	15ml	25ml	<2.5ml	5ml	5ml	<2.5ml	5ml	10ml	<2.5ml	<2.5ml	<2.5ml	2.5ml	2.5ml
	Modern	0	0	<2.5ml	<2.5ml	<2.5ml	0	0	0	<2.5ml	<2.5ml	0	<2.5ml	<2.5ml	0	0
Carbonised Cereal Grain	Common Name															
<i>Triticum</i> sp.	wheat															
<i>Triticum dicoccum</i>	emmer wheat															
<i>Hordeum vulgare</i> var. <i>vulgare</i>	six row hulled barley															
<i>Hordeum vulgare</i> sl.	barley												1			
Indeterminate cereal grain (+embryo)									1							
Charcoal																
<i>Quercus</i>	oak		4 (0.71g)	8 (3.01g)	5 (3.84g)		3 (0.55g)	2 (0.41g)				2 (1.17g)				
<i>Betula</i>	birch															
Maloideae	apple/hawthorn/whitebeams															
Carbonised Wild Resources																
<i>Corylus avellana</i> nutshell	hazel nutshell							1 (0.04g)		3 (0.09g)						5 (0.15g)
Other Remains																
Clinker						1			1				2	2		
Coal												1				1
Pottery fragments															1 (4.05g)	
Slag																
Concreted dry turf / peat																
Earthworm egg capsules											1					

APPENDIX 9.1																
Table 1																
Portal Avenue, Watton	Sample	1	2	3	4	5	6	8	9	10	11	12	13	15	16	22
MAP 05-13-18	Context	5	7	9	16	20	18	14	22	23	25	27	29	37	40	63
	Feature	gully [006]	pit [008]	pit [010]	pit [017]	pit [021]	pit [019]	gully [015]	ditch [024]	ditch [024]	gully [026]	gully [028]	gully recut [030]	pit [038]	ditch [041]	pit [065]
	Sample Volume (litres)	20	20	20	20	10	20	10	10	20	10	20	10	20	20	10
	Total CV	<2.5ml	5ml	15ml	25ml	<2.5ml	5ml	5ml	<2.5ml	5ml	10ml	<2.5ml	<2.5ml	<2.5ml	2.5ml	15ml
	Modern	0	0	<2.5ml	<2.5ml	<2.5ml	0	0	0	<2.5ml	<2.5ml	0	<2.5ml	<2.5ml	0	<2.5ml
Carbonised Cereal Grain		Common Name														
	<i>Triticum</i> sp.															1
	<i>Triticum dicoccum</i>															
	<i>Hordeum vulgare</i> var. <i>vulgare</i>															
	<i>Hordeum vulgare</i> sl.												1			
	Indeterminate cereal grain (+embryo)								1							
Charcoal																
	<i>Quercus</i>		4 (0.71g)	8 (3.01g)	5 (3.84g)		3 (0.55g)	2 (0.41g)				2 (1.17g)				
	<i>Betula</i>															
	Maloideae															
Carbonised Wild Resources																
	<i>Corylus avellana</i> nutshell								1 (0.04g)		3 (0.09g)					66 (1.89g)
Other Remains																
	Clinker					1			1				2	2		
	Coal											1				
	Pottery fragments														1 (4.05g)	
	Slag															
	Concreted dry turf / peat															
	Earthworm egg capsules										1					

APPENDIX 9.1

Table 1																
Portal Avenue, Watton	Sample	1	2	3	4	5	6	8	9	10	11	12	13	15	16	23
MAP 05-13-18	Context	5	7	9	16	20	18	14	22	23	25	27	29	37	40	64
	Feature	gully [006]	pit [008]	pit [010]	pit [017]	pit [021]	pit [019]	gully [015]	ditch [024]	ditch [024]	gully [026]	gully [028]	gully recut [030]	pit [038]	ditch [041]	pit [065]
	Sample Volume (litres)	20	20	20	20	10	20	10	10	20	10	20	10	20	20	10
	Total CV	<2.5ml	5ml	15ml	25ml	<2.5ml	5ml	5ml	<2.5ml	5ml	10ml	<2.5ml	<2.5ml	<2.5ml	2.5ml	5ml
	Modern	0	0	<2.5ml	<2.5ml	<2.5ml	0	0	0	<2.5ml	<2.5ml	0	<2.5ml	<2.5ml	0	0
Carbonised Cereal Grain	Common Name															
<i>Triticum</i> sp.	wheat															
<i>Triticum dicoccum</i>	emmer wheat															
<i>Hordeum vulgare</i> var. <i>vulgare</i>	six row hulled barley															
<i>Hordeum vulgare</i> sl.	barley													1		
Indeterminate cereal grain (+embryo)									1							
Charcoal																
<i>Quercus</i>	oak		4 (0.71g)	8 (3.01g)	5 (3.84g)		3 (0.55g)	2 (0.41g)				2 (1.17g)				
<i>Betula</i>	birch															
Maloideae	apple/hawthorn/whitebeams															
Carbonised Wild Resources																
<i>Corylus avellana</i> nutshell	hazel nutshell							1 (0.04g)		3 (0.09g)						20 (0.82g)
Other Remains																
Clinker						1			1					2	2	
Coal												1				
Pottery fragments															1 (4.05g)	
Slag																
Concreted dry turf / peat																
Earthworm egg capsules											1					

APPENDIX 9.1																
Table 1																
Portal Avenue, Watton	Sample	1	2	3	4	5	6	8	9	10	11	12	13	15	16	24
MAP 05-13-18	Context	5	7	9	16	20	18	14	22	23	25	27	29	37	40	53
	Feature	gully [006]	pit [008]	pit [010]	pit [017]	pit [021]	pit [019]	gully [015]	ditch [024]	ditch [024]	gully [026]	gully [028]	gully recut [030]	pit [038]	ditch [041]	pit [054]
	Sample Volume (litres)	20	20	20	20	10	20	10	10	20	10	20	10	20	20	20
	Total CV	<2.5ml	5ml	15ml	25ml	<2.5ml	5ml	5ml	<2.5ml	5ml	10ml	<2.5ml	<2.5ml	<2.5ml	2.5ml	2.5ml
	Modern	0	0	<2.5ml	<2.5ml	<2.5ml	0	0	0	<2.5ml	<2.5ml	0	<2.5ml	<2.5ml	0	<2.5ml
Carbonised Cereal Grain		Common Name														
	<i>Triticum</i> sp.	wheat														
	<i>Triticum dicoccum</i>	emmer wheat														
	<i>Hordeum vulgare</i> var. <i>vulgare</i>	six row hulled barley														
	<i>Hordeum vulgare</i> sl.	barley												1		
	Indeterminate cereal grain (+embryo)								1							
Charcoal																
	<i>Quercus</i>	oak	4 (0.71g)	8 (3.01g)	5 (3.84g)		3 (0.55g)	2 (0.41g)					2 (1.17g)			
	<i>Betula</i>	birch														
	Maloideae	apple/hawthorn/whitebeams														
Carbonised Wild Resources																
	<i>Corylus avellana</i> nutshell	hazel nutshell						1 (0.04g)		3 (0.09g)						
Other Remains																
	Clinker					1			1					2	2	
	Coal											1				2
	Pottery fragments														1 (4.05g)	1 (2.05g)
	Slag															
	Concreted dry turf / peat															
	Earthworm egg capsules										1					

APPENDIX 9.1																
Table 1																
Portal Avenue, Watton	Sample	1	2	3	4	5	6	8	9	10	11	12	13	15	16	25
MAP 05-13-18	Context	5	7	9	16	20	18	14	22	23	25	27	29	37	40	66
	Feature	gully [006]	pit [008]	pit [010]	pit [017]	pit [021]	pit [019]	gully [015]	ditch [024]	ditch [024]	gully [026]	gully [028]	gully recut [030]	pit [038]	ditch [041]	pit [067]
	Sample Volume (litres)	20	20	20	20	10	20	10	10	20	10	20	10	20	20	20
	Total CV	<2.5ml	5ml	15ml	25ml	<2.5ml	5ml	5ml	<2.5ml	5ml	10ml	<2.5ml	<2.5ml	<2.5ml	2.5ml	<2.5ml
	Modern	0	0	<2.5ml	<2.5ml	<2.5ml	0	0	0	<2.5ml	<2.5ml	0	<2.5ml	<2.5ml	0	0
Carbonised Cereal Grain		Common Name														
	<i>Triticum</i> sp.	wheat														
	<i>Triticum dicoccum</i>	emmer wheat														
	<i>Hordeum vulgare</i> var. <i>vulgare</i>	six row hulled barley														
	<i>Hordeum vulgare</i> sl.	barley														
	Indeterminate cereal grain (+embryo)															
	Charcoal															
	<i>Quercus</i>	4 (0.71g)		8 (3.01g)		5 (3.84g)		3 (0.55g)		2 (0.41g)		2 (1.17g)				
	<i>Betula</i>	birch														
	Maloideae	apple/hawthorn/whitebeams														
	Carbonised Wild Resources															
	<i>Corylus avellana</i> nutshell	hazel nutshell														
	Other Remains															
	Clinker															
	Coal															
	Pottery fragments															
	Slag															
	Concreted dry turf / peat															
	Earthworm egg capsules															

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Table 1																
Portal Avenue, Watton	Sample	1	2	3	4	5	6	8	9	10	11	12	13	15	16	26
MAP 05-13-18	Context	5	7	9	16	20	18	14	22	23	25	27	29	37	40	68
	Feature	gully [006]	pit [008]	pit [010]	pit [017]	pit [021]	pit [019]	gully [015]	ditch [024]	ditch [024]	gully [026]	gully [028]	gully recut [030]	pit [038]	ditch [041]	pit [069]
	Sample Volume (litres)	20	20	20	20	10	20	10	10	20	10	20	10	20	20	20
	Total CV	<2.5ml	5ml	15ml	25ml	<2.5ml	5ml	5ml	<2.5ml	5ml	10ml	<2.5ml	<2.5ml	<2.5ml	2.5ml	<2.5ml
	Modern	0	0	<2.5ml	<2.5ml	<2.5ml	0	0	0	<2.5ml	<2.5ml	0	<2.5ml	<2.5ml	0	0
Carbonised Cereal Grain	Common Name															
<i>Triticum</i> sp.	wheat															
<i>Triticum dicoccum</i>	emmer wheat															
<i>Hordeum vulgare</i> var. <i>vulgare</i>	six row hulled barley															
<i>Hordeum vulgare</i> sl.	barley												1			
Indeterminate cereal grain (+embryo)									1							
Charcoal																
<i>Quercus</i>	oak	4 (0.71g)	8 (3.01g)	5 (3.84g)		3 (0.55g)	2 (0.41g)				2 (1.17g)					
<i>Betula</i>	birch															
Maloideae	apple/hawthorn/whitebeams															
Carbonised Wild Resources																
<i>Corylus avellana</i> nutshell	hazel nutshell							1 (0.04g)		3 (0.09g)						
Other Remains																
Clinker						1			1				2	2		
Coal												1				
Pottery fragments															1 (4.05g)	
Slag																
Concreted dry turf / peat																
Earthworm egg capsules											1					

APPENDIX 9.1																
Table 1																
Portal Avenue, Watton	Sample	1	2	3	4	5	6	8	9	10	11	12	13	15	16	27
MAP 05-13-18	Context	5	7	9	16	20	18	14	22	23	25	27	29	37	40	70
	Feature	gully [006]	pit [008]	pit [010]	pit [017]	pit [021]	pit [019]	gully [015]	ditch [024]	ditch [024]	gully [026]	gully [028]	gully recut [030]	pit [038]	ditch [041]	pit [071]
	Sample Volume (litres)	20	20	20	20	10	20	10	10	20	10	20	10	20	20	20
	Total CV	<2.5ml	5ml	15ml	25ml	<2.5ml	5ml	5ml	<2.5ml	5ml	10ml	<2.5ml	<2.5ml	<2.5ml	2.5ml	<2.5ml
	Modern	0	0	<2.5ml	<2.5ml	<2.5ml	0	0	0	<2.5ml	<2.5ml	0	<2.5ml	<2.5ml	0	<2.5ml
Carbonised Cereal Grain		Common Name														
	<i>Triticum</i> sp.	wheat														
	<i>Triticum dicoccum</i>	emmer wheat														
	<i>Hordeum vulgare</i> var. <i>vulgare</i>	six row hulled barley														
	<i>Hordeum vulgare</i> sl.	barley												1		
	Indeterminate cereal grain (+embryo)								1							
Charcoal																
	<i>Quercus</i>	oak	4 (0.71g)	8 (3.01g)	5 (3.84g)		3 (0.55g)	2 (0.41g)				2 (1.17g)				
	<i>Betula</i>	birch														
	Maloideae	apple/hawthorn/whitebeams														
Carbonised Wild Resources																
	<i>Corylus avellana</i> nutshell	hazel nutshell						1 (0.04g)		3 (0.09g)						4 (0.08g)
Other Remains																
	Clinker					1			1				2	2		
	Coal											1				2
	Pottery fragments														1 (4.05g)	
	Slag															
	Concreted dry turf / peat															
	Earthworm egg capsules										1					

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Table 1																
Portal Avenue, Watton	Sample	1	2	3	4	5	6	8	9	10	11	12	13	15	16	28
MAP 05-13-18	Context	5	7	9	16	20	18	14	22	23	25	27	29	37	40	72
	Feature	gully [006]	pit [008]	pit [010]	pit [017]	pit [021]	pit [019]	gully [015]	ditch [024]	ditch [024]	gully [026]	gully [028]	gully recut [030]	pit [038]	ditch [041]	pit [073]
	Sample Volume (litres)	20	20	20	20	10	20	10	10	20	10	20	10	20	20	20
	Total CV	<2.5ml	5ml	15ml	25ml	<2.5ml	5ml	5ml	<2.5ml	5ml	10ml	<2.5ml	<2.5ml	<2.5ml	2.5ml	2.5ml
	Modern	0	0	<2.5ml	<2.5ml	<2.5ml	0	0	0	<2.5ml	<2.5ml	0	<2.5ml	<2.5ml	0	<2.5ml
Carbonised Cereal Grain	Common Name															
<i>Triticum</i> sp.	wheat															
<i>Triticum dicoccum</i>	emmer wheat															
<i>Hordeum vulgare</i> var. <i>vulgare</i>	six row hulled barley															
<i>Hordeum vulgare</i> sl.	barley													1		
Indeterminate cereal grain (+embryo)									1							
Charcoal																
<i>Quercus</i>	oak	4 (0.71g)	8 (3.01g)	5 (3.84g)		3 (0.55g)	2 (0.41g)				2 (1.17g)					
<i>Betula</i>	birch															1 (0.09g)
Maloideae	apple/hawthorn/whitebeams															
Carbonised Wild Resources																
<i>Corylus avellana</i> nutshell	hazel nutshell							1 (0.04g)		3 (0.09g)						
Other Remains																
Clinker						1			1					2	2	
Coal												1				1
Pottery fragments															1 (4.05g)	
Slag																
Concreted dry turf / peat																
Earthworm egg capsules											1					

APPENDIX 9.1																
Table 1																
Portal Avenue, Watton	Sample	1	2	3	4	5	6	8	9	10	11	12	13	15	16	29
MAP 05-13-18	Context	5	7	9	16	20	18	14	22	23	25	27	29	37	40	74
	Feature	gully [006]	pit [008]	pit [010]	pit [017]	pit [021]	pit [019]	gully [015]	ditch [024]	ditch [024]	gully [026]	gully [028]	gully recut [030]	pit [038]	ditch [041]	pit [075]
	Sample Volume (litres)	20	20	20	20	10	20	10	10	20	10	20	10	20	20	20
	Total CV	<2.5ml	5ml	15ml	25ml	<2.5ml	5ml	5ml	<2.5ml	5ml	10ml	<2.5ml	<2.5ml	<2.5ml	2.5ml	<2.5ml
	Modern	0	0	<2.5ml	<2.5ml	<2.5ml	0	0	0	<2.5ml	<2.5ml	0	<2.5ml	<2.5ml	0	<2.5ml
Carbonised Cereal Grain		Common Name														
<i>Triticum</i> sp.	wheat															
<i>Triticum dicoccum</i>	emmer wheat															
<i>Hordeum vulgare</i> var. <i>vulgare</i>	six row hulled barley															
<i>Hordeum vulgare</i> sl.	barley													1		
Indeterminate cereal grain (+embryo)									1							
Charcoal																
<i>Quercus</i>	oak	4 (0.71g)	8 (3.01g)	5 (3.84g)		3 (0.55g)	2 (0.41g)				2 (1.17g)					
<i>Betula</i>	birch															
Maloideae	apple/hawthorn/whitebeams															
Carbonised Wild Resources																
<i>Corylus avellana</i>	nutshell							1 (0.04g)		3 (0.09g)						
Other Remains																
Clinker						1			1					2	2	
Coal												1				
Pottery fragments															1 (4.05g)	
Slag																
Concreted dry turf / peat																
Earthworm egg capsules											1					1

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Table 1																
Portal Avenue, Watton	Sample	1	2	3	4	5	6	8	9	10	11	12	13	15	16	31
MAP 05-13-18	Context	5	7	9	16	20	18	14	22	23	25	27	29	37	40	89
	Feature	gully [006]	pit [008]	pit [010]	pit [017]	pit [021]	pit [019]	gully [015]	ditch [024]	ditch [024]	gully [026]	gully [028]	gully recut [030]	pit [038]	ditch [041]	ring gully [090]
	Sample Volume (litres)	20	20	20	20	10	20	10	10	20	10	20	10	20	20	20
	Total CV	<2.5ml	5ml	15ml	25ml	<2.5ml	5ml	5ml	<2.5ml	5ml	10ml	<2.5ml	<2.5ml	<2.5ml	2.5ml	<2.5ml
	Modern	0	0	<2.5ml	<2.5ml	<2.5ml	0	0	0	<2.5ml	<2.5ml	0	<2.5ml	<2.5ml	0	<2.5ml
Carbonised Cereal Grain	Common Name															
<i>Triticum</i> sp.	wheat															
<i>Triticum dicoccum</i>	emmer wheat															
<i>Hordeum vulgare</i> var. <i>vulgare</i>	six row hulled barley															
<i>Hordeum vulgare</i> sl.	barley												1			
Indeterminate cereal grain (+embryo)									1							
Charcoal																
<i>Quercus</i>	oak		4 (0.71g)	8 (3.01g)	5 (3.84g)		3 (0.55g)	2 (0.41g)				2 (1.17g)				
<i>Betula</i>	birch															
Maloideae	apple/hawthorn/whitebeams															
Carbonised Wild Resources																
<i>Corylus avellana</i> nutshell	hazel nutshell							1 (0.04g)		3 (0.09g)						
Other Remains																
Clinker						1			1				2	2		
Coal												1				
Pottery fragments															1 (4.05g)	
Slag																
Concreted dry turf / peat																
Earthworm egg capsules											1					

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Table 1																
Portal Avenue, Watton	Sample	1	2	3	4	5	6	8	9	10	11	12	13	15	16	38
MAP 05-13-18	Context	5	7	9	16	20	18	14	22	23	25	27	29	37	40	104
	Feature	gully [006]	pit [008]	pit [010]	pit [017]	pit [021]	pit [019]	gully [015]	ditch [024]	ditch [024]	gully [026]	gully [028]	gully recut [030]	pit [038]	ditch [041]	pit [105]
	Sample Volume (litres)	20	20	20	20	10	20	10	10	20	10	20	10	20	20	20
	Total CV	<2.5ml	5ml	15ml	25ml	<2.5ml	5ml	5ml	<2.5ml	5ml	10ml	<2.5ml	<2.5ml	<2.5ml	2.5ml	20ml
	Modern	0	0	<2.5ml	<2.5ml	<2.5ml	0	0	0	<2.5ml	<2.5ml	0	<2.5ml	<2.5ml	0	<2.5ml
Carbonised Cereal Grain		Common Name														
	<i>Triticum</i> sp.	wheat														
	<i>Triticum dicoccum</i>	emmer wheat														
	<i>Hordeum vulgare</i> var. <i>vulgare</i>	six row hulled barley														
	<i>Hordeum vulgare</i> sl.	barley												1		
	Indeterminate cereal grain (+embryo)								1							
Charcoal																
	<i>Quercus</i>	oak	4 (0.71g)	8 (3.01g)	5 (3.84g)		3 (0.55g)	2 (0.41g)				2 (1.17g)				5 (0.87g)
	<i>Betula</i>	birch														
	Maloideae	apple/hawthorn/whitebeams														
Carbonised Wild Resources																
	<i>Corylus avellana</i> nutshell	hazel nutshell						1 (0.04g)		3 (0.09g)						
Other Remains																
	Clinker					1			1					2	2	
	Coal											1				
	Pottery fragments														1 (4.05g)	
	Slag															
	Concreted dry turf / peat															
	Earthworm egg capsules										1					

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Table 1																
Portal Avenue, Watton	Sample	1	2	3	4	5	6	8	9	10	11	12	13	15	16	40
MAP 05-13-18	Context	5	7	9	16	20	18	14	22	23	25	27	29	37	40	111
	Feature	gully [006]	pit [008]	pit [010]	pit [017]	pit [021]	pit [019]	gully [015]	ditch [024]	ditch [024]	gully [026]	gully [028]	gully recut [030]	pit [038]	ditch [041]	ditch [112]
	Sample Volume (litres)	20	20	20	20	10	20	10	10	20	10	20	10	20	20	20
	Total CV	<2.5ml	5ml	15ml	25ml	<2.5ml	5ml	5ml	<2.5ml	5ml	10ml	<2.5ml	<2.5ml	<2.5ml	2.5ml	2.5ml
	Modern	0	0	<2.5ml	<2.5ml	<2.5ml	0	0	0	<2.5ml	<2.5ml	0	<2.5ml	<2.5ml	0	<2.5ml
Carbonised Cereal Grain	Common Name															
<i>Triticum</i> sp.	wheat															
<i>Triticum dicoccum</i>	emmer wheat															
<i>Hordeum vulgare</i> var. <i>vulgare</i>	six row hulled barley															
<i>Hordeum vulgare</i> sl.	barley													1		
Indeterminate cereal grain (+embryo)									1							
Charcoal																
<i>Quercus</i>	oak		4 (0.71g)	8 (3.01g)	5 (3.84g)		3 (0.55g)	2 (0.41g)				2 (1.17g)				1 (0.12g)
<i>Betula</i>	birch															
Maloideae	apple/hawthorn/whitebeams															
Carbonised Wild Resources																
<i>Corylus avellana</i>	nutshell							1 (0.04g)			3 (0.09g)					
Other Remains																
Clinker						1			1					2	2	
Coal												1				
Pottery fragments															1 (4.05g)	
Slag																
Concreted dry turf / peat																
Earthworm egg capsules											1					

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Table 1																
Portal Avenue, Watton	Sample	1	2	3	4	5	6	8	9	10	11	12	13	15	16	43
MAP 05-13-18	Context	5	7	9	16	20	18	14	22	23	25	27	29	37	40	117
	Feature	gully [006]	pit [008]	pit [010]	pit [017]	pit [021]	pit [019]	gully [015]	ditch [024]	ditch [024]	gully [026]	gully [028]	gully recut [030]	pit [038]	ditch [041]	Enc ditch [118]
	Sample Volume (litres)	20	20	20	20	10	20	10	10	20	10	20	10	20	20	20
	Total CV	<2.5ml	5ml	15ml	25ml	<2.5ml	5ml	5ml	<2.5ml	5ml	10ml	<2.5ml	<2.5ml	<2.5ml	2.5ml	2.5ml
	Modern	0	0	<2.5ml	<2.5ml	<2.5ml	0	0	0	<2.5ml	<2.5ml	0	<2.5ml	<2.5ml	0	<2.5ml
Carbonised Cereal Grain	Common Name															
<i>Triticum</i> sp.	wheat															
<i>Triticum dicoccon</i>	emmer wheat															
<i>Hordeum vulgare</i> var. <i>vulgare</i>	six row hulled barley															
<i>Hordeum vulgare</i> sl.	barley												1			
Indeterminate cereal grain (+embryo)									1							
Charcoal																
<i>Quercus</i>	oak	4 (0.71g)	8 (3.01g)	5 (3.84g)		3 (0.55g)	2 (0.41g)				2 (1.17g)					
<i>Betula</i>	birch															
Maloideae	apple/hawthorn/whitebeams															
Carbonised Wild Resources																
<i>Corylus avellana</i> nutshell	hazel nutshell						1 (0.04g)			3 (0.09g)						
Other Remains																
Clinker						1			1				2	2		
Coal												1				
Pottery fragments															1 (4.05g)	
Slag																
Concreted dry turf / peat																
Earthworm egg capsules											1					

APPENDIX 9.1																
Table 1																
Portal Avenue, Watton	Sample	1	2	3	4	5	6	8	9	10	11	12	13	15	16	44
MAP 05-13-18	Context	5	7	9	16	20	18	14	22	23	25	27	29	37	40	119
	Feature	gully [006]	pit [008]	pit [010]	pit [017]	pit [021]	pit [019]	gully [015]	ditch [024]	ditch [024]	gully [026]	gully [028]	gully recut [030]	pit [038]	ditch [041]	ditch [120]
	Sample Volume (litres)	20	20	20	20	10	20	10	10	20	10	20	10	20	20	20
	Total CV	<2.5ml	5ml	15ml	25ml	<2.5ml	5ml	5ml	<2.5ml	5ml	10ml	<2.5ml	<2.5ml	<2.5ml	2.5ml	5ml
	Modern	0	0	<2.5ml	<2.5ml	<2.5ml	0	0	0	<2.5ml	<2.5ml	0	<2.5ml	<2.5ml	0	<2.5ml
Carbonised Cereal Grain		Common Name														
<i>Triticum</i> sp.	wheat															
<i>Triticum dicoccum</i>	emmer wheat															
<i>Hordeum vulgare</i> var. <i>vulgare</i>	six row hulled barley															
<i>Hordeum vulgare</i> sl.	barley													1		
Indeterminate cereal grain (+embryo)									1							
Charcoal																
<i>Quercus</i>	oak		4 (0.71g)	8 (3.01g)	5 (3.84g)		3 (0.55g)	2 (0.41g)				2 (1.17g)				
<i>Betula</i>	birch															
Maloideae	apple/hawthorn/whitebeams															1 (1.16g)
Carbonised Wild Resources																
<i>Corylus avellana</i>	nutshell							1 (0.04g)		3 (0.09g)						
Other Remains																
Clinker						1			1					2	2	
Coal												1				
Pottery fragments															1 (4.05g)	
Slag																
Concreted dry turf / peat																
Earthworm egg capsules											1					

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Table 1																
Portal Avenue, Watton	Sample	1	2	3	4	5	6	8	9	10	11	12	13	15	16	46
MAP 05-13-18	Context	5	7	9	16	20	18	14	22	23	25	27	29	37	40	124
	Feature	gully [006]	pit [008]	pit [010]	pit [017]	pit [021]	pit [019]	gully [015]	ditch [024]	ditch [024]	gully [026]	gully [028]	gully recut [030]	pit [038]	ditch [041]	ditch [125]
	Sample Volume (litres)	20	20	20	20	10	20	10	10	20	10	20	10	20	20	20
	Total CV	<2.5ml	5ml	15ml	25ml	<2.5ml	5ml	5ml	<2.5ml	5ml	10ml	<2.5ml	<2.5ml	<2.5ml	2.5ml	<2.5ml
	Modern	0	0	<2.5ml	<2.5ml	<2.5ml	0	0	0	<2.5ml	<2.5ml	0	<2.5ml	<2.5ml	0	<2.5ml
Carbonised Cereal Grain	Common Name															
<i>Triticum</i> sp.	wheat															
<i>Triticum dicoccum</i>	emmer wheat															
<i>Hordeum vulgare</i> var. <i>vulgare</i>	six row hulled barley															
<i>Hordeum vulgare</i> sl.	barley													1		
Indeterminate cereal grain (+embryo)									1							
Charcoal																
<i>Quercus</i>	oak	4 (0.71g)	8 (3.01g)	5 (3.84g)		3 (0.55g)	2 (0.41g)				2 (1.17g)					
<i>Betula</i>	birch															
Maloideae	apple/hawthorn/whitebeams															
Carbonised Wild Resources																
<i>Corylus avellana</i>	nutshell						1 (0.04g)			3 (0.09g)						
Other Remains																
Clinker						1			1					2	2	
Coal												1				
Pottery fragments															1 (4.05g)	
Slag																
Concreted dry turf / peat																
Earthworm egg capsules											1					

APPENDIX 9.1																
Table 1																
Portal Avenue, Watton	Sample	1	2	3	4	5	6	8	9	10	11	12	13	15	16	47
MAP 05-13-18	Context	5	7	9	16	20	18	14	22	23	25	27	29	37	40	76
	Feature	gully [006]	pit [008]	pit [010]	pit [017]	pit [021]	pit [019]	gully [015]	ditch [024]	ditch [024]	gully [026]	gully [028]	gully recut [030]	pit [038]	ditch [041]	Enc ditch [078]
	Sample Volume (litres)	20	20	20	20	10	20	10	10	20	10	20	10	20	20	40
	Total CV	<2.5ml	5ml	15ml	25ml	<2.5ml	5ml	5ml	<2.5ml	5ml	10ml	<2.5ml	<2.5ml	<2.5ml	2.5ml	<2.5ml
	Modern	0	0	<2.5ml	<2.5ml	<2.5ml	0	0	0	<2.5ml	<2.5ml	0	<2.5ml	<2.5ml	0	0
Carbonised Cereal Grain	Common Name															
<i>Triticum</i> sp.	wheat															
<i>Triticum dicoccum</i>	emmer wheat															
<i>Hordeum vulgare</i> var. <i>vulgare</i>	six row hulled barley															
<i>Hordeum vulgare</i> sl.	barley												1			
Indeterminate cereal grain (+embryo)									1							
Charcoal																
<i>Quercus</i>	oak		4 (0.71g)	8 (3.01g)	5 (3.84g)		3 (0.55g)	2 (0.41g)				2 (1.17g)				
<i>Betula</i>	birch															
Maloideae	apple/hawthorn/whitebeams															
Carbonised Wild Resources																
<i>Corylus avellana</i> nutshell	hazel nutshell							1 (0.04g)		3 (0.09g)						
Other Remains																
Clinker						1			1				2	2		1
Coal												1				
Pottery fragments															1 (4.05g)	
Slag																
Concreted dry turf / peat																
Earthworm egg capsules											1					

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Table 1																
Portal Avenue, Watton	Sample	1	2	3	4	5	6	8	9	10	11	12	13	15	16	49
MAP 05-13-18	Context	5	7	9	16	20	18	14	22	23	25	27	29	37	40	82
	Feature	gully [006]	pit [008]	pit [010]	pit [017]	pit [021]	pit [019]	gully [015]	ditch [024]	ditch [024]	gully [026]	gully [028]	gully recut [030]	pit [038]	ditch [041]	terminus [083]
	Sample Volume (litres)	20	20	20	20	10	20	10	10	20	10	20	10	20	20	10
	Total CV	<2.5ml	5ml	15ml	25ml	<2.5ml	5ml	5ml	<2.5ml	5ml	10ml	<2.5ml	<2.5ml	<2.5ml	2.5ml	<2.5ml
	Modern	0	0	<2.5ml	<2.5ml	<2.5ml	0	0	0	<2.5ml	<2.5ml	0	<2.5ml	<2.5ml	0	0
Carbonised Cereal Grain	Common Name															
<i>Triticum</i> sp.	wheat															
<i>Triticum dicoccum</i>	emmer wheat															
<i>Hordeum vulgare</i> var. <i>vulgare</i>	six row hulled barley															
<i>Hordeum vulgare</i> sl.	barley													1		
Indeterminate cereal grain (+embryo)									1							
Charcoal																
<i>Quercus</i>	oak	4 (0.71g)	8 (3.01g)	5 (3.84g)		3 (0.55g)	2 (0.41g)				2 (1.17g)					
<i>Betula</i>	birch															
Maloideae	apple/hawthorn/whitebeams															
Carbonised Wild Resources																
<i>Corylus avellana</i>	nutshell							1 (0.04g)		3 (0.09g)						
Other Remains																
Clinker						1			1					2	2	
Coal												1				
Pottery fragments															1 (4.05g)	
Slag																
Concreted dry turf / peat																
Earthworm egg capsules											1					

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Table 1																
Portal Avenue, Watton	Sample	1	2	3	4	5	6	8	9	10	11	12	13	15	16	53
MAP 05-13-18	Context	5	7	9	16	20	18	14	22	23	25	27	29	37	40	144
	Feature	gully [006]	pit [008]	pit [010]	pit [017]	pit [021]	pit [019]	gully [015]	ditch [024]	ditch [024]	gully [026]	gully [028]	gully recut [030]	pit [038]	ditch [041]	gully [145]
	Sample Volume (litres)	20	20	20	20	10	20	10	10	20	10	20	10	20	20	20
	Total CV	<2.5ml	5ml	15ml	25ml	<2.5ml	5ml	5ml	<2.5ml	5ml	10ml	<2.5ml	<2.5ml	<2.5ml	2.5ml	2.5ml
	Modern	0	0	<2.5ml	<2.5ml	<2.5ml	0	0	0	<2.5ml	<2.5ml	0	<2.5ml	<2.5ml	0	0
Carbonised Cereal Grain	Common Name															
<i>Triticum</i> sp.	wheat															
<i>Triticum dicoccum</i>	emmer wheat															
<i>Hordeum vulgare</i> var. <i>vulgare</i>	six row hulled barley															
<i>Hordeum vulgare</i> sl.	barley													1		
Indeterminate cereal grain (+embryo)									1							
Charcoal																
<i>Quercus</i>	oak	4 (0.71g)	8 (3.01g)	5 (3.84g)		3 (0.55g)	2 (0.41g)				2 (1.17g)					2 (0.09g)
<i>Betula</i>	birch															
Maloideae	apple/hawthorn/whitebeams															
Carbonised Wild Resources																
<i>Corylus avellana</i> nutshell	hazel nutshell							1 (0.04g)			3 (0.09g)					
Other Remains																
Clinker						1			1					2	2	
Coal												1				
Pottery fragments															1 (4.05g)	
Slag																
Concreted dry turf / peat																
Earthworm egg capsules											1					

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Table 1																
Portal Avenue, Watton	Sample	1	2	3	4	5	6	8	9	10	11	12	13	15	16	55
MAP 05-13-18	Context	5	7	9	16	20	18	14	22	23	25	27	29	37	40	148
	Feature	gully [006]	pit [008]	pit [010]	pit [017]	pit [021]	pit [019]	gully [015]	ditch [024]	ditch [024]	gully [026]	gully [028]	gully recut [030]	pit [038]	ditch [041]	pit [149]
	Sample Volume (litres)	20	20	20	20	10	20	10	10	20	10	20	10	20	20	20
	Total CV	<2.5ml	5ml	15ml	25ml	<2.5ml	5ml	5ml	<2.5ml	5ml	10ml	<2.5ml	<2.5ml	<2.5ml	2.5ml	2.5ml
	Modern	0	0	<2.5ml	<2.5ml	<2.5ml	0	0	0	<2.5ml	<2.5ml	0	<2.5ml	<2.5ml	0	<2.5ml
Carbonised Cereal Grain	Common Name															
<i>Triticum</i> sp.	wheat															
<i>Triticum dicoccum</i>	emmer wheat															
<i>Hordeum vulgare</i> var. <i>vulgare</i>	six row hulled barley															
<i>Hordeum vulgare</i> sl.	barley												1			
Indeterminate cereal grain (+embryo)									1							
Charcoal																
<i>Quercus</i>	oak	4 (0.71g)	8 (3.01g)	5 (3.84g)		3 (0.55g)	2 (0.41g)				2 (1.17g)					1 (0.19g)
<i>Betula</i>	birch															
Maloideae	apple/hawthorn/whitebeams															
Carbonised Wild Resources																
<i>Corylus avellana</i> nutshell	hazel nutshell							1 (0.04g)		3 (0.09g)						
Other Remains																
Clinker						1			1				2	2		1
Coal												1				
Pottery fragments															1 (4.05g)	
Slag																
Concreted dry turf / peat																
Earthworm egg capsules											1					

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Table 1																
Portal Avenue, Watton	Sample	1	2	3	4	5	6	8	9	10	11	12	13	15	16	57
MAP 05-13-18	Context	5	7	9	16	20	18	14	22	23	25	27	29	37	40	152
	Feature	gully [006]	pit [008]	pit [010]	pit [017]	pit [021]	pit [019]	gully [015]	ditch [024]	ditch [024]	gully [026]	gully [028]	gully recut [030]	pit [038]	ditch [041]	pit [153]
	Sample Volume (litres)	20	20	20	20	10	20	10	10	20	10	20	10	20	20	20
	Total CV	<2.5ml	5ml	15ml	25ml	<2.5ml	5ml	5ml	<2.5ml	5ml	10ml	<2.5ml	<2.5ml	<2.5ml	2.5ml	2.5ml
	Modern	0	0	<2.5ml	<2.5ml	<2.5ml	0	0	0	<2.5ml	<2.5ml	0	<2.5ml	<2.5ml	0	0
Carbonised Cereal Grain	Common Name															
<i>Triticum</i> sp.	wheat															
<i>Triticum dicoccum</i>	emmer wheat															
<i>Hordeum vulgare</i> var. <i>vulgare</i>	six row hulled barley															
<i>Hordeum vulgare</i> sl.	barley												1			
Indeterminate cereal grain (+embryo)									1							
Charcoal																
<i>Quercus</i>	oak	4 (0.71g)	8 (3.01g)	5 (3.84g)		3 (0.55g)	2 (0.41g)				2 (1.17g)					5 (0.40g)
<i>Betula</i>	birch															
Maloideae	apple/hawthorn/whitebeams															
Carbonised Wild Resources																
<i>Corylus avellana</i> nutshell	hazel nutshell							1 (0.04g)		3 (0.09g)						
Other Remains																
Clinker						1			1				2	2		4
Coal												1				
Pottery fragments															1 (4.05g)	
Slag																
Concreted dry turf / peat																
Earthworm egg capsules											1					

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Table 1																
Portal Avenue, Watton	Sample	1	2	3	4	5	6	8	9	10	11	12	13	15	16	58
MAP 05-13-18	Context	5	7	9	16	20	18	14	22	23	25	27	29	37	40	154
	Feature	gully [006]	pit [008]	pit [010]	pit [017]	pit [021]	pit [019]	gully [015]	ditch [024]	ditch [024]	gully [026]	gully [028]	gully recut [030]	pit [038]	ditch [041]	pit [154]
	Sample Volume (litres)	20	20	20	20	10	20	10	10	20	10	20	10	20	20	10
	Total CV	<2.5ml	5ml	15ml	25ml	<2.5ml	5ml	5ml	<2.5ml	5ml	10ml	<2.5ml	<2.5ml	<2.5ml	2.5ml	5ml
	Modern	0	0	<2.5ml	<2.5ml	<2.5ml	0	0	0	<2.5ml	<2.5ml	0	<2.5ml	<2.5ml	0	0
Carbonised Cereal Grain	Common Name															
<i>Triticum</i> sp.	wheat															
<i>Triticum dicoccum</i>	emmer wheat															
<i>Hordeum vulgare</i> var. <i>vulgare</i>	six row hulled barley															
<i>Hordeum vulgare</i> sl.	barley													1		
Indeterminate cereal grain (+embryo)									1							
Charcoal																
<i>Quercus</i>	oak	4 (0.71g)	8 (3.01g)	5 (3.84g)		3 (0.55g)	2 (0.41g)				2 (1.17g)					2 (1.33g)
<i>Betula</i>	birch															
Maloideae	apple/hawthorn/whitebeams															
Carbonised Wild Resources																
<i>Corylus avellana</i> nutshell	hazel nutshell							1 (0.04g)		3 (0.09g)						
Other Remains																
Clinker						1			1					2	2	
Coal												1				
Pottery fragments															1 (4.05g)	
Slag																
Concreted dry turf / peat																
Earthworm egg capsules											1					

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Table 1																
Portal Avenue, Watton	Sample	1	2	3	4	5	6	8	9	10	11	12	13	15	16	59
MAP 05-13-18	Context	5	7	9	16	20	18	14	22	23	25	27	29	37	40	158
	Feature	gully [006]	pit [008]	pit [010]	pit [017]	pit [021]	pit [019]	gully [015]	ditch [024]	ditch [024]	gully [026]	gully [028]	gully recut [030]	pit [038]	ditch [041]	pit [159]
	Sample Volume (litres)	20	20	20	20	10	20	10	10	20	10	20	10	20	20	20
	Total CV	<2.5ml	5ml	15ml	25ml	<2.5ml	5ml	5ml	<2.5ml	5ml	10ml	<2.5ml	<2.5ml	<2.5ml	2.5ml	2.5ml
	Modern	0	0	<2.5ml	<2.5ml	<2.5ml	0	0	0	<2.5ml	<2.5ml	0	<2.5ml	<2.5ml	0	0
Carbonised Cereal Grain		Common Name														
	<i>Triticum</i> sp.	wheat														
	<i>Triticum dicoccum</i>	emmer wheat														
	<i>Hordeum vulgare</i> var. <i>vulgare</i>	six row hulled barley														
	<i>Hordeum vulgare</i> sl.	barley														
	Indeterminate cereal grain (+embryo)															
	Charcoal															
	<i>Quercus</i>	4 (0.71g)		8 (3.01g)		5 (3.84g)		3 (0.55g)		2 (0.41g)		2 (1.17g)				2 (0.39g)
	<i>Betula</i>	birch														
	Maloideae	apple/hawthorn/whitebeams														
	Carbonised Wild Resources															
	<i>Corylus avellana</i> nutshell	hazel nutshell														
	Other Remains															
	Clinker															
	Coal															
	Pottery fragments															
	Slag															
	Concreted dry turf / peat															
	Earthworm egg capsules															

APPENDIX 9.1																
Table 1																
Portal Avenue, Watton	Sample	1	2	3	4	5	6	8	9	10	11	12	13	15	16	66
MAP 05-13-18	Context	5	7	9	16	20	18	14	22	23	25	27	29	37	40	185
	Feature	gully [006]	pit [008]	pit [010]	pit [017]	pit [021]	pit [019]	gully [015]	ditch [024]	ditch [024]	gully [026]	gully [028]	gully recut [030]	pit [038]	ditch [041]	gully [187]
	Sample Volume (litres)	20	20	20	20	10	20	10	10	20	10	20	10	20	20	20
	Total CV	<2.5ml	5ml	15ml	25ml	<2.5ml	5ml	5ml	<2.5ml	5ml	10ml	<2.5ml	<2.5ml	<2.5ml	2.5ml	<2.5ml
	Modern	0	0	<2.5ml	<2.5ml	<2.5ml	0	0	0	<2.5ml	<2.5ml	0	<2.5ml	<2.5ml	0	<2.5ml
Carbonised Cereal Grain		Common Name														
<i>Triticum</i> sp.	wheat															
<i>Triticum dicoccum</i>	emmer wheat															
<i>Hordeum vulgare</i> var. <i>vulgare</i>	six row hulled barley															
<i>Hordeum vulgare</i> sl.	barley													1		
Indeterminate cereal grain (+embryo)									1							
Charcoal																
<i>Quercus</i>	oak		4 (0.71g)	8 (3.01g)	5 (3.84g)		3 (0.55g)	2 (0.41g)					2 (1.17g)			
<i>Betula</i>	birch															
Maloideae	apple/hawthorn/whitebeams															
Carbonised Wild Resources																
<i>Corylus avellana</i>	nutshell							1 (0.04g)			3 (0.09g)					
Other Remains																
Clinker						1			1					2	2	
Coal												1				
Pottery fragments															1 (4.05g)	
Slag																
Concreted dry turf / peat																20+
Earthworm egg capsules											1					

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Table 1																
Portal Avenue, Watton	Sample	1	2	3	4	5	6	8	9	10	11	12	13	15	16	68
MAP 05-13-18	Context	5	7	9	16	20	18	14	22	23	25	27	29	37	40	195
	Feature	gully [006]	pit [008]	pit [010]	pit [017]	pit [021]	pit [019]	gully [015]	ditch [024]	ditch [024]	gully [026]	gully [028]	gully recut [030]	pit [038]	ditch [041]	pit [196]
	Sample Volume (litres)	20	20	20	20	10	20	10	10	20	10	20	10	20	20	20
	Total CV	<2.5ml	5ml	15ml	25ml	<2.5ml	5ml	5ml	<2.5ml	5ml	10ml	<2.5ml	<2.5ml	<2.5ml	2.5ml	2.5ml
	Modern	0	0	<2.5ml	<2.5ml	<2.5ml	0	0	0	<2.5ml	<2.5ml	0	<2.5ml	<2.5ml	0	0
Carbonised Cereal Grain		Common Name														
<i>Triticum</i> sp.	wheat															
<i>Triticum dicoccum</i>	emmer wheat															
<i>Hordeum vulgare</i> var. <i>vulgare</i>	six row hulled barley															
<i>Hordeum vulgare</i> sl.	barley													1		
Indeterminate cereal grain (+embryo)									1							
Charcoal																
<i>Quercus</i>	oak		4 (0.71g)	8 (3.01g)	5 (3.84g)		3 (0.55g)	2 (0.41g)				2 (1.17g)				1 (0.56g)
<i>Betula</i>	birch															
Maloideae	apple/hawthorn/whitebeams															
Carbonised Wild Resources																
<i>Corylus avellana</i>	nutshell							1 (0.04g)			3 (0.09g)					
Other Remains																
Clinker						1			1					2	2	
Coal												1				
Pottery fragments															1 (4.05g)	
Slag																
Concreted dry turf / peat																
Earthworm egg capsules											1					

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Table 1																
Portal Avenue, Watton	Sample	1	2	3	4	5	6	8	9	10	11	12	13	15	16	69
MAP 05-13-18	Context	5	7	9	16	20	18	14	22	23	25	27	29	37	40	197
	Feature	gully [006]	pit [008]	pit [010]	pit [017]	pit [021]	pit [019]	gully [015]	ditch [024]	ditch [024]	gully [026]	gully [028]	gully recut [030]	pit [038]	ditch [041]	pit [198]
	Sample Volume (litres)	20	20	20	20	10	20	10	10	20	10	20	10	20	20	20
	Total CV	<2.5ml	5ml	15ml	25ml	<2.5ml	5ml	5ml	<2.5ml	5ml	10ml	<2.5ml	<2.5ml	<2.5ml	2.5ml	<2.5ml
	Modern	0	0	<2.5ml	<2.5ml	<2.5ml	0	0	0	<2.5ml	<2.5ml	0	<2.5ml	<2.5ml	0	0
Carbonised Cereal Grain	Common Name															
<i>Triticum</i> sp.	wheat															
<i>Triticum dicoccum</i>	emmer wheat															
<i>Hordeum vulgare</i> var. <i>vulgare</i>	six row hulled barley															
<i>Hordeum vulgare</i> sl.	barley												1			
Indeterminate cereal grain (+embryo)									1							
Charcoal																
<i>Quercus</i>	oak	4 (0.71g)	8 (3.01g)	5 (3.84g)		3 (0.55g)	2 (0.41g)				2 (1.17g)					
<i>Betula</i>	birch															
Maloideae	apple/hawthorn/whitebeams															
Carbonised Wild Resources																
<i>Corylus avellana</i> nutshell	hazel nutshell							1 (0.04g)		3 (0.09g)						
Other Remains																
Clinker						1			1					2	2	
Coal												1				
Pottery fragments															1 (4.05g)	
Slag																
Concreted dry turf / peat																
Earthworm egg capsules											1					

APPENDIX 9.1

Table 1																
Portal Avenue, Watton	Sample	1	2	3	4	5	6	8	9	10	11	12	13	15	16	72
MAP 05-13-18	Context	5	7	9	16	20	18	14	22	23	25	27	29	37	40	205
	Feature	gully [006]	pit [008]	pit [010]	pit [017]	pit [021]	pit [019]	gully [015]	ditch [024]	ditch [024]	gully [026]	gully [028]	gully recut [030]	pit [038]	ditch [041]	pit [206]
	Sample Volume (litres)	20	20	20	20	10	20	10	10	20	10	20	10	20	20	60
	Total CV	<2.5ml	5ml	15ml	25ml	<2.5ml	5ml	5ml	<2.5ml	5ml	10ml	<2.5ml	<2.5ml	<2.5ml	2.5ml	25ml
	Modern	0	0	<2.5ml	<2.5ml	<2.5ml	0	0	0	<2.5ml	<2.5ml	0	<2.5ml	<2.5ml	0	<2.5ml
Carbonised Cereal Grain	Common Name															
<i>Triticum</i> sp.	wheat															
<i>Triticum dicoccum</i>	emmer wheat															
<i>Hordeum vulgare</i> var. <i>vulgare</i>	six row hulled barley															
<i>Hordeum vulgare</i> sl.	barley												1			
Indeterminate cereal grain (+embryo)									1							
Charcoal																
<i>Quercus</i>	oak	4 (0.71g)	8 (3.01g)	5 (3.84g)		3 (0.55g)	2 (0.41g)				2 (1.17g)					7 (1.34g)
<i>Betula</i>	birch															
Maloideae	apple/hawthorn/whitebeams															
Carbonised Wild Resources																
<i>Corylus avellana</i>	nutshell							1 (0.04g)		3 (0.09g)						
Other Remains																
Clinker						1			1				2	2		
Coal												1				
Pottery fragments															1 (4.05g)	
Slag																
Concreted dry turf / peat																
Earthworm egg capsules											1					

APPENDIX 9.1																
Table 1																
Portal Avenue, Watton	Sample	1	2	3	4	5	6	8	9	10	11	12	13	15	16	73
MAP 05-13-18	Context	5	7	9	16	20	18	14	22	23	25	27	29	37	40	207
	Feature	gully [006]	pit [008]	pit [010]	pit [017]	pit [021]	pit [019]	gully [015]	ditch [024]	ditch [024]	gully [026]	gully [028]	gully recut [030]	pit [038]	ditch [041]	pit [208]
	Sample Volume (litres)	20	20	20	20	10	20	10	10	20	10	20	10	20	20	20
	Total CV	<2.5ml	5ml	15ml	25ml	<2.5ml	5ml	5ml	<2.5ml	5ml	10ml	<2.5ml	<2.5ml	<2.5ml	2.5ml	2.5ml
	Modern	0	0	<2.5ml	<2.5ml	<2.5ml	0	0	0	<2.5ml	<2.5ml	0	<2.5ml	<2.5ml	0	<2.5ml
Carbonised Cereal Grain		Common Name														
	<i>Triticum</i> sp.	wheat														
	<i>Triticum dicoccum</i>	emmer wheat														
	<i>Hordeum vulgare</i> var. <i>vulgare</i>	six row hulled barley														
	<i>Hordeum vulgare</i> sl.	barley														
	Indeterminate cereal grain (+embryo)															
	Charcoal															
	<i>Quercus</i>	4 (0.71g)		8 (3.01g)		5 (3.84g)		3 (0.55g)		2 (0.41g)		2 (1.17g)		4 (0.15g)		
	<i>Betula</i>	birch														
	Maloideae	apple/hawthorn/whitebeams														
	Carbonised Wild Resources															
	<i>Corylus avellana</i> nutshell	hazel nutshell														
	Other Remains															
	Clinker															
	Coal															
	Pottery fragments															
	Slag															
	Concreted dry turf / peat															
	Earthworm egg capsules															

APPENDIX 9.1																
Table 1																
Portal Avenue, Watton	Sample	1	2	3	4	5	6	8	9	10	11	12	13	15	16	75
MAP 05-13-18	Context	5	7	9	16	20	18	14	22	23	25	27	29	37	40	212
	Feature	gully [006]	pit [008]	pit [010]	pit [017]	pit [021]	pit [019]	gully [015]	ditch [024]	ditch [024]	gully [026]	gully [028]	gully recut [030]	pit [038]	ditch [041]	pit [214]
	Sample Volume (litres)	20	20	20	20	10	20	10	10	20	10	20	10	20	20	20
	Total CV	<2.5ml	5ml	15ml	25ml	<2.5ml	5ml	5ml	<2.5ml	5ml	10ml	<2.5ml	<2.5ml	<2.5ml	2.5ml	5ml
	Modern	0	0	<2.5ml	<2.5ml	<2.5ml	0	0	0	<2.5ml	<2.5ml	0	<2.5ml	<2.5ml	0	0
Carbonised Cereal Grain	Common Name															
<i>Triticum</i> sp.	wheat															
<i>Triticum dicoccum</i>	emmer wheat															
<i>Hordeum vulgare</i> var. <i>vulgare</i>	six row hulled barley															
<i>Hordeum vulgare</i> sl.	barley												1			
Indeterminate cereal grain (+embryo)									1							
Charcoal																
<i>Quercus</i>	oak	4 (0.71g)	8 (3.01g)	5 (3.84g)		3 (0.55g)	2 (0.41g)				2 (1.17g)					2 (0.28g)
<i>Betula</i>	birch															
Maloideae	apple/hawthorn/whitebeams															
Carbonised Wild Resources																
<i>Corylus avellana</i> nutshell	hazel nutshell							1 (0.04g)		3 (0.09g)						
Other Remains																
Clinker						1			1				2	2		
Coal												1				
Pottery fragments															1 (4.05g)	3 (10.25g)
Slag																
Concreted dry turf / peat																
Earthworm egg capsules											1					

APPENDIX 9.1																
Table 1																
Portal Avenue, Watton	Sample	1	2	3	4	5	6	8	9	10	11	12	13	15	16	76
MAP 05-13-18	Context	5	7	9	16	20	18	14	22	23	25	27	29	37	40	213
	Feature	gully [006]	pit [008]	pit [010]	pit [017]	pit [021]	pit [019]	gully [015]	ditch [024]	ditch [024]	gully [026]	gully [028]	gully recut [030]	pit [038]	ditch [041]	pit [214]
	Sample Volume (litres)	20	20	20	20	10	20	10	10	20	10	20	10	20	20	20
	Total CV	<2.5ml	5ml	15ml	25ml	<2.5ml	5ml	5ml	<2.5ml	5ml	10ml	<2.5ml	<2.5ml	<2.5ml	2.5ml	30ml
	Modern	0	0	<2.5ml	<2.5ml	<2.5ml	0	0	0	<2.5ml	<2.5ml	0	<2.5ml	<2.5ml	0	0
Carbonised Cereal Grain	Common Name															
<i>Triticum</i> sp.	wheat															
<i>Triticum dicoccum</i>	emmer wheat															
<i>Hordeum vulgare</i> var. <i>vulgare</i>	six row hulled barley															
<i>Hordeum vulgare</i> sl.	barley												1			
Indeterminate cereal grain (+embryo)									1							
Charcoal																
<i>Quercus</i>	oak	4 (0.71g)	8 (3.01g)	5 (3.84g)		3 (0.55g)	2 (0.41g)				2 (1.17g)					10 (2.80g)
<i>Betula</i>	birch															
Maloideae	apple/hawthorn/whitebeams															
Carbonised Wild Resources																
<i>Corylus avellana</i> nutshell	hazel nutshell							1 (0.04g)			3 (0.09g)					
Other Remains																
Clinker						1			1				2	2		
Coal												1				
Pottery fragments															1 (4.05g)	
Slag																
Concreted dry turf / peat																
Earthworm egg capsules											1					

APPENDIX 9.1																	
Table 1																	
Portal Avenue, Watton	Sample	1	2	3	4	5	6	8	9	10	11	12	13	15	16	78	
MAP 05-13-18	Context	5	7	9	16	20	18	14	22	23	25	27	29	37	40	217	
	Feature	gully [006]	pit [008]	pit [010]	pit [017]	pit [021]	pit [019]	gully [015]	ditch [024]	ditch [024]	gully [026]	gully [028]	gully recut [030]	pit [038]	ditch [041]	ring gully [218]	
	Sample Volume (litres)	20	20	20	20	10	20	10	10	20	10	20	10	20	20	20	
	Total CV	<2.5ml	5ml	15ml	25ml	<2.5ml	5ml	5ml	<2.5ml	5ml	10ml	<2.5ml	<2.5ml	<2.5ml	2.5ml	<2.5ml	
	Modern	0	0	<2.5ml	<2.5ml	<2.5ml	0	0	0	<2.5ml	<2.5ml	0	<2.5ml	<2.5ml	0	<2.5ml	
Carbonised Cereal Grain	Common Name																
<i>Triticum</i> sp.	wheat																
<i>Triticum dicoccum</i>	emmer wheat																
<i>Hordeum vulgare</i> var. <i>vulgare</i>	six row hulled barley																
<i>Hordeum vulgare</i> sl.	barley													1			
Indeterminate cereal grain (+embryo)									1								
Charcoal																	
<i>Quercus</i>	oak		4 (0.71g)	8 (3.01g)	5 (3.84g)		3 (0.55g)	2 (0.41g)				2 (1.17g)					
<i>Betula</i>	birch																
Maloideae	apple/hawthorn/whitebeams																
Carbonised Wild Resources																	
<i>Corylus avellana</i> nutshell	hazel nutshell							1 (0.04g)		3 (0.09g)							
Other Remains																	
Clinker						1			1					2	2		
Coal												1					
Pottery fragments															1 (4.05g)		
Slag																	
Concreted dry turf / peat																	
Earthworm egg capsules											1						

APPENDIX 9.1

Table 1																
Portal Avenue, Watton	Sample	1	2	3	4	5	6	8	9	10	11	12	13	15	16	80
MAP 05-13-18	Context	5	7	9	16	20	18	14	22	23	25	27	29	37	40	229
	Feature	gully [006]	pit [008]	pit [010]	pit [017]	pit [021]	pit [019]	gully [015]	ditch [024]	ditch [024]	gully [026]	gully [028]	gully recut [030]	pit [038]	ditch [041]	gully [230]
	Sample Volume (litres)	20	20	20	20	10	20	10	10	20	10	20	10	20	20	20
	Total CV	<2.5ml	5ml	15ml	25ml	<2.5ml	5ml	5ml	<2.5ml	5ml	10ml	<2.5ml	<2.5ml	<2.5ml	2.5ml	<2.5ml
	Modern	0	0	<2.5ml	<2.5ml	<2.5ml	0	0	0	<2.5ml	<2.5ml	0	<2.5ml	<2.5ml	0	0
Carbonised Cereal Grain	Common Name															
<i>Triticum</i> sp.	wheat															
<i>Triticum dicoccum</i>	emmer wheat															
<i>Hordeum vulgare</i> var. <i>vulgare</i>	six row hulled barley															
<i>Hordeum vulgare</i> sl.	barley													1		
Indeterminate cereal grain (+embryo)									1							
Charcoal																
<i>Quercus</i>	oak	4 (0.71g)	8 (3.01g)	5 (3.84g)		3 (0.55g)	2 (0.41g)				2 (1.17g)					
<i>Betula</i>	birch															
Maloideae	apple/hawthorn/whitebeams															
Carbonised Wild Resources																
<i>Corylus avellana</i> nutshell	hazel nutshell							1 (0.04g)		3 (0.09g)						
Other Remains																
Clinker						1			1					2	2	
Coal												1				
Pottery fragments															1 (4.05g)	
Slag																
Concreted dry turf / peat																
Earthworm egg capsules											1					

APPENDIX 9.1																
Table 1																
Portal Avenue, Watton	Sample	1	2	3	4	5	6	8	9	10	11	12	13	15	16	81
MAP 05-13-18	Context	5	7	9	16	20	18	14	22	23	25	27	29	37	40	231
	Feature	gully [006]	pit [008]	pit [010]	pit [017]	pit [021]	pit [019]	gully [015]	ditch [024]	ditch [024]	gully [026]	gully [028]	gully recut [030]	pit [038]	ditch [041]	gully [232]
	Sample Volume (litres)	20	20	20	20	10	20	10	10	20	10	20	10	20	20	20
	Total CV	<2.5ml	5ml	15ml	25ml	<2.5ml	5ml	5ml	<2.5ml	5ml	10ml	<2.5ml	<2.5ml	<2.5ml	2.5ml	<2.5ml
	Modern	0	0	<2.5ml	<2.5ml	<2.5ml	0	0	0	<2.5ml	<2.5ml	0	<2.5ml	<2.5ml	0	0
Carbonised Cereal Grain		Common Name														
	<i>Triticum</i> sp.	wheat														
	<i>Triticum dicoccum</i>	emmer wheat														
	<i>Hordeum vulgare</i> var. <i>vulgare</i>	six row hulled barley														
	<i>Hordeum vulgare</i> sl.	barley														
	Indeterminate cereal grain (+embryo)															
	Charcoal															
	<i>Quercus</i>	4 (0.71g)		8 (3.01g)		5 (3.84g)		3 (0.55g)		2 (0.41g)		2 (1.17g)				
	<i>Betula</i>	birch														
	Maloideae	apple/hawthorn/whitebeams														
	Carbonised Wild Resources															
	<i>Corylus avellana</i> nutshell	hazel nutshell														
	Other Remains															
	Clinker															
	Coal															
	Pottery fragments															
	Slag															
	Concreted dry turf / peat															
	Earthworm egg capsules															

APPENDIX 9.1																
Table 1																
Portal Avenue, Watton	Sample	1	2	3	4	5	6	8	9	10	11	12	13	15	16	83
MAP 05-13-18	Context	5	7	9	16	20	18	14	22	23	25	27	29	37	40	235
	Feature	gully [006]	pit [008]	pit [010]	pit [017]	pit [021]	pit [019]	gully [015]	ditch [024]	ditch [024]	gully [026]	gully [028]	gully recut [030]	pit [038]	ditch [041]	pit [236]
	Sample Volume (litres)	20	20	20	20	10	20	10	10	20	10	20	10	20	20	20
	Total CV	<2.5ml	5ml	15ml	25ml	<2.5ml	5ml	5ml	<2.5ml	5ml	10ml	<2.5ml	<2.5ml	<2.5ml	2.5ml	2.5ml
	Modern	0	0	<2.5ml	<2.5ml	<2.5ml	0	0	0	<2.5ml	<2.5ml	0	<2.5ml	<2.5ml	0	0
Carbonised Cereal Grain		Common Name														
	<i>Triticum</i> sp.	wheat														
	<i>Triticum dicoccum</i>	emmer wheat														5
	<i>Hordeum vulgare</i> var. <i>vulgare</i>	six row hulled barley														
	<i>Hordeum vulgare</i> sl.	barley											1			
	Indeterminate cereal grain (+embryo)								1							
Charcoal																
	<i>Quercus</i>	oak	4 (0.71g)	8 (3.01g)	5 (3.84g)		3 (0.55g)	2 (0.41g)				2 (1.17g)				
	<i>Betula</i>	birch														
	Maloideae	apple/hawthorn/whitebeams														
Carbonised Wild Resources																
	<i>Corylus avellana</i> nutshell	hazel nutshell						1 (0.04g)		3 (0.09g)						1 (0.02g)
Other Remains																
	Clinker					1			1				2	2		
	Coal											1				
	Pottery fragments														1 (4.05g)	
	Slag															
	Concreted dry turf / peat															
	Earthworm egg capsules										1					

**WRITTEN SCHEME OF
INVESTIGATION FOR
ARCHAEOLOGICAL MITIGATION**

**PORTAL AVENUE
WATTON**

**PREPARED BY LANPRO SERVICES
ON BEHALF OF
BENNETT HOMES**

February 2018



Planning + Development | Design Studio | Archaeology + Heritage

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Document Prepared by: Paul Gajos MCIfA

Document Reviewed by: Paul Gajos MCIfA

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Figures

Figure 1: Site Location

Figure 2: Mitigation Areas

1.0 INTRODUCTION

- 1.1 This archaeological Written Scheme of Investigation (WSI) has been prepared by Lanpro on behalf of Bennett Homes and details the methodology for undertaking a scheme of archaeological mitigation in advance of redevelopment of the site.
- 1.2 Planning Permission for residential development of the site has been granted subject to the fulfilment of a number of planning conditions, including the provision of a programme of archaeological works (ref. 3PL/2014/1378/F).
- 1.3 The WSI has been informed by the results of a previous stage of archaeological assessment comprising evaluation trenching (PCA 2011). This work identified significant archaeological deposits, dating from the Bronze Age and Iron Age.

Site Location and Description

- 1.4 The site is located at the former RAF Officers Mess, Watton, Norfolk. The development site covers approximately 10.3 hectares in extent and is centred at National Grid Reference TF 9332 0053 (Fig 1).
- 1.5 The soil survey of England and Wales (SSEW 1983) shows the site to be on the boundary of two geological formations (711r, the Beccles 1 Association consisting of chalky till and 552b the Romney Association which comprises marine alluvium) and is between 59.24m at the south of the site and 54.13m at the north of the site OD. The site is underlain by Lowestoft Formation Diamicton. The solid geology is the Undifferentiated Chalk.

Planning Background

- 1.6 Planning Permission for residential development of the site has been granted subject to the fulfilment of a number of planning conditions, including the provision of a programme of archaeological works (ref. 3PL/2014/1378/F). Condition 8 attached to the grant of consent states:

8. *No development shall take place until:*

A) *an archaeological written scheme of investigation has been submitted to and approved by the local planning authority in writing. The scheme shall include an assessment of significance and research questions; and 1) The programme and methodology of site investigation and recording, 2) The programme for post investigation assessment, 3) Provision to be made for analysis of the site investigation and recording, 4) Provision to be made for publication and dissemination of the analysis and records of the site investigation, 5) Provision to be made for archive deposition of the analysis and records of the site investigation and 6) Nomination of a competent person or persons/organization to undertake the works set out within the written scheme of investigation;*

B) *No development shall take place other than in accordance with the written scheme of investigation approved under Part (A);*

C) *The development shall not be occupied until the site investigation and post investigation assessment has been completed in accordance with the programme set out in the archaeological written scheme of investigation approved under Part (A) and the provision to be made for analysis, publication and dissemination of results and archive deposition has been secured.*

Reason for condition:-

The details are required prior to the commencement of development in order to ensure the potential archaeological interest of the site is investigated in accordance with policy DC 17 of the Adopted Core Strategy and Development Control Policies Development Plan Document 2009.

- 1.7 This Written Scheme of Investigation (WSI) has been prepared on behalf of Bennet Homes by Paul Gajos MCIfA of Lanpro and is subject to approval by Breckland Council.

Archaeological Background

- 1.8 The following section summarises the results of the evaluation trenching (PCA 2011). The full report will be provided to the fieldwork contractor before work commences.
- 1.9 The results of the evaluation indicate that archaeological features are present in two discreet parts of the site, one located to the south-west (Trenches 16 and 17) and the other located to the north-east (Trenches 6 and 7).
- 1.10 There is some uncertainty regarding the date of some of the features due to the paucity of datable artefacts due to the small size of the assemblage.
- 1.11 The recovery of a single sherd of earlier Bronze Age pottery (Ditch 04, Trench 16) indicates some possible activity of this date. The presence of Bronze Age funerary activity 450m to the west of the evaluation area (Mason 2011) attests to a Bronze Age presence in the vicinity, possibly within the area of investigation.
- 1.12 The pottery recovered from the majority of feature fills are indicative of a middle or later Iron Age (400-100BC) date for most if not all of the features. The presence of carbonised grains and pottery are indicators of settlement in the immediate vicinity which accords well with evidence for Iron Age and Roman activity previously recorded in the immediate area.

2.0 RESEARCH DESIGN

Aims and Objectives

- 2.1 The primary aim of the archaeological mitigation is to record and advance our understanding of the significance of any archaeological remains within the site prior to their destruction during construction works.

2.2 The excavation has potential to address areas of research highlighted in the Research Framework for the Eastern Counties (Meddlycott 2011). Further study of the morphology of the site, in tandem with an appraisal of its relationship with other sites in the local area has the potential to further our understanding of patterns of settlement in the Bronze Age and the Iron Age period. Comparative work may also allow the examination of the relationship between settlement and burial sites, and the development and use of monuments including burial mounds as key elements in understanding the landscape.

2.3 This will be realised through the achievement of the following objectives:

- To establish the spatial extent date, character, condition and significance of the archaeological activity in the proposed investigation areas highlighted on Figure 1.
- To recover information relating to the nature and function of past human activity represented by the surviving archaeological remains,
- Excavate and record identified archaeological features and deposits to a level appropriate to their extent and significance
- Assess the potential for survival of environmental evidence
- To interpret the nature of human activity at the site and to place the site within its local, regional and national context as appropriate
- Assess the site formation processes and the effects that these may have had on the survival and integrity of the archaeological features and deposits
- Undertake sufficient post-excavation assessment to confidently interpret identified archaeological features
- Undertake sufficient post-excavation assessment and analysis of artefacts and environmental samples to interpret their significance
- Report and publish the results of the excavation and post-excavation analysis and place them within their local and regional context
- Compile and deposit a site archive at a suitable repository and to provide information for the local HER to ensure the long-term survival of the excavated data.

Research Framework

2.4 The programme of archaeological investigation has the potential to contribute to a number of research priorities identified in Research and Archaeology Revisited: a revised framework for the East of England (Medleycott 2011), covering the later prehistoric periods.

2.5 The investigation will also take account of the national research programmes outlined in the English Heritage (now Historic England) Strategic Framework for historic Environment Activities and Programmes in Historic England (SNHESE), first published in 2008.

Standards

2.6 This specification conforms to the requirements of the National Planning Policy Framework (DCLG 2012) (NPPF), the Historic England Historic Environment Good Practice Advice in Planning: 2, Managing Significance in Decision-Taking in the Historic Environment (March

2015). It has been designed in accordance with current best archaeological practice and the appropriate national standards and guidelines including:

- Management of Research Projects in the Historic Environment (Historic England 2015);
 - Code of Conduct (Chartered Institute for Archaeologists, updated 2014);
 - Standard and Guidance for Archaeological Field Evaluations (Chartered Institute for Archaeologists, updated 2014)
- and
- Standards for Field Archaeology in the East of England (Gurney 2003)

2.7 In order that the investigation supplies information of the required quality, all work will be undertaken in accordance with the Code of Conduct and the Standards and Guidance issued by the Chartered Institute for Archaeologists (CIfA).

3.0 **METHODOLOGY**

Pre-commencement

3.1 Lanpro will inform the Local Planning Authority at least two weeks in advance of the commencement of fieldwork.

3.2 The Archaeological Contractor will contact the HER Officer of the Historic Environment Service in advance of work starting to obtain a HER Event number for the site. HER data for the site and its immediate environs will also be acquired.

3.3 The Contractor shall contact the relevant local receiving museum prior to the start of fieldwork and obtain the necessary Accession Numbers/complete the required archive deposition forms.

3.4 Before fieldwork commences an OASIS online record will be initiated and key fields completed on Details, Location and Creator forms.

Strategy

3.5 The archaeological works are split over two excavations areas (Area 1 measuring 5060m² and Area 2 measuring 5275m²) as shown in Figure 1. Should significant archaeological deposits be found to extend beyond the limits of these initial excavation areas the area will be extended to reveal all significant archaeology. Modern overburden across this area will be stripped using mechanical excavators, using toothless, flat bladed, grading buckets supervised by a suitably qualified and experienced archaeologist. Stripping will need to be controlled to ensure that the archaeological horizon is exposed and is sufficiently clean to identify any archaeological features present. The spoil generated during the excavation will be mounded away from the edges of the stripped area or removed from the site. Mechanical excavation will cease at either

undisturbed natural deposits or when archaeological features are identified. The nature of these deposits will be assessed by hand excavation.

- 3.6 Mechanical excavators and other plant will not track or drive over an area that has been stripped until an archaeologist has confirmed that no archaeological remains are present. If required, areas of archaeological remains will be fenced off to prevent accidental damage.
- 3.7 The excavation area and spoil will be scanned with a metal detector to ensure maximum finds retrieval.
- 3.8 The base and sides of the stripped areas will be cleaned as required to show the soil profile and to define adequately any archaeological features present.
- 3.9 Following the initial soil strip, priority will be given to the cleaning of features as required to produce a pre-excavation plan. In association with the production of this plan initial sample excavation will commence to characterise the nature of the archaeological resource present. Early in this process an initial site review meeting will be convened between the archaeological consultant, the Local Planning Authority's archaeological advisor and the appointed archaeological contractor to agree the application of the sample excavation strategy.
- 3.10 The following sampling levels will form the standard to be applied to features and deposits identified as contributing to the project objectives and any additional specific objectives identified.

<i>Feature Class</i>	<i>Proportion to be excavated</i>
Pre-modern linear features not associated with structural remains	10% of fill
Pits associated with agricultural & other activities	50% of fill
Layers/ deposits/horizontal stratigraphy relating to domestic/industrial activity [e.g. hearths, floor surfaces, floor make-up deposits...]	100% of deposit
Post-built structures of pre-modern date	50% of each post-hole fill
Linear features (ditches/gullies...) associated with structural remains	20% of fill
Human burials, cremations & other deposits relating to funerary activity	100% of fill/deposit

- 3.11 Application of this standard to exposed archaeological remains will be agreed between the curator, contractor and consultant in project review meetings.

Recording Methods & Standards

- 3.12 If required a site grid will be established relative to Ordnance Survey National Grid. Data capture for site plans will be by electronic distance measurement, measured survey or a combination of techniques. Data-capture for site plans will as standard be capable of reproduction at a scale of 1:100; more complex features or areas of complex archaeological remains will be recorded at greater resolution (for reproduction at 1:10, 1:20, 1:50 as necessary). The sections of excavated archaeological features will be recorded by measured drawing at an appropriate scale (normally 1:10 or 1:20). Spot heights and those of individual features will be recorded relative to Ordnance Datum.
- 3.13 All archaeological features or deposits encountered will be described fully on pro-forma individual context recording sheets, using standard methods of the archaeological contractor appointed. A stratigraphic matrix will be compiled to record the relationships of any archaeological features or deposits encountered and to indicate those features or deposits requiring further stratigraphic clarification by excavation.
- 3.14 A minimum 35mm format for photography will be used (in monochrome and colour) and this will be supplemented by digital photography.
- 3.15 Digital photographs will be taken utilising digital cameras of no less than 10 megapixels and in RAW format, and will conform to industry best practice (Historic England 2015b). Images will be converted to uncompressed baseline v.6 TIFF for archiving. All images will have accompanying metadata specifying; photo ID, capture device, converting software, colour space, bit depth, resolution, date of capture, photographer, caption, and any alterations made to the image.
- 3.16 The environmental sampling strategy will be formulated in consultation with the Local Planning Authority's archaeological advisor and, where necessary, Historic England's Regional Science Advisor and is likely to include the routine sampling of undisturbed, securely dated deposits for the retrieval and assessment of the preservation conditions and potential for analysis of all biological remains, and sampling of deposits & features identified as having a high palaeo-environmental potential. The sampling strategy is anticipated to include programmes of sampling and assessment for charred plant macrofossils, molluscs, animal and human bone. The environmental sampling strategy will be documented and reviewed periodically. The environmental specialist will conduct or commission, as appropriate, programmes of scientific investigation in conjunction with the fieldwork, the results of which will be presented in the final publication or report. They will also ensure that the strategy evolves on site by seeking to ensure that bulk samples taken in the initial stages of the project are processed quickly and the results fed back to inform the excavation strategy.
- 3.17 All environmental work will be undertaken in accordance with English Heritage guidelines Environmental Archaeology: A guide to the theory and practice of methods, from sampling and recovery to post-excavation (2011).

- 3.18 All artefacts will be treated in accordance with UKIC guidelines, First Aid for Finds (1998). All finds will be bagged and labelled according to the individual deposit from which they were recovered, ready for later cleaning and analysis.
- 3.19 All registered finds will be processed and packaged according to standards of good practice. In accordance with the procedures outlined in MAP2 and current English Heritage guidelines, all iron objects, a selection of non-ferrous artefacts (including all coins) and a sample of any industrial debris relating to metallurgy will be submitted for X-radiography and stabilisation where appropriate.
- 3.20 If human remains are encountered, they will be cleaned with minimal disturbance, prior to recording and removal, following receipt of the required Ministry of Justice licence. Investigation and excavation of human remains will be undertaken by, or under supervision of, suitably experienced specialist staff and in accordance with IFA Guidelines (“Excavation and Post-excavation Treatment of Cremated and Inhumed Human Remains” Roberts, C & McKinley, J 1993 – IFA Technical Paper 13; “Guidelines to the standards for recording human remains” ed Brickley, M & McKinley, J 2004 – IFA Paper 7). Assessment of excavated human remains will be undertaken in line with current English Heritage Guidelines (“Human Bones from archaeological sites: Guidelines for the production of assessment documents and analytical reports” Centre for Archaeology Guidelines 2004). The archaeological contractor will comply with all reasonable requests of interested parties as to the method of removal, re-interment or disposal of the remains or associated items. Every effort will be made, at all times, not to cause offence to any interested parties.
- 3.21 If finds are made of gold, silver or other items of possible treasure these will if possible be archaeologically excavated and removed to a safe place. Such finds will also be reported immediately to the local Coroner (within 14 days, in accordance with the 1997 Treasure Act) and to the Norfolk Finds Liaison Officer. Should it not be possible to remove the finds that day suitable security will be arranged.

Strategy Review

- 3.22 The strategy for the archaeological fieldwork will be held under continuous review. Should the strategy be considered unsuitable at any time by Lanpro or the appointed archaeological contractor, an alternative strategy will be proposed for agreement with Local Planning Authority’s archaeological advisor.

Post-excavation

- 3.23 Until the fieldwork is complete the precise details of post-excavation analysis and reporting requirements will be uncertain. A formal process of post-excavation ‘Assessment of Potential for Analysis’, in line with Historic England MoRPHE PPN3 procedures will be undertaken to ensure that analytical and reporting work is most effectively targeted and that the potential of the excavated data is fully met in the post-fieldwork analytical programme.

- 3.24 Post excavation work will comprise the following:
- checking of drawn and written records during and on completion of fieldwork;
 - production of a stratigraphic matrix of the archaeological deposits and features present on the site, if appropriate;
 - cataloguing of photographic material and labelling of slides that will be mounted on appropriate hangers;
 - cleaning, marking, bagging and labelling of finds according to the individual deposits from which they were recovered. Any finds requiring specialist treatment and conservation will be sent for appropriate treatment. Finds will be identified and dated by appropriate specialists;
- 3.25 Following completion of the fieldwork and consolidation of the archive, the excavation results will be assessed in order to establish the potential of the data for further analysis.
- 3.26 The methodologies and timetable for post-excavation and publication will be included in the Updated Project Design (UPD). The document will be based on English Heritage's Management of Archaeological Projects. It is likely to comprise the following sections:
- Introduction - planning and project background, site location, results of adjacent archaeological investigations etc.;
 - Original Aims and Objectives of the Investigation;
 - Provisional Summary of Results - an integrated text (combining structural, artefactual and ecofactual) divided by chronological period;
 - Data Quantification - divided by data type (structural, artefactual and ecofactual);
 - Potential of the Data to Address the Original and New Research Objectives - realistic discussion linked to the information presented in preceding sections;
 - Updated Project Design - revised research objectives appropriate to the recovered data, timetable, description of analysis, publication and archiving.
- 3.27 The format and contents of the report will conform to the requirements of the Local Planning Authority's archaeological advisor and to published regional Standards.
- 3.28 Following approval of the UPD by the Local Planning Authority's archaeological advisor, any necessary analysis and publication of the records, artefacts and ecofacts will be undertaken.
- 3.29 The format and contents of the report will conform to Norfolk County Council requirements and to published regional Standards.
- 3.30 A draft copy of the report will be supplied to the Local Planning Authority's archaeological advisor for comment. Following approval of the draft report, three hard copies and one digital copy will be supplied to Norfolk HER for the attention of the Planning Archaeologist. One further copy will be sent to the Historic England Regional Science Advisor for the East of England.
- 3.31 A copy of the approved report will be uploaded to the OASIS database.

- 3.32 Ownership of any objects/artefacts recovered from the archaeological works rests with the landowner except where other law overrides this (e.g. Treasure Act 1996, Burial Act 1857). However, Lanpro will seek to obtain 'in principle' agreement from the landowner to donate the recovered artefacts to the Norfolk Museums Service (subject to statutory laws concerning human remains and treasure trove).
- 3.33 The project archive will be prepared according to the recommendations in Guidelines for the Preparation of Excavation Archives for long-term storage (UKIC 1990); Standards in the Museum Care of Archaeological Collections (Museums and Galleries Commission 1992); and the Archaeological Archives Forum's Guide to best practice in creation, compilation, transfer and curation for archaeological archives (AAF 2007).
- 3.34 The project archive will be deposited with an appropriate store in accordance with the terms and conditions which are to be agreed with the store in advance of deposition.
- 3.35 Notes or articles describing the results of the archaeological fieldwork will be submitted for publication to an appropriate journal, dependant on the nature of the results.
- 3.36 OASIS (Online AccesS to the Index of archaeological investigationS) data capture forms will also be completed and submitted on completion of the project.
- 3.37 All documentation and correspondence created as part of this project will clearly quote the Norfolk HER number (see section 3.2 above).

4.0 TIMETABLE & PERSONNEL

- 4.1 Details of the timetable and CVs of key personnel and specialists will be provided to the Local Planning Authority's archaeological advisor on appointment of the fieldwork contractor. Work will be undertaken under the management of a suitably qualified archaeologist. Paul Gajos MCIfA of Lanpro will be in overall charge of the project and will monitor the work on behalf of the developer.

5.0 MONITORING

- 5.1 The aims of monitoring are to ensure that the archaeological works are undertaken within the limits set by this specification, and to the satisfaction of the Local Planning Authority's archaeological advisor.
- 5.2 Paul Gajos MCIfA, Director (Archaeology and Heritage) for Lanpro will monitor implementation of the programme of works on behalf of the developer.
- 5.3 The Local Planning Authority's archaeological advisor will be given notice of when work is due to commence and will be free to visit the site by prior arrangement with Lanpro. The Local Planning Authority's archaeological advisor will monitor implementation of the programme of

works on behalf of the Local Planning Authority and evaluate the work being undertaken on site against the methodology detailed in this specification.

- 5.4 The Local Planning Authority's archaeological advisor will also be responsible for considering any changes to the specification of works; any such alterations should be agreed in writing with the relevant parties prior to commencement of on-site works, or at the earliest available opportunity.

6.0 INSURANCE

- 6.1 The archaeological contractor will produce evidence of Public Liability Insurance to the minimum value of £5m and Professional Indemnity Insurance to the minimum of £5m.

7.0 HEALTH and SAFETY

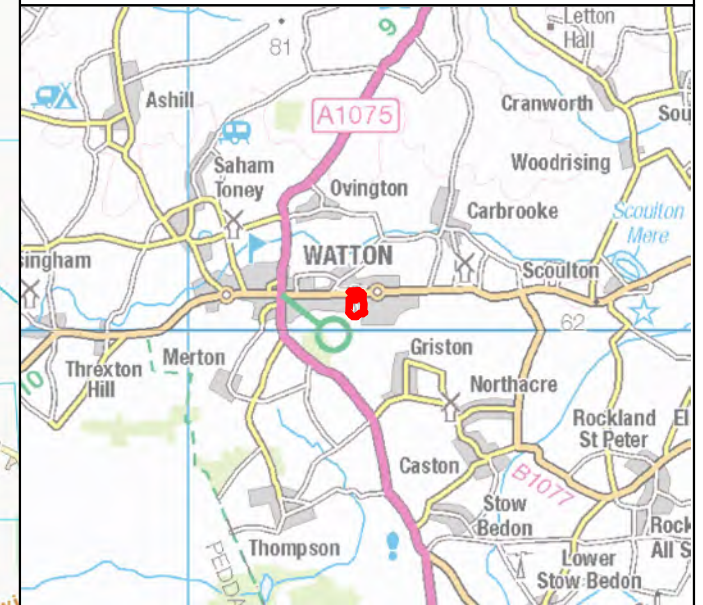
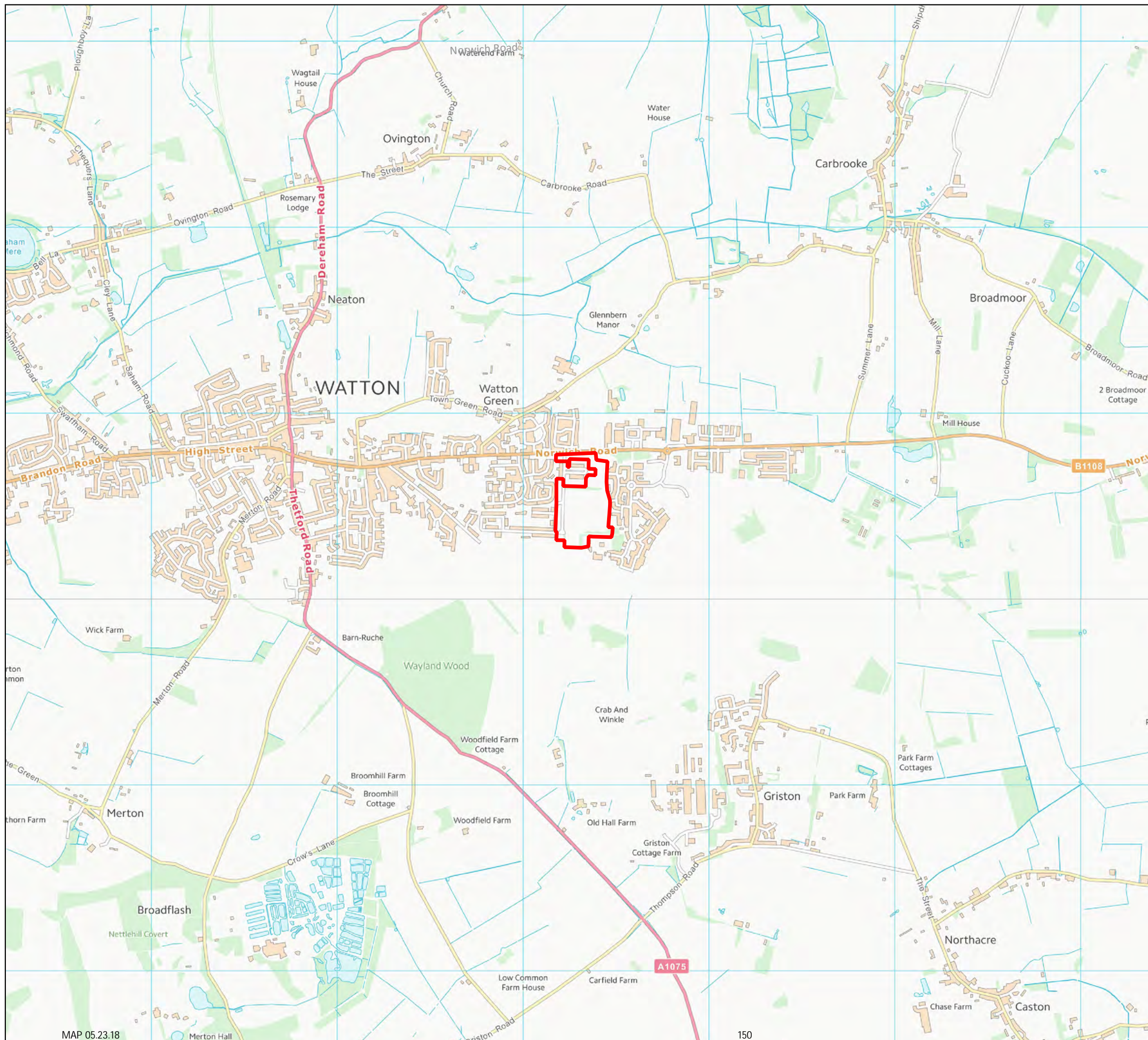
- 7.1 All works will be undertaken in compliance with the Health and Safety at Work Act (1974) and all applicable regulations and Codes of Practice. All archaeological staff will undertake their operations in accordance with safe working practices and will be CSCS certified. At least one First Aider will be present on site at all times.
- 7.2 A site-specific risk assessment will be produced by the appointed archaeological contractor, prior to the commencement of work on site, which will be subject to regular review.
- 7.3 All fieldwork staff will be required to wear suitable Personal Protective Equipment (PPE), including hi-visibility coats/vests, hard hats, safety boots and gloves, as well as safety glasses if required. Suitable PPE and welfare facilities will be provided by the archaeological contractor.
- 7.4 All staff will receive a health and safety induction prior to starting work on site to be provided by the archaeological contractor, and visitors to the site will receive an induction as required. The archaeological contractor will provide all staff on site with copies of all health and safety documentation.
- 7.5 Regular audits of health and safety practices will be carried out during the course of the project by Lanpro and the archaeological contractor in consultation with the site workforce. Toolbox talks on health and safety issues will be conducted at minimum weekly intervals and/or after changes in working practices or identification of new threats/risks. The risk assessment will be reviewed and updated as necessary. Control measures will be implemented as required in response to specific hazards.
- 7.6 Safe working will take priority over the desire to record archaeological features or remains, and where it is considered that recording is dangerous, any such features will be recorded by photography at a safe distance. Excavations greater than safe working depth will be fenced off with netlon safety fencing.

- 7.7 The developer will provide plans of all known services prior to excavation, and areas of excavation will be scanned with a Cable Avoidance Tool (CAT) prior to ground works commencing. Necessary measures will be taken to avoid disturbing any services.
- 7.8 Plant operators will be required to produce evidence of qualification within an industry accepted registration scheme. Sub-Contractors health and safety performance will be kept under review and action taken if necessary.
- 7.9 Measures must be taken to keep the access road clean and free from mud.

8.0 COPYRIGHT AND PUBLICITY

- 8.1 Copyright of the documentation prepared by the archaeological contractor and specialist sub-contractors should be the subject of additional licences in favour of Bennett Homes, Lanpro and NHES to use such documentation for their statutory and educational functions, and to provide copies to third parties as required.
- 8.2 Under the Environmental Information Regulations (EIR 2005), information submitted to the HER becomes publicly accessible, except where disclosure might lead to environmental damage, and reports cannot be embargoed as 'confidential' or 'commercially sensitive'.
- 8.3 It is recognised that the project may identify remains which are of interest to the public and these may be publicised through appropriate media. Any publicity for the project proposed by the archaeological contractor should be approved by Lanpro and Bennett Homes.
- 8.4 The appointed contractor will not issue any information on the work through media, internet or social media without prior agreement with Lanpro.
- 8.5 Care will be taken to ensure that any publicity does not compromise the security of archaeological remains that may have been identified or recovered. Any approaches by the press to the archaeological contractor should be referred to Lanpro in the first instance.

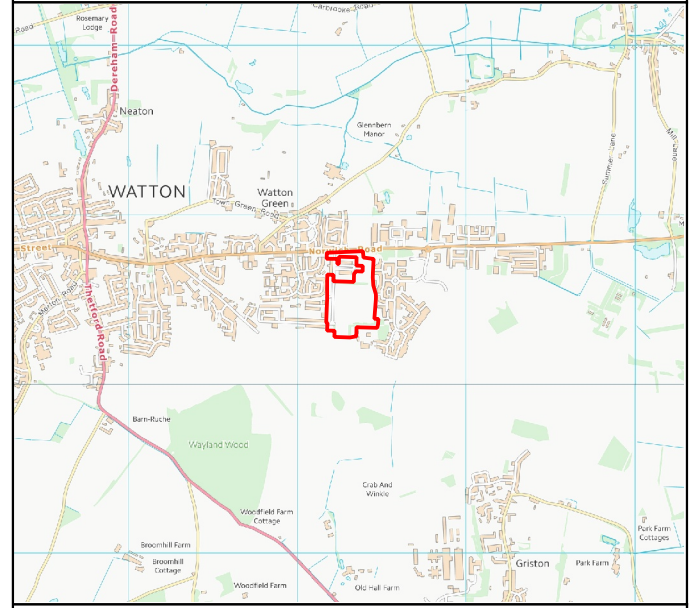
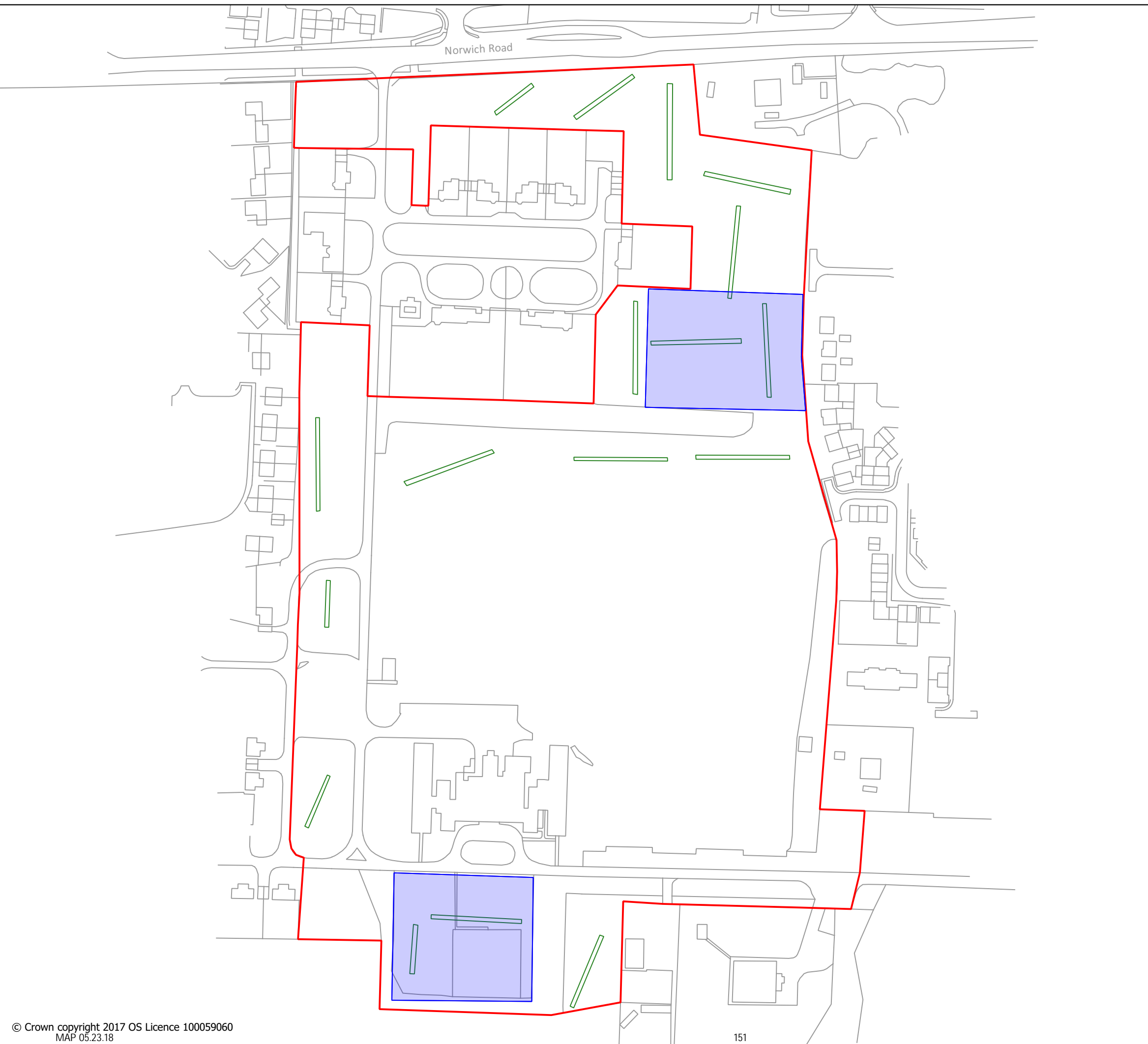
FIGURES






— Site boundary



Figure 1. Site location



-  Site boundary
-  Excavation area
-  Evaluation trench

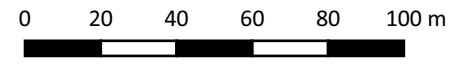


Figure 2. Location of excavation areas

APPENDIX 11

Portal Avenue Watton Norfolk

Application Number: 3PL/2014/2378/F

Updated Project Design

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2. Summary Statement of Potential	124
3. Aims and Objectives	127
4. Method Statement	128
5. Resources and Programming	133
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Portal Avenue
Watton
Norfolk

Application Number: 3PL/2014/3278/F

Updated Project Design

1. Introduction

1.1 This Updated Project Design has been commissioned by Paul Gajos of LanPro Services Ltd. on behalf of Bennett Homes to progress the analysis and reporting of archaeological work carried out by MAP Archaeological Practice at the development of Portal Avenue, Watton, Norfolk.

1.2 Site Description

1.2.1 The development site is located on the site of the former RAF Officers Mess, Watton, immediately south of the Norwich Road and east of Portal Avenue (fig.1). It covers an area of approximately 10.3 hectares, centred on NGR TF 9332 0053. The site sits on a Lowestoft Formation Diamicton overlying a Lewes Nodular Chalk bedrock formation (GBS, 2019), lying at heights between 59.24m AOD to the south and 54.13m AOD to the north.

1.2.2 Planning permission for the development of residential housing (application number 3PL/2014/1378/F) was granted subject to the fulfilment of several planning conditions, including condition 8 which states:

8. *No development shall take place until:*

A) *an archaeological written scheme of investigation has been submitted to and approved by the local planning authority in writing. The scheme shall include an assessment of significance and research questions; and 1) The programme and methodology of site investigation and recording, 2) The programme for post*

investigation assessment, 3) Provision to be made for analysis of the site investigation and recording, 4) Provision to be made for publication and dissemination of the analysis and records of the site investigation, 5) Provision to be made for archive deposition of the analysis and records of the site investigation and 6) Nomination of a competent person or persons/organization to undertake the works set out within the written scheme of investigation;

B) No development shall take place other than in accordance with the written scheme of investigation approved under Part (A);

C) The development shall not be occupied until the site investigation and post investigation assessment has been completed in accordance with the programme set out in the archaeological written scheme of investigation approved under Part (A) and the provision to be made for analysis, publication and dissemination of results and archive deposition has been secured.

Reason for condition:-

The details are required prior to the commencement of development in order to ensure the potential archaeological interest of the site is investigated in accordance with policy DC 17 of the Adopted Core Strategy and Development Control Policies Development Plan Document 2009.

2. SUMMARY STATEMENT OF POTENTIAL

2.1 Archaeological evidence for datable human activity at the Portal Avenue site was limited to the Late Iron Age/Early Romano-British period. While there are several features which remain undated, it is highly likely that these are contemporary with the rest of the site. The details of this archaeological activity aren't considered to be worthy of full publication, as there is limited scope to

address wider themes across the landscape, and the generation of a detailed grey literature report would be sufficient for this site, alongside a short article published in *Norfolk Archaeology*. A Statement of Potential for the previous archaeological work at the site and each category of the finds assemblage is set in sections 2.2 and 2.3.

2.2 Previous Archaeological Work at the Site

2.2.1 In 2011, evaluation trial trenching was carried out by Pre-Construct Archaeology, which consisted of 18 trenches (three 25m trenches, two 30m trenches, two 40m trenches and eleven 50m trenches). Archaeological features were identified in four trenches (6, 7, 16 and 17) across two distinct areas, Area 1 to the southwest and Area 2 to the northeast.

2.2.2 Features in Area 1 consisted of one ditch containing bronze age pottery, two ditches and a pit dated to the Iron Age period and two undated features. Features in Area 2 comprised of three undated ditches and one ditch containing Late Iron Age pottery.

2.2.3 The results of the trial trenching led to the formulation of a programme of Archaeological Excavation focusing on the two areas of interest identified. This was carried out by MAP Archaeological Practice in March and April 2019. A single phase of activity was identified dating to the Late Iron Age/Early Romano-British period, with several undated features, most likely contemporary, also present, along with modern features.

2.2.4 The Late Iron Age/Early Romano-British period activity was identified in both Areas 1 and 2. Activity in Area 1 consisted of 9 discrete pit features, a field system formed from three ditches, and a roundhouse with central pit (fig.2). Late Iron Age/Early Romano-British features in Area 2 comprised of two ditches forming a field enclosure, with a rectangular sub-enclosure and two ring gullies, possibly hayricks (fig.3).

2.2.5 The undated features on the site comprised of three pits and a single linear in Area 1, and a further 19 pits and shallow gully in Area 2. As stated above, these are most likely contemporary to the datable features.

2.2.6 A series of 39 pits were identified within Area 1, which were identified as being modern, most likely relating to the RAF base. Several drainage gullies and modern services were also identified across the site.

2.3 Finds

2.3.1 Pottery

Further work regarding the pottery has been detailed in Appendix 6. This consists of a more detailed analysis of the assemblage, in order to place it within its regional context, with themes such as settlement development and connections to the wider regional economy highlighted within Appendix 6. A comparison and integration with the assemblage recovered during the trial trenching evaluation should also be carried out, to attempt to resolve some of the discrepancies between the two data sets.

2.3.2 Animal Bone

Due to the small size and fragmented and eroded nature of the assemblage, no further analysis is required on the animal bone recovered during excavation beyond integration into a grey literature report.

2.3.3 Flint

The description and cataloguing of the flint assemblage, as detailed in Appendix 7 of the Post-Excavation Assessment is sufficient for use and integration in a grey literature report, and no further analysis is required.

2.3.4 Carbonised Plant Remains

The carbonised plant assemblage recovered from the site produced a variety of charcoals, cereal grains and hazel nutshells. Samples from six pits and two ditch segments produced material which would be suitable for radiocarbon dating. The two samples from ditch segments is likely to be secondary or residual waste. Of the seven pits, five have been identified as having potential to add to current understanding of the site. These are:

Pit [044] – a small pit with a two LIA pottery sherds. The datable material is maloideae charcoal.

Pit [065] – a pit with a high concentration of hazel nutshell and 11 sherds of LIA pottery

Pit [071] – a pit containing a significant quantity of hazel nutshell, but no artefactual evidence

Pit [073] – a currently undated pit. The datable material is *Betula* (birch) charcoal

Pit [236] – the central pit of the ring gully. A radiocarbon date can be acquired from either hazel nutshell or emmer wheat remains.

3. AIMS AND OBJECTIVES

3.1 The aim of the current project is to collate, synthesise, interpret, and report on the results of the fieldwork that has been carried out at Portal Avenue, Watton, and to produce a Grey Literature Report. In order to achieve this primary aim, the project will focus on the following objectives:

-
1. To present a phased site chronology that incorporates all of the archaeological results, including from the previous trial trenching evaluation.

 2. A description of the site in terms of its regional significance, with particular regard to the pertinent themes laid out in the Regional Research Framework (Medlycott, 2011) for the east of England (see 3.2 below), and analysing how it fits into the local and sub-regional context i.e. is it typical/atypical for its period?

In order to preserve high standards of detailed reporting, it is proposed that a full digital resource will be prepared and submitted to the Archaeological Data Service at York, to enable the interrogation of the primary record without adding undue amounts of data to the physical report.

3.2 Research questions identified in the Regional Research Framework (Medlycott, 2011) to be addressed:

1. Iron Age/Roman Transition
 - (i) Does the evidence suggest a seamless transition or a change in the use of the land?
 - (ii) Does activity at the site continue beyond the Boudican Revolt?
 - (iii) How far is there assimilation of late Iron Age culture into Roman culture or does acculturation occur?
 - (iv) Is there continued use of field systems (with modest adaptation) as late as the early 2nd century AD?

2. The Agrarian Economy

-
- (i) What are the relative proportions of cereals and livestock and is there a changing dynamic throughout the period?

4. METHODS STATEMENT

4.1 Reporting, Publication and Presentation

4.1.1 Although much of the analysis was carried out for the production of the Assessment Report, further discussions on the wider significance of the site, including reference to key themes identified from the Regional Research Framework (Medlycott, 2011) is needed. The data recovered during the trial trenching evaluation should also be integrated with that recovered in the excavation stage, in order to create a more complete picture of the site development.

4.1.2 The final report will include the following:

1. A summary of the results of the work, introduction and aims and objectives.
2. An account of the methods and results of the archaeological work that describes the features present with their associated finds and environmental data.
3. Interpretation, including a phasing of the site sequence.
4. Specialist reports on the artefacts and environmental data.
5. A discussion and conclusions addressing the research questions, including consideration of the chronology and phasing, settlement, structural evidence, landscape use and economy.
6. Figures and plates to accurately illustrate the archaeological features.
7. References and bibliography of all sources used.

In addition, a short article will be written for publication in *Norfolk Archaeology*, in line with Norfolk County Council's guidance for sites of local significance.

4.2 Task list

Task 1: Management of the project:

Financial administration, maintaining contact with all members of the team, landowner and other stakeholders, including providing progress reports to LanPro, and general management of people and data.

Task 2 Pottery

Task 2.1: Fully record and analyse the pottery assemblage, with regards to the updated research questions detailed in Appendix 6.

Task 2.2: Prepare an assemblage report.

Task 2.3: Integrate the new analysis into the grey literature report.

Task 3: Animal Bone

Task 3.1: The animal bone assemblage has been sufficiently reported on previously and will be integrated into the grey literature report.

Task 4: Flint

Task 4.1: The flint assemblage has been sufficiently reported on previously and will be integrated into the grey literature report.

Task 5: Carbonised Plant Remains

Task 5.1 Identification of material suitable for radiocarbon dating.

Task 5.2 Radiocarbon Date material

Task 5.3 Integration of new data into existing findings and grey literature report.

Task 6: Integrate specialist reports with archaeological information.

Task 7: Produce additional reports:

Task 7.1 Prepare digital excavation archive, and submit to the Archaeological Data Service, York.

Task 7.2 Prepare and submit a short article for *Norfolk Archaeology*

Task 8:

Task 8.1 Select and photographs and drawings for report and publication.

Task 8.2 Reproduce photographs and drawings for report and publication.

Task 9: Writing introductions, overviews and conclusions, editing of text

Task 9.1: Write report; introductions, phasing, stratigraphy, overviews and conclusions

Task 9.2: Submit text and figures to editor for comment and advice

Task 9.3: Update text and figures in the light of comments

Task 10: Prepare report for dissemination

Task 10.1: Editing of all text

Task 10.2: Cross-checking of text and captions

Task 10.3: Integration of text and figures

Task 11: Prepare and submit archive to a suitable institution

Task 11.1: Prepare Paper Archive

Task 11.2: Prepare Artefactual Archive

Task 11.3: Deliver Archive to suitable institution

4.3 Report Layout and Details

Contents

Figures

1. Site Location Map.
2. Site Location Plan
3. Overall Plan of Features.
- 4-16 Plans and sections of Archaeological features.

Plates

Number TBC – approximately 32

Introduction (figures: 1, 2)

Background to the project

Archaeological and historical landscape of the Watton area

Aims and objectives

Excavation Results (figures: 3-16)

A description of features by phase.

Discussion and Conclusions

A discussion of the site, with reference to the pertinent themes identified within the Regional Research Framework, as laid out in 3.2

Bibliography

Appendices

Context Listing

Drawing Listing

Photographic Listing

Sample Listing

Full Finds Listing

Pottery Report: Dr Phil Mills

c. 1500 words

Animal Bone Report: J Richardson

c. 200 words

Flint Report: P. Makey

c. 1100 words

1 Table

Carbonised Plant Remains Report: Dr Diane Alldritt

c. 1200 words

1 Table

5. Resources and programming

5.1 Staffing and equipment

The project team for the post-excavation analysis will consist of:

Paula Ware & Sophie Coy – MAP

Responsibilities: Task 1

SUAREC

Responsibilities: Task 5.2

Martyn Thomas – MAP

Responsibilities: Tasks 2.3, 3, 4, 5.1, 5.3, 6, 7, 8, 9, 10, 11.1

Max Stubbings – MAP

Responsibilities: Task 8.2

Max Greeves – MAP

Responsibilities: Task 11.2

Dr Phil Mills

Responsibilities: Task 2.1, 2.2

TBC – MAP

Responsibilities: Task 11.3

5.1.2 No additional training is required for any of these tasks

5.1.3 All materials and equipment needed to fulfil the tasks defined in the method statement are available to the appointed team members.

5.1.4 All activities will adhere to the Health and Safety and Ethics guidelines of MAP, or to the relevant guidelines of the employing institution of any specialist not employed by MAP.

5.2 Timetable

5.2.1 General statement: It is intended to produce a finalised grey literature report at the earliest opportunity. However, it is also recognised that specialists and participants of this project have other obligations, and the proposed timetable takes this into consideration. The article to be prepared for inclusion in *Norfolk Archaeology* must be submitted by 20th January 2020. It is currently envisioned that the grey literature report should be finished within 12 months, with the deposition of the archive with Norfolk Museum soon after completion.

5.3 Budget

5.3.1 The following is a breakdown of cost by task, as outlined above in section 5.1

Task 1: £1869.70

Task 2: N/A

Task 3: N/A

Task 4: N/A

Task 5: £350 per Radiocarbon Date, maximum £1,750

Task 6: N/A

Task 7: ADS charge: £385.60

Task 8: £1,100

Task 9: £2,200

Task 10: £440

Task 11: Total: £1603.20 including packaging, transport and archive deposition
(£425 for 6 boxes, +£110 per additional box)

5.3.2 The above prices exclude VAT and are valid for 6 months from the date of this document.

6. Bibliography

Medlycott, M. (ed.) 2011 Research and Archaeology Revisited: a revised framework for the East of England, East Anglian Archaeology Occasional Paper 24