Test pits Between Christchurch, Cambridgeshire, and Welney, Norfolk



Archaeological Evaluation Report



February 2009

Client: Anglian Water

OA East Report No: 1072
OASIS No: oxfordar3-55125
NGR: TL 4900 9700 - 5300 9400



One post-medieval and one undated ditch found in test pits between Christchurch and Welney

Archaeological Evaluation

By Rob Atkins BSocSc Diparch

With contributions by Alasdair Brooks BA MA DPhil

Editor: James Drummond-Murray BA MIFA

Illustrator: Sêverine Bézie BA MA

Report Date: February 2009

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Report Number: 1072

Site Name: Christchurch to Welney Pipeline

HER Event No: ENF 121635

Date of Works: 17th- 19th November 2008

Client Name: Anglian Water

Client Ref: Jul 116/08

Planning Ref: N/A

Grid Ref: TL 4900 9700 – 5300 9400

Site Code: NHER 52649 (Test pit 13) and NHER 52650 (Test pit 27)

Finance Code: MUL CTW 08

Receiving Body: Norfolk County Council

Accession No: NHER 52649 (Test pit 13) and NHER 52650 (Test pit 27)

Prepared by: Rob Atkins
Position: Project Officer

Date:

Checked by: James Drummond-Murray

Position: Project Manager

Date: Date

Signed:

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Oxford Archaeology East,

15 Trafalgar Way, Bar Hill, Cambridge, CB23 8SQ

t: 01223 850500 f: 01223 850599

e: oaeast@thehumanjourney.net w: http://thehumanjourney.net/oaeast

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Fig. 1 Location of Test pits within Anglian pipeline route, previous adjacent archaeological work and known cropmarks recorded within Cambridgeshire and Norfolk HER

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Table 1: Test pits

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Summary

An archaeological evaluation was conducted along a proposed sewer pipe route from Christchurch (Cambridgeshire) to Welney (Norfolk). 48 test pits were excavated along the c.4.95km route and these were positioned mostly about 100m apart. In total there were only three features found in the evaluation comprising a post-medieval ditch, an undated ditch and a modern dog burial.

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1 Introduction

1.1 Location and scope of work

- 1.1.1 An archaeological evaluation was conducted as part of a project to construct a sewer pipe, associated pumping stations and reservoir over *c*.4.95km from the village of Christchurch, Cambridgeshire to Welney, Norfolk (Fig. 1; TL 4900 9700 5300 9400). This report deals only with the excavation of test pits along the pipe route. An earlier report has dealt with the evaluation in the area of the reservoir (Atkins 2008b).
- 1.1.2 The archaeological test pit evaluation was undertaken in accordance with a Brief issued on 15th July 2008 (Gore 2008) of Cambridgeshire County Council (CCC), supplemented by a Specification prepared by Rob Atkins (Atkins 2008a) of Oxford Archaeology (OA) East (formerly Cambridgeshire County Council's CAM ARC). Anglian Water are proposing to directional drill the new pipeline with a launch/receptor pit every 100m. The launch pits will be 2m x 2m x 1.5m. The brief stipulated that should the pipeline construction methodology change then so will the level of evaluation and mitigation required. If Anglian Water decided: a) strip a working easement b) create open trenched areas or c) increase the size of the drill access pits then further evaluation would be required. There were also two vacuum stations to be built, one each at Christchurch and Welney.
- 1.1.3 The Brief required that there would be a suitable level of documentary research, including consultation with CHER (Cambridge Historic Environmental Record) and NHER (Norfolk Historic Environmental Record), to set the results in their geographical, topographical, archaeological and historical context (Gore 2008). The likely archaeological potential of the site would then be assessed with regard to current regional and national research issues and preservation criteria.
- 1.1.4 A specification for the site was written on the 18th August 2008 (Atkins 2008a). This specification was written after suitable documentary research had been undertaken. Both the CHER and NHER have supplied records within the route of the pipeline with a buffer of 0.50km around it. A visit to the NHER took place and the air photographic collection was analysed. As a result, a request for ten photographs to be scanned and put on disk was made to the NHER office. A further two photos will be requested from the CUP (Cambridge University Photographic Collection) if features are encountered during test pitting. Two large OS (Ordnance Survey) photographs were too large to scan and these were photocopied. Secondary records were analysed and photocopied where appropriate.
- 1.1.5 The work was designed to assist in defining the character and extent of any archaeological remains within the proposed redevelopment area, in accordance with the guidelines set out in *Planning and Policy Guidance 16 Archaeology and Planning* (Department of the Environment 1990). The results will enable decisions to be made by CCC, on behalf of the Local Planning Authority, with regard to the treatment of any archaeological remains found.
- 1.1.6 The site archive is currently held by OA East and will be deposited with Norfolk County Council in due course.

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1.2 Geology and topography

1.2.1 The underlying geology is Ampthill Clay, overlain by Terrington Beds: younger saltmarsh and tidal creek deposits (silty clay and sandy silt) (BGS (British Geological Society)1995 map sheet 159 and BGS 1980 map sheet 173). The Anglian Water pipeline crosses the Old Croft River and runs through land at c.3m AOD in Christchurch and between 0mOD and 5mOD elsewhere.

1.3 Archaeological and historical background

1.3.1 The proposed pipeline route passes through a landscape of high archaeological potential. Within most of the Cambridgeshire section of the route, the air photographs have been professionally assessed and plotted as part of a planning application in 2005 to build houses in Church Road, Christchurch (Air Photos Services 2005 Land at Christchurch, Area centred on TL 4916 9649, Cambridgeshire:Aerial Photographic Assessment, unpub. Manus. Held by JSAC). Unfortunately cropmarks within the Norfolk section have yet to be plotted. The NHER records and interpretations of the cropmarks are therefore general. Very little archaeological work has taken place within the line of the pipeline and the surrounding areas within both Cambridgeshire and Norfolk parts (Fig. 1). Figure 1 records the Cambridgeshire and Norfolk HER cropmarks and previous archaeological sites. The Norfolk HER cropmarks were within large geographic areas whilst Cambridgeshire HER had the cropmarks as a single TL reference number (Fig. 1).

Cambridgeshire

Cropmarks and evaluation CHER 00145 and CHER MCB 17930

- 1.3.2 The pipeline route within Cambridgeshire passes close to a known Roman settlement at Christchurch which is recorded *c*.300m to the north-east (CHER No. 00145). The field system of this Roman settlement is recorded as running into the area of the proposed pipeline (Air photos Services 2005; Bailey and Spoerry 2005, fig. 1).
- 1.3.3 This air photo survey found a Roman settlement and field system which is the largest and most regular block of ditched fields of Romano-British date in the fens covering c.85ha (quoted in Bailey and Spoerry 2005, 3). This field system appears to be orientated with the Fen Causeway (east-west) and the Old Croft River (north-south). The 2005 evaluation adjacent to the north of the pipeline at Church Road found a Romano-British droveway within the field system (Spoerry and Bailey 2005; CHER MCB 17930). Roddons were recorded in the air photo survey and some were found adjacent to the north of the proposed pipe route in the 2005 evaluation (Bailey and Spoerry 2005; CHER MCB 17930).

Cropmarks CHER 10635

1.3.4 The pipe trench passes through an undated field system (CHER No. 10635) 1km to the south-east of Christchurch. The Cambridgeshire HER reference (10635) was derived from a note from Rog Palmer dated 4th October 1989. The record was referenced to TL 499 956 with field system and ditch recorded as the cropmarks. Rog Palmer wrote, "Part of a regular (brickwork) field system, all straight ditched which continues into Norfolk where not mapped". The air photographs show a north to south and east to west ditches within the field system with the ditches up to 100m apart and they do not

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run quite parallel to each other. Some of the north to south ditches can be seen to run more than 300m and are cut by the present day field boundaries of the development area. Although this field system was not analysed in the 2005 air photo survey it is clear from air photographs that these cropmarks do not equate with the Roman settlement crop marks more than 70m to the south NHER 2477 (see below).

1.3.5 These ditches run into the area of the reservoir and were sampled in this evaluation and proved to be part of a 17th or 18th pasture field system and was likely to have been a pre-enclosure field system (Atkins 2008b). There were two north to south ditches from this system, about 100m apart, and one of these was dated by artefacts to at least the 17th or 18th century. There was evidence of stake holes along the base of both ditch lines showing that the fields were enclosed. It is likely that these fences were for cattle farming for grazing in the dryer summer months. There were a few other undated ephemeral features within the evaluation area but it is likely most of these were of natural origin. The present field boundaries of the development area cut this former field system. The new boundaries were probably established as part of the 18th century enclosing of the fens. The area was also affected by the various Parliamentary Acts to drain and improve the area in the 18th and 19th centuries. This process meant that arable farming took over as the main farming use in fenlands.

Norfolk

Cropmarks (NHER 2477)

1.3.6 The Norfolk HER have recorded NHER 2477 to an area about 1km by 0.6km and defined them as, "cropmarks of possible ring ditches and Roman field system". The possible ring ditches are recorded at TL5038 9521, c.300m to the south-east of the reservoir. The other cropmarks, between c.70m and c.400m to the south of the proposed pipe line, show a large regular planned Roman settlement on a north to south gridded axis. These cropmarks are especially dense here. Roman finds were found on the surface within this settlement c.400m to the south of the development area at TL 5045 9510 and consisted of a small scatter of 2nd to 4th century grey ware, coarse red gritted ware and briquetage (OS inspector: OS records). These cropmarks stop c.70m from the development area. The north to south and east to west ditches can be seen within the development area and further to the north into Cambridgeshire can not be seen joining up with the Roman settlement remains and they run at a slightly different alignment to the settlement remains.

Cropmarks NHER No. 35499 and 13232

1.3.7 To the north of Tipps End, the pipeline goes through an area of cropmarks (given two numbers 35499 and 13232). The NHER have recorded these as "cropmarks of circular features which may date to the Roman period". There are 23 circular enclosures recorded but it should be noted they may not be settlement related. With the NHER record it has also been suggested that the circles may have been caused by (Roman) haystacks.

Cropmarks NHER No. 16618

1.3.8 The pipeline goes through an area of cropmarks of unknown date 1km to the north-west of Welney (NHER 16618). Here, the cropmarks recorded in the NHER were within an

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area c.400m by 200m and they consisted of a circular enclosure, linear feature and a rectilinear enclosure. The photographic evidence, seems to point to there being other features within this area including a pit alignment.

Cropmarks NHER No. 4437

1.3.9 Directly to the north of Welney, the pipeline runs through an area of cropmarks recorded as an area of Roman settlement and salt works. A trench opened up by the farmer in 1998 revealed evidence of Roman settlement and salt-production. Metal detecting on the site a Bronze Age razor, a large amount of Roman pottery, coins and metal finds. Also an Early Saxon girdlehanger, a Late Saxon brooch and medieval and post-medieval coins and metal finds.

History

- 1.3.10 The pipeline runs from Christchurch, Cambridgeshire to Welney, Norfolk. Both areas were within the silt lands of the Wisbech region. This is important as geographically and geologically the Flandrian deposits in this area are mostly marine and as such were unable to support human habitation until the Roman period and later, when some of them emerged from the sea (Hall 1996, 189). This means the site was very marginal from the Roman period to modern days and it is not surprising that many of the Roman settlements in this area were founded probably to use this marginal land affected by tidal brackish water for salt making. Briquetage has been found near the proposed route, for example, a few hundred metres away to the south of the pipeline route and the reservoir site (see above). These briquetage artefacts were almost certainly part of this salt making industry. Although the Romans and the later medieval inhabitants did drain some of the land, it was only in the post-medieval period that the draining became more efficient in this fenland area.
- 1.3.11 The northern parts of the pipeline were in the Wisbech hundred and the VCH lists it under Outwell and Upwell (Pugh 1967, 206-219). Outwell and Upwell had four parishes with Christchurch the southern hamlet of Upwell. In the early 17th century Outwell and Upwell had several large drains cut through the area to drain it (Pugh 1967, 206). The reservoir development area is in the middle of two large drains the Middle Level Drain c.3km to the north-west and the New Bedford River cut directly through to the south of Welney in 1651, c. 3km to the south-east. Despite the initial success of the reclamation, the drying of the land caused the peat to shrink greatly, lowering the land below the height of the drainage channels and rivers, and the reclaimed farmland was still extremely susceptible to flooding. By the end of the 17th century, much of the reclaimed land was again underwater, and would remain so until the advent of steam-powered pumps in the 18th century.
- 1.3.12 The Fenland enclosures took place in this area in the 18th century which would have divided up the land. Outwell, Upwell and Welney were also amongst other neighbouring areas listed in several Parliamentary Fenland Drainage Acts of the 18th and 19th centuries (1747, 1748 (amended 1772) and 1801 (amended 1872)). These acts all emphasise draining and improving the land showing that there was constant need to drain this area better.
- 1.3.13 In the pre-enclosure period, cattle was often grazed during summer on marginal land, fattened up and slaughtered in autumn and the land left fallow during winter. Marginal land only became fit for arable in the 18th century onwards with steam engines used to

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drain land and later for steam ploughing. In the 18th century fen enclosure took place and land was extensively used in marginal fenland areas. Land plots became relatively small and were surrounded by deep drainage ditches. Due to this activity and the various Parliament Acts for drainage land improvement it caused arable farming to be the predominant farming land use in the fenland area.

1.3.14 The earliest map for the area, the 1889 1st Edition Ordnance Survey Map (1: 10 560) shows fields to be relatively small with deep drainage ditches around them.

1.4 Acknowledgements

- 1.4.1 The author would like to thank Anglian Water who commissioned and funded the archaeological work especially Stephen Burrows who organised the scheme. Dick Prescott of Savills liased with the landowners. Ken Goodger of Pates Farm kindly allowed access to his yard and was exceptionally accommodating throughout the project. Alice Cattermole of Norfolk HER was extremely helpful and patient. The project was managed by James Drummond-Murray and this report was also edited by him. The brief for archaeological works was written by Eliza Gore (Gore 2008) of Cambridgeshire County Council in liaison with Ken Hamilton of Norfolk County Council and the specification by Rob Atkins (Atkins 2008a) of Oxford East.
- 1.4.2 I am grateful for specialist analysis from Nina Crummy and Carole Fletcher. Helen Fowler supervised the post-excavation of the artefacts. Louise Bush surveyed in the test pits. Rob Atkins directed the evaluation. Séverine Bézie produced the illustrations.

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2 AIMS AND METHODOLOGY

2.1 Aims

- 2.1.1 The objective of this evaluation was to determine as far as reasonably possible the presence/absence, location, nature, extent, date, quality, condition and significance of any surviving archaeological deposits within the development area.
- 2.1.2 In the event that archaeological remains are present the evaluation will seek to consider appropriate methodologies and surviving archaeological deposits within the development area.

2.2 Methodology

- 2.2.1 Anglian water located 51 receptor pits where drilling would take place within their proposed 4.95km scheme on average one every c.100m (Fig. 1). The location was located on the Ordnance Survey data and Louise Bush using a Leica G.P.S. 1200 located them in the fields with canes and flags over the 17th and 18th November. Although two flags were removed by persons unknown, one was replaced on the 18th by the surveyor whilst the second missing flag was only spotted on the 19th after the surveyor had gone. At the same time the test pits were being located, a JCB excavator machine with a 1.6m wide toothless ditching bucket was used under archaeological supervision to excavate these pits over the 17th and 19th November.
- 2.2.2 All archaeological features and deposits were recorded using OA East's *pro-forma* sheets. Digital and monochrome photographs were taken of all relevant features and deposits. Work took place under generally good weather conditions.

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3 Results

3.1 Introduction

3.1.1 The evaluation excavated 47 of the proposed 51 test pits (Fig. 1). Two pits (nos.12 and 35) were not excavated as there was a large crop within the respective two fields. The line of the pipe route was at the back of both fields and it was considered that the damage that would have been caused to reach both pits would have been too great. One flag had been removed from a small horse paddock in Christchurch (test pit 49). Another test pit (no. 47) had been placed over a concrete tarmac road leading to a field in Christchurch and it was thought that the proposed damage if excavated would have been too great.

3.2 Test Pits

3.2.1 In the 47 test pits excavated there were only two features of probable pre-modern date found (Table 1). As there was so few archaeological features most have been described in a single table. In the vast majority of the test pits the topsoil sealed natural subsoil with no archaeology present.

Test Pit No.	Size (m)	Natural	State of field	Comments
1	2.2 x 1.6 x 0.32	Yellow sands	Stubble	Topsoil a mid yellow brown loam. No archaeology
2	2.3 x 1.6 x 0.43	Yellow sands	Stubble	Topsoil a mid yellow brown loam. No archaeology
3	2.1 x 1.6 x 0.40	Yellow sands	Stubble	Topsoil a mid yellow brown loam. No archaeology
4	2.0 x 1.6 x 0.36	Yellow sands	Grass	Topsoil a mid yellow brown loam. No archaeology
5	2.0 x 1.6 x 0.42	Yellow sands	Grass	Topsoil a mid yellow brown loam. No archaeology
6	2.0 x 1.6 x 0.40	Yellow sands	Grass	Topsoil a mid yellow brown loam. Modern burial with dog skull exposed in pit cutting the natural sands. Bone in excellent condition – dog burial almost certainly in the last <i>c</i> .30 -100 years.
7	2.0 x 1.6 x 0.40	Yellow sands	Grass	Topsoil a mid yellow brown loam. No archaeology
8	2.0 x 1.6 x 0.35	Yellow Sands	Stubble	Topsoil a mid brown loam. No archaeology
9	2.2 x 1.6 x 0.35	Yellow sands	Stubble	Topsoil a mid brown loam. No archaeology
10	2.1 x 1.6 x 0.36	Yellow sands	Stubble	Topsoil a mid brown loam. No archaeology
11	2.0 x 1.6 x 0.35	Yellow sands	Stubble	Topsoil a mid brown loam. No archaeology
12	-	-	Crop	Not excavated
13	2.1 x 1.6 x 0.63	Yellow sands	Stubble	Topsoil sealed a post-medieval ditch (3). Ditch roughly parallel to existing north to south eastern field boundary. 0.7m + wide (probably c.1m wide) and 0.25m deep and filled with a friable mid brown silty sand (2). A single post-medieval ?brick fragment was recovered from the fill of the ditch.
14	2.2 x 1.6 x 0.35	Yellow sands	Stubble	Topsoil a mid brown loam. No archaeology
15	2.0 x 1.6 x 0.38	Yellow sands	Stubble	Topsoil a mid brown loam. No archaeology
16	2.1 x 1.6 x 0.38	Yellow sands	Stubble	Topsoil a mid brown loam. No archaeology
17	2.0 x 1.6 x 0.40	Yellow sands	Just ploughed	Topsoil a mid brown loam. No archaeology
18	2.0 x 1.6 x 0.40	Yellow sands	Just ploughed	Topsoil a mid brown loam. No archaeology
19	2.0 x 1.6 x 0.40	Grey clay silt sand	Just ploughed	Topsoil a grey brown clay silt. No archaeology
20	2.3 x 1.6 x 0.65	Grey sandy clay sealing peat	Just ploughed	Topsoil a grey brown clay silt (0.35m thick) overlay a band of natural grey sandy clay (0.30m) which sealed a peat layer (not excavated). No archaeology

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21	2.1 x 1.6 x 0.75	Mixed clay peaty sealed a bright grey/green sandy silt	Just ploughed	Topsoil a grey brown clay silt (0.35m thick) overlay a mixed clay peat layer (0.4m) sealed a bright grey/green sandy silt (not excavated). No archaeology
22	2.2 x 1.6 x 0.6	Light brown grey sandy clay sealed peat	Just ploughed	Topsoil a grey brown clay silt (0.35) overlay a natural light brown grey sandy clay (0.25m) which in turn sealed a peaty layer (not excavated). No archaeology
23	2.3 x 1.6 x 0.35	Orange grey silty clay	Just ploughed	Topsoil a grey brown clay silt. No archaeology
24	2.5 x 1.6 x 0.38	Yellow sandy silts	Grass	Topsoil a grey brown clay silt. Ceramic ?tile or drain pipe and a 19th century pottery sherd was found in the topsoil. There was a small area of disturbance cutting the natural c.0.5m by 0.3m and 0.1m deep and 19th cent pottery was found in it. Uncertain if a 'real' feature.
25	2.2 x 1.6 x 0.40	Yellow sandy silts	Grass	Topsoil a grey brown clay silt. 1871 'Bun Head' penny found in topsoil. No archaeology.
26	2.0 x 1.6 x 0.32	Yellow sands	Former oil seed rape	Topsoil a grey brown clay silt. No archaeology
27	2.5 x 1.6 x 0.65	Yellow sands	Former oil seed rape	Topsoil a mid grey brown loam (0.32m thick). This sealed an undated ditch which ran roughly north-west to south-east parallel and c.5m to the north-east of a public right of way. The ditch (5) was 1.20m wide and 0.33m deep with a flat base. It was filled with a clean mid brown sandy silt (4).
28	2.0 x 1.6 x 0.35	Yellow sands	Former oil seed rape	Topsoil a mid grey brown loam. No archaeology
29	2.2 x 1.6 x 0.35	Yellow grey sandy silts	Grass	Topsoil a mid grey brown loam. No archaeology
30	2.0 x 1.6 x 0.30	Yellow sands	Grass	Topsoil a mid grey brown loam. No archaeology
31	2.2 x 1.6 x 0.30	Yellow sands	Former oil seed rape	Topsoil a mid grey brown loam. No archaeology
32	2.0 x 1.6 x 0.30	Yellow sands	Former oil seed rape	Topsoil a mid grey brown loam. One c.early 20th century ceramic ribbed land drain ran north to south and cut natural. The land drain had been cut by recent ploughing. No pre-modern archaeology
33	2.2 x 1.6 x 0.35	Yellow sands	Stubble	Topsoil a mid grey brown loam. No archaeology
34	2.1 x 1.6 x 0.35	Yellow sands	Stubble	Topsoil a mid grey brown loam. No archaeology
35	-	-	Mature sugar beat crop	Not excavated due to crop
36	2.0 x 1.6 x 0.30	Yellow sands	Recently seeded	Topsoil a mid grey brown loam. No archaeology
37	2.2 x 1.6 x 0.30	Yellow sands	Recently seeded	Topsoil a mid grey brown loam. Metal object in topsoil was probably a post-medieval handle from a cutlery object. No archaeology
38	2.0 x 1.6 x 0.35	Yellow sands	Recently seeded	Topsoil a mid grey brown loam. No archaeology
39	2.2 x 1.6 x 0.35	Yellow sands	Recently seeded	Topsoil a mid grey brown loam. No archaeology
40	2.1 x 1.6 x 0.35	Yellow sands	Recently seeded	Topsoil a mid grey brown loam. No archaeology
41	2.1 x 1.6 x 0.60	Yellow sands	Just ploughed	Topsoil a mid to dark grey brown loam (0.35m). This sealed a ?subsoil layer (6). This was 0.25m deep and was a clean mid grey brown loam with some mixing with natural near the base of the layer. This test pit was in the corner of the field and this may be deeper here due to ploughing?
42	2.0 x 1.6 x 0.35	Yellow sands	Just ploughed	Topsoil a mid to dark grey brown loam. No archaeology
43	2.0 x 1.6 x 0.38	Yellow sands	Just ploughed	Topsoil a mid to dark grey brown loam. No archaeology
44	2.1 x 1.6 x 0.35	Yellow sands	Just ploughed	Topsoil a mid to dark grey brown loam. No archaeology
45	2.1 x 1.6 x 0.35	Yellow sands	Just ploughed	Topsoil a mid to dark grey brown loam. No archaeology
46	2.2 x 1.6 x 0.35	Yellow sands	Just ploughed	Topsoil a mid to dark grey brown loam. No archaeology



47	2.2 x 1.6 x 0.1m	-	-	Stopped 0.1m below ground level after concrete and tarmac road surface leading to the field was exposed
48	2.2 x 1.6 x 0.35	Yellow sands	Grass	Topsoil a mid to dark grey brown loam. No archaeology
49	-	-	Grass	Horse paddock – flag removed and therefore not excavated
50	2.2 x 1.6 x 0.35	Yellow sands	Recently seeded	Topsoil a mid to dark grey brown loam. No archaeology
51	2.2 x 1.6 x 0.35	Yellow sands	Recently seeded	Topsoil a mid to dark grey brown loam. No archaeology

Table 1: Test pits

- **3.3** Finds by Dr Alasdair Brooks
- 3.3.1 Just five artefacts were recovered from four test pits:
- 3.3.2 Test pit 13 context 2 (fill of ditch 3). A small CBM fragment ?brick. Post medieval.
- 3.3.3 Test pit 24 context 1 (topsoil). 1) A very small pottery sherd of post 1820 -c. 1850 Transfer Printed White Ware . 2) Ceramic drain pipe fragment.
- 3.3.4 Test pit 25 context 1 (topsoil). A 1871 'Bun Head' penny.
- 3.3.5 Test pit 37 context 1 (topsoil). Fe object a possible cutlery handle.

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4 DISCUSSION AND CONCLUSIONS

4.1 Overview

- 4.1.1 Only three archaeological features were found in the evaluation comprising a postmedieval ditch, an undated ditch and a modern dog burial. This lack of archaeological recovery needs to be explained and seems to be due to several factors:
 - 1) The evaluation took place on very low lying land which had been, on the whole, only drained in the post-medieval period. The two ditches found in the evaluation were probably part of 17th or 18th century pasture fields which pre-dated the present field system and which have been found in a previous evaluation (Atkins 2008b).
 - 2) The evaluation route also passed near but not through two known Roman field systems such as cropmark features NHER 2477 (*c*.400m to the south) and NHER 16618 (1km to the north-west). The evaluation did run through some other known cropmarks although some were probably not settlement related (NHER 35499 and 13232) and may have been haystacks. The only pre post-medieval domestic cropmark system the evaluation skirted through was just to the north of Welney (NHER 4437) and here the very limited nature of the works (test pits only one every 100m and only 2m² in size) and this can easily explain why no features or artefacts were found here.

4.2 Significance

4.2.1 The evaluation found extremely limited archaeological remains with only three features uncovered, two of which were post-medieval and modern in date.

4.3 Recommendations

4.3.1 Recommendations for any future work based upon this report will be made by the County Archaeology Office.

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APPENDIX A. HEALTH AND SAFETY STATEMENT

- A.1.1 OA East will ensure that all work is carried out in accordance with relevant Health and Safety Policies, to standards defined in *The Health and Safety at Work, etc. Act, 1974* and *The Management of Health and Safety Regulations, 1992,* and in accordance with the manual *Health and Safety in Fieldwork Archaeology* (SCAUM 1997).
- A.1.2 Risk assessments prepared for the OA East office will be adhered to.
- A.1.3 OA East has Public Liability Insurance. Separate professional insurance is covered by a Public Liability Policy.
- A.1.4 Full details of the relevant Health and Safety Policies and the unit's insurance cover can be provided on request.

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APPENDIX B. BIBLIOGRAPHY

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APPENDIX C. OASIS REPORT FORM

All fields are required unless they are not applicable.

Project De	etails									
OASIS Number Oxfordar3-55125										
Project Name One post-medieval				al and one unda	ated ditch	found in te	est pits betwe	een Chris	stchurch and Welney	
Project Dates (fieldwork) Start 1:			17-11-2008	17-11-2008		Finish	19-11-20	008		
Previous W	ork (by	OA E	ast)	Yes			Future V	Vork N	0	
Project Refe	erence	Code	s	<u> </u>				-		
Site Code	52649 a	nd 526	50		Planni	ing App.	No.	N/A		
HER No.	ENF 12	1635			Relate	ed HER/	OASIS No			
Type of Pro	ioct/To	chnia	uae Hea	d						
Prompt	jecu ie			Local Planning	g Authorit	y - PPG16	 S			
Developmen	it Type	Pin	elines/Cab	les						
•										
Please sel	ect all	tecn	niques	usea:						
★ Aerial Photo	ography -	interpr	etation	Grab-Sa	mpling			Ren	note Operated Vehicle Survey	
Aerial Photo	ography -	new		Gravity-Core			Sample Trenches			
Annotated S	Sketch			Laser Scanning				Survey/Recording Of Fabric/Structure		
Augering				Measure	☐ Measured Survey			Targeted Trenches		
☐ Dendrochro	nological	Surve	y	Metal De	Metal Detectors			▼ Test Pits		
☐ Documenta	ry Search	า		Phosphate Survey				☐ Topographic Survey		
Environmer	ntal Samp	oling		☐ Photogrammetric Survey			Vibr	ro-core		
Fieldwalking	g			Photographic Survey			☐ Visual Inspection (Initial Site Visit)			
Geophysica	al Survey			Rectified	Photogra	aphy				
List feature typ	es using	the NM	IR Monume eriods. If no	nds & Their ent Type Thesau o features/finds	urus and	significant nd, please			A Object type Thesaurus	
Monument			Period			Object			Period	
Ditches			Post Med	lieval 1540 to 1901		pottery	pottery		Post Medieval 1540 to 1901	
burial Modern 19		901 to Present		metal c	metal objrcts		Post Medieval 1540 to 1901			
Select perio			riod					Select period		
Project Lo	ocatio	n								
County	Cambridgeshire + Norfolk		(Site Address (including postcode if possible		postcode if possible)			
District	istrict Fenland; Kings Lynn + WNo		No			ı water pipelii	ne			
Parish	Christchurch and Welney									
HER	Norfolk									
Study Area	4.95km				Nation	al Grid Ref	erence	TL 4900 9700 - 5300 9400		



Project Originators

Organisation	OA EAST
Project Brief Originator	Eliza Gore, Cambridgeshire County Council
Project Design Originator	Rob Atkins, OA East
Project Manager	James Drummond-Murray
Supervisor	Rob Atkins

Project Archives

Physical Archive	Digital Archive	Paper Archive
Norfolk	OA East	Norfolk
52649 and 52650	52649 and 52650	52649 and 52650

Archive Contents/Media

	Physical Contents		Paper Contents
Animal Bones			
Ceramics	\boxtimes	\boxtimes	\boxtimes
Environmental			
Glass			
Human Bones			
Industrial			
Leather			
Metal	\times	\times	\times
Stratigraphic			
Survey			
Textiles			
Wood			
Worked Bone			
Worked Stone/Lithic			
None			
Other			

Digital Media	Paper Media
□ Database	
⊠ GIS	
Geophysics	
	Diary
Illustrations	□ Drawing
☐ Moving Image	Manuscript
Spreadsheets	<u></u> Мар
Survey	Matrices
▼ Text	Microfilm
☐ Virtual Reality	Misc.
	Research/Notes
	⊠ Report
	Sections
	☐ Survey

Notes:

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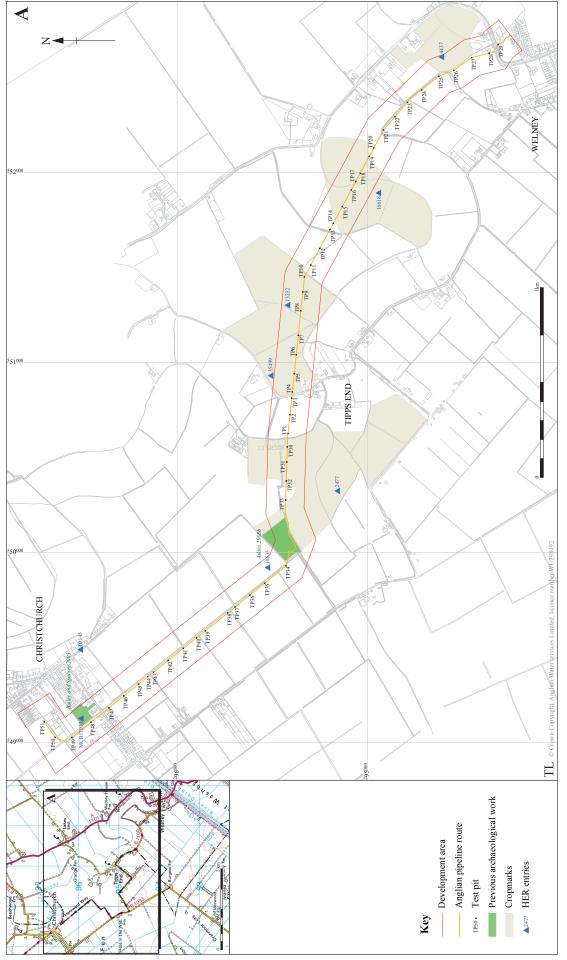


Figure 1: Location of Test pits within Anglian pipeline route, previous archaeological work and known cropmarks recorded within Cambridgeshire and Norfolk HER

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Head Office/Registered Office

Janus House Osney Mead Oxford OX20ES

t: +44(0)1865 263800 f: +44(0)1865 793496 e: info@thehumaniourne

e:info@thehumanjourney.net w:http://thehumanjourney.net

OA North

Mill 3 Moor Lane Lancaster LA11GF

t:+44(0)1524 541000 f:+44(0)1524 848606 e:oanorth@thehumanjourney.net w:http://thehumanjourney.net

OAEast

15 Trafalgar Way Bar Hill Cambridgeshire CB238SQ

t:+44(0)1223 850500 f:+44(0)1223 850599 e:oaeast@thehumanjourney.net w:http://thehumanjourney.net/oaeast

OA Méditerranée

115 Rue Merlot ZAC La Louvade 34 130 Mauguio France

t:+33(0)4.67.57.86.92 f:+33(0)4.67.42.65.93 e:oamed@oamed.fr w:http://oamed.fr/



Director: David Jennings, BA MIFA FSA

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