

CETG19



LAND NORTH OF CHURCH END, TWYNING, GLOUCESTERSHIRE

ARCHAEOLOGICAL EVALUATION

commissioned by Lanpro Services
on behalf of Land Allocation Ltd

November 2019

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PROJECT INFO:

HA Project Code **CETG19** / HAS No. **1367** / NGR **SO 8964 3661** / Parish **Twynning** / Local Authority
Tewkesbury Borough Council / OASIS Ref. **headland3-374713**

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part of the **RSK** Group



PROJECT SUMMARY

Archaeological field evaluation, via trial trenching, was undertaken by Headland Archaeology (UK) Ltd on land north of Church End, Twyning, Gloucestershire. The archaeological evaluation identified no features or deposits of archaeological significance, except for remnants of a possible former hedge line matching the course and orientation of an extant hedge line to the east.

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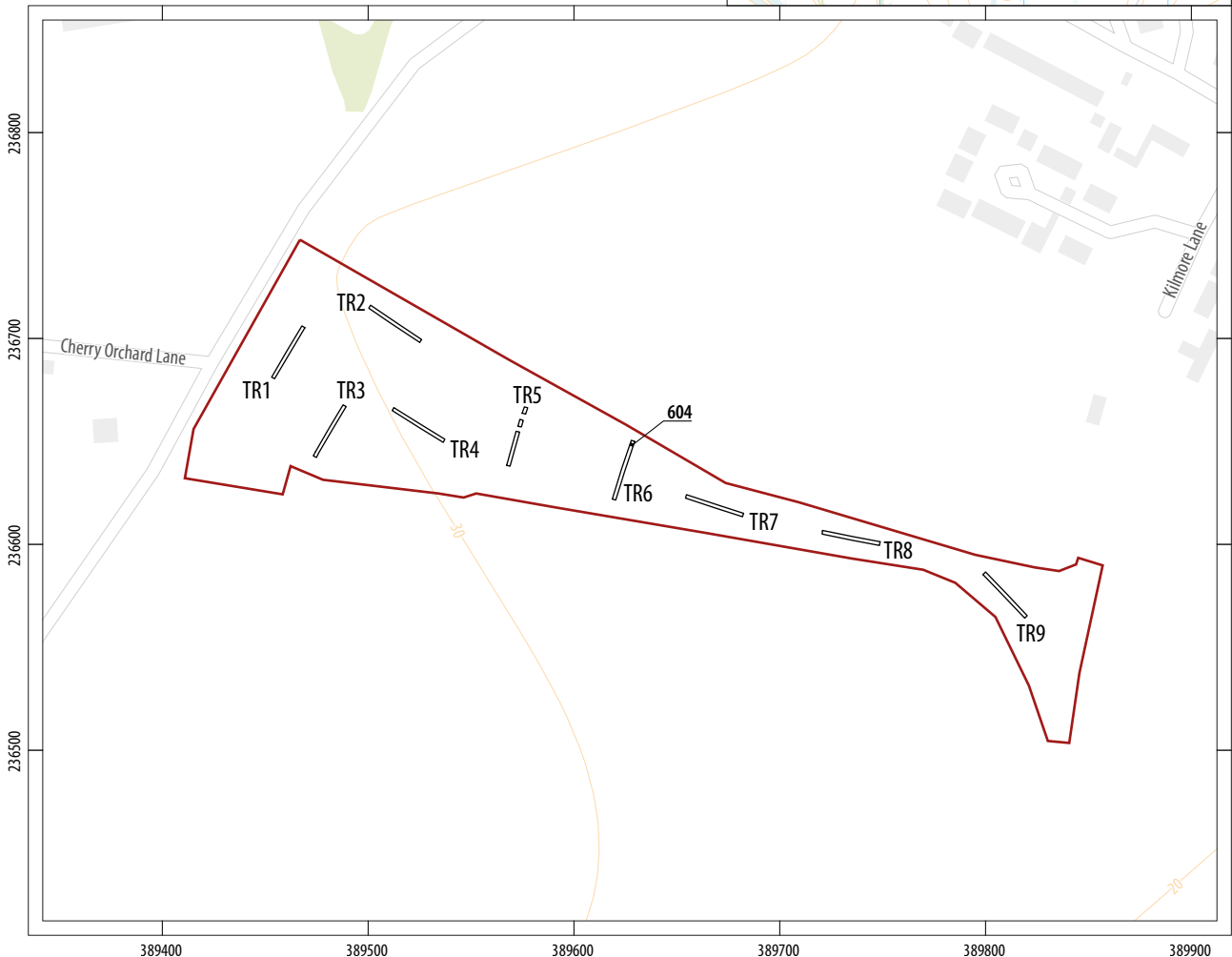
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Land north of Church End
 Twynning
 Gloucestershire



0 200km
 1:12,500,000 @ A4



0 50m
 1:3,500 @ A4

— development boundary
 — trench location



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ILLUS 1 Site location

LAND NORTH OF CHURCH END, TWYNING, GLOUCESTERSHIRE

ARCHAEOLOGICAL EVALUATION

1 INTRODUCTION

Headland Archaeology (UK) Ltd was commissioned by Lanpro Services, on behalf of their client Land Allocation Ltd, to undertake a programme of trial trench evaluation on Land North of Church End, Twynning, Gloucestershire. This document presents the background to and the results of the archaeological evaluation.

1.1 PLANNING BACKGROUND

The archaeological evaluation was undertaken to inform a planning application for a residential development, with associated access roads and infrastructure (Lanpro 2019a).

Following the submission of a desk-based assessment and the results of a geophysical survey of the site, the Gloucestershire County Council Archaeologist recommended that a programme of evaluation was undertaken to determine the presence and significance of any potential archaeological remains. Following further consultation with the county archaeologist it was agreed that the archaeological potential of the site could be evaluated through trenching 2% of the site area, with a contingency for a further 2% area trenching if the presence of extensive or complex archaeological remains required this (Lanpro 2019a).

Headland Archaeology was commissioned to undertake the required work in accordance with a Written Scheme of Investigation (WSI) prepared by Lanpro Services (Lanpro 2019a) and agreed with the archaeological advisor to the local planning authority.

1.2 SITE DESCRIPTION

The proposed application area (PDA) (NGR 389640, 236610) measured 2.6ha and was bounded to the south by an unclassified lane. To the

west was the A38 road leading toward the village of Twynning and to the north and east the site was bounded by fields (illus 1).

The bedrock geology comprised of Charmouth Mudstone Formation – a mudstone sedimentary bedrock formed approximately 183 to 199 million years ago in the Jurassic Period. The local environment was previously dominated by shallow seas (NERC 2019).

No superficial deposits were recorded (NERC 2019). The soils were classified in the Soilscape 9 association, characterised as lime-rich loamy and clayey soils with impeded drainage (Cranfield University 2019).

1.3 ARCHAEOLOGICAL BACKGROUND

The DBA (Lanpro 2019b) identified no evidence of Early Prehistoric, Iron Age, Roman or Medieval activity on the proposed development site.

The available archaeological records, combined with the results of the analysis of historical mapping and previous archaeological investigations in the surrounding area, together with a geophysical survey of the site, suggest that there is low potential for the site to contain archaeological remains of a prehistoric, Roman or early medieval date. The proposed development area is likely to have remained in agricultural use through at least the medieval and post-medieval periods, and remains dating to these periods are likely to relate to agricultural activity and be of agricultural significance.

2 AIMS AND OBJECTIVES

The overall objective of the evaluation was to assess the site for previously unrecorded archaeological remains and record the location, extent, date, nature, character and relationships of any surviving archaeological remains uncovered in order to support



ILLUS 2 General view of Trench 9, looking south-east

the determination of the planning application. The results of the evaluation are to be used to establish the potential impacts of the development scheme upon any archaeological features uncovered and determine the need for further mitigation.

Specifically, the evaluation sought to:

- › Excavate archaeological evaluation trenches as identified within the WSI;
- › Identify archaeological features and deposits of interest;
- › Excavate and record any identified archaeological features and deposits to a level to enable their nature and significance to be identified;
- › Undertake sufficient post-excavation analysis to confidently interpret archaeological features identified during site works;
- › Undertake sufficient post-excavation analysis of artefacts and samples to identify the potential scope for detailed analysis in future mitigation;
- › Report the results of the any investigation in the field and subsequent post-excavation analysis and place these results within their local and regional context;
- › Compile and deposit a site archive at a suitable repository;

- › Identify areas with significant archaeological potential and areas where archaeological potential is considered non-significant.

The results of the evaluation will be used to describe the significance of heritage assets potentially affected by the development, allowing the planning authority to make an informed assessment of any potential impacts on the historic environment in line with Paragraph 189 of the National Planning Policy Framework.

3 METHOD

The fieldwork was conducted in accordance with the above mentioned WSI and method statement and in accordance with the following documents:

- › *Code of Conduct* (Chartered Institute for Archaeologists, 2014a)
- › *Standard and Guidance for Archaeological Field Evaluations* (Chartered Institute for Archaeologists, 2014b)

The archaeological works were carried out between the 12th and 14th November 2019 during a period of nationwide flooding. A total of nine evaluation trenches, each measuring 30m in length, were excavated across the site. Prior to excavation, utility plans were consulted, and a cable avoidance tool was used to check for the presence of potential buried services.



ILLUS 3 General view of Trench 7, looking west

Trenches were excavated using a 14 tonne, rubber tracked 360° mechanical excavator fitted with a bladed bucket, to depths where archaeological features were identified, or geological deposits encountered. Topsoil and subsoil deposits were separated and banded to either side of the trenches awaiting reinstatement. Ground conditions were extremely wet with trenches, particularly in the western (low lying) part of the site, subject to ground water ingress post excavation.

A live sewer pipe was identified crossing Trench 5 on a north-south alignment. The service was left undisturbed with the trench continued to the north and south.

Exposed archaeological remains were recorded on Headland Archaeology pro forma record sheets. Trenches were recorded and photographed as soon as possible following excavation to mitigate the effects of groundwater ingress. Hand excavation of several anomalies was undertaken to confirm their origin as non-archaeological and assist understanding of the site and formation.

All recording followed standard archaeological guidelines as set out by the Chartered Institute for Archaeologists (CIfA). The recorded contexts were assigned unique numbers and recording was undertaken on Headland Archaeology pro forma trench and context record sheets. Digital and black and white photographs were taken of all trenches, with a graduated metric scale clearly visible. An overall site plan of the trenches and recorded features was digitally produced. Digital planning and surveying were undertaken using a Trimble dGPS system.

4 RESULTS

A trench location plan is presented in Illustration 1 and a summary of trenches and recorded contexts is given in Appendix 1.

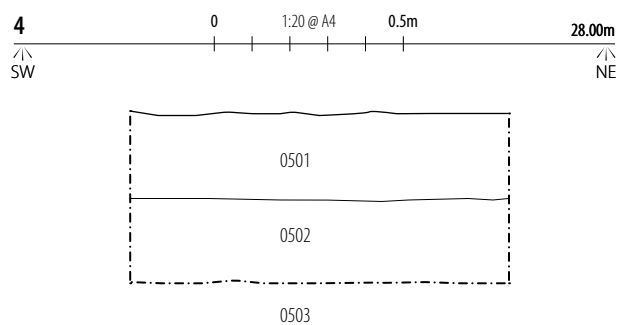
4.1 GENERAL STRATIGRAPHY AND TOPOGRAPHY

Slight variations in geological deposits were identified across the site. The predominant geology (identified in Trenches 1, 2, 4, 5, 6 and 9) consisted of mid brownish-yellow clay and gravels at depths measuring between 0.35m and 0.50m (illus 2 & 4). Within Trench 3 geological deposits comprised a mid to light brownish-yellow sand and gravel with patches of clay at a depth of 1.00m, and within Trenches 7 and 8 mid reddish-brown clay and gravels were observed at a depth of 0.45m (illus 3).

With the exception of the anomalous Trench 3, the variations in geology appear to correlate with the changes in the site topography, with Trenches 7 and 8 being located at the lowest point of the development area.

4.2 ARCHAEOLOGICAL FEATURES

A single linear feature [604] was identified at the northern end of Trench 6. Measuring 1.65m in width and crossing the trench on a NEE-SWW alignment, the feature was not excavated and recorded in plan only due to the ingress of groundwater. The feature was clearly visible cutting geological deposits (603) at a depth of 0.35m below



ILLUS 4 Representative section of Trench 5

ground level, however disturbance was also noted in the overlying subsoil deposit (602). The feature is considered likely to represent the remains of a former hedge line; a historical continuation of the north-eastern modern boundary of the field prior to a later realignment further to the north.

4.3 BLANK TRENCHES

No archaeological finds, features or deposits were identified within Trenches 1, 2, 3, 4, 5, 7, 8 and 9.

5 DISCUSSION

Archaeological evaluation of Land North of Church End, Twyning, Gloucestershire, has revealed a distinct lack of archaeological remains, with eight of the nine trenches archaeologically sterile. The potential former hedge line (0604) in Trench 6 does not appear on Ordnance Survey mapping, but given its occurrence at a relatively shallow depth is likely to be of relatively recent origin.

The waterlogged nature of the site is perhaps indicative of its unsuitability for settlement, a conclusion supported by the results of the trial trenching, geophysical survey and desk-based assessment.

6 REFERENCES

- Lanpro 2019a *Written Scheme of Investigation for Archaeological Evaluation Trenching: Land North of Church End, Twyning, Gloucestershire* Lanpro Services
- Lanpro M 2019b *Archaeological Desk-Based Assessment: Land North of Church End, Twyning, Gloucestershire* Lanpro Services
- Chartered Institute for Archaeologists (CIfA) 2014 *Code of Conduct* (Reading) <http://www.archaeologists.net/sites/default/files/CodesofConduct.pdf> accessed November 2019
- Chartered Institute for Archaeologists (CIfA) 2014 *Standard and guidance for archaeological field evaluation* (Reading) http://www.archaeologists.net/sites/default/files/CIfAS&GFieldevaluation_1.pdf accessed November 2019
- Cranfield University 2019 *Cranfield Soil and Agrifood Institute Soilscales* www.landis.org.uk/soilscales/ accessed November 2019
- Natural Environment Research Council (NERC) 2019 *British Geological Survey* <http://www.bgs.ac.uk> accessed November 2019

7 APPENDICES

APPENDIX 1 TRENCH AND CONTEXT REGISTER

DBGL = Depth below ground level

LOE = Limit of Excavation

R.I.P = Recorded in Plan

TR01	ORIENTATION	L (M)	W (M)	AV. D (M)
	NNE-SSW	30	1.80	0.47–0.60
CONTEXT	DESCRIPTION	DBGL (M)		
0101	Topsoil- Mid greyish brown sandy clay	0–0.23		
0102	Subsoil- Mid yellowish brown sandy clay	0.23–0.43		
0103	Natural- Mid brownish yellow clay and gravels	0.43+ (L.O.E)		

Summary: No archaeological deposits present

TR02	ORIENTATION	L (M)	W (M)	AV. D (M)
	WNW-ESE	30	1.80	0.40–0.45
CONTEXT	DESCRIPTION	DBGL (M)		
0201	Topsoil- Mid greyish brown sandy clay	0–0.22		
0202	Subsoil- Mid yellowish brown sandy clay	0.22–0.42		
0203	Natural- Mid/light yellowish brown clay and gravels	0.42+ (L.O.E)		

Summary: No archaeological deposits present

TR03	ORIENTATION	L (M)	W (M)	AV. D (M)
	NNE-SSW	30	1.80	0.45–1.00
CONTEXT	DESCRIPTION	DBGL (M)		
0301	Topsoil- Mid greyish brown sandy clay	0–0.50		
0302	Subsoil- Mid reddish brown sandy clay	0.50–1.00		
0303	Natural- Mid/light brownish yellow sand and gravel with patches of clay	1.00 (L.O.E)		

Summary: No archaeological deposits present

TR04	ORIENTATION	L (M)	W (M)	AV. D (M)
	WNW-ESE	30	1.80	0.42–0.50
CONTEXT	DESCRIPTION	DBGL (M)		
0401	Topsoil- Mid greyish brown sandy clay	0–0.26		
0402	Subsoil- mid yellowish brown sandy clay	0.26–0.50		

0403	Natural- Mid brownish yellow clay and gravel	0.50 (L.O.E)
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Summary: No archaeological deposits present

TR05	ORIENTATION	L (M)	W (M)	AV. D (M)
	N-S	26	1.80	0.50–0.55
CONTEXT	DESCRIPTION	DBGL (M)		
0501	Topsoil- Mid greyish brown sandy clay	0–0.23		
0502	Subsoil- Mid yellowish brown sandy clay	0.23–0.45		
0503	Natural- Mid/light yellowish brown clay and gravels	0.45+ (L.O.E)		

Summary: No archaeological deposits present

TR06	ORIENTATION	L (M)	W (M)	AV. D (M)
	N-S	30	1.80	0.35
CONTEXT	DESCRIPTION	DBGL (M)		
0601	Topsoil- Mid greyish brown sandy clay	0–0.20		
0602	Subsoil- Mid yellowish brown sandy clay	0.20–0.35		
0603	Natural- Light brownish yellow clay and gravels	0.35+ (L.O.E)		
0604	Cut of Poss. Hedge line >1.8m (L) x 1.65m (W)	R.I.P		
0605	Fill of [0604] Hedge line	R.I.P		

Summary: No archaeological remains present, except for a possible hedge line. A lot of surface water partially flooding the trench

TR07	ORIENTATION	L (M)	W (M)	AV. D (M)
	E-W	30	1.80	0.45–0.50
CONTEXT	DESCRIPTION	DBGL (M)		
0701	Topsoil- Mid greyish brown sandy clay	0–0.25		
0702	Subsoil- Mid orangey brown sandy clay	0.25–0.45		
0703	Natural- Mid reddish brown clayey gravel	0.45+ (L.O.E)		

Summary: No archaeological remains present

TR08	ORIENTATION	L (M)	W (M)	AV. D (M)
	E-W	30	1.80	0.45
CONTEXT	DESCRIPTION	DBGL (M)		
0801	Topsoil- Mid greyish brown sandy clay	0–0.20		
0802	Subsoil- Mid orangey brown sandy clay	0.20–0.45		
0803	Natural- Mid reddish brown clay and gravels	0.45+ (L.O.E)		

Summary: No archaeological remains present

TR09	ORIENTATION	L (M)	W (M)	AV. D (M)
	NW-SE	30	1.80	0.50
CONTEXT	DESCRIPTION	DBGL (M)		
0901	Topsoil- Mid greyish brown sandy clay	0-0.20		
0902	Subsoil- Mid orangey brown sandy clay	0.20-0.45		
0903	Natural- Light brownish yellow clay and gravels	0.45+		

Summary: No archaeological remains present

APPENDIX 2 OASIS DATA COLLECTION FORM: ENGLAND

OASIS ID: *headland3-374713*

PROJECT DETAILS

Project name	Land North of Church End, Twyning
Short description of the project	Archaeological field evaluation, via trial trenching, was undertaken by Headland Archaeology (UK) Ltd on land north of Church End, Twyning, Gloucestershire. The archaeological evaluation identified no features or deposits of archaeological significance, except for remnants of a possible hedge line that appears to line up with an existing one to the East.
Project dates	Start: 12-11-2019 End: 14-11-2019
Previous/future work	No / Not known
Any associated project reference codes	CETG19 - Sitecode
Type of project	Field evaluation
Site status	None
Current Land use	Cultivated Land 1 - Minimal cultivation
Monument type	N/A
Significant Finds	N/A
Methods & techniques	"Targeted Trenches"
Development type	Rural residential
Prompt	Planning condition
Position in the planning process	Pre-application

PROJECT LOCATION

Country	England
Site location	Gloucestershire Tewkesbury Twyning Land North of Church End, Twyning, Gloucestershire
Postcode	GL20 6JU
Study area	2.6 Hectares
Site coordinates	SO 8964 3661 52.027384333359 -2.15101592855 52 01 38 N 002 09 03 W Point
Height OD / Depth	Min: 0m Max: 0m

PROJECT CREATORS

Name of Organisation	Headland Archaeology (UK) Ltd
Project brief originator	Archaeological Advisor to LPA
Project design originator	Lanpro Services
Project director/manager	Luke Craddock-Bennett
Project supervisor	Tom Cochrane
Type of sponsor/funding body	Developer
Name of sponsor/funding body	Land Allocation Ltd

PROJECT ARCHIVES

Physical Archive Exists?	No
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Digital Archive recipient	The Wilson Museum Cheltenham
Digital Archive ID	Awaiting Accession No.
Digital Contents	"none"
Digital Media available	"Images raster / digital photography","Survey"
Paper Archive recipient	The Wilson Museum Cheltenham
Paper Archive ID	Awaiting Accession No.
Paper Contents	"none"
Paper Media available	"Context sheet","Diary","Photograph","Report"

PROJECT BIBLIOGRAPHY 1

Publication type	Grey literature (unpublished document/manuscript)
Title	Land North of Church End, Twynning, Gloucestershire: Archaeological Evaluation
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