

Northamptonshire Archaeology

Archaeological Geophysical Evaluation of land adjacent to Norwich Road, Scole, Norfolk September 2011



Northamptonshire Archaeology

2 Bolton House Wootton Hall Park Northampton NN4 8BE t. 01604 700493 f. 01604 702822 e. sparry@northamptonshire.gov.uk

w. www.northantsarchaeology.co.uk



John Walford

Adrian Butler

Report 11/221

October 2011

Event Number: ENF127884



STAFF

Project Manager: Adrian Butler MA BSc AlfA

Fieldwork: John Walford MSc

Sam Egan BSc Robyn Pelling BA

Text and Illustrations: John Walford

Adrian Butler

QUALITY CONTROL

	Print name	Signed	Date
Checked by	Pat Chapman	\mathcal{PC}	27/10/2011
Verified	Andy Chapman	AC	27/10/2011
& Approved by	7 tilay Ghapinan		

NORWICH ROAD, SCOLE

OASIS REPORT FORM

PROJECT DETAILS				
Project name	Archaeological Geo	ophysical Evaluation of land adjacent to Norwich		
	Road, Scole, Norfolk September 2011			
Short description	Northamptonshire Archaeology was commissioned to carry out magnetometer survey in advance of a proposed development scheme at Norwich Road, Scole, Norfolk. An area of c 4.6ha was subject to detailed magnetometer survey. This revealed a complex of ditches of uncertain interpretation. Their layout is suggestive of an enclosure of Iron Age or Romano-British date, but their alignment with a pair of adjacent field boundaries raises the possibility that they are of more recent origin.			
Project type	Geophysical survey			
Site status	None			
Previous work	None			
Current Land use	Arable			
Future work	Unknown			
Monument type/ period	Iron Age or Romano-British settlement (possible)			
Significant finds	The state of the s			
PROJECT LOCATION				
County	Norfolk			
Site address	Norwich Road, Sco	le		
Study area	c 4.6ha			
OS Easting & Northing	TM 1542 7943			
Height OD				
PROJECT CREATORS				
Organisation	Northamptonshire Archaeology (NA)			
Project brief originator	Norfolk County Council (NCC)			
Project Design originator	NA			
Director/Supervisor	John Walford			
Project Manager	Adrian Butler			
Sponsor or funding body	Chaplin Farrant Ltd.			
PROJECT DATE				
Start date	16 September 2011			
End date	25 October 2011			
ARCHIVES	Location	Content		
Physical	N/A			
Paper	NA	Site survey records		
Digital	NA	Geophysical survey & GIS data		
BIBLIOGRAPHY	Journal/monograph, published or forthcoming, or unpublished client report			
Title	Archaeological Geophysical Evaluation of land adjacent to Norwich Road, Scole, Norfolk September 2011			
Serial title & volume	Northamptonshire Archaeology Reports 11/221			
Author(s)	John Walford & Adrian Butler			
Page numbers	4			
Date	24 October 2011			

Contents

1	INTRODU	CTION	1		
2	TOPOGRA	1			
3	ARCHAEOLOGICAL BACKGROUND				
4	METHODOLOGY				
5	SURVEY RESULTS				
6	CONCLUS	3			
	BIBLIOGR	4			
	Figures				
	Fig 1 Fig 2 Fig 3 Fig 4	Site Location Magnetometer Survey Results Magnetometer Survey Interpretation Repeat Survey Data Grids	1:20,000 1:2,500 1:2,500 1:1000		

ARCHAEOLOGICAL GEOPHYSICAL EVALUATION
LAND ADJACENT TO NORWICH ROAD, SCOLE, NORFOLK

SEPTEMBER 2011

EVENT NUMBER: ENF127884

ABSTRACT

Northamptonshire Archaeology was commissioned to carry out magnetometer survey in

advance of a proposed development scheme at Norwich Road, Scole, Norfolk. An area

of c 4.6ha was subject to detailed magnetometer survey. This revealed a complex of

ditches of uncertain interpretation. Their layout is suggestive of an enclosure of Iron Age

or Romano-British date, but their alignment with a pair of adjacent field boundaries

raises the possibility that they are of more recent origin.

1 INTRODUCTION

Northamptonshire Archaeology (NA) was commissioned by Chaplin Farrant Ltd to carry

out detailed geophysical survey to inform a planning application on land east of Norwich

Road, Scole, Norfolk. The survey area consisted of a single arable field, c 4.6ha in

extent, centred at NGR 615420 279430 (Fig 1). The aim of the survey was to determine

whether the site contained archaeological remains which could be damaged or

destroyed by the proposed development and therefore inform on the need for further

assessment work.

2 TOPOGRAPHY AND GEOLOGY

The site is located on the northern edge of Scole, Norfolk. The field in question is

situated immediately to the east of the Norwich Road and north-west of the limit of

housing. There is a single property, 'Red House' in the north-western corner, arable

fields to the north and east, a pasture field to the south and allotments and a playing field

to the south-east.

Page 1 of 4

The solid geology of the area has been mapped as White Chalk; the drift is on the boundary between Diamicton Till (north and north-east) and Sand and Gravel (south-west) (BGS 2011).

3 ARCHAEOLOGICAL BACKGROUND

To date no archaeological work has been carried out in the proposed development area, although it is situated in a region of some archaeological interest. The site lies adjacent to the *Pye Road* Roman road (Norwich Road; Albone, 2011), and immediately opposite from '*High House*', a 17th century timber framed building (EH list entry no. 1373334). 500m to the south of the site, numerous interventions have located a Roman town and possible fort (NGR: TM149 786 http://archaeologydataservice.ac.uk/archsearch/record. isf?titleId=1076775).

Features and artefacts of both Late and Early Prehistoric date have been located in the surrounding landscape (ibid). The site lies within the area of the Scole-Dickleburgh coaxial field system (Albone, 2011).

4 METHODOLOGY

The survey was conducted with Bartington Grad 601-2, twin sensor array, vertical component fluxgate gradiometers (Bartington and Chapman 2003). These are standard instruments for archaeological survey and can resolve magnetic variations as slight as 0.1 nanoTesla (nT).

A tape measure and optical square was were used to divide the survey area into a grid of 30m squares, and this grid was tied in to the Ordnance Survey National Grid with a Leica System 1200 dGPS. The gradiometers were then carried at a brisk but steady pace through each grid square, collecting data along 1m spaced traverse lines. Measurements were automatically triggered every 0.25m along the traverses, giving a total of 3600 measurements per square. A single grid of data was recollected on each day of survey, for quality management purposes as required by Norfolk Historic Environment Service (Albone 2011).

All fieldwork methods complied with the guidelines issued by English Heritage and by the Institute for Archaeologists (EH 2008; IfA forthcoming).

The survey data was processed using Geoplot 3.00v software. Striping, caused by slight mismatches in sensor balance, was removed using the 'Zero Mean Traverse' function and destaggering of the data was performed as necessary.

The processed data is presented in this report in the form of a grey-tone plot, at a scale of +/- 4nT black/white. The plot has been scaled, rotated and resampled (georectified) for display against the Ordnance Survey base mapping (Fig 2). An interpretative overlay has been produced and is shown in Figure 3. A plot of the minimally processed repeat survey data is given in Figure 4.

5 SURVEY RESULTS

A set of positive anomalies describe a likely sub-rectangular ditched enclosure adjacent to the Norwich Road. There appears to be a small extension to the north, possibly a separate enclosure, giving an overall length of c 97m. The large enclosure is divided into two by a positive magnetic linear anomaly, probably representing a ditch that cuts east to west across the enclosed area. A discrete positive anomaly in the southern part of the enclosure may indicate a pit. The survey did identify further discrete anomalies inside the enclosure, but these are not clear enough to interpret with confidence.

The south-western corner of the survey area was found to contain positive linear anomalies which perhaps describe part of a sub-rectangular ditched enclosure.

The date of the main enclosure is uncertain. Its morphology suggests it could be a settlement enclosure of Iron Age or Romano-British date, but the fact it aligns closely with field boundaries on the opposite side of Norfolk Road argues for a later origin. Of course, it is also possible that it represents an early enclosure preserved and fossilised in a later configuration of fields.

Positive magnetic linear anomalies, interspersed with strong dipolar (paired positive/negative) magnetic anomalies indicating ferrous debris, follow a north - south alignment near the eastern boundary of the site. These, and further examples on a south-east to north-west orientated in the north of the survey area are likely to represent

the remains of historic field boundaries, removed between the 18th and 20th centuries (www.historic-maps.norfolk.gov.uk/emap).

6 CONCLUSION

The survey has located a ditched enclosure of indeterminate date, which has some possible discrete internal features. It could represent an Iron Age or Romano-British site, or part of a later system of field boundaries. This site clearly extends across the western boundary into the current line of Norwich Road.

BIBLIOGRAPHY

Albone, J, 2011 Brief for Archaeological Evaluation by Geophysical Survey at Land Adjacent to Norwich Road, Scole, Norfolk, Norfolk Historic Environment Service

Bartington, G, and Chapman, C, 2003 A high-stability fluxgate magnetic gradiometer for shallow geophysical survey applications, *Archaeological Prospection*, **11**, 19-34

BGS 2011 <u>www.bgs.ac.uk/geoindex.htm</u> British Geological Survey 1:625,000 Online Mapping, accessed 23/09/11

EH 2008 Geophysical Survey in Archaeological Field Evaluation, English Heritage

IfA 2011 (forthcoming), *The Use of Geophysical Techniques in Archaeological Evaluations*, Institute for Archaeologists

Norfolk County Council 2011 <u>www.historic-maps.norfolk.gov.uk/emap</u>, accessed 18/10/2011

Northamptonshire Archaeology a Service of Northamptonshire County Council

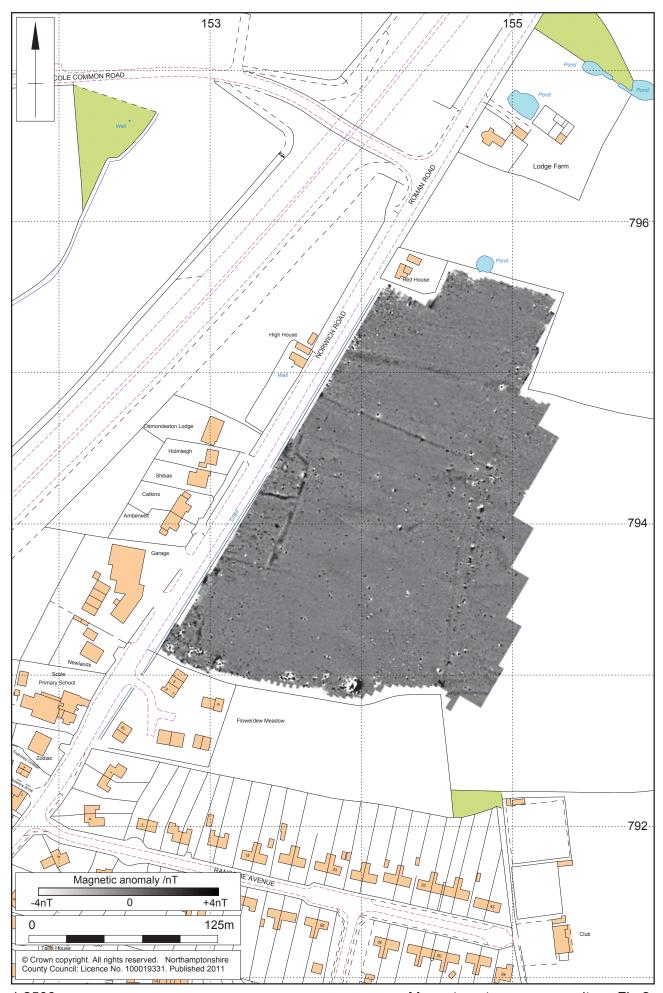
24 October 2011



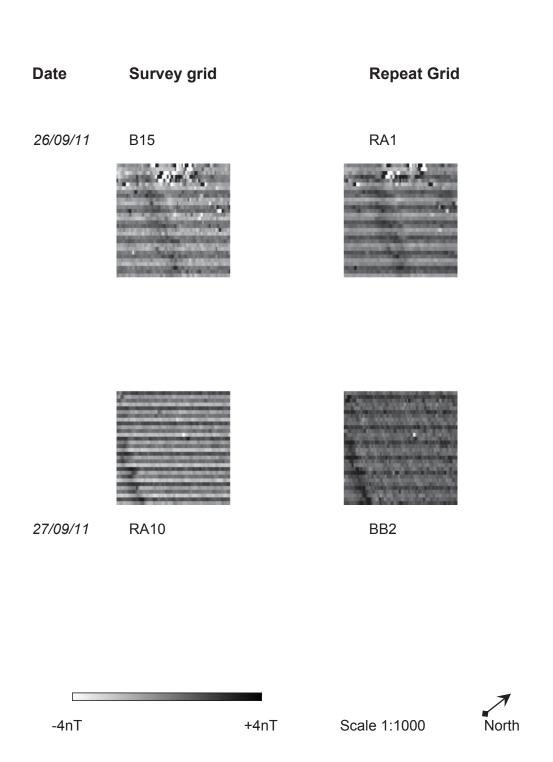




Scale 1:10,000 Site location Fig 1







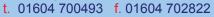


Northamptonshire County Council

Northamptonshire Archaeology

Northamptonshire Archaeology 2 Bolton House Wootton Hall Park

Wootton Hall Park Northampton NN4 8BE



e. sparry@northamptonshire.gov.uk

w. www.northantsarchaeology.co.uk





