

**YCCART 2013 / Y 3
North Somerset HER 2013/90**

**Gradiometry Survey at Iwood
(Mr Collins Field 9)**

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RESEARCH TEAM (YCCART)**

General Editor: Vince Russett



Setting up the 601 on a quiet spot.

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Abstract

YCCCART has a project to establish the extent of the Congresbury Roman kiln sites and early settlement at Iwood. A gradiometry survey has revealed the continuation of the possible track way revealed in an adjacent field and the site of what may be a hearth, close to this track way.

Acknowledgements

A Heritage Lottery Grant enabled the purchase, by YCCCART, of a Bartington 601 gradiometer without which this survey could not have been undertaken.

This survey would also not have been carried out without the willing permission of the landowner, Mr A Collins.

The authors are grateful for the hard work by the members of YCCCART in performing the survey and Vince Russett for editing this report.

Introduction

YCCCART is one of a number of Community Archaeology teams across North Somerset, supported by the North Somerset Development Management Team.

The objective of the Community Archaeology in North Somerset (CANS) project is to undertake archaeological fieldwork to enable a better understanding and management of the heritage of the area while recording the activities and locations of the research carried out.

Site Location



Fig 1: Site location indicated by red arrow.

The site is close to the hamlet of Iwood, in the parish of Congresbury in North Somerset, some 12 miles south of Bristol. (See site report in Appendix for GPS readings)

The field is privately owned, with no public access.

Land use and geology

The field lies on the alluvial clays of the Northmarsh, in the floodplain of the Congresbury Yeo. It is currently used for grazing cattle and sheep.

Historical & archaeological context

Please see YCCART report 2010/ Y16 and 2010/Y32 on this site for the history and archaeology of Iwood.



Fig 2: 1839 Map. Courtesy of Bristol Record Office BRO 37959/9. The surveyed field is number 1866 on the map.

The Tithe apportionment record, relating to the 1839 map above, shows the field 1866 as pasture called Riding Mead owned and occupied by Elizabeth Willett.

Survey objectives

The survey was undertaken in order to continue to investigate the extent of the Congresbury Romano British pottery kilns and settlement at Iwood.

Methodology

The survey of field was undertaken during the period May 2013 by teams from YCCCART, using a Bartington 601 gradiometer, with settings as per the site record in the Appendix.

The completed survey was downloaded to a TerraSurveyor program.

TerraSurveyor composites were adjusted using the following filters:

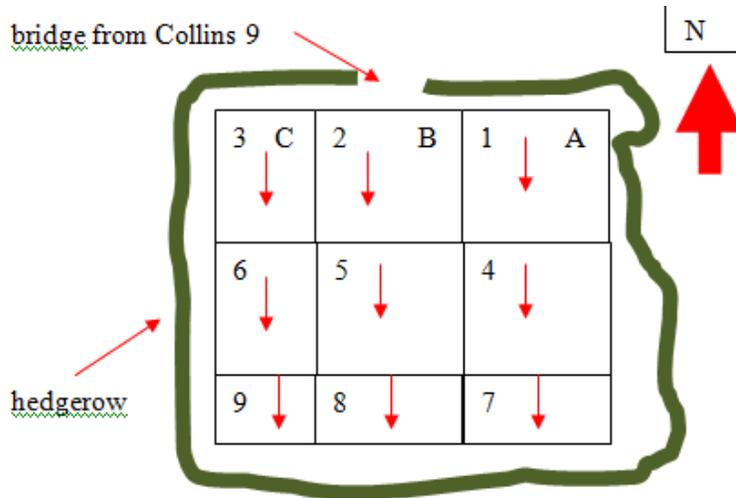
Standard settings

- 1) Colour - Red Blue Green 2
- 2) Band weight equaliser
- 3) Grad shade
- 4) Despiked
- 5) Destriped
- 6) Clip SD2

The report was written in Microsoft Word 2007.

Photographs were taken by members of YCCCART, and remain the copyright of YCCCART.

Results



B

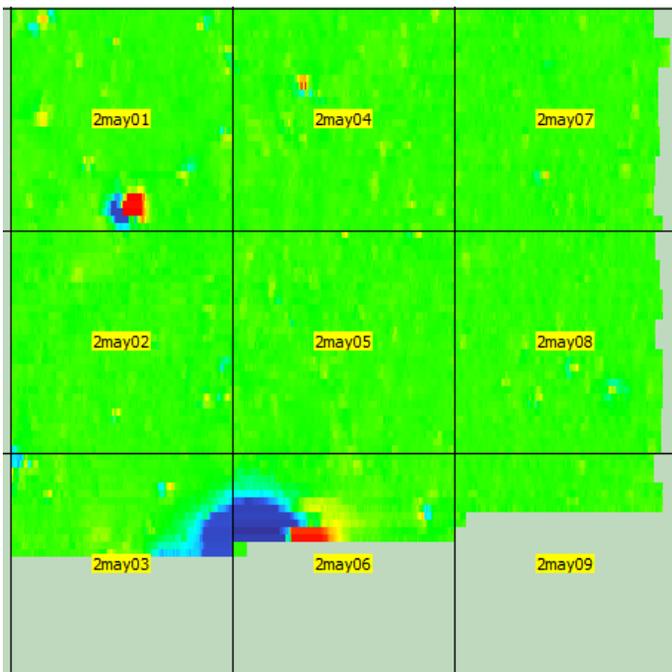
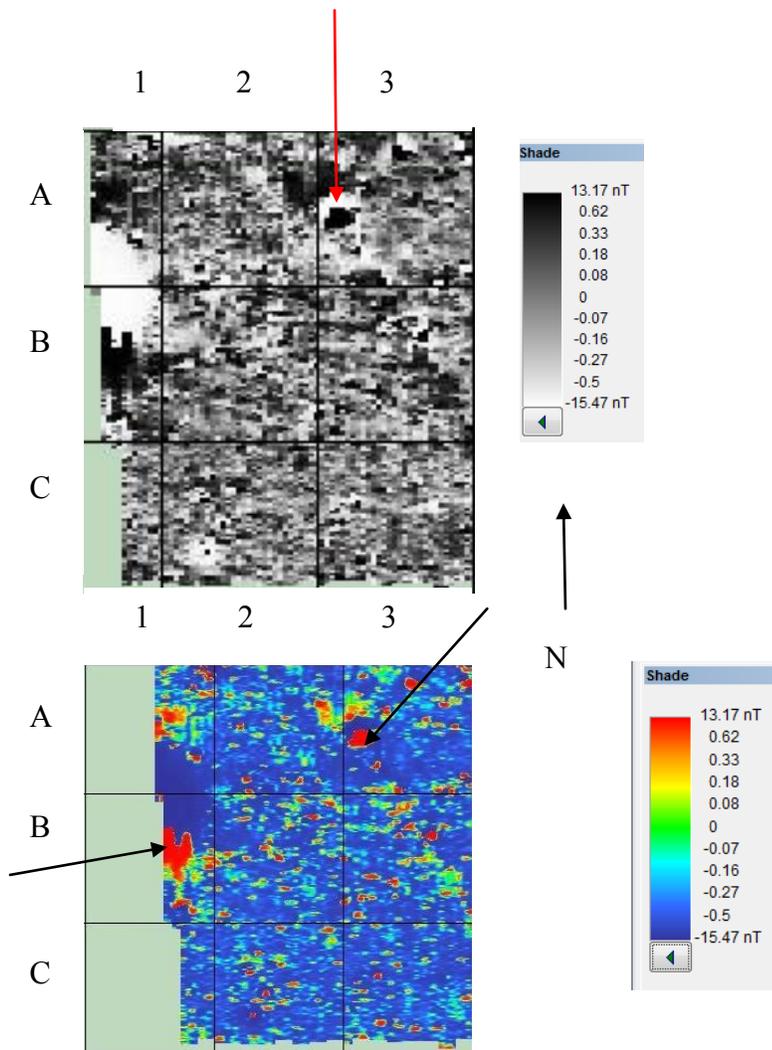


Fig 4: Grid lay out (top) and TerraSurveyor grids (below)



*Fig 5: Terra Surveyor shade view image.
Black & white image above. High readings are black
Colour image below. High readings are red.*

Parallel lines are shown running from the centre of A1 and the centre of A2 in a south west direction. These seem to be associated with the lines / track way in Collins field 8 reported in YCCART 2013 /Y2.

Top right in Fig 5 above is a high positive peak (black and indicated by red arrow above and red and indicated by black arrow below). The strength of the peak, also shown in Fig 6 below and again indicated by a red arrow, is not high enough to represent a kiln, but potentially it could be the result of a domestic hearth.

The red arrow, on the left of Fig 5 colour image above, indicates a high level anomaly resulting from an electrical power line.

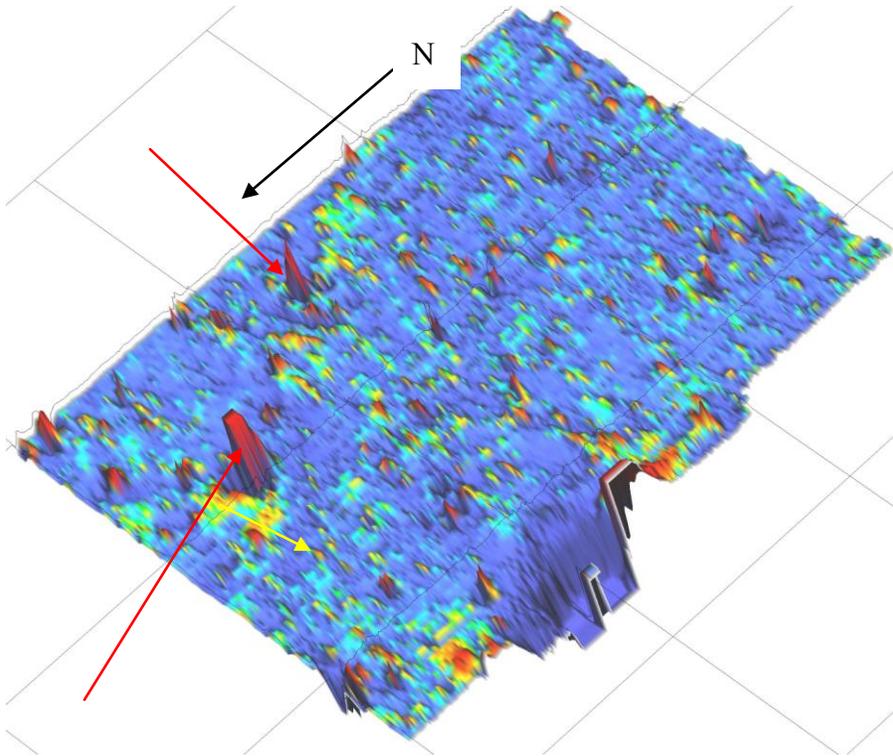


Fig 6: TerraSurveyor axonometric view colour image. High readings are red.

The axonometric view, in Fig 6 above, shows the high red peak caused by the possible hearth (red arrow top) and power line (red arrow below).



Fig 7: Current survey with Collins 8 survey above.

The current survey when placed along the previous survey, Collins 8, (See Fig 7 above and YCCART report 2013 / Y2) shows a continuation of the lines / possible track way (bottom left in Collins 8 result) south into Collins 9 field. One line passes the possible hearth indicated by the red arrow.

Recommendations

A resistivity survey should be carried out over the area containing the possible hearth.

References

- Bedingfield, G. 1996 *Iwood, How long has it existed as a discrete settlement unit and how did this affect its economy*, MA Dissertation. Bristol University 1996).
- Congresbury Tithe Map *BRO 37959/9* (Bristol Record Office)
- 1739 De Wilstar map. *BRO 33041/BMC/4/PL1/2.* (Bristol Record Office)

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Date: June 2013

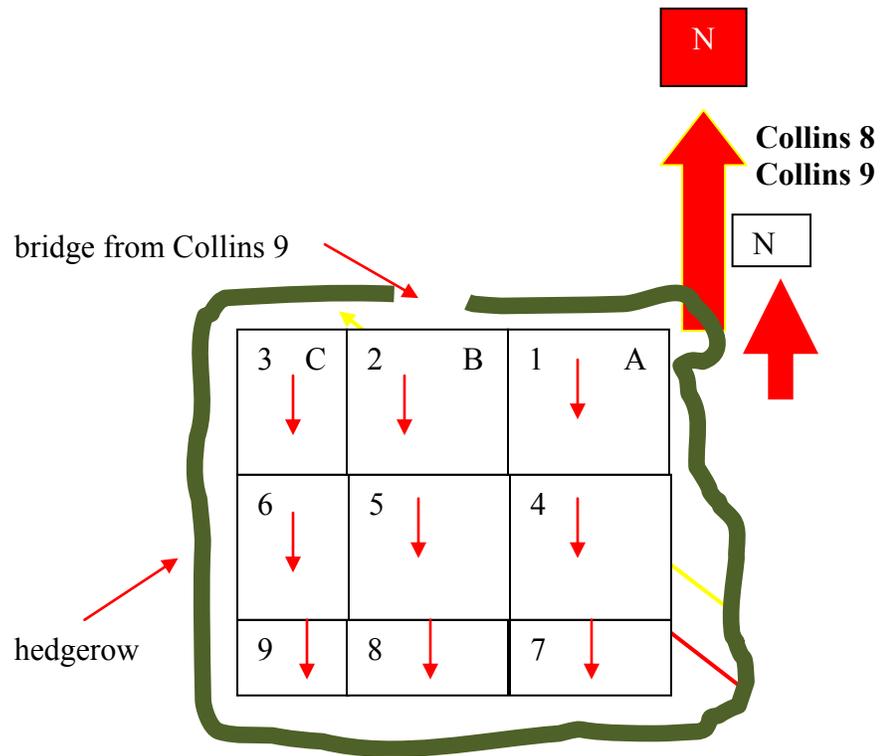
Appendix

Site Record

YCCART Site Survey Project – Congresbury kilns							
Survey date		2 nd May 2013					
Report date		2 nd May 2013					
Type /Instrument		Grad 601					
		Pace :1.5m/s Lines/m : 1 Range:100nT Volume: High Sensors:2			Grid size: 30m x30m Pattern : Zig Zag Samples/m:4 Audio: On Threshold:10nT Reject:50 Hz		
Location		Land alongside Iwood Lane					
		See annex 1					
Ref		none					
Site name		Collins 9					
Landowner		Mr. Alan Collins, Little Iwood, Wrington Road, Congresbury, BS49 5AR					
Tenant		None					
HER ref		TBC					
Site type		Open land					
Description		mowed pasture					
Period		Unknown					
Geology							
Land use							
Survey team and conditions							
3 rd May 2013		Team	Peter English, Peter Wright, Dave Long and Ian Morton				
		Weather	Warm and sunny				
Survey area		notes			readings		
		size	walk direction	max	min	mean	
Grid ref #	02/05/2013	1	30m x 30 m	S	+99.1	-88.6	0.0
		2	30m x 30 m	S	+47.7	-5.8	-0.2
		3	30m x 30 m Grid terminated	S	+23.4	-100.0	-3.5
		4	30m x 30 m	S	+4.9	-9.7	-0.7
		5	30m x 30 m	S	+15.0	-8.5	-0.7
		6	30m x 30 m Grid terminated	S	+32.3	-100.0	-5.7
		7	30m x 30 m Mirror and return	S	+3.9	-4.5	-0.3

		8	30m x 30 m Mirror and return	S	+4.8	-7.8	-0.5
		9	30m x 30 m Mirror and return Grid terminated	S	+0.9	-1.8	-0.4

Annex 1
Setting out details



Grid location details

	Grid Ref. All ST	eastings	northings
A		345130.7	162776.1
B		345101.5	162781.9
C		345072.4	162788.7

