

An archaeological magnetometer survey

Land at Pocombe Grange House, Pocombe Bridge, Exeter, EX2 9SX

Centred on NGR: 289550,091424 SX 89550 91424

Report: 1810POC-R

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1 Introduction

This report presents the results of an archaeological geophysical survey at the site listed in Section 4 and shown in Figure 1, hereafter referred to as the 'Survey Area'. The survey was commissioned by AC Archaeology Ltd on behalf of clients. The commissioning of this report was in keeping with the National Planning Policy Framework, Chapter 16, Paragraph 189 (Ministry of Housing, Communities & Local Government, 2018). The survey and report were completed in compliance with a Survey Method Statement (Substrata Ltd, 2018).

2 Client

AC Archaeology Ltd, 4 Halthaies Workshops, Bradninch Nr Exeter, Devon EX5 4QL

3 Copyright

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4 Survey type and location

4.1 Survey

Method: shallow depth magnetometer survey Instrument: twin-sensor fluxgate gradiometer

Date: 6th November 2018

Area: 0.24ha Survey resolution: 1m by 0.25m

4.2 Location

Name: Land at Pocombe Bridge Town: Holcombe Burnell

Civil Parish: Exeter
District: Exeter
County: Devon
Nearest Postcode: EX4 2HA

Survey centre NGR: SX 89550 91424(point) Survey centre NGR (E/N): 289550,091424(point)

Historic environment designation: None

OASIS ID: substrat1-334745

5 Summary

A magnetometer survey was selected to provide a relatively fast and cost-effective evaluation of any buried archaeology across the Survey Area (see Section 14). The magnetic anomaly groups pertaining to potential buried archaeology and other relevant features were georeferenced to the Ordnance Survey National Grid, mapped, characterised and assigned with an appropriate degree of certainty in conformance with the survey aims and objectives set out in Section 7.

The differences in magnetic responses across the Survey Area were sufficient to be able to differentiate between anomalies representing possible buried archaeology and background magnetic responses.

Eight groups were recorded but no magnetic anomaly groups were characterised as representing potential buried archaeology.

6 Standards

The standards that were used to complete this survey are defined by the Chartered Institute for Archaeologists (2014b) and the Europae Archaeologiae Consilium (undated). The codes of approved practice to be followed are those of the Chartered Institute for Archaeologists (2014) and Archaeology Data Service (undated).

7 Survey aims and objectives

7.1 Aims

- 1. Within the framework set out in Chartered Institute for Archaeologists (2014b) and Europae Archaeologiae Consilium (undated), complete an archaeological geophysical survey and report which will, as far as possible, establish the presence or absence, extent and character of any buried archaeology within the survey area.
- 2. Provide sufficient information on the nature of any archaeological remains to facilitate the assessment of their interest prior to the determination of the planning application.

7.2 Objectives

- 1. Complete a magnetometer survey across the Survey Area.
- 2. Identify any magnetic anomalies that may be related to buried archaeology.
- 3. Within the limits of the technique and dataset, archaeologically characterise any such anomalies or patterns of anomalies.
- 4. Accurately record the location of the identified anomalies.
- 5. Produce a report based on the survey that is sufficiently detailed to inform any subsequent development on the survey area about the location and possible archaeological character of the recorded anomalies.

8 Methodology

The magnetometer survey was undertaken in accordance a Survey Method Statement (Substrata Ltd, 2018) using the standards specified in Section 6 to achieve the aims and objectives set out in Section 7. The survey method was selected to provide a relatively fast and cost-effective evaluation of any buried archaeology across the Survey Area (see Section 14).

Data processing was undertaken using appropriate software (Table 2), with all anomalies being digitised and geo-referenced. The final report (this document) includes a graphical and textual account of the techniques undertaken, the data obtained and an archaeological interpretation of that data and conclusions about any likely archaeology. The survey and report conform to the Chartered Institute for Archaeologists standard for geophysical survey (2014b).

9 Survey Area

9.1 Location and description

The Survey Area comprises one field on the north east of Pocombe Bridge, Exeter (Figure 1). The Survey Area is bound to the north by a wooden fence, harris security fencing and an access track beyond. Harris security fencing borders the western boundary with a track and Alphin Brook beyond. housing and gardens border the south, sables and woodland Border the east of the site. The Survey Area slopes from approximately 30m aOD on its eastern side to approximately 30m aOD on its western side. The field was under pasture at the time of the survey.

9.2 Geology and sub-surface deposits

The solid geology across the Survey Area is the Crackington Formation - Mudstone And Sandstone, Interbedded. Sedimentary Bedrock formed approximately 318 to 328 million years ago in the Carboniferous Period. The superficial geology across the site is Alluvium - Clay, Silt, Sand And Gravel. Superficial Deposits formed up to 2 million years ago in the Quaternary Period. These sedimentary deposits are fluvial in origin. They are detrital, ranging from coarse - to fine-grained and form beds and lenses of deposits reflecting the channels, floodplains and levees of a river. The Local environment was previously dominated by rivers. (British Geological Survey, undated).

No relevant geotechnical reports or borehole logs of near-surface deposits within 500m of the Survey Area were available at the time of writing.

9.3 Soils

Freely draining slightly acid loamy soils (6)

Cambisol 'relatively young soils or soils with little or no profile development; Moderately developed soils. (LandIS, undated).

10 Archaeological background

10.1 Historic landscape characterisation

'Character orchards'

This area was once an orchard planted with fruit trees, but these have been lost in the C20th (Devon County Council, undated)

10.2 Summary of the archaeological background

This section summarises heritage assets that are thought relevant to the survey data analysis and is not designed to be a comprehensive description of the archaeological background.

There are no known designated or undesignated heritage assets situated within the Survey Area. The site was once an orchard planted with fruit trees, but these have been lost in the C20th.

11 Results

11.1 Scope and definitions

This survey was designed to record magnetic anomalies. A magnetic anomaly is a local variation in the Earth's magnetic field. Such variations can result from differences in the magnetic properties of the underlying solid geology, superficial geology and other near-surface deposits including those altered and created by past human activities. Near-surface artefacts can also create magnetic anomalies.

The dimensions of magnetic anomalies mapped as representing potential buried archaeology do not represent the dimensions of any associated archaeology.

The analysis presented below identifies and characterises anomalies and anomaly groups that may relate to buried archaeology.

11.2 Analysis

Figure 2 shows the interpretation of the survey data and includes the anomaly groups identified as possibly relating to buried archaeology along with their identifying numbers. Table 1 is an extract of the detailed analysis of the survey data sourced from the attribute tables of the GIS project provided in the project archive.

Figure 3 and Table 1 comprise the analysis of the survey data.

Figure 2 plot of the processed data as specified in Table 3. Figure 4 is a plot of minimally processed data as specified in Table 4. Figure 5 shows the location of the survey grid and grid data files.

12 Discussion

12.1 General points

Scope

Not all anomalies or anomaly groups identified in Table 1 are necessarily discussed below. All identified anomaly groups are recorded in the GIS project held in the survey archive.

Data collection

Data collection along the survey area edges was restricted as shown in the figures due to the presence magnetic materials within and adjacent to the plot boundaries. Strong magnetic responses mapped close to the boundaries are likely to relate to the magnetic materials except where otherwise indicated in Figure 3 and Table 1.

Anomaly characterisation

There are a number of anomaly groups that could be interpreted as relating to large postholes or pits although most will have natural origins. Anomalies of this sort are mapped as potential archaeology when they are well defined in the data, associated with other significant anomaly groups or otherwise formed recognisable patterns as listed in Table 1.

Anomalies thought to relate to natural features and recent man-made objects such as manholes, water management equipment, drains, cables and other services are only mapped where they comprise significant magnetic responses across the dataset that need clarification.

Numerous dipole magnetic anomalies are present within the dataset. These are likely to represent recent ferrous objects. They are only mapped if they could influence the analysis of anomaly groups thought to have an archaeological origin.

Data trends

An approximately north to south high contrast linear anomaly is likely to represent a modern service or relatively recent activity.

12.2 Data relating to historic maps and other records

No anomaly groups were assessed as representing previously recorded heritage assets.

12.3 Data with no previous archaeological provenance

No anomaly groups were characterised as representing potential buried archaeology.

Due to the high contrasts and linear appearances Anomaly groups 1 and 2 likely represent modern services and/or stone/ferrous deposits. Anomaly groups 3,4,5,6,7,8 are likely to be modern ferrous and stone deposits with possible traces of the former orchard tree bowls.

13 Conclusions

The differences in magnetic responses across the Survey Area were sufficient to be able to differentiate between anomalies representing possible buried archaeology and background magnetic responses. No anomaly groups were characterised as representing potential buried archaeology, two groups 1,2 the modern ferrous anomalies will likely mask any archaeology present. Six groups 3,4,5,6,7,8 likely represent modern disturbances with possible traces of the former orchard.

14 Disclaimer

The description and discussion of the results presented in this report are the authors', based on their interpretation of the survey data. Every effort has been made to provide accurate descriptions and interpretations of the geophysical data set. The nature of archaeological geophysical surveying is such that interpretations based on geophysical data, while informative, can only be provisional. Geophysical surveys are a cost-effective early step in the multi-phase process that is archaeology.

15 Archive

15.1 Online Access to the Index of archaeological investigationS (OASIS) OASIS ID: substrat1-334745

The OASIS entry has been completed and the boundary file and report uploaded with six months delay in publication.

15.2 Substrata Limited archive

A full archive of this survey will be held by Substrata Limited on cloud and local hard drive storage as specified in Appendix 3.

15.3 Archaeological Data Service (ADS)

Depending on local authority policy, an archive may be deposited with the ADS as specified in Appendix 3.

15.4 Historic Environment Record (HER)

Subject to any contractual requirements on confidentiality, a PDF or printed copy of the report will be submitted to the appropriate HER within six months of completion.

16 Acknowledgements

Substrata would like to thank John Valentin of AC Archaeology Ltd for commissioning us to complete this survey.

17 Bibliography

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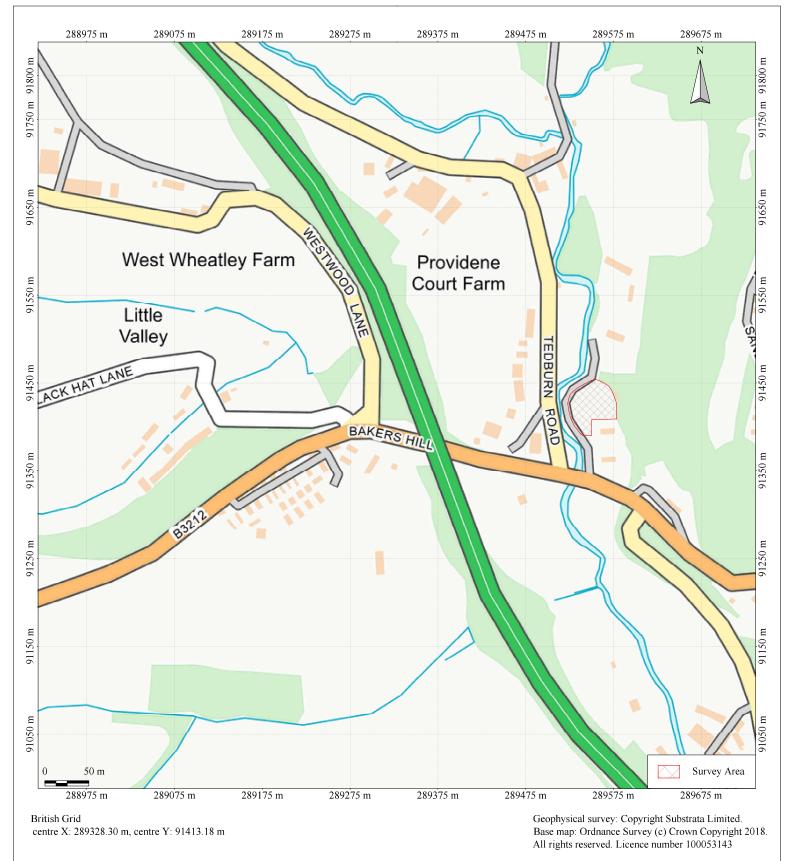
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Appendix 1 Figures

General Guidance

The anomalies represented in the survey plots provided in this appendix are magnetic anomalies. The apparent size of such anomalies and anomaly patterns are unlikely to correspond exactly with the dimensions of any associated archaeological features.

A rough rule for interpreting magnetic anomalies is that the width of an anomaly at half its maximum reading is equal to the width of the buried feature, or its depth if this is greater (Clark, 2000: 83). Caution must be applied when using this rule as it depends on the anomalies being clearly identifiable and distinct from adjacent anomalies. In northern latitudes the position of the maximum of a magnetic anomaly will be displaced slightly to the south of any associated physical feature.



Scale: 1:3000 @ A3. Spatial Units: Meter. Do not scale off this drawing

Notes:

- 1. All interpretations are provisional and represent potential archaeological deposits.
- 2. 'Anomaly type' is a description of the magnetic anomaly. See the report text or GIS for an archaeological characterisation.
- 3. Anomalies designated "likely archaeology" have supporting evidence e.g. historical maps and or visible earthworks.
- 4. Not all instances are mapped.
- 5. Anomalies likely to represent recent deposits or ground disturbance, or geological and other natural deposits are not mapped unless relevant to potential buried archaeology.

An archaeological magnetometer survey Land at Pocombe Bridge, Exeter Centred on NGR: 289554,091424

Report: 1610POC-R-1

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Figure 1: Survey location



British Grid centre X: 289552.60 m, centre Y: 91409.25 m

Geophysical survey: Copyright Substrata Limited. Base map: Ordnance Survey (c) Crown Copyright 2018. All rights reserved. Licence number 100053143

Scale: 1:490 @ A3. Spatial Units: Meter. Do not scale off this drawing

Notes:

- 1. All interpretations are provisional and represent potential archaeological deposits.
- 2. 'Anomaly type' is a description of the magnetic anomaly. See the report text or GIS for an archaeological characterisation.
- 3. Anomalies designated "likely archaeology" have supporting evidence e.g. historical maps and or visible earthworks.
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An archaeological magnetometer survey Land at Pocombe Bridge, Exeter Centred on NGR: 289554,091424

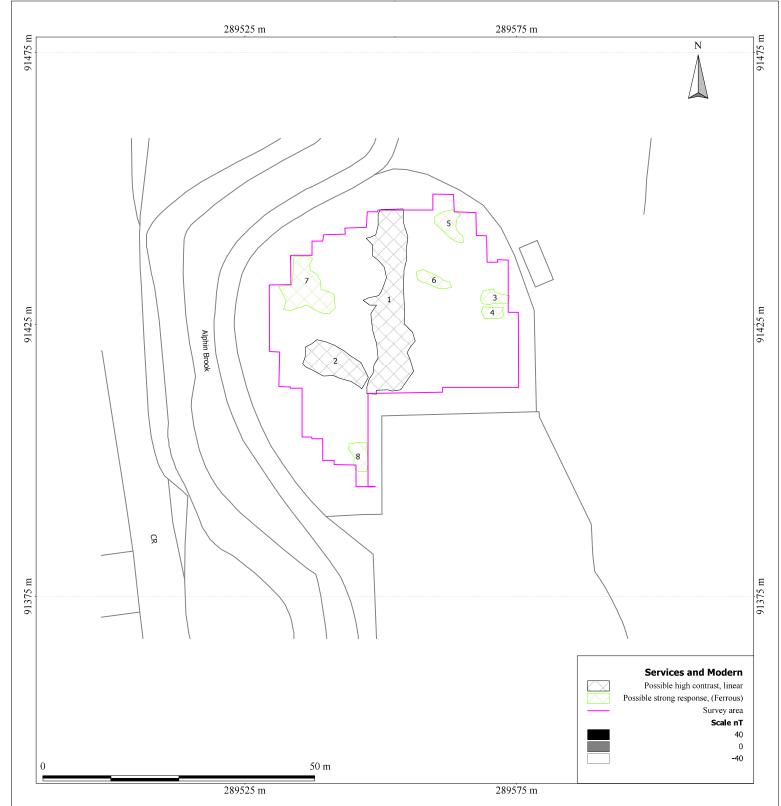
Report: 1610POC-R-1

Figure 2: Processed magnetometer data

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Email: markedwards@substrata

Web: substrata.co.uk



British Grid centre X: 289552.60 m, centre Y: 91409.25 m

Geophysical survey: Copyright Substrata Limited. Base map: Ordnance Survey (c) Crown Copyright 2018. All rights reserved. Licence number 100053143

Scale: 1:490 @ A3. Spatial Units: Meter. Do not scale off this drawing

Notes:

- 1. All interpretations are provisional and represent potential archaeological deposits.
- 2. 'Anomaly type' is a description of the magnetic anomaly. See the report text or GIS for an archaeological characterisation.
- 3. Anomalies designated "likely archaeology" have supporting evidence e.g. historical maps and or visible earthworks.
- 4. Not all instances are mapped.
- 5. Anomalies likely to represent recent deposits or ground disturbance, or geological and other natural deposits are not mapped unless relevant to potential buried archaeology.

An archaeological magnetometer survey Land at Pocombe Bridge, Exeter Centred on NGR: 289554,091424

Report: 1610POC-R-1

Figure 3: magnetometer interpretation

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Scale: 1:570 @ A3. Spatial Units: Meter. Do not scale off this drawing

Notes:

- 1. All interpretations are provisional and represent potential archaeological deposits.
- 2. 'Anomaly type' is a description of the magnetic anomaly. See the report text or GIS for an archaeological characterisation.
- 3. Anomalies designated "likely archaeology" have supporting evidence e.g. historical maps and or visible earthworks.
- 4. Not all instances are mapped.
- 5. Anomalies likely to represent recent deposits or ground disturbance, or geological and other natural deposits are not mapped unless relevant to potential buried archaeology.

An archaeological magnetometer survey Land at Pocombe Bridge, Exeter Centred on NGR: 289554,091424

Report: 1610POC-R-1

Figure 4: Miniumlly processed magnetometer data

Substrata Limited Langstrath, Goodleigh Barnstaple, Devon EX32 7LZ Tel: 01271 342721

Email: markedwards@substrata

Web: substrata.co.uk

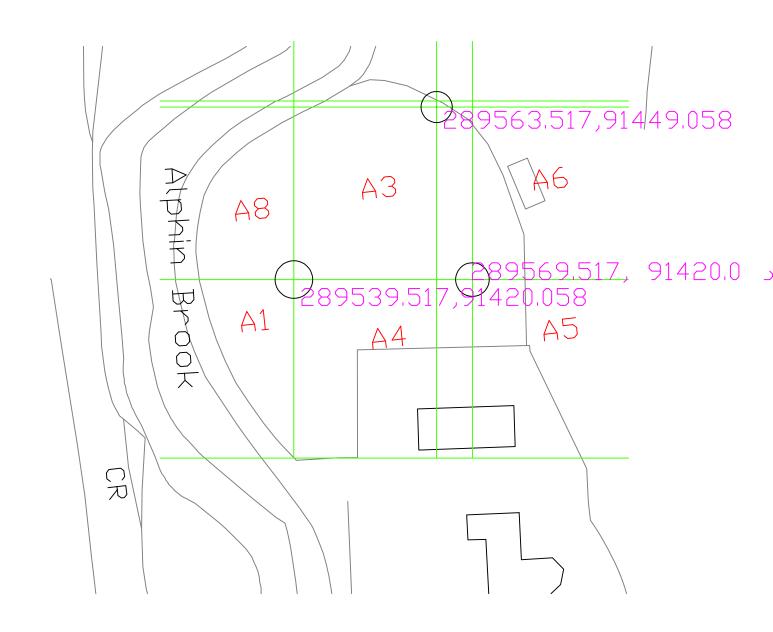


Figure 5: Control points and grid numbers

An archaeological magnetometer survey, Land at Pocombe Grange House, Exeter EX2 9SX

Appendix 2 Tables

combe Bridge, Exeter	NGRs: 289550, 091424
Land at Pocombe	Centred on NGRs

groups	associated	class	form	archaeological characterisation	comments
	1 1,2	Possible high contrast, linear	Linear	Services or modern	High magnetic response, likely service or modern disturbance
					imasking any archaeology present
	2	Possible high contrast	Iregular	Services or modern	High magnetic response, likely service or modern disturbance
					masking any archaeology present
,	3	Possible strong response	Ovoid	Ferrous material	strong response, Likely to be modern stoney and ferrous deposits with possible traces of former orchard tree bowls
,	4	Possible strong response	Ovoid	Ferrous material	strong response, Likely to be modern stoney and ferrous deposits with possible traces of former orchard tree bowls
,	5	Possible strong response	Iregular	Ferrous material	strong response, Likely to be modern stoney and ferrous deposits with possible traces of former orchard tree bowls
-	9	Possible strong response	Ovid	Ferrous material	strong response, Likely to be modern stoney and ferrous deposits with possible traces of former orchard tree bowls
	7	Possible strong response	Iregular	Ferrous material	strong response, Likely to be modern stoney and ferrous deposits with possible traces of former orchard tree bowls
	8	Possible strong response	Iregular	Ferrous material	Strong response, Likely to be modern stoney and ferrous deposits with possible traces of former orchard tree bowls

Table 1: data analysis

Grid

Method of Fixing: DGPS set-out using pre-planned survey grids and Ordnance Survey coordinates.

Composition: 30m by 30m grids

Recording: Geo-referenced and recorded using digital map tiles.

DGPS used: Spectra Precision PM5V2 GPS with external antenna and survey pole and DigiTerra

Explorer 7 as the survey control program.

Equipment

Instrument: Bartington Instruments grad601-2

Firmware: version 6.1

Data Capture

Sample Interval: 0.25m Traverse Interval: 1 metre Traverse Method: zigzag Traverse Orientation: GN

Data Processing, Analysis and Presentation Software

IntelliCAD 8.4

DW Consulting TerraSurveyor3

Manifold System 8 GIS

Microsoft Corp. Office 365: Excel, Publisher, Word Adobe Systems Inc Adobe Acrobat 9 Pro Extended

Table 2: methodology information

SITE

Name: 1810POC-S Filename: Proc.xcp

Description:

Instrument Type: Bartington Grad 610

Units: nT

Direction of 1st Traverse: 0 deg Collection Method: ZigZag

Sensors: 2 @ 1.00 m spacing.

Dummy Value: 32702

Dimensions

Composite Size (readings): 480 x 180 Survey Size (meters): 60 m x 90 m Grid Size: 30 m x 30 m

X Interval: 0.125 m (surveyed @ 0.25 m)
Y Interval: 0.5 m (surveyed @ 1 m)

Stats

Max: 1662.99 Min: -1518.01 Std Dev: 215.21 Mean: 3.76 Median: 0.14

Composite Area: 0.54 ha Surveyed Area: 0.14135 ha

PROGRAM

Name: TerraSurveyor Version: 3.0.25.1

Processes: 5 1 Base Layer

2 Clip from -787.46 to 798.29 nT

3 De Stagger: Grids: All Mode: Both By: -1 intervals

4 DeStripe Median Traverse: Grids: All

5 Interpolate: X & Y Doubled.

Table 3: processed data metadata

SITE

Name: 1810POC-S Filename: Unproc.xcp

Description:

Instrument Type: Bartington Grad 610

Units: nT

Direction of 1st Traverse: 0 deg Collection Method: ZigZag

Sensors: 2 @ 1.00 m spacing.

Dummy Value: 32702

Dimensions

Composite Size (readings): 240 x 90 Survey Size (meters): 60 m x 90 m Grid Size: 30 m x 30 m X Interval: 0.25 m Y Interval: 1 m

Stats

Max: 3024.15 Min: -3091.15 Std Dev: 791.74 Mean: 8.12 Median: 0.00

Composite Area: 0.54 ha Surveyed Area: 0.1425 ha

PROGRAM

Name: TerraSurveyor Version: 3.0.25.1

Table 4: minimally processed data metadata

Appendix 3 Project archive contents

1 Substrata Limited archive

A full archive of this survey will be held by Substrata Limited on cloud and local hard drive storage as follows:

Report: Adobe PDF (.pdf), Microsoft Publisher (.pub)

Raw grid data files: DW Consulting TerraSurveyor 3 (.xgd)

Raw data composite files: DW Consulting TerraSurveyor 3 (.xgd) and

CSV (.xyz)

Final data processing composite files: DW Consulting TerraSurveyor 3 (.xgd) and

CSV (.xyz)

GIS project: GIS project Manifold 8 (.map)

Survey interpretation: ESRI shape files AutoCAD version of the survey interpretation: AutoCAD (.dwg)

(if generated)

All project working files: IntelliCAD 8.4

Microsoft Corp. Office 365: Excel, Publisher,

Word

Adobe Systems Inc Adobe Acrobat 9 Pro

Extended

2 Online Access to the Index of archaeological investigationS (OASIS)

Metadata: online form
Georeferenced survey boundary file: ESRI shape file
Report: Adobe PDF (.pdf)

3 Archaeological Data Service

Depending on local authority policy, an archive may be deposited with the ADS as follows:

Raw data composite file: CSV (.xyz)

Processed data plot: rendered images in TIFF format

Survey grid plot: image in TIFF format
Details of data processing: image in TIFF format

Interpretation plot: rendered images in TIFF format

Metadata: Microsoft Excel format

4 Historic Environment Record (HER)

Subject to any contractual requirements on confidentiality, a PDF copy of the report will be submitted to the appropriate HER within 6 months of the completion of this report via the OASIS process or by other means, depending on the relevant HER process.