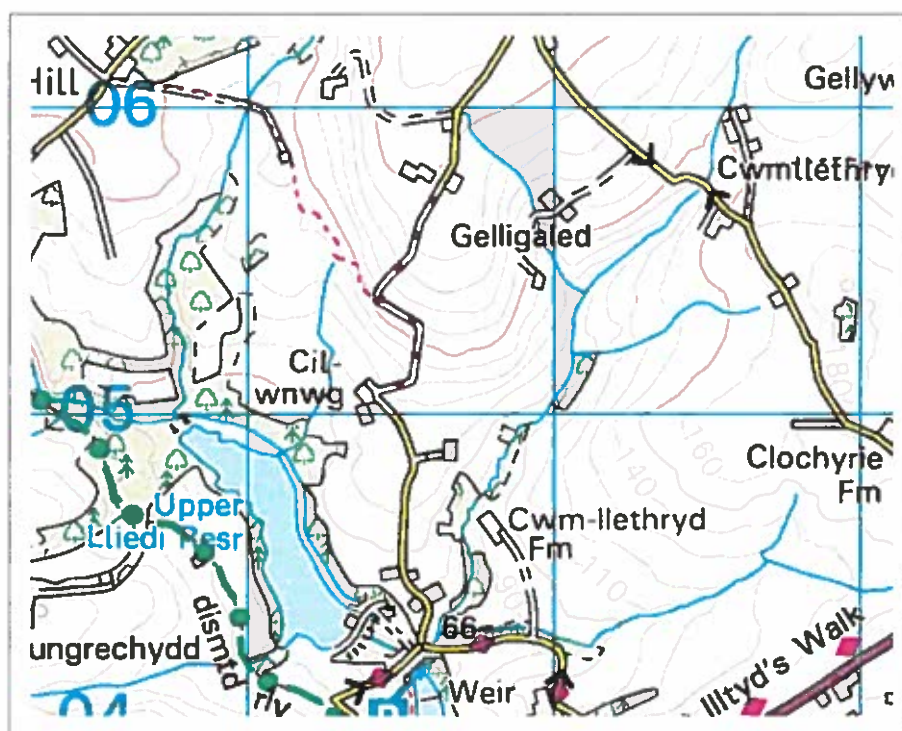


Archaeology Wales

Cil-wnwg Fach, Felinfoel Llanelli

Archaeological Appraisal & Site Visit



By

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Report No. 1140

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CONTENTS

1	Introduction	1
1.1	Location and scope of work	1
1.2	Geology	1
1.3	Site Description	1
2	HER, SAM & LB Data	2
2.2	SAM data	2
2.3	LB data	2
3	Map Regression.....	2
3.1	1840s Tithe Map.....	2
3.2	1 st Edition OS 1891	3
3.3	2 nd Edition OS 1907	3
4	Aerial Photographs.....	3
5	Site Visit.....	3
6	Discussion and conclusions.....	4
6.1	HER, SAM & LB data	4
6.2	Map Regression.....	4
6.3	Aerial Photographs	4
6.4	Potential.....	4
7	Sources	4

List of Figures

Figure 1	General Location Map
Figure 2	Site Location Map
Figure 3	GIS plan of HER sites
Figure 4	1891 1 st Ed OS
Figure 5	1907 2 nd Ed OS

List of Plates

Plate 1	1945 RAF AP
Plate 2	1946 RAF AP
Plate 3	1978 OS AP
Plate 4	2013 Google Earth Image
Plates 5-16	Site walkover photos

List of Appendices

Appendix 1	Figures
Appendix 2	Plates
Appendix 3	Specification
Appendix 4	Archive Cover Sheet

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Non-Technical Summary

An archaeological appraisal was carried out for the site of three proposed wind turbines on land at Cil-wnwg Fach, Felinfoel, Llanelli. The aim of the work was to carry out a brief assessment of the archaeological potential of the area to enable Dyfed Archaeological Trust to determine whether further archaeological work would be required.

The research determined that 1 SAM and 6 LBs exist within a 2km radius of the site but will suffer no physical impact. The HER data showed that 5 sites (3 Bronze Age and 2 Post-medieval) exist within the turbines immediate vicinity (500m radius). Cartographic and aerial photographic sources revealed no features of archaeological interest. Similarly the site walkover located no previously unrecorded features. The archaeological potential of the site is thus considered to be moderate.

1 Introduction

1.1 Location and scope of work

- 1.1.1 In June 2013 Archaeology Wales Ltd (AW) was commissioned by David Wills of Quiet Revolution Ltd to carry out a brief archaeological appraisal of a proposed wind turbine site at Cil-wnwg Fach, Felinfoel, Llanelli (NGR SN 51771 05142– Figs 1&2). The archaeological work followed recommendations from Dyfed Archaeological Trust – Heritage Management.
- 1.1.2 The appraisal involved a brief assessment of data recorded on the HER held by Dyfed Archaeological Trust, a brief map regression analysis, a brief assessment of aerial photographs held by the RCAHMS and a rapid walkover survey. The work does not include an assessment of the potential significance of the site in the local, regional and national context, nor does it include an assessment of the impact of the proposed turbine on scheduled ancient monuments or listed building in the local area. Both of these lie outside the scope of the current work, but should be assessed as part of a full desk based assessment if considered necessary.

1.2 Geology

- 1.2.1 The underlying solid geology of the area is composed of the south Wales Upper Coal Measures formation. This comprises mudstone, siltstone, sandstone, coal ironstone and ferricrete (Geological Survey Map, 2001).

1.3 Site Description

- 1.3.1 The proposed development site is located 650m to the north east of the upper Lliedi Reservoir and 2.5km to the north of the larger town of Llanelli.

concerned being very badly damaged. No information of relevance could be gleaned from this.

3.2 1st Edition OS 1891

3.2.1 The 1st edition Ordnance Survey map (Fig 4) shows the site in much greater clarity than that seen on the damaged Tithe Map. The sites of the proposed turbines are shown as each being located within a separate field, each of which is roughly rectangular in shape. The most northerly of the three turbines is shown as being contained within a field of rough pasture/marsh whilst the other two look to be improved pasture.

3.2.2 No features of historic or archaeological significance are depicted on the map.

3.3 2nd Edition OS 1907

3.3.1 The 2nd edition Ordnance Survey map (Fig 5) shows much the same detail as that seen on the slightly earlier 1st edition. The northerly turbine is now shown to be on improved rather than rough pasture and a footpath is now shown to the south of it. A spring is also marked to the south east of the most southerly turbine.

3.3.2 No further features of historic or archaeological significance are depicted on the map.

4 Aerial Photographs

4.1.1 The assessment area was reasonably well covered by aerial photography dating from 1945 to 1978.

4.1.2 The 1945 and 1946 RAF aerial photographs (Plates 1&2) show the proposed turbine sites in reasonable clarity though no features of archaeological interest are visible in the immediate vicinity of any of the turbines.

4.1.3 The 1978 OS aerial photograph (Plate 3) shows the proposed turbine sites in poor clarity. No further features of historic or archaeological significance were noted.

4.1.4 The 2013 Google Earth satellite image (Plate 4) shows the site in very clear detail. Several field boundaries appear to have been removed resulting in the creation of a wider areas of grazing.

4.1.5 No further features of historic or archaeological significance are depicted.

5 Site Visit

5.1.1 A rapid walkover of the proposed development area was carried out in dry and mixed conditions (Plates 5-16).

5.1.2 The site of the proposed turbines slopes to the south and is composed of pasture. The site walkover encompassed the turbine locations and the entire fields in which their locations are proposed.

- 1907 2nd Ed OS (NLGW)

Aerial Photographs

- 3G/TUD/UK/120 03/04/1946 271 (RCAHMW)
- 78-009 050 (RCAHMW)
- 2013 Google Earth Satellite image

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APPENDIX I: Figures

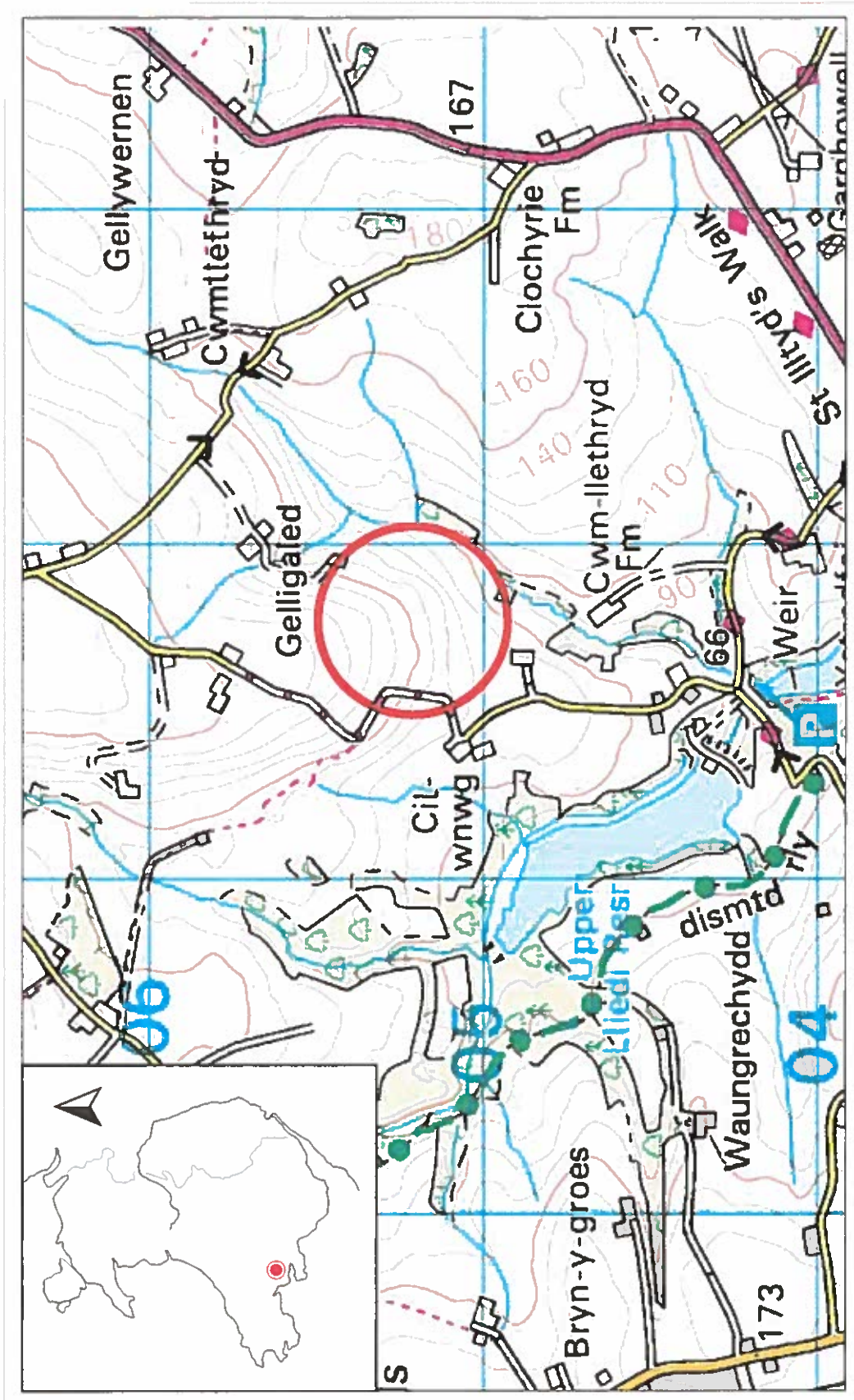


Fig 1: Map showing location of assessment area

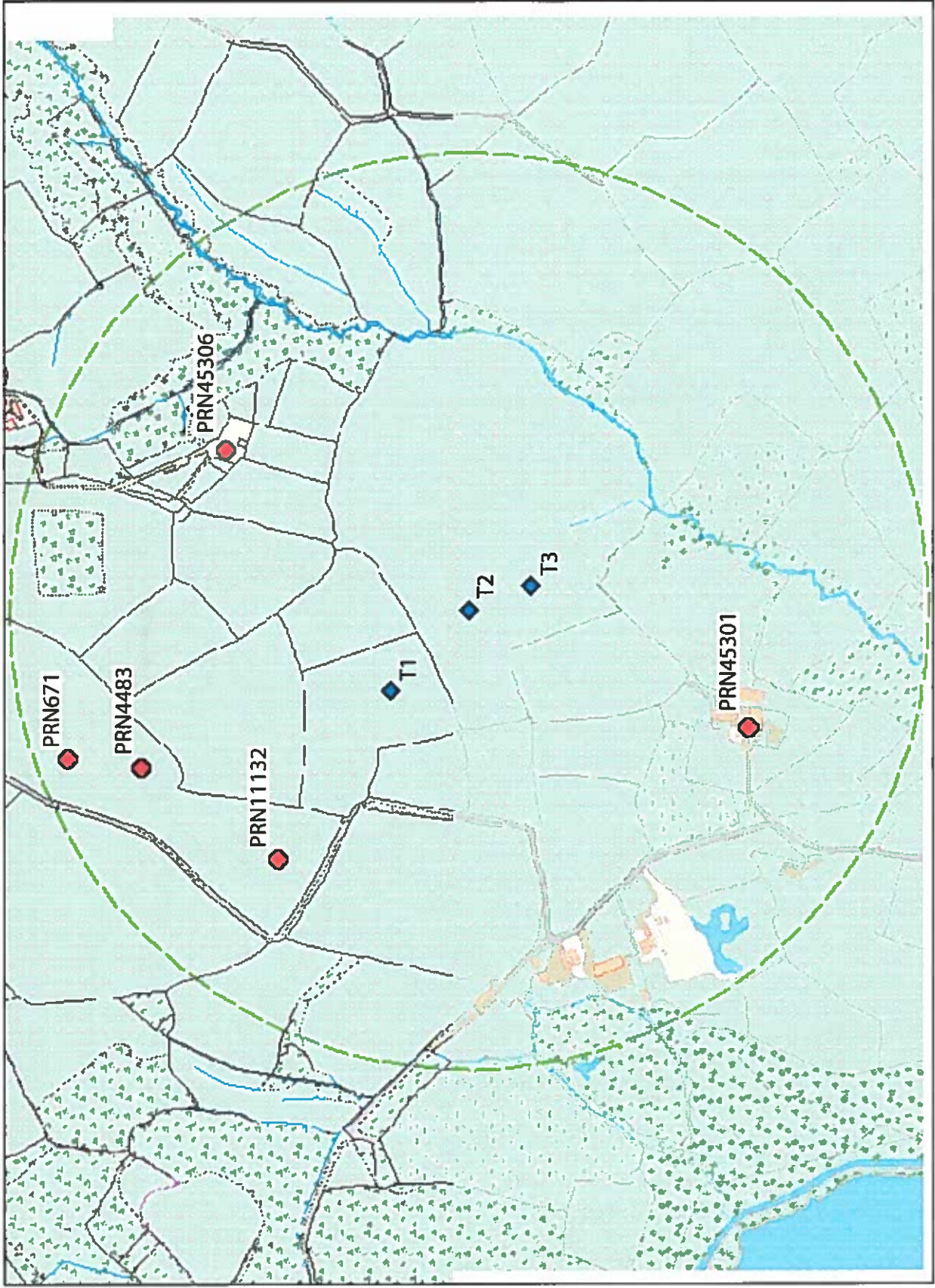


Fig 3:GIS distribution map showing location of HER sites in relation to proposed turbines



Fig 5: 1907 2nd Edition 6 Inch OS map showing locations of turbines at Cil-wnwg Fach

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APPENDIX II: Plates



Plate 1: 1945 RAF AP showing locations of three turbines
at Cil-wnwg Fach



Plate 2: 1946 RAF AP showing locations of three turbines
at Cil-wnwg Fach



Plate 4: 2013 satellite image showing assessment area



Plate 7: View of northern turbine location, Looking east
Scale 1x2m



Plate 8: View of northern turbine location, Looking west
Scale 1x2m



Plate 11: View of central turbine location, Looking east
Scale 1x2m



Plate 12: View of central turbine location, Looking west
Scale 1x2m



Plate 15: View of southern turbine location, Looking east
Scale 1x2m



Plate 16: View of southern turbine location, Looking west
Scale 1x2m

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APPENDIX III: Specification

Written Scheme of Investigation
For Archaeological Appraisal:
Cilwnwg Fach, Lliedi Reservoir, Felinfoel

Prepared for:
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June 2013

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defined below, no matter what form or period, including the potential for palaeoenvironmental deposits.

4 Scope of the archaeological work

The proposed archaeological work relates to the whole of the site, i.e. all of the application area.

The historic environment appraisal is required to assess the whole of the indicated development area and should also consider the potential for historic assets outside this area, the significance of which may extend into the immediate search area. The resulting report will provide information which is sufficiently detailed to protect historic environment interests and allow for informed decisions to be made in the on-going planning processes. This work will include the following key elements which will be carried out in the following order:

- Consult and interrogate the Regional Historic Environment Record including the detailed further information files and other readily available sources of information, including the National Monuments Record and early O.S and Tithe maps, aerial photographs, etc. (Stage 1)
- Make a visit to the site to assess the presence/absence and condition of historic assets and their potential. (Stage 2)
- Archive and Reporting (Stage3)

Searches (Stage 1)

The report will consider, *inter alia*, the following aspects of the historic environment, which are given as a checklist. Comment on the potential significance of each significant aspect in relation to the proposed development is required. Where further consideration of an aspect may be required this should be clearly stated and reasons given.

ASPECTS

- a. Scheduled Ancient Monuments {SAMs} and their settings.
- b. Non-scheduled ancient monuments and their settings.
- c. Listed buildings and their settings.
- d. Non statutory Buildings of Local Importance, where this information is readily available and relevant to the proposed development.
- e. Registered Parks and Gardens and their essential settings.
- f. Registered Historic Landscapes
- g. Non-registered historic landscapes
- h. Buried archaeological potentials
- i. Palaeoenvironmental potential
- j. Hedgerows and field patterns
- k. Ancient woodland
- l. Place-name evidence
- m. Cumulative impacts, e.g. wind turbines in close proximity, which will require a separate study.
- n. Newly identified sites of historic importance
- o. Any Tir Gofal interests or requirements
- p. LANDMAP and landscape characterisation information.

- k) Once completed, a copy of the report should be submitted to the LPA for the consideration of their archaeological advisers. A further copy of the report should be provided to the Dyfed Archaeological Trust for deposition within the Regional Historic Environment Record (HER).
- l) Where appropriate, a summary report on any new significant archaeological discovery should be submitted for publication to a national journal (e.g. Archaeology in Wales) no later than one year after the completion of the work.
- m) Although there may be a period during which client confidentiality should be maintained, the report and the archive should normally be deposited in the appropriate repository not later than six months after completion of the work.

Copies of the report will be sent to Zoe Bevans-Rice (DAT), David Wills (Quiet Revolution Ltd) and for inclusion in the regional HER. Digital copies will be provided in pdf format if required.

The site archive

A project archive will be prepared in accordance with the National Monuments Record (Wales) / the guidelines of the Institute for Archaeologists agreed structure and be deposited within an appropriate local museum on completion of site analysis and report production. It will also conform to the guidelines set out in 'Management of Archaeological Projects Two, Appendix 3' (English Heritage 1991).

Arrangements will be made with the local museum before work starts. Wherever the archive is deposited, this information will be relayed to the HER.

Although there may be a period during which client confidentiality will need to be maintained, the report and the archive will be deposited not later than six months after completion of the work.

Other significant digital data generated by the survey (ie AP plots, EDM surveys, CAD drawings, GIS maps, etc) will be presented as part of the report on a CD/DVD. The format of this presented data will be agreed with the curator in advance of its preparation.

9 Resources and timetable

Standards

The work will be undertaken by AW staff using current best practice.

All work will be undertaken to the standards and guidelines of the IfA.

Staff

The project will be undertaken by suitably qualified AW staff. Overall management of the project will be undertaken by Chris E Smith (a CV is available upon request).

Equipment

The project will use existing AW equipment.

Timetable of archaeological works

