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Geophysical Survey

Penmanshiel Met Mast Near Grantshouse Scottish Borders

Archaeological Watching Brief

Report No. 1850

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Commissioned by	RES UK and Ireland Ltd
Date issued	December 2010
Version	0
OASIS Reference	cfaarcha1-89794
Planning Ref No.	Ref 10/01024/FUL
Grid Ref	NT 80700 68275

This document has been prepared in accordance with CFA Archaeology Ltd standard operating procedures.

**Penmanshiel Met Mast
Near Grantshouse
Scottish Borders**

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1. INTRODUCTION

1.1 General

1.1.1 This report presents the results of an archaeological watching brief undertaken by CFA Archaeology Ltd (CFA) in December 2010 at Penmanshiel, near Grantshouse, Scottish Borders (NGR: NT 80700 68275) (Fig. 1). The work was commissioned by RES UK and Ireland Ltd (RES).

1.1.2 A Written Scheme of Investigation (WSI) dated 08 October 2010 was produced by CFA on behalf of RES. The WSI was designed to fulfil the requirements of the Scottish Borders Council Archaeologist.

1.2 Background

1.2.1 RES has received planning permission (Ref 10/01024/FUL) to erect a monitoring mast for a proposed wind farm on land to the north-east of Penmanshiel Farmhouse. The planning permission was subject to a condition requiring an archaeological watching brief during all ground breaking operations.

1.2.2 The location of the mast lies between Penmanshiel Wood and Penmanshiel Moor at a place called Lady's Folly. It is situated on improved farmland close to the top of an exposed hill at an altitude of c.235m OD (Fig. 3 and Fig. 4).

1.2.3 A Cultural Heritage Assessment for a proposed wind farm at Penmanshiel Moor was carried out by CFA in 2009 (Hastie 2009). The location of the cultural heritage sites are depicted on Fig.1 and the site numbers relevant to this report are shown in bold in the following text. Two sites (Site 8 and Site 9) recorded by the NMRS and SMR lie within close proximity to the mast location. These consisted of an enclosure/mound (Site 8, NMRS No. NT86NW 50) and a possible barrow (Site 9, NMRS No. NT86NW 45). However, no evidence of these sites was identified during field survey, suggesting that they may have been totally removed by the heavy ploughing that the area has been subject too.

1.3 Objectives

1.3.1 The objectives of the watching brief were:

- To conduct an appropriate programme of archaeological investigation (Watching Brief) to monitor the excavation of ground breaking that is required.
- To mitigate the effects of construction on any archaeological deposits or features identified through excavation and recording and production of a report.

2. WORKING METHODS

2.1 General

2.1.1 CFA Archaeology Ltd follows the Institute for Archaeologists' Code of Conduct, Standards and Guidance for Archaeological Fieldwork. Recording of all elements followed established CFA methods, as detailed in the approved WSI.

2.2 Anchor Pits

2.2.1 Five anchor pits (**AP1 – AP5**) (Fig. 2) measuring 2.5m long by 0.5m wide were excavated within a 35m radius of the centre of the met mast. Topsoil deposits were removed using a 360° tracked excavator under constant archaeological supervision, and the exposed natural subsoil (Fig.5 and Fig.6) was hand cleaned and inspected for archaeological features. Following inspection and recording, the pit was then excavated to its full depth of c.1.5m.

2.2.2 The stratification of all anchor pits was recorded whether or not significant archaeological deposits were identified.

3. ARCHAEOLOGICAL RESULTS

3.1 Numbers in bold in the following text refer to contexts, a full list of which is contained in Appendix 1.

3.2 The deposits within the anchor pits consisted of 0.25m of dark brown silt plough soil (**001**) overlying orange-brown sandy gravel natural subsoil (**002**) (Fig. 5 and Fig. 6). There were no features, deposits or artefacts of archaeological significance identified.

4. CONCLUSION

4.1 A watching brief was carried out during ground works for the erection of a met mast at Penmanshiel. The NMRS records an enclosure/mound and a possible barrow within the vicinity of the met mast, but these were not identified during field survey. There were no features, deposits or artefacts of archaeological significance identified during the watching brief.

4.2 The project archive, comprising all CFA record sheets, maps and reports, will be deposited with the National Monuments Record of Scotland (NMRS) and copies of reports will be lodged with the Scottish Borders Council Sites and Monuments Record.

4.3 A summary statement of the results of this watching brief will be submitted for publication in *Discovery and Excavation in Scotland* (Appendix 3) and an online OASIS form will be completed.

5. REFERENCE

Hastie M, 2009 *Proposed Wind Farm at Penmanshiel Moor: Cultural Heritage Assessment* CFA Report No. 1679.

APPENDIX 1: Context Register

Context	Description
001	Dark brown silt plough soil
002	Orange-brown sandy gravel natural subsoil

APPENDIX 2: Photographic Register

Digital Images

Shot	Description	From	Conditions
1-5	General pre-ex shots of area	Various	Overcast
6	Pre-ex shot of AP1	South	Overcast
7	Post-ex shot of AP1	SE	Overcast
8	Pre-ex shot of AP2	South	Overcast
9	Post-ex shot of AP2	NE	Overcast
10	Pre-ex shot of AP3	North	Overcast
11	Post-ex shot of AP3	SE	Overcast
12	Pre-ex shot of AP4	East	Overcast
13	Post-ex shot of AP4	NE	Overcast
14	Pre-ex shot of AP5	North	Overcast
15	Post-ex shot of AP5	SE	Overcast
16-19	General post-ex shots of area	Various	Overcast

APPENDIX 3: Discovery and Excavation in Scotland Entry

LOCAL AUTHORITY:	Scottish Borders
PROJECT TITLE/SITE NAME:	Penmanshiel Met Mast, near Grantshouse, Scottish Borders
PROJECT CODE:	RESA4
PARISH:	Cockburnpath
NAME OF CONTRIBUTOR:	Magnus Kirby
NAME OF ORGANISATION:	CFA Archaeology Ltd
TYPE(S) OF PROJECT:	Archaeological Watching Brief
NMRS NO(S):	
SITE/MONUMENT TYPE(S):	
SIGNIFICANT FINDS:	None
NGR (2 letters, 10 figures)	NT 19323 85518
START DATE (this season)	December 2010
END DATE (this season)	December 2010
PREVIOUS WORK (incl. DES ref.)	N/A
MAIN (NARRATIVE) DESCRIPTION: (May include information from other fields)	A watching brief was carried out during ground works for the erection of a met mast at Penmanshiel. The NMRS records an enclosure/mound and a possible barrow within the vicinity of the met mast, but these were not identified during field survey. There were no features, deposits or artefacts of archaeological significance identified during the watching brief
PROPOSED FUTURE WORK:	None
CAPTION(S) FOR ILLUSTRS:	N/A
SPONSOR OR FUNDING BODY:	RES UK and Ireland Ltd
ADDRESS OF MAIN CONTRIBUTOR:	The Old Engine House, Eskmills Park, Musselburgh, EH21 7PQ
EMAIL ADDRESS:	cfa@cfa-archaeology.co.uk
ARCHIVE LOCATION (intended/deposited)	National Monuments Record of Scotland Scottish Borders Council Sites and Monuments Record

- Key:
- Site Boundary
 - Turbine Location
 - Met Mast
 - Point
 - Cultural Heritage Site surviving as upstanding remains
 - Region
 - 1st Edition OS - Site 25
 - Point
 - Cultural Heritage Site not surviving as surface remains
 - Region
 - Cultural Heritage Site baseline condition unknown
 - Scheduled Monument

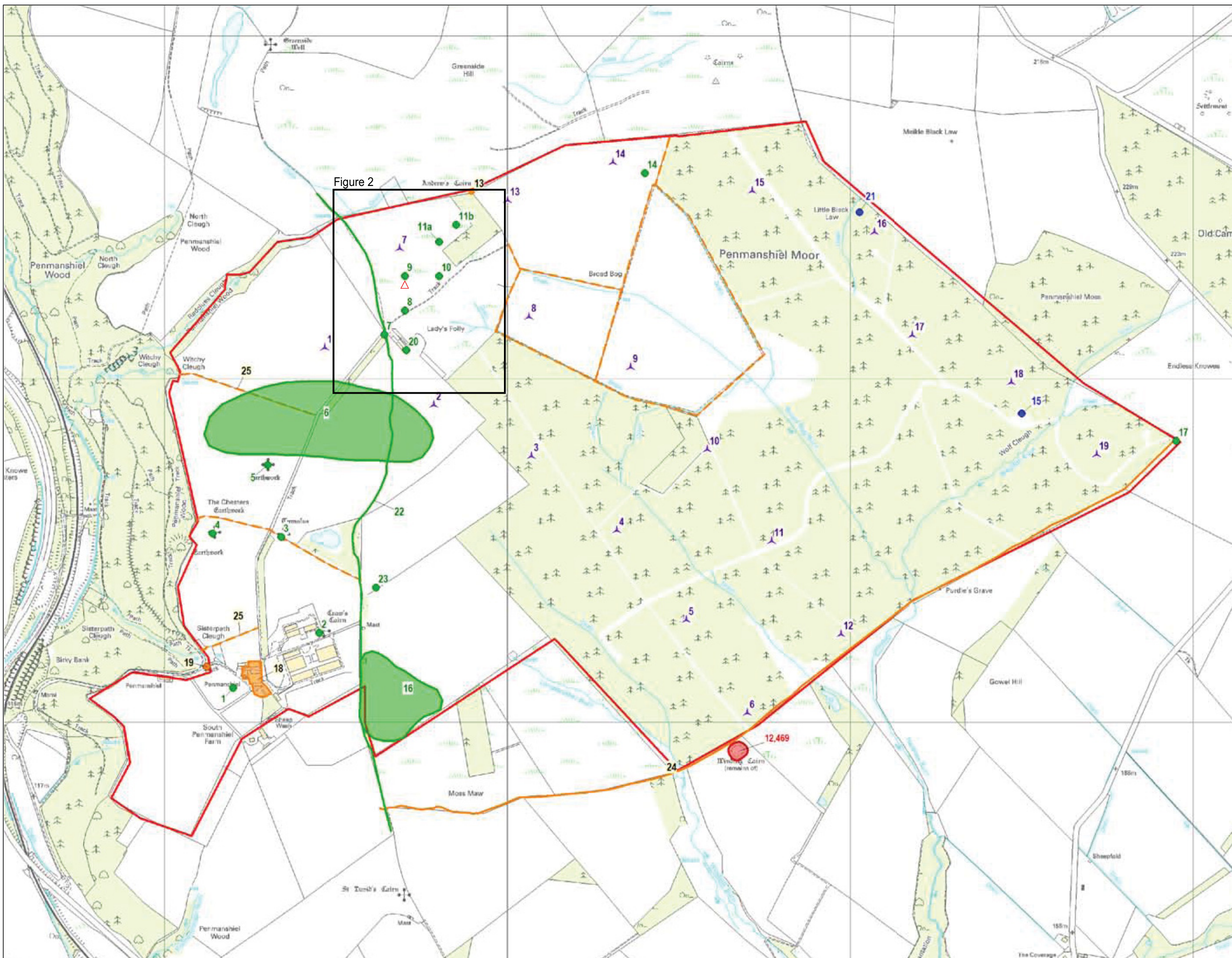


Figure 2



Fig. No: 1 Revision: A

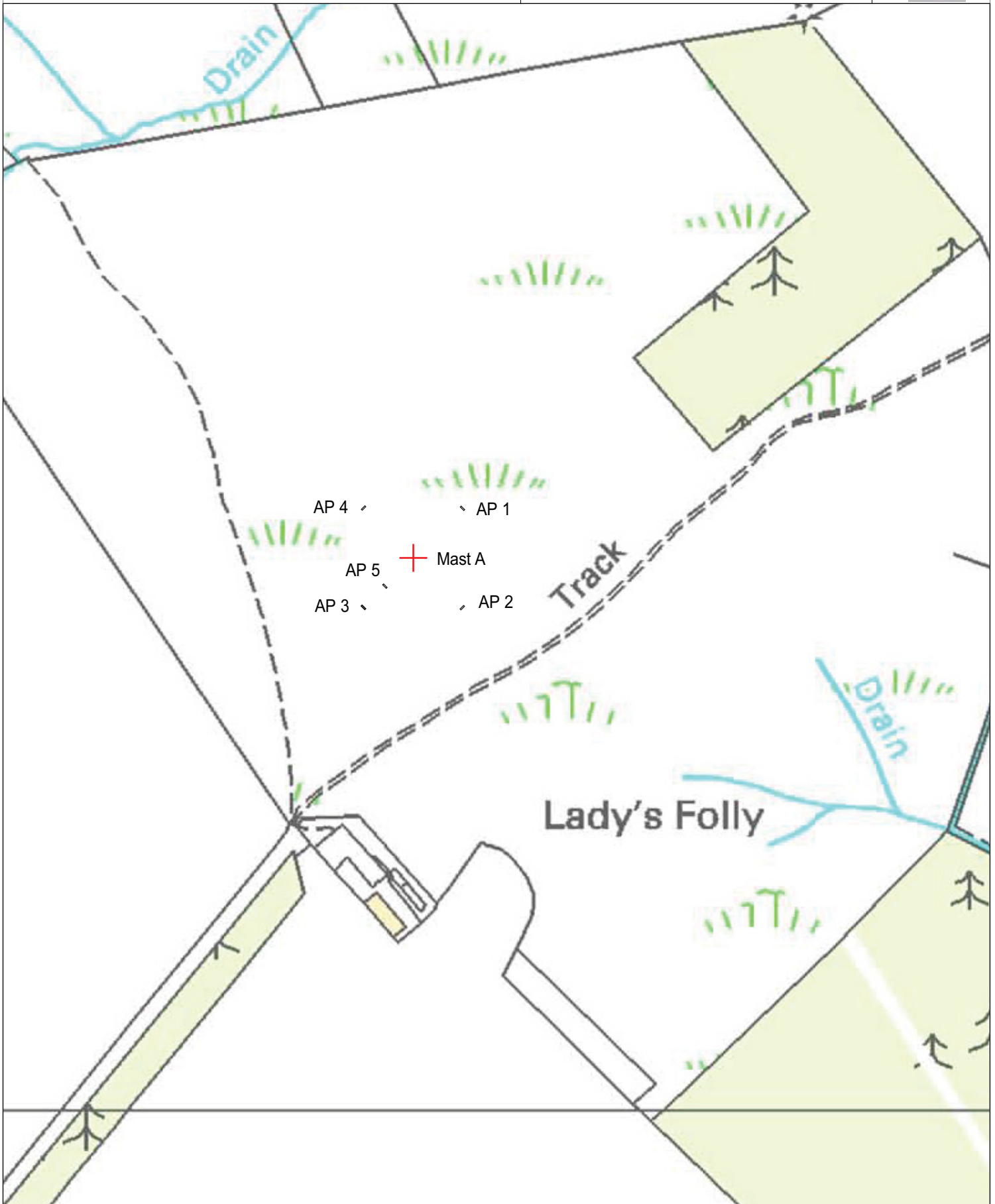
Title: Location map showing watching brief area and other cultural heritage sites within wind farm area

Project: Penmanshiel Met Mast


Scale: 1:10,000 @ A3

Client: RES UK & Ireland Ltd

Scale: 1:10,000 @ A3



Key:





Scale: 1:2,500 

Fig. No:	2	Revision:	A	Client:	RES UK & Ireland Ltd
Title:	Plan of watching brief area				
Project:	Penmanshiel Met Mast				



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Figure 3 - General shot of area



Figure 4 - General shot of area



Key:	Fig. No:	3-4	Revision:	A	Client:	RES UK & Ireland Ltd	 <p>CFA ARCHAEOLOGY LTD The Old Engine House Eskmills Park Musselburgh East Lothian, EH21 7PQ t: 0131 273 4380 f: 0131 273 4381 e: info@cfa-archaeology.co.uk w: www.cfa-archaeology.co.uk</p>				
	Title:										
Project:											
Scale:	Penmanshiel Met Mast					Drawn by:	SW	Page No:		Report No:	1850



Figure 5 - Anchor Pit 1 excavated to natural subsoil



Figure 6 - Anchor Pit 3 excavated to natural subsoil

Key:	Fig. No:	5-6	Revision:	A	Client:	RES UK & Ireland Ltd					
	Title:										
Scale:	Project:										
	Penmanshiel Met Mast										
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