

# CFA Archaeology Ltd

archaeological consultants

*Advice on Archaeology & Planning*

*Environmental Impact Assessment*

*Intpretation, Design & Display*

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*Historic Building Recording*

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*Geophysical Survey*

**Muirton Farm, Drem, East Lothian.**

**Archaeological Archive Assessment  
and Monitored Topsoil Strip**

**Report No. 1816**

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## **CFA ARCHAEOLOGY LTD**

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## **1. INTRODUCTION**

### **1.1 General**

1.1.1 This report presents the results of an archaeological archive assessment and monitored topsoil strip undertaken by CFA Archaeology Ltd (CFA) during August 2010 at Muirton Farm, Drem, East Lothian. (Fig. 1) (NGR: NT 514 800). The work was commissioned by Messrs Charles Russell.

1.1.2 A Written Scheme of Investigation (WSI) was prepared by CFA from information provided by Douglas Russell for Messrs Charles Russell and was designed to fulfil the requirements of East Lothian Council Archaeology Service (ELCAS).

### **1.2 Background**

1.2.1 The proposed development site is located to the north-east of the village of Drem and to the west of Muirton itself. A number of undesignated cropmark remains are located either within or in very close proximity to the development site.

1.2.2 No previous invasive archaeological fieldwork is known to have taken place within the proposed development area prior to this evaluation.

### **1.3 Objectives**

1.3.1 The objectives of the programme of archaeological works were

- To conduct an appropriate programme of archaeological investigation (monitored strip) to monitor all groundbreaking works for the construction of the turbines, to ensure works are cleared of topsoil and other modern overburden to identify either undisturbed natural subsoil or archaeological features (whichever comes first).
- to mitigate the effects of construction on any archaeological deposits or features identified through excavation and recording and produce a report on them.

## **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 Watching Briefs.

### **2.2 Archive Assessment**

2.2.1 An Archive Assessment was conducted to put this work within the local context. The NMRS and Historic Environment Record site databases were consulted. Readily available historical mapping was also consulted. Sites with statutory designations were identified, including consultation of the Statutory List of Buildings of Special Architectural or Historic Interest and the Inventory of Gardens and Designed Landscapes. A range of the aerial photographic coverage for the area was consulted.

### **2.3 Monitored Strip**

2.3.1 Machine excavation took place using a mechanical excavator equipped with a smooth-bladed ditching bucket. All machine excavation was carried out under the supervision of an archaeologist until the first archaeological horizon or undisturbed natural subsoil was reached. All exposed surfaces were cleaned by hand by archaeologists.

2.3.2 All on-site recording was carried out according to standard CFA procedures, principally by drawing, by photography and by completing standard CFA record forms.

### 3. ARCHAEOLOGICAL RESULTS

#### 3.1 Archive Assessment

3.1.1 There are a number of sites in the vicinity known as cropmarks. These are summarised in the table below.

NMRS no.	HER no.	NGR	Description
NT58SW 29	MEL1353	NT 514 801	Enclosure
NT57NW 98	MEL2025	NT 5141 7966	Ring ditch house (possible) Rig-and-furrow
NT58SW 74	MEL2485	NT 5151 8042	Enclosure (possible) Field boundary Rig-and-furrow Drains
NT57NW 105	MEL2487	NT 5159 7975	Enclosure
NT58SW 201	MEL9046	NT 5157 8008	Agricultural cropmarks

3.1.2 The oblique aerial photographs show the location of a circular ditched enclosure (MEL1353), visible as a cropmark, lying about 150m to the west of Muirton and 50m south of the field boundary (Fig. 1). This enclosure is about 50m in diameter. A range of linear features are present in the surrounding area. To the south, those cropmarks within close proximity of the development site are probably drains and/or rig-and-furrow remains (MEL2487, MEL2025). To the north, the closest cropmarks to the site are also probably either drains or rig-and-furrow remains (MEL2485).

3.1.3 Muirton Farmhouse is a Category C(s) Listed building, originating in c.1800 with later alterations. It is a 2-storey 3-bay farmhouse.

3.1.4 Roy's Military Survey shows the area covered in rig-and-furrow, which may relate to some of the cropmark evidence. Adair's map of 1682 shows Mayrtoun, while other historical maps from Forrest (1802) onwards show Muirton and the development area as open fields.

3.1.5 The First Edition Ordnance Survey map (1854) shows open fields with field boundaries present and a foot path crossing the site from Drem to Muirton SW-NE.

#### 3.2 Monitored Strip

3.2.1 All four turbine base foundations were excavated but only two of the turbines will be erected in the first instance and therefore cabling trenches were only excavated for Turbines 1 and 4.

3.2.2 The trench for each turbine base foundation measured 5m by 5m, except Turbine 1 which was extended by 1.8m to the east due to the presence of a field drain.

3.2.3 The turbine bases were located as follows, with the grid reference marking the centre point:

Turbine 1	NT 51410 80183
Turbine 2	NT 51378 80334
Turbine 3	NT 51391 80005
Turbine 4	NT 51522 79859

- 3.2.4 The topsoil was 0.3-0.45m deep and generally directly overlay natural subsoil, which was firm, yellow sandy silt. In Turbine bases 2 and 3 there was a subsoil horizon measuring 0.2m thick.
- 3.2.5 No archaeological features or deposits were identified in the four trenches.
- 3.2.6 The cable trench measured 0.45m wide by 0.9m in total depth. It connected Turbine 4 with Turbine 1 and then crossed the field towards the farm buildings.
- 3.2.7 Topsoil was generally 0.3-0.4m deep with a yellow sandy silt natural noted between Turbines 4 and 1 and an orange-brown sandy clay more prevalent between Turbine 1 and the farm. There was heavy disturbance from roots where the cable passed through the existing hedgerow field boundary.
- 3.2.8 No archaeological features or deposits were identified in the cable trenches.

#### **4. CONCLUSION**

- 4.1 The excavation of four turbine bases and two lengths of cable trench were monitored and no archaeological features or deposits were identified.
- 4.2 A summary statement of the results of this evaluation will be submitted for publication in *Discovery and Excavation in Scotland* (Appendix 2).
- 4.3 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 East Lothian Council Sites and Monuments Record.

## 5. REFERENCES

### Cartographic

Adair, J 1682 *East Lothian, authore Johanne Adair* (manuscript).

Ainslie, J 1821 *Ainslie's Map of the Southern Part of Scotland*.

Forrest, W. 1802. *Map of Haddingtonshire*.

Greenwood, C., Fowler, W. & Sharp, T. 1844. *Map of the county of Haddington*.

Ordnance Survey 1854 First Edition 6" *Haddingtonshire* sheet no. 5. Scale 1:10,560.

Thomson, J 1822 *Haddington*.

Roy, W. 1747-55 *Military Survey of Scotland*.

### Aerial Photographs

Item	NMRS no.	Description	Date
EL 3983-5	NT58SW 29	Oblique aerial view	1978
B 24532-4	NT58SW 29	Oblique aerial view	1989
C 28588-90	NT58SW 29 NT57NW 98 NT57NW 105	Oblique aerial view	27/7/1994
E 36938-41	NT57NW 98 NT57NW 105	Oblique aerial view	22/7/2003
B 71652-5	NT57NW 98	Oblique aerial view	1991
B 73930-3	NT57NW 98	Oblique aerial view	1992
C 28605-8	NT58SW 74	Oblique aerial view	27/7/1994
C 28601-4	NT57NW 105	Oblique aerial view	-
B 97008-9 CS	NT57NW 105	Oblique aerial view	-
B 97011-5 CS	NT57NW 105	Oblique aerial view	-
E 36942-4	NT58SW 201	Oblique aerial view	22/7/2003



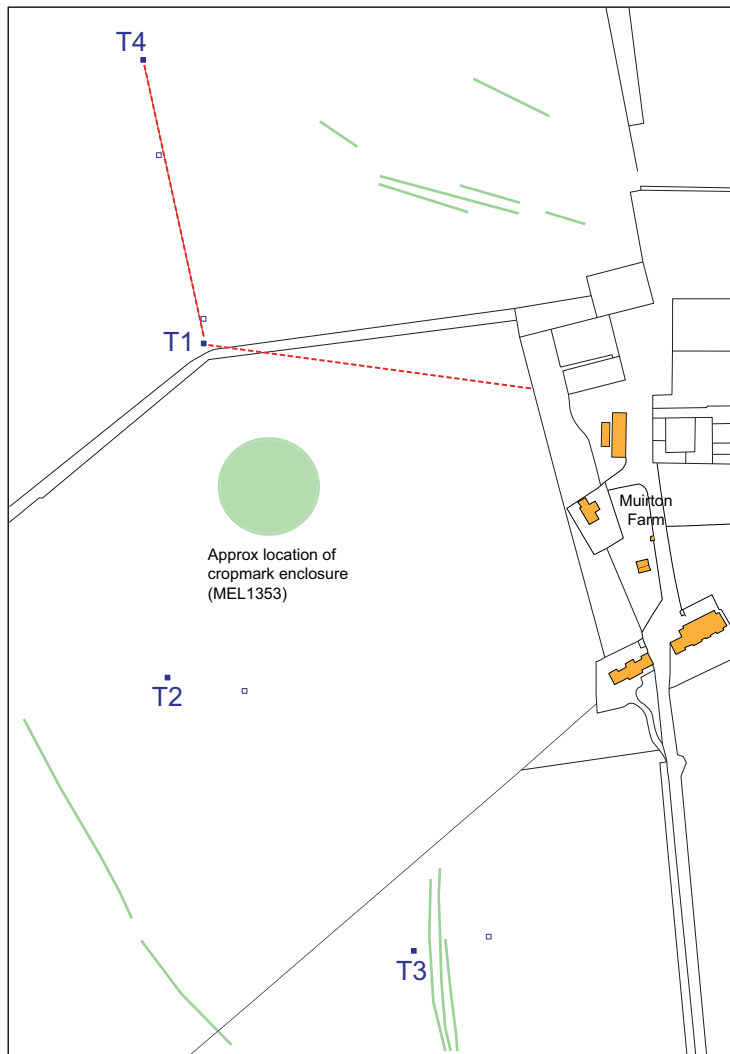
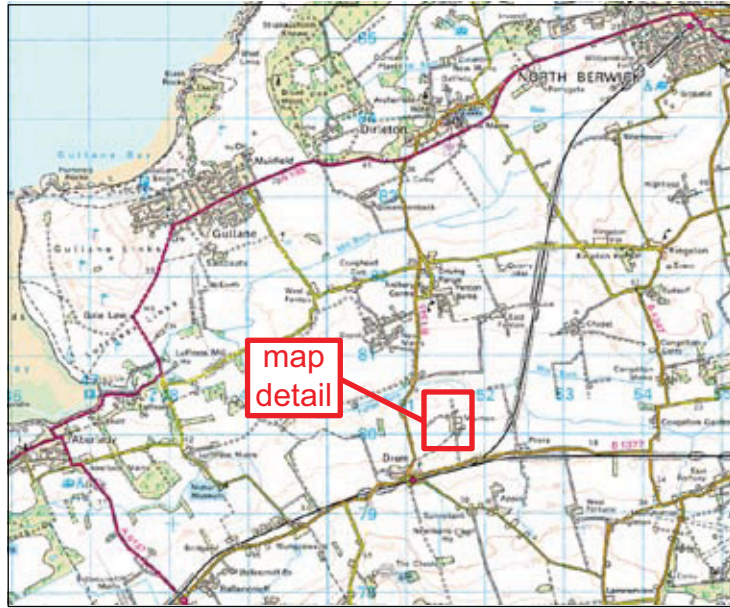
## APPENDIX 1: Photographic Register

### *Digital Images*

<b>Photo No.</b>	<b>Description</b>	<b>From</b>
1	General view of location of Turbine 1	N
2-5	Working shots, Turbine 1	S
6	Turbine 1 base	E
7	Turbine base 1, soil profile	W
8	General view, location of Turbine 3	W
9	Turbine base 3	E
10	Turbine base 3, soil profile	E
11	Turbine base 2, western half	S
12	Turbine base 2, eastern half	S
13	Turbine base 2, soil profile	W
14	Turbine base 4	N
15	Turbine base 4, soil profile	S



## APPENDIX 2: Discovery and Excavation in Scotland Entry

<b>LOCAL AUTHORITY:</b>	East Lothian Council
<b>PROJECT TITLE/SITE NAME:</b>	Muirton Farm, Drem
<b>PROJECT CODE:</b>	MUWF
<b>PARISH:</b>	Athelstaneford
<b>NAME OF CONTRIBUTOR:</b>	Stuart Mitchell
<b>NAME OF ORGANISATION:</b>	CFA Archaeology Ltd
<b>TYPE(S) OF PROJECT:</b>	Archive assessment, monitored topsoil strip
<b>NMRS NO(S):</b>	
<b>SITE/MONUMENT TYPE(S):</b>	None
<b>SIGNIFICANT FINDS:</b>	None
<b>NGR (2 letters, 10 figures)</b>	NT 516 801 (centred)
<b>START DATE (this season)</b>	16-08-10
<b>END DATE (this season)</b>	16-08-10
<b>PREVIOUS WORK (incl. DES ref.)</b>	None
<b>MAIN (NARRATIVE) DESCRIPTION:</b> (May include information from other fields)	A monitored topsoil strip was carried out during ground breaking works for the construction of four wind turbines on land at Muirton Farm, Drem. A number of cropmark sites are recorded in the vicinity of the development. Each turbine base measured 5m by 5m. No archaeological deposits or features were recorded.
<b>PROPOSED FUTURE WORK:</b>	None
<b>CAPTION(S) FOR ILLUSTRS:</b>	N/A
<b>SPONSOR OR FUNDING BODY:</b>	Messrs Charles Russell
<b>ADDRESS OF MAIN CONTRIBUTOR:</b>	The Old Engine House, Eskmills Park, Musselburgh, EH21 7PQ
<b>EMAIL ADDRESS:</b>	cfa@cfa-archaeology.co.uk
<b>ARCHIVE LOCATION (intended/deposited)</b>	National Monuments Record of Scotland East Lothian Council Sites and Monuments Record



Key:

- proposed turbine locations
- actual turbine locations
- recorded cropmarks, approx.
- - - cable trench

Scale: 1:4000@A4

Fig. No: <b>1</b>	Revision:	Client: <b>Messrs Charles Russell</b>
Title: <b>Location map</b>		
Project: <b>Muirton Farm, Drem, East Lothian</b>		



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Fig. 2 Turbine base 1



Fig. 3 Turbine base 3

Key:

Fig. No: 2-3    Revision: A    Client: Messrs Charles Russell

Title:

Project: Muirton Farm, Drem, East Lothian

Scale:



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