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Geophysical Survey

Lochelbank Wind Farm, Glenfarg, Perth and Kinross Archaeological Mitigation Works

Report No. 1886

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

**Lochelbank Wind Farm, Glenfarg,
Perth and Kinross
Archaeological Mitigation Works**

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1. INTRODUCTION

1.1 General

This report presents the results of archaeological mitigation works carried out at Lochelbank Windfarm, Perth & Kinross (NGR: NO 118 134) (Fig. 1). The work was carried out by CFA Archaeology Ltd (CFA) between August 2010 and March 2011 and was commissioned by RWE NPower Renewables.

1.2 Background

The Lochelbank Wind Farm received planning permission in August 2007 following a public inquiry.

A Written Scheme of Investigation (WSI) was produced by CFA Archaeology Ltd. This set out the programme of archaeological work to be undertaken at Lochelbank Wind Farm. Mitigation proposals were included in the Cultural Heritage chapter of the Lochelbank Wind Farm Environmental Statement (Npower Renewables 2005) (ES) and the precognition for the public inquiry (Npower Renewables 2006). In the process of producing the WSI, Perth and Kinross Heritage Trust (PKHT), on behalf of Perth and Kinross Council, were consulted on their final requirements for mitigation. Their requirements refined the proposals previously provided and the WSI was designed to fulfil those.

Site numbers in the following text refer to gazetteer entries in the Cultural Heritage chapter of the ES and the precognition. This report should be read in conjunction with those documents. Kirkdale Archaeology conducted walkover survey in 2003 and 2004 as part of the preparation of the ES.

1.3 Objectives

The objectives of the mitigation works were:

- To fence off Site 1 and Site 5 to prevent accidental damage during construction and decommissioning.
- Following tree felling in the plantation, and prior to any construction, the area affected by construction within the felled area will be subject to a walk-over survey to identify previously unknown archaeological sites and confirm whether known sites that may be affected by the development still survive.
- To assess the needs for further mitigation.

One of the objectives of the mitigation was to investigate the Wallace Road (Site 13); this work was carried out in 2008 and is reported on separately (Somerville 2008).

2. WORKING METHODS

2.1 General

CFA Archaeology Ltd follows the Institute for Archaeologists' Code of Conduct, Standards and Guidance where appropriate.

2.2 Demarcation

Sites 1 and 5 required to be demarcated with a 10m and 5m buffer respectively to prevent damage from construction. Cane flags were laid out by the archaeologist and this line was used by the contractor in putting fencing into place.

The georeferenced digital data for the scheduled area (supplied by Historic Scotland) was used to accurately locate the scheduled area and the required buffer. The archaeological contractor used DGPS equipment to locate this.

The fencing will be temporary, lasting for the duration of the construction programme.

2.3 Identification of Sites Within Areas of Proposed Deforestation

Following tree felling, a walkover survey was conducted of the previously afforested areas to identify the presence or absence of Sites 8, 33, 36 and 37 and any previously unidentified sites. If sites were in close proximity to construction features they were to be visibly demarcated.

All sites identified were photographed, described, sketched and located using DGPS.

3. ARCHAEOLOGICAL RESULTS

3.1 General

Sites within the development area which were to be affected by the proposed Lochelbank Wind Farm are described in Table 1. This information has been extracted from the ES.

Site no.	Type	NGR	Status	Description
1	Cairn	NO 1196 1304	SM 9459	A stone coffin was found under this cairn in the mid 19th century. The site is a turf-covered flat-topped mound, 20.5m in diameter by 0.5m high with a modern cairn built on its south side. It is located in a field of semi-improved pasture, with a vehicle track noted on its SE side.
5	Structure	NO 1330 1287	-	A small rectangular roofed structure with an enclosure on its SW side and a track connecting it to Lochelbank, was depicted on the Ordnance Survey First Edition (1866) but not on the Second Edition (1896). The site was located in an open area of gorse-covered rough pasture within an arable field, indicating perhaps that it was not well maintained in the mid-19th century (Kirkdale Archaeology 2003).
8	Quarry	NO 1111 1295	-	A quarry was depicted on the Ordnance Survey First Edition map (1866). The quarry comprises a circular platform 10m in diameter with an exposed rock face about 3m high (Kirkdale Archaeology 2003)
33	Track	NO 1329 1278 to NO 1255 1323 to NO 1156 1334 to NO 1074 1366	-	Trackway known as Cadger Road from historical mapping from 1774 and on Ordnance Survey Second Edition (1901). The track leads from Lochelbank farmstead where it forks at NO 1255 1323 and proceeds WNW to the edge of a recent plantation at NO 1156 1334. Later mapping shows it proceeding to Keltly Burn (Kirkdale Archaeology 2004).
36	Kale Yards	NO 1130 1335	-	This site relates to a description from local informants of kale yards within an area under coniferous plantation. No identifiable remains were found (Kirkdale Archaeology 2004).
37	Clearance cairns	NO 1130 1335	-	This site relates to a description from local informants of consumption clearance cairns within an area under coniferous plantation. No identifiable remains were found (Kirkdale Archaeology 2004).

Table 1: Cultural Heritage Sites within the Development

3.2 Demarcation

Sites 1 and 5 required to be demarcated to prevent damage from construction. This took place in August 2010.

Site 1 is known as Cairn Geddes and is a Scheduled Monument (SM no. 9459). A buffer zone of 10m beyond the edge of the scheduled area was marked out on the ground (Fig. 2-3) using DGPS equipment and cane flags. This was replaced with more permanent fencing by the contractor.

Site 5 was not located on the ground and therefore could not be demarcated. As this site is no longer visible on the ground it is presumed to have been destroyed. This probably took place between the mapping of the First and Second Ordnance Survey Editions (1866 and 1896).

3.3 Identification of Sites Within Areas of Proposed Deforestation

A post-felling walkover survey was undertaken within Hill Wood to the west of Lochelbank Hill in March 2011. The plantation was established in the 1970s.

The felled area had a thick surface covering of brash and mulch and the ground had been heavily disturbed by tree furrows.

The quarry Site 8 was found to be as described (Fig. 4).

The recorded locations of Sites 36 and 37 were visited but no remains were identified (Fig. 5), nor were any remains of these sites visible at other locations within the plantation.

No evidence was found for Site 33, a trackway. It possibly follows the route of an existing forestry access track (Fig. 6) running through the plantation although this is unconfirmed and is suggested because this would be an appropriate route, on the basis of the local topography.

No previously unknown sites were identified during the post-felling survey in Hill Wood.

4. CONCLUSION

A programme of archaeological mitigation works was carried out within Lochelbank Windfarm. This work included walkover survey and marking off.

Site 1, the scheduled monument of Cairn Geddes, was fenced off with a 10m buffer beyond the edge of the scheduled area. Site 5 was not located on the ground.

The post-felling walkover survey identified the remains of Site 8. No other remains were identified in the felled areas and are presumed to have been destroyed by forestry activities.

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 Perth & Kinross Sites and Monuments Record.

A summary statement of the results of this excavation will be submitted for publication in *Discovery and Excavation in Scotland* (Appendix 4).

5. REFERENCES

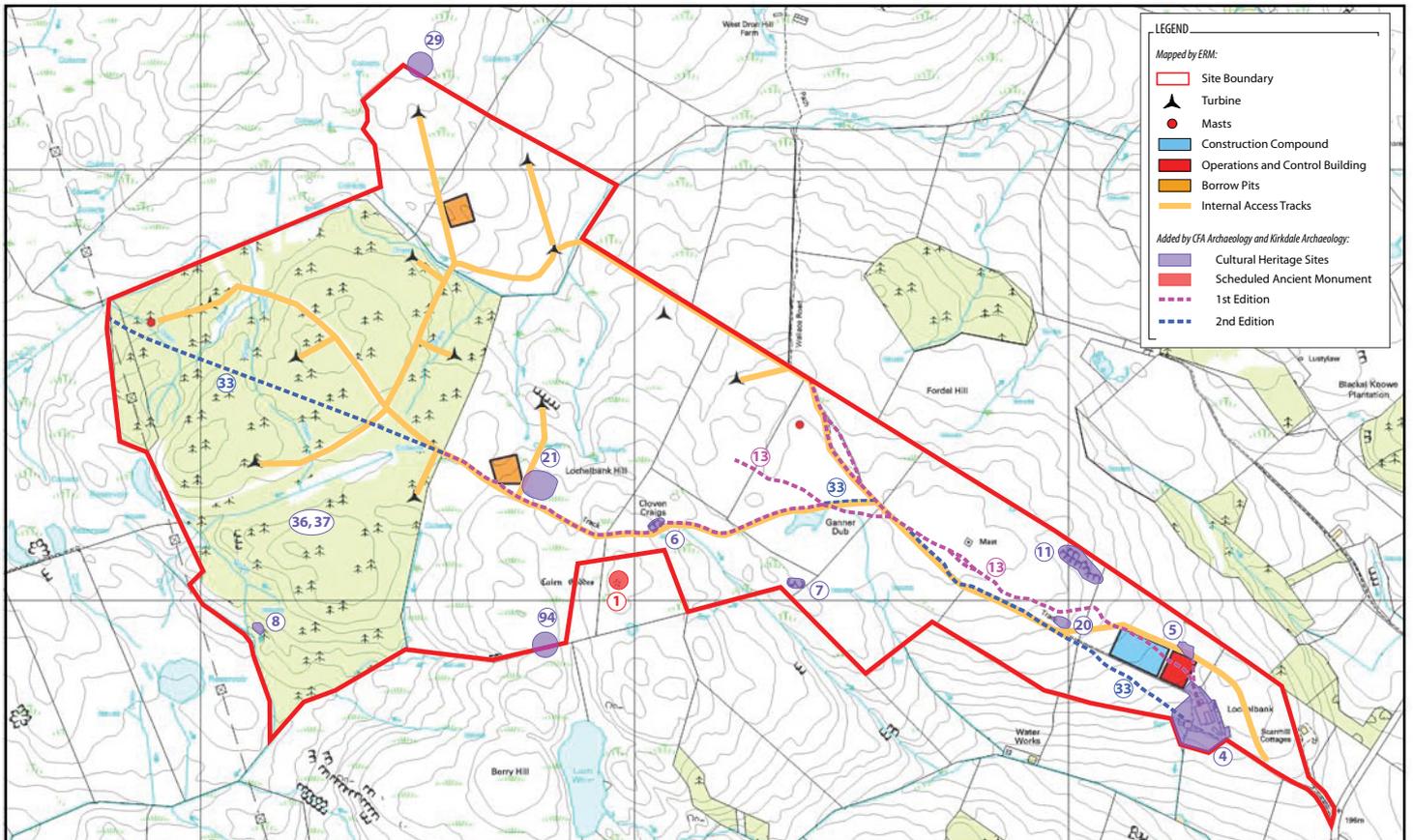
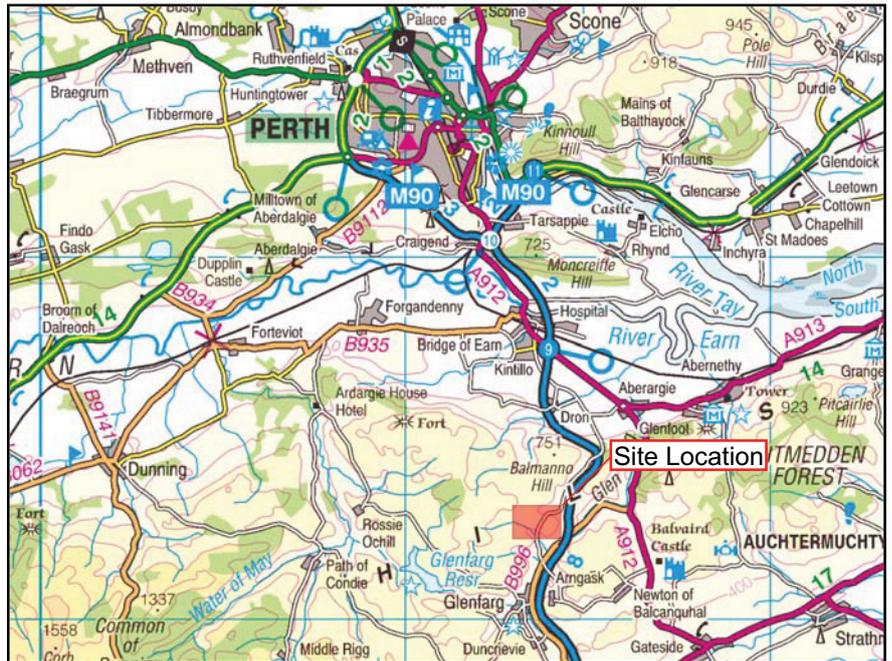
Somerville, L 2008 *Lochelbank Windfarm, Kinross, Perthshire. Archaeological Evaluation*. CFA Archaeology Ltd, Unpublished Report No. 1518.

APPENDIX 1: Digital Photographic Register

Shot	Description	Taken From	Conditions
1-2	General views from Cairn Geddes		Sunny
3-10	Panoramic view of buffer from on top of Cairn Geddes		Sunny
11-13	Detailed view of marking off		Sunny
14-17	General views looking up to Cairn Geddes		Sunny
18	View of dammed river	NW	Misty
19-21	Views of quarry Site 8	SE/S/SW	Misty
22-25	Views of recorded location of Sites 36 and 37	S/E/N/W	Misty
26	View of clearing within plantation	E	Misty
27-29	Views of forestry track, possibly following former trackway Site 33	E/N/W	Misty

APPENDIX 2: Discovery And Excavation In Scotland Entry

LOCAL AUTHORITY:	Perth & Kinross
PROJECT TITLE/SITE NAME:	Lochelbank Wind Farm
PROJECT CODE:	LOWI
PARISH:	Arngask
NAME OF CONTRIBUTOR:	Melanie Johnson
NAME OF ORGANISATION:	CFA Archaeology Ltd
TYPE(S) OF PROJECT:	Survey
NMRS NO(S):	NO11SW 3
SITE/MONUMENT TYPE(S):	Cairn, quarry
SIGNIFICANT FINDS:	None
NGR (2 letters, 6 figures)	NO 118 134
START DATE (this season)	June 2008
END DATE (this season)	March 2011
PREVIOUS WORK (incl. DES ref.)	-
MAIN (NARRATIVE) DESCRIPTION: (May include information from other fields)	<p>A programme of archaeological mitigation was undertaken at Lochelbank Wind Farm between 2008 and 2011.</p> <p>Two archaeological trial trenches were excavated across the line of the Wallace Road in order to determine the methods used in its construction. Sections of the Wallace Road had been upgraded using modern hardcore, but there was no evidence of its original surface. This would suggest that it had never been anything more than a beaten earth track.</p> <p>Cairn Geddes, a scheduled monument, was fenced off with a 10m buffer beyond the edge of the scheduled area.</p> <p>The post-felling walkover survey in Hill Wood to the west of Lochelbank Hill identified the remains of a previously recorded quarry. The recorded locations of kale yards and clearance cairns were visited but no remains were identified. A trackway known as Cadger Road possibly followed the route of an existing forestry access track running through the plantation. No other remains were identified in the felled areas.</p>
PROPOSED FUTURE WORK:	N/A
CAPTION(S) FOR ILLUSTRS:	N/A
SPONSOR OR FUNDING BODY:	
ADDRESS OF MAIN CONTRIBUTOR:	The Old Engine House, Eskmills Park, Musselburgh, East Lothian, EH21 7PQ
EMAIL ADDRESS:	cfa@cfa-archaeology.co.uk
ARCHIVE LOCATION (intended/deposited)	National Monuments Record for Scotland (NMRS) Perth and Kinross Sites and Monuments Record (SMR)



LEGEND

Mapped by ERM:

- Site Boundary
- Turbine
- Masts
- Construction Compound
- Operations and Control Building
- Borrow Pits
- Internal Access Tracks

Added by CFA Archaeology and Kirkdale Archaeology:

- Cultural Heritage Sites
- Scheduled Ancient Monument
- 1st Edition
- 2nd Edition



Key:

Scale:

Fig. No: **1** Revision: **A** Client: **RWE NPower**

Title: **Location map showing cultural heritage sites**

Project: **Lochelbank Wind Farm**

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Drawn by: **CAE** Checked: **LW** Report No: **1886**



Fig. 2 - View of Cairn Geddes (Site 1) demarcated prior to fencing



Fig. 3 - View of Cairn Geddes (Site 1) demarcated prior to fencing

Key:	Fig. No:	2-3	Revision:	A	Client:	RWE NPower	 <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:	Lochelbank Wind Farm					Drawn by:	CAE	Checked:	LW	Report No:	1886



Fig. 4 - View of quarry Site 8



Fig. 5 - View of former location of Sites 36 & 37

Key:	Fig. No:	4-5	Revision:	A	Client:	RWE NPower	 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				
	Title:										
Project:											
Scale:	Lochelbank Wind Farm					Drawn by:	CAE	Checked:	LW	Report No:	1886



Fig. 6 - View of existing track possibly following former route of Site 33

Key:	Fig. No:	6	Revision:	A	Client:	RWE NPower	 <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:	Lochelbank Wind Farm					Drawn by:	CAE	Checked:	LW	Report No:	1886