

**Drumderg Wind Farm, Perthshire:**  
**Walkover and Topographical Survey,**  
**Evaluation and Watching Brief**  
**Data Structure Report**

**On behalf of:** Scottish and Southern Energy (SSE) Ltd

**National Grid Reference (NGR):** NS 1800 5500

**AOC Archaeology Project No:** 20343

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## 1 NON TECHNICAL SUMMARY

- 1.1 AOC Archaeology Group undertook a programme of archaeological works for Scottish and Southern Energy (SSE) Ltd, in advance of the development of a proposed Wind Farm at Drumderg, near Alyth, Perthshire.
- 1.2 During a walkover survey for the production of the *Written Scheme of Investigation* (AOC 2007) in December 2006 a number of clearance features and cultivation remains were identified. A topographical survey of a probable area of cultivation was undertaken in March 2007. In April 2007 an intrusive field evaluation was undertaken of areas of proposed disturbance in close proximity to known archaeological remains. This included the excavation of trenches through clearance cairns and a linear clearance/boundary feature. Apart from these earlier noted features, no deposits, features or finds of archaeological significance were noted. A watching brief was also undertaken on the excavation of a cable trench to the south of the proposed wind farm. This recorded the corner of a post-medieval rectilinear farm building.

## 2 INTRODUCTION

### 2.1 Background

- 2.1.1 Scottish and Southern Energy Ltd commissioned AOC Archaeology Group to undertake a programme of archaeological works in advance of a proposed Wind Farm development at Drumderg near Alyth, Perthshire. This work will be undertaken in accordance with the existing *Archaeological and Cultural Heritage Impact Assessment, Drumderg* (2003) and *Drumderg Wind Farm Environmental Statement* (2003; 2006) (Figure 1). The work is required as a condition (No. 35) placed on the planning application..
- 2.1.2 All works undertaken were designed to satisfy the planning condition as imposed by Perth and Kinross Council as advised by Perth & Kinross Heritage Trust (PKHT) and are in accordance with the principles inherent in NPPG 5, NPPG 18 and PAN 42.

### 2.2 Location (Figure 1)

- 2.2.1 The site of the proposed Drumderg Wind Farm covers an irregular area measuring approximately 2.75 km east/west by 3.5 km north/south, and covers much of Drumderg Hill, in particular its south and east-facing slopes. The location and extent of the site is shown in Figure 1. A system of sixteen wind turbines are proposed to be erected within this area. An *Archaeological and Cultural Heritage Impact Assessment* (AOC 2002), an *Environmental Statement* (SSE 2006) and a walkover conducted in December 2006 for the *Written Scheme of Investigation* (AOC 2007) identified areas of archaeological significance in the vicinity of Turbines 1, 5 and 15, and a proposed borrow pit site, as well as associated tracks. The site is presently occupied by grass and heather-covered pastureland (Plate 2), with areas of woodland and arable land

to the south, around Rannagulzion Farm. Centred at NGR: NO 180 550 the site is surrounded by rolling hilly pastureland, with woods to the east. A minor road crosses the south of the proposed development area from south-east to north-west. The site rises in the centre to a height of 422 m AOD, falling to a minimum of approximately 290 m AOD to the south. The slope of the hill is fairly steep, in particular from the hill top towards the south-east.

## 2.3 Archaeological Background

2.3.1 The works for the *Archaeological and Cultural Heritage Impact Assessment* (AOC 2002), an *Environmental Statement* (SSE 2006) identified a total of 39 sites of archaeological or historic interest located within 1 km of the proposed locations of turbines in the development area as defined within the Drumderg Wind Farm Environmental Statement (2006). In December 2006 a walkover was conducted prior to the production of a *Written Scheme of Investigation* (AOC 2007), and this survey, together with information from Perth and Kinross Heritage Trust and Scottish and Southern Energy led to the identification of a further 14 sites. These are diverse remains including prehistoric cairns, settlement and field system remains and medieval and post-medieval field system and farmstead evidence (See Appendix 7: Site Gazetteer). Of these remains, the most at risk include Site No. 9 (incorporating Site No. 44) and Site No. 17, (including associated Site Nos. 41, 47, 48, 52 and 53), which comprise probable late prehistoric settlement including hut circles, cairns, enclosures and cultivation remains, the latter possibly of medieval or post-medieval date. These lie in areas likely to be disturbed by the various groundbreaking works of the proposed development, including Turbines 1, 5 and 15. A clearance cairn (Site No. 40) is also at risk from the southern borrow pit. Site No. 27 (a post-medieval farmstead), associated with Site No. 46, lies on the path of underground cabling work. On the track route adjacent to Turbine 9 and close to Site No. 13 lies an area of possible cultivation remains (Site No. 49). Elsewhere, Site Nos. 13, 19, 28, 29, 30, 31, 42, 43, 45, 50 and 51 (varying in date from Bronze Age to post-medieval) potentially lie in close proximity to groundbreaking works.

## 3 OBJECTIVES

3.1 The objectives of the archaeological works were:

- i) to determine the character, extent and quality of any archaeologically significant remains in parts of the proposed development area where groundbreaking works are to occur;
- ii) given that significant archaeological deposits be discovered, the preparation of a mitigation strategy compliant with NPPG 5, NPPG 18 and PAN 42 will be carried out and the necessary works undertaken.

## 4 METHODOLOGY

### 4.1 Introduction

4.1.1 The details of the archaeological works, laid out below, were designed to fully meet the requirements of Perth and Kinross Council as advised by the PKHT and follow the methodology laid out in the Written Scheme of Investigation (AOC 2007).

### 4.2 Walkover and Topographical Survey

4.2.1 A walkover survey was undertaken of the proposed development area on 18<sup>th</sup> and 19<sup>th</sup> December 2006 by two archaeologists. This encountered archaeological remains as described in the accompanying gazetteer, which facilitated the production of the *Written Scheme of Investigation* (AOC 2007). The locations of archaeological sites were recorded by GPS. The WSI noted that further walkover survey was required of areas of potential ground disturbance, following the stripping of overlying heather. This work was undertaken on March 21<sup>st</sup> and 22<sup>nd</sup> 2007, by two archaeologists, in overcast but dry weather conditions, with a light covering of snow on the ground (melted during the second day of survey). This walkover covered a site compound area (approximately 90 m by 90 m) in the south-west of the site, and 20 m wide areas along cable routes between Turbines 9 and 10 and between Turbine 1 and the road adjacent to the new site compound (Figure 1).

4.2.2 A walkover survey was also conducted of the track route between Turbines 6 and 9, and a topographical survey of cultivation remains was undertaken by two archaeologists utilizing a total station.

### 4.3 Evaluation

4.3.1 The evaluation was achieved through the excavation of linear trenches using a 360° tracked excavator equipped with a 2.0 m wide ditching bucket. The areas demarcated by Scottish and Southern Energy as zones of potential disturbance around proposed Turbines 1, 5 and 15 each covered an area of approximately 80 m by 80 m. With a 10 m buffer around each of these zones, the area evaluated around each turbine site measured 100m by 100m or 1 ha. Also, a zone measuring 120 m by 120 m (1.44) was evaluated around the proposed southern borrow pit. In the areas of Turbines 1, 5 and 15 and the southern borrow pit the evaluation aimed to cover a minimum 5% sample of these locations (total area 4.44 ha). A total of 2,340 m<sup>2</sup> of trenches, just over the 5% sample size was excavated.

4.3.2 Following on-site consultation with Sarah Winlow of PKHT it was agreed that a single 30 m trench would be sufficient evaluation of the track route from Turbine 1 to the turbine layout area (as this area was largely waterlogged), with another trench on the track route from Turbine 1 towards Turbine 5, excavated through clearance cairn (Site Nos. 42 and 43). The trenches

excavated around Turbine 15 included one positioned in providing a section through clearance/boundary bank (Site No.44). The trench layout is depicted on Figure 2.

- 4.3.3 The trial trenching aimed to establish the extent, condition, character, quality and date of any archaeological features present. These trenches were set on varying orientations, but where possible followed a grid pattern. In line with the Perth and Kinross Heritage Trust's terms of reference for archaeological works the standard trench length was 30 m or less and the width was 2.0 m.
- 4.3.4 Excavation was undertaken in shallow units/spits until the first significant archaeological horizon or drift was reached. Where necessary trial trenches or test pits were extended around specific possible archaeological features to determine their extent. All machine excavation was supervised by an experienced field archaeologist.
- 4.3.4 Spoil was placed to the side of the evaluation trenches. No attempt was made to separate topsoil, made ground and subsoil.
- 4.3.5 All potential archaeological features were cleaned and fully defined. These were then investigated in order to determine their character, function, nature, date and significance.
- 4.3.6 All trial trenching was undertaken according to AOC Archaeology Group's standard operating procedures (WSI Appendix 7, 7.1 to 7.29).

#### **4.4 Watching Brief**

- 4.4.1 An archaeological watching brief was undertaken on groundbreaking works in the south of the site (Figure 4), associated with the excavation of a cable trench route. This route lay in the vicinity of features identified during the walk-over survey. An experienced field archaeologist recorded archaeological deposits and features disturbed during the excavation of 1 m-wide service trench by a tracked excavator equipped with a toothed bucket.
- 4.4.2 All significant archaeological features were cleaned and fully defined. These were then excavated, sampled and recorded in order to determine their character, function, nature, date and significance. A general photographic record was made in black and white print; colour slide and digital photography of all archaeological deposits and features.

## **5 RESULTS**

- 5.1 The following should be read together with the various data gathered from the archaeological works presented in Appendices 1-5 and Figures 1-8.

### **5.2 Walkover and Topographical Survey**

5.2.1 No archaeological features were recorded during the walkover survey of the cable routes and new site compound site in March 2007. However, Site No.49, on the proposed track between Turbines 6 and 9, was found to comprise a series of four SW/NE-aligned rigs with associated furrows, covering an area of 25 m east/west. A topographical survey of this area was undertaken. The cultivation remains (Figure 3; Plate 1) were centred on NGR NO 18200 54670 and extended along the width of the heather-stripped track route (approximately 20 m wide). They were also commonly visible for up to 15 m to the south but were covered by heather to the north. The rigs were spaced at a distance of roughly five to six metres, and were up to 0.4 m in depth, from the top of the rig to the base of the furrow, though most commonly c. 0.1 to 0.2 m in depth. Some 20 m west of this area there was a hummocky area, which may formerly have been a group of rig and furrow remains on a similar alignment, though this area was eroded and unclear. Additionally, to the south, two north-east/south-west aligned raised oval areas, approximately 10 m in length and 0.3 m in height, may represent the remains of rigs. It is probable that the rig and furrow represents late medieval or post-medieval cultivation of the south-east facing slope of Drumderg.

### 5.3 Evaluation (Figures 2, 5-7)

5.3.1 The archaeological evaluation was undertaken in sunny and dry weather between 2<sup>nd</sup> and 6<sup>th</sup> April 2007. A total of 41 trenches, generally 30 m or 15 m long and 2.0 m wide, representing 2,340 m<sup>2</sup> was machine excavated, representing just over 5% of the areas of potential disturbance around the proposed locations of Turbines 1, 5, 15 and the southern borrow pit, with additional single trenches across the track between Turbine 1 and the turbine layout area, and across clearance cairn Site Nos. 42 and 43 (all trenching totalling 2,460 m<sup>2</sup>).

5.3.2 The excavation revealed topsoil comprising dark red brown clayey silt, which was generally between 0.10 and 0.25 m deep. In the area of Turbines 5 and 15 this generally covered a mid reddish brown clay silt hillwash deposit, which was between 0.05 m and 0.20 m deep. Only in Trenches 36 and 39 were areas of relatively deep peat (0.4 m) identified under the topsoil. The general shallow nature of the topsoil led to structural remains such as clearance cairns being clearly visible on the surface of the hillside. The subsoil was in general a light reddish brown or grey silty boulder clay, commonly rich in gravel.

5.3.3 No previously unknown archaeological features were present in the evaluation trenches, and no artefacts were recovered. Trench 41, which was excavated through linear clearance bank [4101]/Site No.44 (Figure 6; Plate 4), revealed the feature to comprise sub-angular stones in a dark greyish brown silt topsoil matrix. It was 2.5 m wide and 0.3 m high. Although there was no dating evidence in this feature, its location in the vicinity of late prehistoric hut circles (Site 9) plausibly points to a similar date.

5.3.4 Sections through three sub-circular clearance cairns were excavated during the evaluation. Trench 9 crossed cairn [901]/Site No.40 (Figure 5; Plate 3), which



measured 2.5 m north/south by 3.0 m east/west. This was a 0.5 m deep dump of sub-angular and angular stone in a dark red brown clay silt topsoil matrix. Trench 43, which crossed both cairns [4301]/Site No.43 and [4302]/Site No.42 (Figure 7; Plate 5), revealed them to be similar, though slightly larger structures (5 m and 4 m diameter respectively).

#### **5.4 Watching Brief (Figures 4 and 8; Plate 6)**

- 5.4.1 The archaeological watching brief recorded the remains of the north-eastern corner of a rectilinear building, part of Site No.27, provisionally dated to the post-medieval period. Two areas of wall [10001] and [10002], both consisting of angular stones with no visible bonding material, were recorded in section. Wall [10001] was found to have a width of 1.0 m and a surviving depth of 1.2 m. To its west, wall [10002], part of the north wall of the building, appeared to have been partially demolished, with a height of 0.5 m of stone material surviving over dumped brown clay [10003] and natural deposits [10004], [10005] and [10006].

## **6 CONCLUSION AND RECOMMENDATIONS**

- 6.1 The topographical survey identified a limited area of probable rig and furrow cultivation at Site No.49, between the proposed locations of Turbines 6 and 9. It is recommended that a watching brief be undertaken on any groundbreaking works in this area.
- 6.2 The evaluation identified that over most of the site a thin topsoil rendered structural remains still visible above the modern surface. Where groundbreaking works are likely to cause disturbance (Features [4101]/Site No.44; [4301]/Site No.43 and [4302]/Site No.42), the evaluation trenches revealed these structures to be simple clearance features. Therefore no further work is proposed for Sites Nos.42 and 43, as they have been recorded sufficiently by excavation. A 10 m buffer should be sufficient around the linear clearance bank Site No. 44, to prevent damage by works on Turbine 15. No further significant archaeological features or small finds were encountered during the evaluation.
- 6.3 The watching brief recorded the corner of a post-medieval farm building (part of Site No.27). No further works are required in this area, though further watching brief will be necessary, as noted above, around Site No.49.



7 BIBLIOGRAPHIC REFERENCES:

AOC Archaeology 2002 *Archaeological and Cultural Heritage Impact Assessment, Drumderg* Unpublished archive report.

AOC Archaeology 2007 *Drumderg Wind Farm; Archaeological Works, Written Scheme of Investigation*, Unpublished archive report.

NPPG 5 *National Planning Policy Guideline NPPG 5. Archaeology and Planning*. January 1994. The Scottish Office Environment Department 1994.

NPPG 18 *National Planning Policy Guideline NPPG 18, Planning and the Historic Environment*. The Scottish Office Development Department 1999.

PAN 42 *Planning Advice Note 42. Archaeology – the Planning Process and Scheduled Ancient Monument Procedures*. January 1994. The Scottish Office Environment Department 1994.

Scottish and Southern Energy Generation Limited 2003/2006 *Drumderg Wind Farm Environmental Statement*.

APPENDIX 1: TRENCH SUMMARIES

**Trench 1**

*Orientation:* North to South  
*Size:* 30 m x 2.0 m  
*Topsoil depth:* 0.15 - 0.23 m  
*Excavation depth:* 0.25 m (max)  
*Subsoil:* Light reddish brown boulder clay  
*Modern features:* None  
*Significant features:* None  
*Artefacts:* None  
*Interpretation:* No significant archaeology present

**Trench 2**

*Orientation:* East to West  
*Size:* 30m x 2.0 m  
*Topsoil depth:* 0.2 - 0.36 m  
*Excavation depth:* 0.38 m (max)  
*Subsoil:* Light red brown boulder clay; boulder-rich; light red grey boulder clay to west (last 10m)  
*Modern features:* None  
*Significant features:* None  
*Artefacts:* None  
*Interpretation:* No significant archaeology present

**Trench 3**

*Orientation:* North to south  
*Size:* 30 m x 2.0 m  
*Topsoil depth:* 0.15 - 0.22 m  
*Excavation depth:* 0.25 m (max)  
*Subsoil:* Light reddish brown boulder clay; light grey boulder clay for north 5m  
*Modern features:* None  
*Significant features:* None  
*Artefacts:* None  
*Interpretation:* No significant archaeology present

**Trench 4**

*Orientation:* East to west  
*Size:* 30 m x 2.0 m  
*Topsoil depth:* 0.16 - 0.22 m  
*Excavation depth:* 0.24 m (max)  
*Subsoil:* Light reddish brown boulder clay  
*Modern features:* None  
*Significant features:* None  
*Artefacts:* None  
*Interpretation:* No significant archaeology present

**Trench 5**

*Orientation:* North to south  
*Size:* 30 m x 2.0 m  
*Topsoil depth:* 0.23 - 0.28 m  
*Excavation depth:* 0.3 m (max)  
*Subsoil:* Light reddish brown boulder clay; extremely boulder rich  
*Modern features:* None  
*Significant features:* None  
*Artefacts:* None  
*Interpretation:* No significant archaeology present

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**Trench 6**

*Orientation:* West to east  
*Size:* 30 m x 2.0 m  
*Topsoil depth:* 0.15 - 0.24 m  
*Excavation depth:* 0.26 m (max)  
*Subsoil:* Light reddish brown boulder clay  
*Modern features:* None  
*Significant features:* None  
*Artefacts:* None  
*Interpretation:* No significant archaeology present

**Trench 7**

*Orientation:* North to south  
*Size:* 30 m x 2.0 m  
*Topsoil depth:* 0.15 - 0.35 m  
*Excavation depth:* 0.37 m (max)  
*Subsoil:* Light reddish brown boulder clay  
*Modern features:* None  
*Significant features:* None  
*Artefacts:* None  
*Interpretation:* No significant archaeology present

**Trench 8**

*Orientation:* West to east  
*Size:* 30 m x 2.0 m  
*Topsoil depth:* 0.26 - 0.30 m  
*Excavation depth:* 0.32 m (max)  
*Subsoil:* Light reddish brown boulder clay; very boulder rich subangular/angular  
*Modern features:* None  
*Significant features:* None  
*Artefacts:* None  
*Interpretation:* No significant archaeology present

**Trench 9**

*Orientation:* South to north  
*Size:* 30 m x 2.0 m  
*Topsoil depth:* 0.18 - 0.19 m  
*Excavation depth:* 0.2 m (max)  
*Subsoil:* Light reddish brown boulder clay  
*Modern features:* None  
*Significant features:* Clearance Cairn [901]  
*Artefacts:* None  
*Interpretation:* Undated clearance feature

**Trench 10**

*Orientation:* East to west  
*Size:* 30 m x 2.0 m  
*Topsoil depth:* 0.18 - 0.23 m  
*Excavation depth:* 0.25 m (max)  
*Subsoil:* Light reddish brown boulder clay; very boulder rich, with much gravel to west  
*Modern features:* None  
*Significant features:* None  
*Artefacts:* None  
*Interpretation:* No significant archaeology present

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**Trench 11**

*Orientation:* North to south  
*Size:* 30 m x 2.0 m  
*Topsoil depth:* 0.22 - 0.31 m  
*Excavation depth:* 0.33 m (max)  
*Subsoil:* Light reddish brown boulder clay  
*Modern features:* None  
*Significant features:* None  
*Artefacts:* None  
*Interpretation:* No significant archaeology present

**Trench 12**

*Orientation:* East to west  
*Size:* 30 m x 2.0 m  
*Topsoil depth:* 0.17 - 0.28 m  
*Excavation depth:* 0.3 m (max)  
*Subsoil:* Light reddish brown boulder clay  
*Modern features:* None  
*Significant features:* None  
*Artefacts:* None  
*Interpretation:* No significant archaeology present

**Trench 13**

*Orientation:* North-west to south-east  
*Size:* 15 m x 2.0 m  
*Topsoil depth:* 0.2 - 0.23 m  
*Excavation depth:* 0.25 m (max)  
*Subsoil:* Light reddish brown boulder clay  
*Modern features:* None  
*Significant features:* None  
*Artefacts:* None  
*Interpretation:* No significant archaeology present

**Trench 14**

*Orientation:* North-west to south-east  
*Size:* 30 m x 2.0 m  
*Topsoil depth:* 0.15 - 0.2 m (basal element is mid grey silty clay)  
*Excavation depth:* 0.22 m (max)  
*Subsoil:* Light reddish brown boulder clay  
*Modern features:* None  
*Significant features:* None  
*Artefacts:* None  
*Interpretation:* No significant archaeology present

**Trench 15**

*Orientation:* North-west to south-east  
*Size:* 30 m x 2.0 m  
*Topsoil depth:* 0.16 - 0.26 m  
*Excavation depth:* 0.28 m (max)  
*Subsoil:* Light reddish brown boulder clay; many medium stones  
*Modern features:* None  
*Significant features:* None  
*Artefacts:* None  
*Interpretation:* No significant archaeology present

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**Trench 16**

*Orientation:* North to South  
*Size:* 30 m x 2.0 m  
*Topsoil depth:* 0.13 - 0.15 m  
*Excavation depth:* 0.17 m (max)  
*Subsoil:* Light reddish brown boulder clay; some light-mid grey clay silt patches  
*Modern features:* None  
*Significant features:* None  
*Artefacts:* None  
*Interpretation:* No significant archaeology present

**Trench 17**

*Orientation:* South-west to north -east  
*Size:* 30 m x 2.0 m  
*Topsoil depth:* 0.1 m (over 0.1 m is mid reddish brown clay silt hillwash)  
*Excavation depth:* 0.22 m (max)  
*Subsoil:* Light reddish brown boulder clay; patches of red grey silty clay, layer of mid red brown clay silt – hillwash  
*Modern features:* None  
*Significant features:* None  
*Artefacts:* None  
*Interpretation:* No significant archaeology present

**Trench 18**

*Orientation:* North-west to south-east  
*Size:* 30 m x 2.0 m  
*Topsoil depth:* 0.05 m (over 0.14 - 0.20 m dark reddish brown clay silt hillwash)  
*Excavation depth:* 0.28 m (max)  
*Subsoil:* Light reddish brown boulder clay, under dark red brown clay silt - hillwash  
*Modern features:* None  
*Significant features:* None  
*Artefacts:* None  
*Interpretation:* No significant archaeology present

**Trench 19**

*Orientation:* North-east to south-west  
*Size:* 30 m x 2.0 m  
*Topsoil depth:* 0.05 m (over 0.11 - 0.18 m dark reddish brown clay silt hillwash)  
*Excavation depth:* 0.25 m (max)  
*Subsoil:* Light reddish brown boulder clay, under dark red brown silt - hillwash  
*Modern features:* None  
*Significant features:* None  
*Artefacts:* None  
*Interpretation:* No significant archaeology present

**Trench 20**

*Orientation:* North-west to south-east  
*Size:* 30 m x 2.0 m  
*Topsoil depth:* 0.05 m (over 0.12 - 0.13 m dark reddish brown clay silt hillwash)  
*Excavation depth:* 0.2 m (max)  
*Subsoil:* Boulder clay (silty), under dark red brown clay silt - hillwash  
*Modern features:* None  
*Significant features:* None  
*Artefacts:* None  
*Interpretation:* No significant archaeology present

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**Trench 21**

*Orientation:* North-west to south-east  
*Size:* 30 m x 2.0 m  
*Topsoil depth:* 0.10 m (over 0.08 - 0.15 m dark reddish brown clay silt hillwash)  
*Excavation depth:* 0.27 m (max)  
*Subsoil:* Silty boulder clay; light-mid red grey patches, plus mid/dark red brown clay silt - hillwash  
*Modern features:* None  
*Significant features:* None  
*Artefacts:* None  
*Interpretation:* No significant archaeology present

**Trench 22**

*Orientation:* North-east to south-west  
*Size:* 15 m x 2.0 m  
*Topsoil depth:* 0.10 m (over 0.10 - 0.15 m mid reddish brown clay silt hillwash)  
*Excavation depth:* 0.27 m (max)  
*Subsoil:* Light red brown boulder clay; slightly silty, patches of light-mid red grey clay silt, under mid red brown clay silt hillwash  
*Modern features:* None  
*Significant features:* None  
*Artefacts:* None  
*Interpretation:* No significant archaeology present

**Trench 23**

*Orientation:* South to north  
*Size:* 30 m x 2.0 m  
*Topsoil depth:* 0.16 - 0.29 m  
*Excavation depth:* 0.30 m (max)  
*Subsoil:* Light reddish brown boulder clay; moderate large boulders  
*Modern features:* None  
*Significant features:* None  
*Artefacts:* None  
*Interpretation:* No significant archaeology present

**Trench 24**

*Orientation:* North-east to south-west  
*Size:* 30 m x 2.0 m  
*Topsoil depth:* 0.2 - 0.28 m  
*Excavation depth:* 0.3 m (max)  
*Subsoil:* Light reddish brown boulder clay  
*Modern features:* None  
*Significant features:* None  
*Artefacts:* None  
*Interpretation:* No significant archaeology present

**Trench 25**

*Orientation:* North-west to south-east  
*Size:* 30 m x 2.0 m  
*Topsoil depth:* 0.10 m (over 0.09 - 0.18 m mid reddish grey clay silt hillwash)  
*Excavation depth:* 0.3 m (max)  
*Subsoil:* Light reddish brown boulder clay; relatively gravel-rich, plus mid red grey clay silt hillwash  
*Modern features:* None  
*Significant features:* None  
*Artefacts:* None  
*Interpretation:* No significant archaeology present

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**Trench 26**

*Orientation:* South west to north-east  
*Size:* 30 m x 2.0 m  
*Topsoil depth:* 0.17 - 0.31 m  
*Excavation depth:* 0.33 m (max)  
*Subsoil:* Light reddish brown boulder clay  
*Modern features:* None  
*Significant features:* None  
*Artefacts:* None  
*Interpretation:* No significant archaeology present

**Trench 27**

*Orientation:* South-east to north-west  
*Size:* 30 m x 2.0 m  
*Topsoil depth:* 0.05 m (over 0.09 - 0.13 m mid grey clay silt hillwash)  
*Excavation depth:* 0.2 m (max)  
*Subsoil:* Light reddish brown boulder clay, centre and NW have boulders/bedrock, under mid/light grey clay silt - hillwash  
*Modern features:* None  
*Significant features:* None  
*Artefacts:* None  
*Interpretation:* No significant archaeology present

**Trench 28**

*Orientation:* South-east to north-west  
*Size:* 30 m x 2.0 m  
*Topsoil depth:* 0.10 m (over 0.10 - 0.20 m mid reddish brown/grey clay silt hillwash)  
*Excavation depth:* 0.32 m (max)  
*Subsoil:* Light reddish brown boulder clay, extremely boulder and gravel rich, plus mid red brown grey clay silt hillwash  
*Modern features:* None  
*Significant features:* None  
*Artefacts:* None  
*Interpretation:* No significant archaeology present

**Trench 29**

*Orientation:* South-west to north-east  
*Size:* 30 m x 2.0 m  
*Topsoil depth:* 0.10 m (over 0.15 - 0.20 m mid reddish brown/grey clay silt hillwash)  
*Excavation depth:* 0.32 m (max)  
*Subsoil:* Light reddish brown boulder clay  
*Modern features:* None  
*Significant features:* Clearance feature  
*Artefacts:* None  
*Interpretation:* Undated

**Trench 30**

*Orientation:* South-west to north-east  
*Size:* 15 m x 2.0 m  
*Topsoil depth:* 0.10 m (over 0.12 - 0.22 m mid reddish brown/grey clay silt hillwash)  
*Excavation depth:* 0.35 m (max)  
*Subsoil:* Light reddish brown boulder clay, gravel rich to NE  
*Modern features:* None  
*Significant features:* None  
*Artefacts:* None  
*Interpretation:* No significant archaeology present



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**Trench 31**

*Orientation:* North-west to south-east  
*Size:* 30m x 2.0 m  
*Topsoil depth:* 0.10 m (over 0.07 - 0.16 m mid reddish brown/grey clay silt hillwash)  
*Excavation depth:* 0.3 m (max)  
*Subsoil:* Light red brown boulder clay; very gravel rich  
*Modern features:* None  
*Significant features:* None  
*Artefacts:* None  
*Interpretation:* No significant archaeology present

**Trench 32**

*Orientation:* South-west to north-east  
*Size:* 15 m x 2.0 m  
*Topsoil depth:* 0.08 m (over 0.12 - 0.15 m mid reddish brown silt hillwash)  
*Excavation depth:* 0.25 m (max)  
*Subsoil:* Light reddish brown boulder clay; very gravel rich especially to SW, plus mid red brown silt hillwash  
*Modern features:* None  
*Significant features:* None  
*Artefacts:* None  
*Interpretation:* No significant archaeology present

**Trench 33**

*Orientation:* West to east  
*Size:* 30 m x 2.0 m  
*Topsoil depth:* 0.10 m (over 0.10 - 0.16 m mid grey clay silt hillwash)  
*Excavation depth:* 0.28 m (max)  
*Subsoil:* Light reddish brown boulder clay  
*Modern features:* None  
*Significant features:* None  
*Artefacts:* None  
*Interpretation:* No significant archaeology present

**Trench 34**

*Orientation:* North to south  
*Size:* 30 m x 2.0 m  
*Topsoil depth:* 0.10 m (over 0.07 - 0.10 m mid grey clay silt hillwash)  
*Excavation depth:* 0.22 m (max)  
*Subsoil:* Light reddish brown boulder clay  
*Modern features:* None  
*Significant features:* None  
*Artefacts:* None  
*Interpretation:* No significant archaeology present

**Trench 35**

*Orientation:* West to east  
*Size:* 30 m x 2.0 m  
*Topsoil depth:* 0.10 m (over 0.07 - 0.14 m mid grey clay silt hillwash)  
*Excavation depth:* 0.25 m (max)  
*Subsoil:* Light reddish brown boulder clay under mid grey clay silt hillwash  
*Modern features:* None  
*Significant features:* None  
*Artefacts:* None  
*Interpretation:* No significant archaeology present

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**Trench 36**

*Orientation:* NNE to SSW  
*Size:* 30 m x 2.0 m  
*Topsoil depth:* 0.1 - 0.45 m (to NNE over up to 0.05 m mid grey clay silt hillwash; to SSW over 0.40 m dark reddish brown peat)  
*Excavation depth:* 0.47 m (max)  
*Subsoil:* Light reddish brown boulder clay to NNE; last 10m to SSW light red brown and light grey brown boulder clay  
*Modern features:* None  
*Significant features:* None  
*Artefacts:* None  
*Interpretation:* No significant archaeology present

**Trench 37**

*Orientation:* North-west to south-east  
*Size:* 30 m x 2.0 m  
*Topsoil depth:* 0.10 m (over up to - 0.10 m mid grey clay silt hillwash)  
*Excavation depth:* 0.22 m (max)  
*Subsoil:* Light reddish brown boulder clay  
*Modern features:* None  
*Significant features:* None  
*Artefacts:* None  
*Interpretation:* No significant archaeology present

**Trench 38**

*Orientation:* North to south  
*Size:* 30 m x 2.0 m  
*Topsoil depth:* 0.10 m (over up to 0.05 m mid grey clay silt hillwash)  
*Excavation depth:* 0.17 m (max)  
*Subsoil:* Light reddish brown boulder clay  
*Modern features:* None  
*Significant features:* None  
*Artefacts:* None  
*Interpretation:* No significant archaeology present

**Trench 39**

*Orientation:* West to east  
*Size:* 30 m x 2.0 m  
*Topsoil depth:* 0.1 m (over up to 0.4 m reddish brown peat in western half of trench; over up to 0.10 m mid grey clay silt hillwash to east)  
*Excavation depth:* 0.25 m (max)  
*Subsoil:* Light reddish brown boulder clay to east; gravel rich light red grey clay to west  
*Modern features:* None  
*Significant features:* None  
*Artefacts:* None  
*Interpretation:* No significant archaeology present

**Trench 40**

*Orientation:* South to north  
*Size:* 30 m x 2.0 m  
*Topsoil depth:* 0.10 m (over 0.05 - 0.10 m mid grey clay silt hillwash)  
*Excavation depth:* 0.22 m (max)  
*Subsoil:* Light reddish brown boulder clay  
*Modern features:* None  
*Significant features:* None  
*Artefacts:* None  
*Interpretation:* No significant archaeology present

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**Trench 41**

*Orientation:* North to south  
*Size:* 30 m x 2.0 m  
*Topsoil depth:* 0.10 m (over up to 0.05 m mid grey clay silt hillwash)  
*Excavation depth:* 0.17 m (max)  
*Subsoil:* Light reddish brown boulder clay  
*Modern features:* None  
*Significant features:* Embankment feature at north end of trench [4101] dark grey brown clay silt with sub-angular stone  
*Artefacts:* None  
*Interpretation:* Undated

**Trench 42**

*Orientation:* North-east to south-west  
*Size:* 30 m x 2.0 m  
*Topsoil depth:* 0.15 - 0.25 m  
*Excavation depth:* 0.25 m (max)  
*Subsoil:* NE 10m mid-light red brown silty boulder clay with moderate small/medium stone. SW and centre 20m mid grey brown slightly silty boulder clay, common gravel  
*Modern features:* None  
*Significant features:* None  
*Artefacts:* None  
*Interpretation:* No significant archaeology present

**Trench 43**

*Orientation:* South-west to north-east  
*Size:* 30 m x 2.0 m  
*Topsoil depth:* 0.1 m (lower element is dark reddish brown silt hillwash)  
*Excavation depth:* 0.12 m (max)  
*Subsoil:* Light reddish brown boulder clay  
*Modern features:* None  
*Significant features:* Clearance Cairn to SW [4301], Clearance Cairn to NE [4302]  
*Artefacts:* None  
*Interpretation:* Undated

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APPENDIX 2: CONTEXT DESCRIPTIONS

No.	Area	Type	Description
901	Tr. 9	Clearance cairn	2.5 m N/S by 3.0 m E/W subcircular dump of subangular and angular stone in a dark red brown clay silt topsoil matrix. 0.5 m deep
4101	Tr. 41	Clearance/Boundary	Linear bank of subangular stones in dark grayish brown silt topsoil matrix. 2.5 m wide and 0.3 m deep. Runs east to west at least 30 m before turning north for 20 m +.
4301	Tr. 43	Clearance cairn	5 m diameter subcircular dump of subangular stone in a mid to dark reddish brown slightly clay silt topsoil matrix. 0.6 m high. Roughly 20 m SW of [4302].
4302	Tr. 43	Clearance cairn	4 m diameter subcircular dump of subangular stone in a mid to dark reddish brown slightly clay silt topsoil matrix. 0.4 m high. Roughly 20 m NE of [4301].
10001	Watching brief	Wall	Base of stone wall of rectilinear East/West-aligned building. Area visible in section was N/S-aligned (i.e. eastern wall), Up to 1.2 m deep and 1.0 m wide. Crude unbonded angular stones (0.1 – 1.0 m). Over natural boulder clay.
10002	Watching brief	Wall/ demolition	Either a disturbed wall remnant or demolition material. Lay to NW of [10001] and apparently formed north wall of structure. W/E-aligned. 1.8 m long W/E and up to 0.5 m deep. Unbonded angular stones (0.1 – 0.4 m). Over [10003]
10003	Watching brief	Dump	0.3 m deep deposit of dark brown clay, under [10002].
10004	Watching brief	Natural	0.3 m deep deposit of mid orangeish brown clay, under [10003].
10005	Watching brief	Natural	0.3 m+ deep deposit of coarse dark brown silty clay, under [10004].
10006	Watching brief	Natural	0.3 m+ deep deposit of coarse dark grey clay and gravel, under [10005].

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APPENDIX 3: PHOTOGRAPHIC REGISTER

Black & White Print and Colour Slide 1

<b>Frame</b>	<b>Detail</b>	<b>From</b>
1-2	Registration Shot	-
3-4	Trench 1, general shot	S
5-6	Trench 2 (working)	E
7-8	Trench 3, general shot	N
9-10	Trench 6, general shot	W
11-12	Trench 9, cairn [901]	W
13-14	Trench 9, cairn [901]	S
15	Wall [10001]	NE
16	Wall [10002]	NE
17	[10001] and [10002]	SE
18	Section showing drainage ditch	S

Black & White Print and Colour Slide 2

<b>Frame</b>	<b>Detail</b>	<b>From</b>
1-2	Registration shot	-
3-4	Wall [10001] in watching brief area	SE
5	Wall [10001] in watching brief area, working	SE
6-7	Site 44, boundary	N
8-9	Site 44, boundary	S
10-11	Trench 38, general shot	SW
12-13	Trench 36, general shot	W
14-15	Trench 39, general shot	NW
16	Trench 36, working shot	W
17-18	Site 44, boundary [4101], pre-excavation	SE
19-20	Working shot, Turbine 15	SE
21-22	SE-facing section of boundary [4101]	SE
23-24	NW-facing section of boundary [4101]	NW
25-26	Trench 27, general shot	W
27-28	Turbine 5 area, during backfill	SW
29-30	Trench 42, general shot	NE
31-32	Trench 14, with Site 30	SE
33-34	Trench 13 and general Turbine 1 area	SW
35-36	SE-facing section of cairn [4301]	SE

Black & White Print and Colour Slide 3

<b>Frame</b>	<b>Detail</b>	<b>From</b>
1-2	Registration shot	-
3-4	SE-facing section of cairn [4301]	SE
5-6	SE-facing section of cairn [4302]	SE

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Digital Photographs (1)

<b>Shot</b>	<b>Detail</b>	<b>From</b>
1	Main area of rig and furrow (Site 49)	W
2	Main area of rig and furrow (Site 49)	SW
3	Oval feature- possible end of rig (Site 49)	SW
4	Accidental	-
5	Possible eroded rig and furrow east of site 49	SW
6	Possible eroded rig and furrow east of site 49	SW
7	Possible eroded rig and furrow east of site 49	NE
8	Possible eroded rig and furrow east of site 49	E
9	Heather cover south of Site 49	NW
10	Heather cover south of Site 49	NE
11	Heather cover south of Site 49	SW
12	Heather cover south of Site 49	SE
13	Compound area cleared of heather	W
14	Compound area cleared of heather	SW
15	View from Turbine 10 looking towards Turbine 9 along cable route	NW
16	View from south-east of Turbine 10 looking towards Turbine 9 along cable route	NW
17	View from Turbine 1 along cable route	NE

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Digital Photographs (2)

<b>Shot</b>	<b>Detail</b>	<b>From</b>
1	SE facing section of trench near earthworks	SE
2	NW facing section; field drain (1)	NW
3	general shot, southern watching brief area	N
4	S-facing section field drain (2)	S
5	S-facing section field drain to north (3)	S
6	Undulation in natural near overhead lines	W
7	Undulation in natural near overhead lines	E
8	W-facing section of cable trench near gate	W
9	W-facing section of cable trench near gate	W
10	NE-facing section of wall [10001]	NE
11	NE-facing section of wall [10001]	NE
12	NE-facing section of wall [10001]	NE
13	NE-facing section of wall [10001]	NE
14	Turbine 5 area	N
15	Tr. 31, general shot	NW
16	Tr. 30, general shot	NE
17	Tr. 29, general shot	NE
18	Tr. 9, cairn [901]	W
19	Tr. 9, cairn [901]	W
20	Turbine 1 area	NE
21	Tr. 15, general shot	SE
22	Tr. 13, general shot	NE
23	Tr. 21, general shot	SE
24	Tr. 14, general shot	SE
25	Site 30, general shot	E
26	General shot of wall remnants [10001 and [10002]	SE
27	Site 44, boundary	N
28	Tr. 38, general shot	SW
29	Tr. 36, showing peat	W
30	Tr. 39, general shot	NW
31	Working shot, Turbine 15 area	S
32	Site 44, boundary [4101], pre-excavation	SE
33	NW-facing section of boundary [4101]	W
34	SE-facing section of cairn [4301]	SE
35	SE-facing section of cairn [4302]	SE
36	Turbine 1 area, after backfilling	S
37	Turbine 1 area, after backfilling	S
38	Site 9 and southern borrow pit, after backfilling	SE
39	Tr. 42, after backfilling	N
40	Turbine 1/southern borrow pit, after backfilling	S



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**APPENDIX 4: SAMPLE REGISTER**

<b>Context No.</b>	<b>Area</b>	<b>Type of Sample</b>	<b>No. of Litres</b>
901	Tr. 9	SBS	10
4101	Tr. 41	SBS	10
4301	Tr. 43	SBS	10
4302	Tr. 43	SBS	10

**APPENDIX 5: DRAWING REGISTER**

<b>Drawing No.</b>	<b>Area</b>	<b>Feature</b>	<b>Scale</b>	<b>Description</b>
1	Tr. 9	901	1:20	Plan of clearance cairn [901]
2	Tr. 9	901	1:10	Section (W-facing) of [901]
3	Watching Brief	10001	1:10	Section (NE-facing) of wall [10001]
4	Watching Brief	10002	1:10	Section (NE-facing) of wall [10002]
5	Watching Brief	10001	1:20	Plan of wall [10001]
6	Tr. 41	4101	1:50	Plan of clearance/boundary bank [4101]
7	Tr. 41	4101	1:10	Section (E-facing) of bank [4301]
8	Tr. 41	4101	1:10	Section (W-facing) of bank [4301]
9	Tr. 43	4301	1:50	Plan of clearance cairn [4301]
10	Tr. 43	4301	1:20	Section (SE-facing) of cairn [4301]
11	Tr. 43	4302	1:50	Plan of clearance cairn [4302]
12	Tr. 43	4302	1:20	Section (SE-facing) of cairn [4302]

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APPENDIX 6: DISCOVERY AND EXCAVATION IN SCOTLAND REPORT

<b>LOCAL AUTHORITY:</b>	Perth and Kinross
<b>PROJECT TITLE/SITE NAME:</b>	Drumderg Windfarm; Evaluation, Topographical survey and Watching brief
<b>PROJECT CODE:</b>	AOC 20343
<b>PARISH:</b>	Alyth
<b>NAME OF CONTRIBUTOR:</b>	Mike Roy
<b>NAME OF ORGANISATION:</b>	AOC Archaeology Group
<b>TYPE(S) OF PROJECT:</b>	Walkover and topographical survey, evaluation and watching brief
<b>NMRS NO(S):</b>	NO15SE 46; NO15NE 5
<b>SITE/MONUMENT TYPE(S):</b>	Clearance cairns, post-medieval rectilinear building and cultivation remains
<b>SIGNIFICANT FINDS:</b>	None
<b>NGR</b>	NO 18000 55000
<b>START DATE</b>	18 <sup>th</sup> December 2006
<b>END DATE</b>	12 <sup>th</sup> April 2007
<b>PREVIOUS WORK</b>	None
<b>MAIN (NARRATIVE) DESCRIPTION:</b>	An archaeological evaluation was carried out on the area of a proposed windfarm development lying to the north of Alyth at Drumderg Hill, Perthshire. A walkover survey was undertaken of the proposed development area, which was followed by topographical survey of an area of cultivation remains and evaluation of the areas around three proposed turbine sites, a borrow pit, tracks and clearance features. In total, forty-three trial trenches totalling 2,460 m <sup>2</sup> were excavated over c. 4.9 ha of hill pastureland. No artefacts were identified within the clearance structures, which may date to either the late prehistoric or medieval/post-medieval periods. A watching brief was also undertaken on the excavation of a cable trench to the south of the windfarm, which exposed the remains of a wall, part of a post-medieval rectilinear building.
<b>PROPOSED FUTURE WORK:</b>	Further watching brief and marking off known archaeological sites
<b>CAPTION(S) FOR ILLUSTRS:</b>	None
<b>SPONSOR OR FUNDING BODY:</b>	Scottish and Southern Energy
<b>ADDRESS OF MAIN CONTRIBUTOR:</b>	Edgefield Road Industrial Estate, Edgefield road, Loanhead, Midlothian, EH20 9SY
<b>EMAIL ADDRESS:</b>	<a href="mailto:miker@aocscot.co.uk">miker@aocscot.co.uk</a>
<b>ARCHIVE LOCATION</b>	Archive to be deposited in NMRS.

## APPENDIX 7: ARCHAEOLOGICAL SITE GAZETTEER

(Sites and monuments known within 1 km of area of wind turbines)

### Site No: 1

Name: Small cairns  
Type of site: Cairns  
NMRS no: NO15NE 38  
Grid ref: NO 1785 5633.  
Status: None  
Description: Situated on the northernmost flank of Drumderg, 1.5km ESE of Corb steading, there is a group of 6 small cairns measuring up to 4m in diameter; in addition there is a short length of stony bank immediately to the N of the group. Visited by RCAHMS (JRS) 23 March 1988. RCAHMS 1990

### Site No: 2

Name: Small cairns  
Type of site: Cairns  
NMRS no: NO15NE 36  
Grid ref: NO 1737 5507 to 1731 5517  
Status: None  
Description: Situated on the W flank of Drumderg 1.95km SE of Corb steading, there is a group of at least 12 small cairns which measure up to 4m in diameter (NO 1737 5507 - 1731 5517). Visited by RCAHMS (JRS) 23 March 1988. RCAHMS 1990

### Site No: 3

Name: Small cairns  
Type of site: Cairns  
NMRS no: NO15SE 69  
Grid ref: NO 1747 5494  
Status: None  
Description: Situated on the W flank of Drumderg 1.2km N of Rannagulzion steading, there is a cairn which measures 4m in diameter; a short distance to the N there are a further two cairns. Visited by RCAHMS (JRS) 23 March 1988. RCAHMS 1990.

### Site No: 4

Name: Cairn  
Type of site: Cairn  
NMRS no: NO15SE 86  
Grid ref: NO 1756 5469  
Status: None  
Description: The remains of a turf and heather-covered cairn, measuring about 6.5m in diameter and 0.6m in height, are situated on a low natural rise on the SW flank of Drumderg, 1km N of Rannagulzion farmhouse. Visited by RCAHMS (JRS) 23 November 1988. RCAHMS 1990.

### Site No: 5

Name: Site of battle  
Type of site: Site of battle  
NMRS no: NO15NE 4  
Grid ref: NO 178 550  
Status: None  
Description: Drumdearg (NO 178 550) - traditionally the site of a battle commenced at the group of cairns on the shoulder of Drumdearg and continued to Kingseat. Possible the battle of Drum-derg Blathmig of 12 August 729 AD in which ex-king Drust was defeated and slain by Angus MacFergus who became king of the Picts. J Meikle 1925. No further information. Visited by OS (DWR) 10 March 1971.

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**Site No: 6**

Name: Enclosure, building  
Type of site: Enclosure, building: Upstanding remains  
NMRS no: NO15 NE 6  
Grid ref: NO 1756 5747  
Status: None  
Description: On a low ridge at 1,300' O D is an oval stone-walled hut, distorted by modern clearance. It measures 11.5m N-S by 12.8m and the entrance appears to be in the SE. In the vicinity are field walls, one of which abuts on to the NW side of the hut. Visited by OS (DWR) 15 March 1971. This enclosure (shown on Thorneycroft's map as a hut circle) measures 12.0m E-W by 11.0m within a wall only 0.8m thick. It tends to be slightly irregular rather than being a true smooth oval, and the wall is relatively free from peat growth. It would seem that this is a late enclosure, possibly a sheep fold, and contemporary with the scant footings of a rectangular building to the SW with which the walls noted by OS field investigator in 1971 may also be associated. (W Thorneycroft 1933). Visited by OS (AA) 15 January 1974. Situated on a low, heather-covered knoll on the W side of the summit area of Badkeirie, and some 1.25km NE of Corb steading, there are the remains of a small enclosure which has previously been mistaken for a hut-circle (Thorneycroft 1933). It measures 13m NW-SE by 12m over low stony banks about 1m thick and up to 0.5m high, and a narrow, poorly-defined entrance is situated on the S side. A low rubble bank abuts the NW side of the enclosure and about 150m to the SW there are the footings of a small rectangular building measuring about 5.6m NW-SE by about 3.6m over heather-covered wall-footings. Visited by RCAHMS (JRS) July 1987. RCAHMS 1990.

**Site No: 7**

Name: Building, Corb  
Type of site: Building: upstanding remains  
NMRS no: NO15NE 37  
Grid ref: NO 1808 5644  
Status: None  
Description: The remains of a two-compartment building, measuring about 10m from ENE to WSW by 4.5m over low banks, is situated on a low ridge 130m W of the confluence of the Alyth Burn and the Thief's Burn. An enclosure measuring about 18m by 15m is attached to the N side of the building. Visited by RCAHMS (SH) 23 March 1988. RCAHMS 1990.

**Site No: 8**

Name: Thief's Burn, Pitcarmick  
Type of site: Hut-Circles; Field-System  
NMRS no: NO15NE 17  
Grid ref: NO 185 562 (centred on)  
Status: None  
Description: Situated on the N side of the Alyth Burn,(c.370m OD), a short distance below its junction with the Thief's Burn, there is a dispersed group of four circular stone-walled huts (A-D), with a few ruinous walls and stone clearance heaps, from contemporary cultivation in the immediate vicinity. 'A' is probably a multi-period Dalrulzion type house, but obscured by deep heather. It measures 10.0m in internal diameter and 15.5m between the centres of the outer wall, and has the entrance in the S. The outer wall in the NW has been destroyed by a later rectangular building (15.0m x 5.0m) which is now overgrown and scarcely visible. About 5.0m outside the SW arc is a ruinous circle c.3.5m in diameter, of uncertain period and purpose. Traces of a rectangular building similar to the one already described lie 15m outside the SE arc.

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'B' is a well-preserved "Dalrulzion" hut, measuring 10.0m internally and 17.0m between the outer wall centres. There is one entrance in the S, and possibly another entrance also.

'C' is a "Dalrulzion" hut, 10.0m internally and 15.5m between outer wall centres. Again there are two possible external entrances to the wall chamber, one definitely recorded in the S.

'D', a single-walled hut, is 8.0m in diameter between the centres of a wall spread to 2.5m. It features a possible cobbled fore-court.

The nature of an oval enclosure between A and B is uncertain. There are structures of field-banks between A, B and the Alyth Burn, and extending from C to take in a knoll to the NW. A cairn to the NE of C may be of relatively recent date. Visited by RCAHMS (JBS) 1983

**Site No: 9**

Name: Hut-Circles; Field-System, Drumderg

Type of site: Hut-Circles; Field-System

NMRS no: NO15NE 5

Grid ref: centred at NO 185 551.

Status: None

Description: A settlement of six, possibly seven hut-circles, cairns, enclosures and remains of cultivation ridges and lynchets are situated on the E flank of Drumderg at a height of about 380m OD. The hut-circles are described from SW to NE.

1. NO 1848 5508 (OS 'E') This hut-circle lies at the SW end of a group of three or four hut-circles and is essentially a single-walled structure which measures 7.7m in diameter within a stone wall 1.6m thick and 0.3m high. The interior is slightly scooped into the natural slope and the inner face of intermittent large boulders include some which form a revetment on the uphill edge. There is very little outer facing present and the poorly-defined entrance is situated on the SE, A low stony bank springs from the outer face of the wall on the SW and runs concentrically close to the outer edge to a point on the NW where it changes direction towards the W. This bank forms an enclosure to the NW and N of the line of hut-circles.

2. NO 1849 5508 Situated between (1) and (3) there is a stony ring measuring about 5m in diameter; it may indicate the position of a small hut-circle.

3. NO 1850 5508 (OS 'D') This single-walled hut-circle measures 6m in diameter within a stony bank 1.6m thick and 0.3m high. The inner edge of the wall is defined on the NW by an intermittent line of boulders which front a scarp produced by the scooping of the interior. The outer face of the wall is virtually non-existent except for several facing-stones immediately W of the entrance which is on the ESE.

4. NO 1851 5510 (OS 'C') The NE member of the line is double-walled and measures 9.3m in diameter within a stone wall reduced to a bank 1.9m thick and 0.6m high. The interior has been levelled into the natural slope and on the NNW the scarp is lined with a row of boulders. Overall the hut-circle measures 17.2m in diameter over a bank measuring up to 1.4m in thickness and 0.2m in height; on the NW the outer wall takes the form of a stone-faced revetment rather than a true wall. The entrance is on the SE and is approximately 1.9m wide; it is outwardly splayed and on the E side of the entrance the inner and outer walls have fused to form one solid mass.

5. NO 1854 5519 (OS 'A') At the N edge of the site there is a group of three hut-circles the southerly of which is single-walled and measures 10.8m in diameter within a wall 1.4m thick and averaging 0.3-0.4m in height. This wall has a very well preserved inner face of large boulders measuring up to 0.7m high. The composition of the wall appears to simply be loose rubble piled up against the rear of the inner face. The ill-defined entrance is on the SE. Situated immediately S of the hut-circle there is a poorly defined rough rectangular structure measuring about 5m E-W by 4m overall.

6. NO 1855 5521 (OS 'B') This double-walled hut-circle measures 6.8m in diameter within an inner wall reduced to a bank 1.5m thick and 0.4m high. The inner face of this wall comprises large boulders and is best-preserved to the W of the entrance. It is situated on the S side and measures 1.3m in width splaying out to a maximum width of about 2.6m. The interior area is marked by a shallow ring-ditch which is

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concentric to, and just within the line of, the inner face; it measures 1.2-1.7m wide. Overall the hut-circle measures 15.2m in diameter over an outer wall measuring up to 1.2m in thickness and 0.2m in height; this outer wall contrasts markedly with the more substantial inner wall with which it fuses 3m to either side of the entrance. On the E side there are slight traces of a drainage gully about 0.4m wide but not more than 0.05m deep; it runs from a point on the N arc to a point on the E arc from where it then runs off down the slope away from the hut-circle.

7. NO 1850 5521 This structure sits on a platform on a SE-facing slope and measures 7.4m in diameter within a rear scarp and a bank which is best preserved on the SE where it measures 1.7m in thickness and 0.3m in height. On the W and E sides there is no actual bank but slight scarps carry the wall lines around on to the rear scarp. The entrance is probably marked by a shallow depression in the bank on the S.

The hut-circles at Drumderg are probably roughly contemporary with the field-system in which they lie. Direct relationships between the hut-circles and the banks can be illustrated where the walls of both the N and S enclosures join on to hut-circle walls.

The relationship between the wall, which curves around the SW side of (1) can only be seen as contemporary; had the wall been later it would surely have ridden up over the hut-circle wall, and had it been earlier it would probably have been overlain. The suggestion that both the hut-circle and the wall were in use at the same time does not exclude the possibility that one may have been built at an earlier date.

Within the S enclosure there are traces of strip-fields, cultivation-ridges and -furrows and at least one lynchet. The lynchet is probably contemporary with the main use of the site, as the N enclosure appears to be full of the remains of low lynchets. The strip-fields may also be roughly contemporary with the hut-circles and represent simply a differing method of cultivation. The ridge-and-furrow cultivation may be late but there is no real evidence of this; the clearance cairns probably originally began to be formed when occupation of the site began but they may have remained in use through the history of the site. Visited by RCAHMS (JRS) 16 July 1987. RCAHMS 1990.

During the AOC walkover survey of December 2006 an earth and stone field boundary bank, part of Site 9, was visible east of the proposed location of Turbine 15. This was part of an enclosure system. The visible extent of this boundary ran over 30 m NNW/SSE from NO 18431 55103 to NO 18438 5508, then turning towards the ESE for c. 20 m to NO 18456 55076. It was 1.5 to 2.0 m wide.

**Site No: 10**

Name: Cup and ring-markings  
Type of site: Carved rock  
NMRS no: NO15SE 27  
Grid ref: NO 1852 5497  
Status: None  
Description: Situated on the SE flank of Drumderg, this roughly kite-shaped boulder (1.9m NW-SE by 1.7m) bears at least twenty-eight cup marks on its sharply-sloping SW-face. Two of the cups are surrounded by triple rings (or parts of) and there is a double or oval cup (100mm by 70mm) which is partially encircled by four rings; in addition four or five cups have single rings. Visited by RCAHMS (JRS) 3 March 1988. RCAHMS 1990.

**Site No: 11**

Name: Craighead  
Type of site: Hut-Circles; Field-Systems; Cup-Markings  
NMRS no: NO15SE 23  
Grid ref: NO 195 549  
Status: SAM  
Description: Settlement of six circular stone-walled huts (A - F), two enclosures (G, H), a contemporary field-system, and a cup marked boulder.



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'A' is 9.0m in diameter between the centres of a wall of bare stones, spread to 2.5m, with an ill-defined entrance in the SE.

'B' is 13.0m in diameter between the centres of a wall of indeterminate width. The entrance is in the SSE. Attached to the N arc is a small oval annexe measuring 7.0m by 5.5m.

'C' and 'D' are an unusual "Dalrulzian" complex (similar to huts 'C' and 'D' of NO 15 SW 8). 'C' measures 10.0m internally and 'D' measures 8.0m internally. Both occur within a common outer wall, and their entrances are in the SSE. Outside the SE arc of hut 'D' at NO 1956 5498, is a naturally-placed boulder bearing four cup marks on its horizontal surface.

'E' is 7.0m in diameter between the centres of a wall of indeterminate width. The entrance is in the SE.

'F' is a "Dalrulzian" hut measuring 8.5m internally, and 14.5m between the centres of the outer wall. The entrance, in the SSE, opens into a sub-circular "porch" measuring 5.0m by 4.5m, to which there is no external entrance evident. Abutting on to the NE side of the "porch" is another small circular annexe measuring 3.0m in diameter, with no obvious entrance (see NO 15 NW 7). The enclosures 'G' and 'H' are dissimilar. 'G' measures 7.0m in diameter within the centres of a strong rubble wall spread to 3.0m. It does not appear to be a hut circle. 'H' measures c. 16.0m E-W by 14.0m N-S and it is connected to hut 'E' by a curving ruinous wall.

The field-system is marked by stone clearance heaps, occasional lynchets, and ruinous walls, one of which pursues a sinuous course immediately in front of huts A - D. Surveyed at 1:10,000. Visited by OS (IMT) 20 March 1974

On the E flank of Hill of Craighead and bisected by a forestry track, there is a group of hut-circles and parts of a field-system. The houses are disposed in two tiers (A-E and F-H) which lie roughly parallel to the contour. The field-banks radiate out from the houses and extend for considerable distances to the W, N and E. On the SE several short stretches of bank are visible intermittently through the peat cover which probably masks a large part of the field-system.

Group A-E This group contains five houses, three of which (A,B,C) are simple hut-circles while D and E form an unusual pair of Dalrulzian type houses sharing a common outer wall. Hut-circle B is overlain by C and D/E, and its wall-line has been encroached on by A. A stretch of walling, which forms an enclosure in front of the houses, springs from the outer wall of D/E, but its chronological relationship to the D/E is unclear. Houses A, D and E each have a single aumbrey in the inner wall-face. On the upper surface of a rock outcrop on the line of the enclosure wall there are four shallow cupmarks.

Group G-H These three structures lie a short distance up slope from the first group and comprise:

F, a circular enclosure, probably not a hut-circle; G, a hut-circle cut by the forestry track; and H, a Dalrulzian house. Adjacent to F and H there are structures of more recent date. Visited by RCAHMS (JBS) April (1983).

A forestry road had passed through a settlement of Dalrulzian-type and single walled houses, destroying half of a small, roughly circular house. The remaining half was investigated in August. The house was c.7.0m in diameter crest to crest and survived as a low rubble bank c.2.5m wide and c.0.3m high. Several small rounded boulders may represent a foundation core and a short line of large flat stones may be the remains of the inner wall-facing which has collapsed inwards. A short length of shallow ditch c.0.7m wide and c.0.2m deep and filled with upright flat stones may be the remains of a foundation trench for the wall. One stone-packed posthole c.0.2m in diameter and c.0.2m deep was found within the house. About 1.0m to the SE of this lay a shallow pit c.0.5m long, c.0.4m wide and c.0.15m deep. To the N of the house a large number of sherds of coarse pottery were found. They are probably all from one vessel. J Rideout 1983; RCAHMS 1990. The surviving half of a small round-house, damaged by a forestry road, at Craighead, Alyth, was investigated. Pottery from the site indicated a later Bronze Age or Iron Age date. J S Rideout 1995.



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**Site No: 12**

Name: Hill of Craighead  
Type of site: Hut-Circles; Field-System  
NMRS no: NO15SE 26  
Grid ref: NO 193 544 (centred)  
Status: None  
Description: Settlement of three circular stone-walled huts ('A'-'C'), and a contemporary field system poorly defined by ruinous stone walls, and a few lynchets and stone clearance heaps.  
'A', measures c. 10.5m in diameter between the centre of a mutilated wall robbed of most of its stone. The entrance is not evident. There are vague suggestions of an outer wall indicating this this may have been a "Dalrulzian" hut with an outer diameter of 16.0m.  
'B', is a "Dalrulzian" hut measuring 8.5m internally and 15.0m between the centres of the outer wall. The ill-defined entrance is in the SSE. 'C', is a single walled hut measuring 8.7m in diameter between the centres of a wall spread to 2.5m. The entrance is in the SSW. Surveyed at 1/10,000. Visited by OS (AA) 27 March 1974.  
Situated on the fairly steep S-facing slope of the Hill of Craighead about 400m NW of Craighead steading, there are at least three hut-circles which are surrounded (mainly on the SW and NW) by a field-system consisting of several linear stone banks and a few small cairns. The N and E edges of the field-system appears to have been destroyed by later cultivation.  
1. NO 1930 5444 (OS 'C') The W hut-circle in the group measures 6-6.5m in diameter within a stony bank on the S side and a stony scarp on the N. The bank measures up to 2.1m in thickness and 0.4m in height, and the scarp is up to 0.5m in height. The entrance is situated on the SSW and is now blocked, and field-banks join the hut-circle on the SW and SE.  
2. NO 1933 5445 (OS 'B') The bank which joins on to the SE side of (1) runs uphill for a short distance before joining on to the SW side of a double-walled hut-circle. It measures 7.3m in diameter within a low rubble bank and 14.5m N-S by 16.4m over the outer bank. On the W side the outer wall is a true bank but on the N and NE sides it forms a scarp; the distance between the inner and outer walls varies from 1.6m on the W to 3.7m on the E. The inner wall is partially composed of several large boulders whilst the outer comprises mainly of smaller boulders; the splayed entrance is situated on the S side. From the E side of the entrance an outer bank runs down-slope and loops to the SW for a few metres before petering out.  
3. NO 1938 5440 (OS 'A') About 60m SE of (2) there is a double-walled hut-circle represented by the robber trenches of the inner and outer wall-faces. It measures 9.5m internally and 17.2m overall. The position of the entrance is not apparent and joining on to the SW side of the hut-circle is a field-bank which runs from (2). About 10m to the WSW there is a levelled area measuring about 8.5m in diameter; it may be the stance of a fourth hut-circle. Visited by RCAHMS (JRS) 2 March 1987. RCAHMS 1990.

**Site No: 13**

Name: Hut-Circle; Enclosure; Field-System, Drumderg  
Type of site: Hut-Circle; Enclosure; Field-System  
NMRS no: NO15SE 19  
Grid ref: NO 1840 5459  
Status: None  
Description: On the SE flank of Drumderg 1300m NNW of Smyrna there are the remains of a hut-circle situated within a probably contemporary field-system. The hut-circle measures 8.8m in diameter within a wall measuring up to 1.5m in thickness and 0.3m in height. The structure is open on the S and SE where there is a 6m wide gap and this may be the position of the original entrance. A stony bank aligned NNE-SSW, and appearing to be at least in part a lynchet, joins on to the NNE side of the hut-circle. About 80m SSW of the hut-circle is a semi-circular length of bank measuring up to 3.3m in thickness and 0.4m in height. The resulting arc is 13.5m in internal diameter and a gap of c14m has been left on the SW and SE arcs. The interior of the enclosure has

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not been levelled into the slope and is probably not the remains of a hut-circle. Surrounding the hut-circle and enclosure are a series of stony banks and small cairns; the area covered by the field-system is not large and only one definable 'field' can be seen immediately W of the small semi-circular enclosure. Visited by RCAHMS (JRS) 29 July 1987. RCAHMS 1990.

**Site No: 14**

Name: Cup-marked rock, Drumderg  
Type of site: Cup-marked rock  
NMRS no: NO15SE 14  
Grid ref: NO 1840 5450  
Status: None  
Description: A cup-marked stone was found by Thorneycroft between 1930 and 1932. It is located about 70 m S of the hut-circle within a field system (Site No. 13) on the SE flank of Drumderg. The cup-marks are carved into a section of exposed bedrock measuring 1.3m E-W by 1.35m and 0.65m high. On the W face there are at least 29 cup-marks measuring between 35mm and 80mm in diameter and up to 30mm in depth. In addition there are at least 8 'double' cup-marks measuring up to 140mm long by 70mm wide and up to 22mm in depth. Visited by RCAHMS (JRS) 29 June 1987. RCAHMS 1990.

**Site No: 15**

Name: Small cairns and rig, Drumderg  
Type of site: Small cairns, rig  
NMRS no: NO15SE 71  
Grid ref: NO 1866 5404 to 1886 5417  
Status: None  
Description: A group of at least 37 small cairns (measuring up to 5m in diameter) is situated on one of the descending ridges on the SE flank of Drumderg (NO 1866 5404 - NO 1886 5417). At the W end of the group there is a plot of narrow rig cultivation which measures at least 80m E-W by about 60m transversely and comprises a series of parallel ridges which measure 1.2m apart (measured from crest to crest). Visited by RCAHMS (JRS) 23 March 1988. RCAHMS 1990.

**Site No: 16**

Name: Small cairns, Drumderg  
Type of site: Small cairns  
NMRS no: NO15SE 70  
Grid ref: NO 1878 5394 to 1889 5388 (with other pairs situated at NO 1884 5372 and NO 1916 5381).  
Status: None  
Description: Situated on a series of ridges which descend from the SE shoulder of Drumderg, there is a group of at least eleven small cairns at NO 1884 5390, at least two cairns at NO 1889 5372 and at least two cairns at NO 1916 5381. Visited by RCAHMS (JRS) 23 March 1988. RCAHMS 1990.

**Site No: 17**

Name: Rannagulzion  
Type of site: Hut-Circles; Field-System  
NMRS no: NO15SE 2  
Grid ref: NO 178 540 to 182 541  
Status: None  
Description: Two adjacent groups of cairns and circular enclosures are situated near Rannagulzion Farm, Drumderg, containing, according to Thorneycroft, 2 double concentric rings, 1 double tangential and 7 single (see also NO 15 SE 17, 18, 19). Stewart lists several small cairns 6' - 8' across, a large double-walled circular hut foundation with S

entrance, a stone and earth mound, and hut foundations. She also observed that some enclosures show expanded ends in an extended entrance passage, a feature which occurs among many circular enclosures in Sutherland. W Thomeycroft 1933; M E C Stewart 1964.

Situated on the S face of Drumderg and centred 700m NE of Rannagulzion farmhouse at NO 181 542, there is an extensive field system marked by stone clearance heaps, lynchets and ruinous walls, which is partly overlaid in the S by walls and cultivation contemporary with several late rectangular buildings. The field-system comprises a random scatter of clearance heaps and several stony banks. One of these banks respects the S and SW of (2) and is probably contemporary; few of the cairns lie N of this wall which runs along the 360m OD contour before petering out some distance W of (2). The cairns spread down to where the ground begins to become poorly drained and broken, just below the level of several later buildings and enclosures. Some of the cairns and banks may be fairly late in date as there are traces of ridge-and-furrow cultivation within the S half of the area.

1. NO 1830 5420 (OS 'A') This hut-circle measures 6.5m in diameter within a stony bank measuring up to 1.5m in thickness and 0.4m in height. The inner and outer faces are both defined by non-contiguous rows of boulders and an entrance gap (0.9m wide) is situated on the SSE.

2. Attached to the NE side of (1) there is a small circular structure measuring 2.9m in diameter within a stone wall measuring up to 1.1m thick and 0.2m high; the position of the entrance is not apparent.

3. NO 1828 5418 (OS 'B') This double-walled hut-circle is situated about 15m WSW of (1), and measures 9m in diameter within a wall reduced to a bank 1.5m thick and 0.5m high. The interior has been levelled into the natural slope and the rear is defined by a boulder-lined scarp. Behind the scarp is a narrow terrace at the rear of which is another boulder-lined scarp marking the inner edge of the outer wall. Overall the hut-circle measures 17.5m in diameter over a bank 1.8m thick and 0.3m high; the wall thickness on either side of the entrance (on the ESE and 0.7m wide) increases to 3.9m.

4. NO 1829 5402 Situated about 150m S of (2), and just below the break of the main slope, there are the remains of a hut-circle measuring 10.3m in diameter within a heather-covered bank which is up to 2.5m thick and 0.5m high. The interior has been levelled into the natural slope and only a few possible facing-stones are visible. The entrance is on the SSE and on the S half the bank is uneven and poorly-preserved.

5. NO 1787 5405 (OS 'B') Situated on a narrow terrace on the W side of the field-system about 400m W of (4), there are the remains of a hut-circle measuring 10.2m in diameter within a low stony bank 1.6m thick and 0.2m in height. Several outer facing-stones are visible on the E side and a poorly-defined entrance gap is situated on the SW.

6. NO 1787 5414 Situated about 100m N of (5) there are the remains of a robbed double-walled hut-circle the interior of which has been levelled into the natural slope. The hut-circle survives from the E side of the entrance (on the SE) around the N arc to a point on the W; both the inner and outer walls on the SW have probably been robbed to build a substantial field-bank which passes a few metres to the S. Internally the hut-circle measures 8.7m in diameter with the inner wall measuring up to 1.1m thick and 0.2m high; the inner face on the N takes the form of a low revetted scarp. Overall the hut-circle appears to measure about 16m in diameter from NW to SE over a wall about 1m thick and 0.3m high. Visited by RCAHMS (JRS) 29 June 1987. RCAHMS 1990.

During AOC's walkover survey of December 2006 hut circle 17.5 was seen, measuring approximately 0.7 m high, 9 m N/S, 7 m E/W. It was largely heather-covered and its centre lay at NO 17866 54050.

A number of probable clearance cairns were identified by AOC during the walkover of December 2006. These included:

Clearance cairn (6 m E/W by 5 m N/S) at NO 17828 54094;

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Circular rise, natural or clearance cairn (c.0.3m high) at NO 17834 54103;

Small circular rise/possible cairn (c. 0.3 m high) at NO 17824 54113;

Possible clearance cairn (c. 5 m diameter) at NO 17818 54067;

Clearance cairn or platform (5 m diameter) at NO 17825 54071;

Clearance cairn, 15 m SE of above cairn, 0.8 m high, 6 m diameter (c. NO 17830 54060);

Clearance cairn, c. 20 m north of above cairn, 6m diameter, 0.8 m high (c. NO 17830 54080);

Possible clearance cairn (8 m diameter), heather covered, at NO 17738 54054;

Raised stony area (4 m wide and 8 m long; 0.5m high), possible clearance cairn/enclosure, aligned NNW/SSE, at NO 17861 54075 to 17860 54070;

Clearance cairn, heather covered, (7 m diameter, c. 1 m high) at NO 17870 54074;

Clearance cairn, heather-covered (up to 1.0 m high; 6 m diameter) at NO 17882 54086;

A linear clearance/boundary bank system, forming an enclosure was identified running from NO 17791 54206 south-east, then south to NO 17845 54117, then west to NO 17841 54109. There was a possible internal bank running SE/NW from NO 17853 54112.

**Site No: 18**

Name: Rannagulzion  
Type of site: Cairn (possible)  
NMRS no: NO15SE 20  
Grid ref: NO 1829 5415  
Status: None  
Description: On a slope is a heather-covered stony mound 7.0m in diameter and 0.7m high. It is somewhat larger than the surrounding clearance heaps (see NO 15 SE 2), and may be a cairn, though there is no other supporting evidence. Visited by OS (AA) 26 March 1974.  
Situated on a SE-facing slope about 25m SSE of hut-circle 5 of NO 15 SE 2, there is a grass and heather-covered mound which is probably the remains of a cairn. It measures up to 7.5m in diameter by 0.5m in height and has been disturbed at its centre and W edge. Visited by RCAHMS (JRS) 29 June 1987.

**Site No: 19**

Name: Rannagulzion  
Type of site: Enclosure  
NMRS no: NO15SE 83  
Grid ref: NO 1791 5415  
Status: None  
Description: This structure was formerly identified as a hut-circle (NO 15 SE 2 'C') but it is clearly a later enclosure which measures 6.3m E-W by 5.3m within a bank 0.9m thick and 0.2m high. There is a distinct angle in the NW corner and a probable entrance gap on the SW. Visited by RCAHMS (JRS) 29 June 1987.

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**Site No: 20**

Name: Rannagulzion  
Type of site: Buildings  
NMRS no: NO15SE 84  
Grid ref: NO 1831 5421  
Status: None  
Description: The remains of two small buildings lie close to a hut-circle (NO 15 SE 2.1). The first, situated 8m NE of the hut-circle, measures about 4.2m NNE-SSW by 3.1m over heather-covered rubble wall-footings 0.9m thick and 0.3m high. On the E and S sides the wall appears to comprise just a single row of boulders; there is no indication of an entrance and the E side appears to abut a small cairn. The second structure lies 8m NNE of the hut-circle and measures 3.6m ENE-WSW by 2.9m over heather-covered wall-footings 0.8m thick and 0.5m in height; a possible entrance gap is situated on the NNW. Visited by RCAHMS (JRS) 29 June 1987. RCAHMS 1990.

**Site No: 21**

Name: Rannagulzion  
Type of site: Building, enclosure  
NMRS no: NO15SE 64  
Grid ref: NO 1795 5400  
Status: None  
Description: Situated on the S flank of Drumderg, on a relatively flat area immediately S of the break of slope, and about 500m NE of Rannagulzion farmhouse, there is a building which measures 10.4m WNW-ESE by 5m over turf-covered wall-footings 0.3m high and spread up to 2m thick. The building appears to overlie a possible hut-circle; the S arc (including a possible entrance) lies immediately S of the rectangular building and measures about 8.8m in internal diameter. The N arc of the hut-circle would lie under the building and the N side of the building does, in fact, appear to be more substantial in build. The building lies in the NW corner of a roughly square enclosure which measures 17.5m E-W by 19.5m within a turf-covered bank. Visited by RCAHMS (JRS) 15 March 1988. RCAHMS 1990.

**Site No: 22**

Name: Rannagulzion  
Type of site: Building, enclosure  
NMRS no: NO15SE 63  
Grid ref: NO 1815 5397  
Status: None  
Description: Situated on the S flank of Drumderg (on fairly level ground at the break of slope) 680m ENE of Rannagulzion farmhouse there is a three-compartmented rectangular building which measures 15.2m WNW-ESE by about 4.5m over rubble wall-footings which are up to 0.8m in thickness and 0.5m in height. On the S side there is an enclosure which measures 14m ESE-WNW by 5.9m within a turf-covered bank. Visited by RCAHMS (JRS) 15 March 1988. RCAHMS 1990.

**Site No: 23**

Name: Rannagulzion  
Type of site: Building  
NMRS no: NO15SE 68  
Grid ref: NO 1826 5402  
Status: None  
Description: On flat ground at the SE foot of Drumderg about 800m NE of Rannagulzion farmhouse, there are the remains of a rectangular building which measures 8.1m WNW-ESE by 4.6m over rubble wall-footings 0.8m thick and 0.5m high. Visited by RCAHMS (JRS) 15 March 1988. RCAHMS 1990.

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**Site No: 24**

Name: Smyrna  
Type of site: Farmstead; Kiln; Head-Dyke  
NMRS no: NO15SE 48  
Grid ref: NO 1852 5367  
Status: None  
Description: Situated on a terrace above and 430m NW of Smyrna cottage, there are the remains of a farmstead which comprises two buildings, enclosures and a kiln. The N building measures 12.8m ESE-WNW by 4.2m over walls reduced to footings 0.8m thick and 0.4m high. The building has two compartments and at the W end there is an outshot which measures 4.3m ESE-WNW by 4.2m overall. A southern range of buildings measures 34.7m ESE-WNW by 4.3m over walls 0.8m thick and 0.5m high. This range of buildings lies on the N side of an enclosure and the remains of a small kiln are situated in the W bank of the stream which passes the W side of the enclosure. Visited by RCAHMS (JRS) 8 December 1987; J Meikle 1925; J Stobie 1783; J Ainslie 1794; RCAHMS 1990.  
Two unroofed buildings, one of which is a long building of five compartments, one enclosure and a head-dyke are depicted on the 1st edition of the OS 6-inch map (Perthshire 1867, sheet xlii) and on the current edition of the OS 1:10000 map (1979). Information from RCAHMS (SAH) 10 December 1997.

**Site No: 25**

Name: Smyrna  
Type of site: Hut-Circles; Field-System  
NMRS no: NO15SE 18  
Grid ref: NO 1849 5344, 1849 5342 and 1850 5341  
Status: None  
Description: Situated on a slight NW-SE aligned ridge on either side of the public road 300m NW of Smyrna there are three circular hut-circles, several lengths of stony bank and several cairns. W of the hut-circles and on either side of the public road, there are at least 20 cairns measuring up to 5m in diameter and 0.4m in height. On the N and S the area of cairns is defined by boggy areas of ground and within the area the banks serve to almost totally enclose an area measuring 110m E-W and 37m transversely.  
1. NO 1849 5344 (OS 'A') This hut-circle measures 9.7m in diameter within a wall reduced to a 3m thick and 0.2m high grass-covered bank. The entrance is on the SW where there is a slight depression in the bank and on the NW a length of poorly-preserved bank may have originally abutted the hut-circle.  
2. NO 1849 5342 (OS 'B') Immediately S of (1) there is a double-walled hut-circle measuring 7m in diameter within an inner wall defined by an inner face of large boulders many of which are set on edge. This inner face has been robbed on the SW where a distinct trench is visible. The inner wall measures up to 0.9m in thickness and 0.2m in height and is interrupted on the SSE by a 1.4m wide entrance. The outer wall has been largely robbed and the scant remains include robbed-out stone-sockets and a sporadic scatter of rubble measuring 13.1m in overall diameter.  
3. NO 1850 5341 (OS 'C') 3m E of (2) there is a double-walled hut-circle measuring 10.4m E-W by 10.8m in diameter within a wall which is defined by an inner face of boulders set on edge. This inner wall measures up to 1.4m in thickness and 0.2m in height and the 0.8m wide entrance is on the SSE. The outer wall measures 16.6m in diameter over a bank 1.2m in thickness and 0.1m in height; it has been robbed on the W side of the entrance. On either side of the entrance and adjacent to the inner face is what appears to be a heap of grass-covered rubble measuring about 2m in diameter and 0.3m in height. About 7m from the NE arc of the hut-circle is a length of stony bank which twists away in an ESE direction for about 44m. Visited by RCAHMS (JRS) 29 July 1987 and 3 July 1987. RCAHMS 1990.



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**Site No: 26**

Name: Rannagulzion Farm  
Type of site: Farmstead; Kiln  
NMRS no: NO 15SE 47  
Grid ref: NO1815 5360  
Status: None  
Description: Situated immediately S of the Alyth-Glenshee public road some 620m NW of Smyrna cottage there are the remains of a farmstead comprising five buildings and a kiln arranged around the sides of two separate enclosures. The farmstead was known as Cowstyle and was in existence in 1682 (J Meikle 1925) but abandoned by 1863 (OS 6-inch map, Perthshire, sheet 42).  
1. The NW building measures 16m WNW-ESE by 4.9m over turf-covered wall-footings (1m thick and 0.3m high) and is situated within the NE end of an enclosure which has been sub-divided close to its SW end.  
2. Situated close to the ESE end of (1) there is a levelled platform (8.1m WNW-ESE by 4.3m overall) which has probably served as a stance for a timber building.  
3. Situated a few metres ESE of (2) there are the remains of a two-compartment building measuring 9.7m WNW-ESE by 3.8m over wall-footings up to 0.8m thick and 0.3m high. This structure is situated just outside the NE side of a small enclosure.  
4. Situated on the NW side of the same enclosure there are the remains of a two-compartment building measuring 13m NE-SW by 4.4m over wall-footings 1m thick and 0.3m high.  
5. The remains of a building or long pen are situated in the NE corner of the enclosure and measure 14m WNW-ESE by 3.5m over wall-footings 1m thick and 0.3m high.  
6. Situated on the SE side of the enclosure very close to the SE corner there are the remains of a kiln which measures 2.1m in internal diameter and has a flue on the SW. Visited by RCAHMS (JRS) 8 December 1987. RCAHMS 1990.  
One unroofed building annotated as Ruins and attached to the interior of an enclosure is depicted on the 1st edition of the OS 6-inch map (Perthshire 1867, sheet xlii). Two unroofed buildings, one of which is attached to an incomplete enclosure, and two conjoined enclosures are shown on the current edition of the OS 1:10000 map (1979). The buildings shown on the current map lie approximately 140m to the NW of those shown on the 1st edition. Information from RCAHMS (SAH) 10 December 1997.

**Site No: 27**

Name: Rannagulzion  
Type of site: Farmstead; Kiln  
NMRS no: NO15SE 46  
Grid ref: NO 177 539  
Status: None  
Description: The remains of the farmstead of Stripereye, which was extant in 1783 (Stobie) but had been abandoned by the first edition of the OS, lie on either side of the public road 300m NE of Rannagulzion. The farmstead comprises several elements which include eight buildings, several enclosures and a poorly preserved kiln, in addition there is a system of probably contemporary strip fields which run up and down the slope to the S. The farmstead is on record in 1681 (J Meikle 1925).  
1. NO 1768 5389 The remains of this building lie on the N side of an enclosure and measure 9.6m ESE-WNW by 5.6m over walls which have been reduced to turf-covered banks measuring up to 1.7m in thickness and 0.4m in height.  
2. NO 1773 5388 Approximately 25m SE of (1) there is a second building which measures 26.5m ESE-WNW by 3.5m over walls which have been reduced to footings 0.8m thick and 0.4m high; the structure appears to have at least six compartments.  
3. NO 1772 5391 This two-compartment building measures 12.8m E-W by 4.3m over wall-footings 0.75m thick and 0.3m high.  
4. NO 1775 5390 This single-compartment building measures 9.8m E-W by 5.8m over wall-footings 0.8m thick and 0.4m high.



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5. NO 1778 5388 Almost immediately SE of (4) there is a very long rectangular building which comprises at least seven compartments; it measures 4.6m E-W by 5.5m over walls which have been reduced to rubble banks 1m thick and 0.4m high.

6. NO 1777 5396 On the N side of the public road and situated on a narrow terrace there are two small structures (5.3m by 4.5m and 5.7m by 4.3m overall respectively) which lie on the N side of an enclosure which measures 8.3m E-W by 6.6m within a turf-covered bank 1.5m thick and 0.4m high.

7. NO 1775 5397 About 20m NW of (6) there are the remains of a single-compartment building which measures 8.7m E-W by 5.4m over turf-covered wall-footings 1m thick and 0.4m high. The wall fabric at the E and W ends has been heavily robbed and there is an entrance on the S side. Visited by RCAHMS (JRS) 15 March 1988. RCAHMS 1990.

Two unroofed buildings, one of which has an attached enclosure, are depicted on the 1st edition of the OS 6-inch map (Perthshire 1867, sheet xlii). Four unroofed buildings, one of which is a long building, and three enclosures are shown on the current edition of the OS 1:10000 map (1979). Information from RCAHMS (SAH) 10 December 1997.

During the AOC walkover survey of December 2006 a stone-built kiln structure was visible east of enclosures at NO 17814 53822.

**Site No: 28**

Name: Rannagulzion  
Type of site: Buildings  
NMRS no: NO15SE 65  
Grid ref: NO 1751 5403  
Status: None  
Description: The remains of a rectangular building measuring 12.5m WNW-ESE by about 4.3m over turf-covered wall-footings 1m thick and 0.3m high, are situated in gently-sloping S-facing rough pasture 330m N of Rannagulzion farmhouse. Much of the S side of the building has been robbed as has a second building the E gable of which alone survives 12m to the E. Visited by RCAHMS (JRS) 15 March 1988. RCAHMS 1990.

**Site No: 29**

Name: Rannagulzion  
Type of site: Building; Enclosure  
NMRS no: NO15SE 67  
Grid ref: NO1736 5404  
Status: None  
Description: The remains of a three-compartmented rectangular building, measuring 18m E-W by 5.4m over turf-covered wall-footings 0.8m thick and 0.3m high, lie on a S-facing slope 380m NNW of Rannagulzion farmhouse. The entrances are on the S side and to the S of the building there is an enclosure measuring 21m N-S by 14.5m within a turf-covered bank. On the N side of the building there is a wide drainage gully and a few metres E of the E end of the building there are the possible remains of a smaller structure indicated by the presence of a roughly level stony platform. Visited by RCAHMS (JRS) 15 March 1988. RCAHMS 1990

During the AOC walkover of December 2006 a N/S-aligned ditch running south from a linear earth and stone embankment (Site No. 45) formed the eastern boundary of Site No. 29.

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**Site No: 30**

Name: Rannagulzion  
Type of site: Building; Enclosure  
NMRS no: NO15SE 72  
Grid ref: NO 1770 5429  
Status: None  
Description: Situated on a narrow terrace on the SW side of Drumderg approximately 610m NNE of Rannagulzion farmhouse, there is a small rectangular building which measures 7.9m WNW-ESE by 3.9m over turf-covered wall-footings 0.7m thick (between visible wall-faces) and about 0.2m high. The building lies in the NE corner of an enclosure which measures 10m WNW-ESE by 8m within a turf-covered wall. The E end of the building has been partially re-built as a pen. Visited by RCAHMS (JRS) 15 March 1988. RCAHMS 1990.

During walkover surveys by PKHT and AOC a probable shooting butt/pen was visible within this structure. Site No. 30 is a rectangular/D-shaped outer wall with relatively modern internal feature (butt/pen).

**Site No: 31**

Name: Standing stone, modern  
Type of site: Standing stone  
NMRS no: None  
Grid ref: Estimated approx NO 172 547  
Status: None  
Description: A standing stone was observed at this approximate position a short distance north of the path during the walkover survey (AOC Archaeology, June 2002). It is not recorded in the archives consulted and is, in fact, a dog grave marker, recently erected by the landowner (Simon Martin, Enviros, pers com 06.08.03).

**Site No: 32**

Name: Rannagulzion  
Type of site: Hut-Circle; Enclosure  
NMRS no: NO15SE 17  
Grid ref: NO 1713 5479 and 1706 5476  
Status: None  
Description: 1. NO 1706 5476 On the summit of a low rise within an area of poorly-drained moorland 1150m NW of Rannagulzion farmhouse there is a hut-circle measuring 9.4m in diameter within a boulder wall measuring 17m in thickness and 0.2m in height. Facing-stones are present on the S, W and NE faces of the interior but few are visible on the outer side. The narrow, ill-defined entrance is situated on the SSE and the interior of the hut-circle has a slight, irregular ring-ditch feature lending the centre a domed appearance.  
2. NO 1703 5479 65m WSW of (1) and situated at the base of the S face of a slight rise in a poorly-drained situation there is an enclosure measuring 9.5m WSW-ENE by 12m within a wall measuring up to 1.1m in thickness and 0.2m in height. There may be an entrance gap in the SE where the wall is poorly-defined and the site has been crossed from E to W by a narrow drainage ditch.  
Visited by RCAHMS (JRS) 3 July 1987. RCAHMS 1990.

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**Site No: 33**

Name: Saebeg  
Type of site: Hut-Circles; Small Cairns  
NMRS no: NO15NE 2  
Grid ref: NO 162 556  
Status: None  
Description: Centred at NO 162 556 on the S-facing slopes of Saebeg, is a settlement of seven circular stone-walled huts and a contemporary field system defined by stone clearance heaps and occasional lynchets and walls:  
1. NO 1618 5565 A double-walled (Dalruzion-type) hut-circle lies on the leading edge of a terrace overlooking four of the hut-circles. It measures 10.5m in internal diameter and 18.3m from NNW to SSE by 17.8m overall and the gap between the two walls is about 1.6m. The outer wall has been reduced to a stony bank up to 1.6m thick by 0.3m high, but at least three outer facing stones are visible where the heather has been burnt off on the S. The inner is spread up to 1.5m thick by 0.3m high and has had a substantial inner face; four slabs, the tallest 0.6m high, remain upright and twenty-three are lying flat. The deeply splayed entrance, which is 1.6m wide, is on the SSE, defined by two fallen and one in situ facing-stone on the E and one fallen and two in situ on the W.  
2. NO 1625 5563 This is the easternmost of the four hut-circles set at the foot of the slope below the double-walled hut-circle. It measures about 9m from NNW to SSE by 8m within a stony bank 1.9m in thickness by 0.4m in height. Seven possible outer facing-stones are visible on the SE and the entrance is probably on the SSE. On the W side of the interior, partly overlying the hut-circle's bank, there is a roughly circular hut or pen measuring 4.5m in diameter over a stony bank 1.1m in thickness by 0.4m in height.  
3. NO 1623 5562 The next hut-circle to the W is less well-preserved, measuring about 7.5m in diameter within a stony bank up to 1.6m in thickness by 0.2m in height. The entrance is on the S.  
4. NO 1621 5562 The next to the W, which is marked by little more than a heather growth is the easterly of a pair and measures about 5.5m in internal diameter. On the W, where it is best preserved, the bank is about 1m thick and 0.2m high. The entrance is probably on the SSE.  
5. NO 1620 5561 The westerly of the pair is also poorly preserved. It has been reduced to little more than a shallow depression about 5.3m in diameter with traces of a stony bank about 1m thick by 0.2m high around the W half. Its entrance is probably on the SSE.  
6. NO 1621 5555 About 60m due S of (4) and (5), on the S side of the public road there are the remains of a hut-circle measuring 8.3m in diameter within a wall reduced to a stony bank up to 2.2m thick by 0.5m high. At least ten outer facing stones are visible around the S half and two inner facing-stones on the SE. The position of the entrance is not certain but there are possible traces of a gap on the SE.  
7. NO 1608 5559 An arc of bank 1.5m thick by 0.3m high 130m WNW of (6) is probably part of another hut-circle, partly destroyed by the construction of the road. Visited by RCAHMS (SH) 4 March 1988. RCAHMS 1990

**Site No: 34**

Name: Corb  
Type of site: Farmstead  
NMRS no: NO15NE 46  
Grid ref: NO 1638 5686  
Status: None  
Description: A farmstead comprising two unroofed, three roofed buildings, one of which is a long building approximately 50m in length, and a field is depicted on the 1st edition of the OS 6-inch map (Perthshire 1867, sheet xlii). Two roofed buildings, one enclosure and the field are shown on the current edition of the OS 1:10000 map (1976). Information from RCAHMS (SAH) 10 December 1997.

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**Site No: 35**

Name: Corb  
Type of site: Castle; Buildings  
NMRS no: NO 15NE 1  
Grid ref: NO 1648 5682  
Status: None  
Description: Traces of a quadrangular building, 30' x 20', situated on an eminence. Nothing is known locally about its date, but the NSA suggests that it was probably a hunting lodge on the Scottish kings, or the Earls of Crawford. Name Book 1865; New Statistical Account (NSA) 1843. All that can be seen in the vicinity is an irregular turf-covered mound, measuring about 16.0m E-W by 10.0m and 1.0m high, at NO 1646 5685, showing traces of irregular walls too ill-defined to survey or classify. The mound has probably been a building, but has certainly not been a castle. The building noted in the Ordnance Survey Name Book (ONB) can not be positively identified, and there is no trace here of anything which could be interpreted as the foundations of a castle. Mr Ferguson (C S Ferguson, Corb, Bridge of Cally), the present farmer at Corb, said that although his father and grandfather knew of the tradition of a castle, neither knew its location and never came across any foundations. Visited by OS (ISS) 8 January 1974  
The remains on this site comprise a low grass-covered mound measuring 18m from E to W by 12m transversely. In its immediate vicinity, though not tightly grouped, there are at least five buildings, all reduced to their stone wall-footings. Of the two largest buildings one is of at least four compartments and measures 26.3m from E to W by 4.6m transversely overall, whilst the other is of three compartments and measures 17.5m from WNW to ESE by 6.4m transversely overall. The remaining buildings range in size from 5.9m by 4m to 14.4m by 4.1m overall; two are of a single compartment, but the third may be of two compartments. 'Koirb' appears on Ponts map (c.1600), 'the house and village of the Corb' are on record in 1727 (Macfarlane 1906), and on Stobie's map (1783) the castle is depicted as ruinous. It is said to have been a hunting seat of the Scottish kings or of the Earls of Crawford (NSA 1843), but in the 17th century it was the property of the Rattray family, from whom it passed in the middle of the 18th century (Marshall 1881). (This report incorporates NO15NE 22). Visited by RCAHMS (PC) March 1988. RCAHMS 1990.

**Site No: 36**

Name: Smyrna  
Type of site: Burnt Mound  
NMRS no: NO15SE 51  
Grid ref: NO 1888 5330  
Status: None  
Description: This small burnt mound is situated on the W side of a narrow burn 200m ENE of Smyrna. It is crescentic on plan measuring 9.7m NNW-SSE by 4.9m and up to 0.5m in height. The mound is grass-covered and the roughly U-shaped open side measures 2.5m NNW-SSE by 1.4m and faces onto the burn. Visited by RCAHMS (JRS) 25 November 1987. RCAHMS 1990.

**Site No: 37**

Name: Smyrna  
Type of site: Small Cairns  
NMRS no: NO15SE 8  
Grid ref: NO 189 533 (centred upon)  
Status: None  
Description: Situated on a low ridge 100m NE of Smyrna there is a group of small cairns measuring up to 4m in diameter and 0.5m in height. Within the area of the cairns are several lengths of stony bank which form the remains of two U-shaped enclosures on the S face of the E-W orientated ridge between the summit area and the wet ground to the S. Visited by RCAHMS (JRS) 3 July 1987. RCAHMS 1990

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**Site No: 38**

Name: Olies Burn  
Type of site: Cairn: Ring (Possible)  
NMRS no: NO15SE 8  
Grid ref: NO 1842 5281  
Status: None  
Description: A possible ring-cairn is situated on a low rise on the N side of the Olies Burn some 300m SSW of Smyrna cottage. It measures about 5.2m in diameter by 0.3m in maximum height. The W arc of the inner kerb is marked by six small upright stones, which protrude about 0.1m through the top of the cairn, and the tops of two possible displaced slabs are also visible on the E and ENE. There is little evidence to suggest the presence of an outer kerb although there is a large earthfast block on the WNW. Several other large boulders protrude through the surface of the cairn but none of them appear to be structural. Visited by RCAHMS (SH/JS) 15 March 1988. RCAHMS 1990.

**Site No: 39**

Name: Smyrna  
Type of site: Hut-Circle  
NMRS no: NO15SE 81  
Grid ref: NO 1912 5301  
Status: None  
Description: The remains of a hut-circle are situated between the S edge of the public road and a stone dyke 500m ESE of Smyrna cottage. It measures 7.5m in diameter within a heather-covered stony bank 2.5m in thickness and 0.2m in height; the position of the entrance was not visible on the date of visit. Visited by RCAHMS (SH) 5 May 1988 and (JRS) 1 July 1988. RCAHMS 1990.

**Site No: 40**

Name:  
Type of site: Clearance Cairn  
NMRS no:  
Grid ref: NO 17843 54265  
Status:  
Description: Clearance cairn measuring 5 m in diameter and 0.3 m high. Within the SE boundary of the area for new borrow pit.

**Site No: 41**

Name:  
Type of site: Linear stone bank  
NMRS no:  
Grid ref: From NO17798 54077 to NO17782 54101  
Status:  
Description: Aligned north-south along 8 m, this is a low lying stone bank and may be the product of ditch clearance although it is possibly a natural feature.

**Site No: 42**

Name:  
Type of site: Clearance cairn  
NMRS no:  
Grid ref: NO 17878 54257  
Status:  
Description: Previously recorded by S.S.E. Measures 6m E-W and 5m N-S.

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**Site No: 43**

Name:  
Type of site: Clearance Cairn  
NMRS no:  
Grid ref: NO 17891 54272  
Status:  
Description: Previously recorded by S.S.E. To the North of the track stripped for track between turbines. Measures 4 m in diameter, and 0.3m high.

**Site No: 44**

Name:  
Type of site: Field Boundary  
NMRS no:  
Grid ref: NO 18431 55103 to 18456 55076  
Status:  
Description: 1.5-2m wide earth and stone field boundary, part of site 9. Runs NNW-SSE for at least 30m, and turns at NO18438 55081 towards ESE, and runs for around 20m. Part of site 9.

**Site No: 45**

Name:  
Type of site: Clearance bank/boundary  
NMRS no:  
Grid ref: NO 17392 54079; NO 17545 54029  
Status: None  
Description: NW/SE aligned stone enclosure embankment parallel to road to north (visible on modern OS map). A ditch was visible on the north face. It was interrupted at NO 17392 54079, turning south to form the eastern boundary of Site 29. The NW/SE boundary line began again at NO 17397 54075 and continued at least to NO 17545 54029.

**Site No: 46**

Name:  
Type of site: Enclosure system, possible attached cell structure.  
NMRS no:  
Grid ref: NO 17710 53879 to NO 17674 53879  
Status:  
Description: Part of site 27. A NW-SE aligned enclosure system with possible attached cell structure to W.

**Site No: 47**

Name:  
Type of site: Probable natural, possible clearance.  
NMRS no:  
Grid ref: NO 17698 54175  
Status: None  
Description: 8 m diameter spread of large stones, probably natural.

**Site No: 48**

Name:  
Type of site: Natural or clearance cairn  
NMRS no:  
Grid ref: NO 17996 54235  
Status: None

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Description: Possible clearance cairn, 4 m diameter; 0.2m high (small size suggests natural feature).

**Site No: 49**

Name:  
Type of site: Undulating ground surface. Possible cultivation remains.  
NMRS no:  
Grid ref: NO 18200 54670  
Status: None  
Description: Undulating ground surface west of proposed location of Turbine 9, identified by PKHT in December 2006.

**Site No: 50**

Name:  
Type of site: Hut platform  
NMRS no:  
Grid ref: NO 18020 54290  
Status: None  
Description: Possible hut platform, identified by PKHT in December 2006.

**Site No: 51**

Name:  
Type of site: Possible clearance cairn.  
NMRS no:  
Grid ref: NO 18090 54430  
Status: None  
Description: Possible clearance cairn identified by PKHT in December 2006.

**Site No: 52**

Name:  
Type of site: Possible clearance cairn  
NMRS no:  
Grid ref: NO 17770 54180  
Status: None  
Description: Possible clearance cairn identified by PKHT in December 2006, part of Site 17.

**Site No: 53**

Name:  
Type of site: Possible clearance cairn  
NMRS no:  
Grid ref: NO 17820 54100  
Status: None  
Description: Possible clearance cairn identified by PKHT in December 2006, part of Site 17.





Plate 1 Site 49 from south



Plate 2 Turbine 1 area from north-east





Plate 3 West-facing section of cairn [901]



Plate 4 West-facing section across boundary [4101]

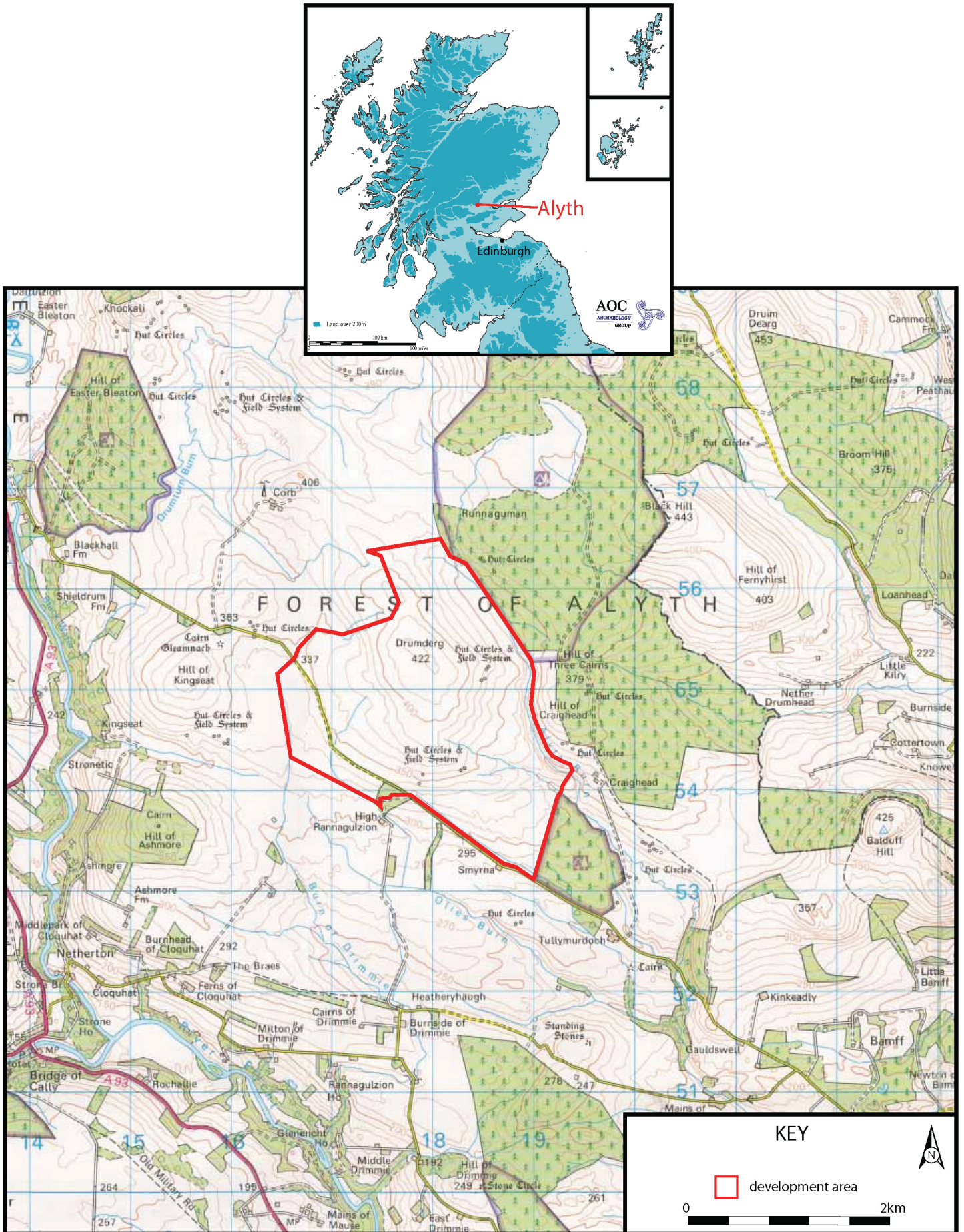


Plate 5 South-east-facing section across cairn [4301]



Plate 6 Watching brief area showing rectilinear structure

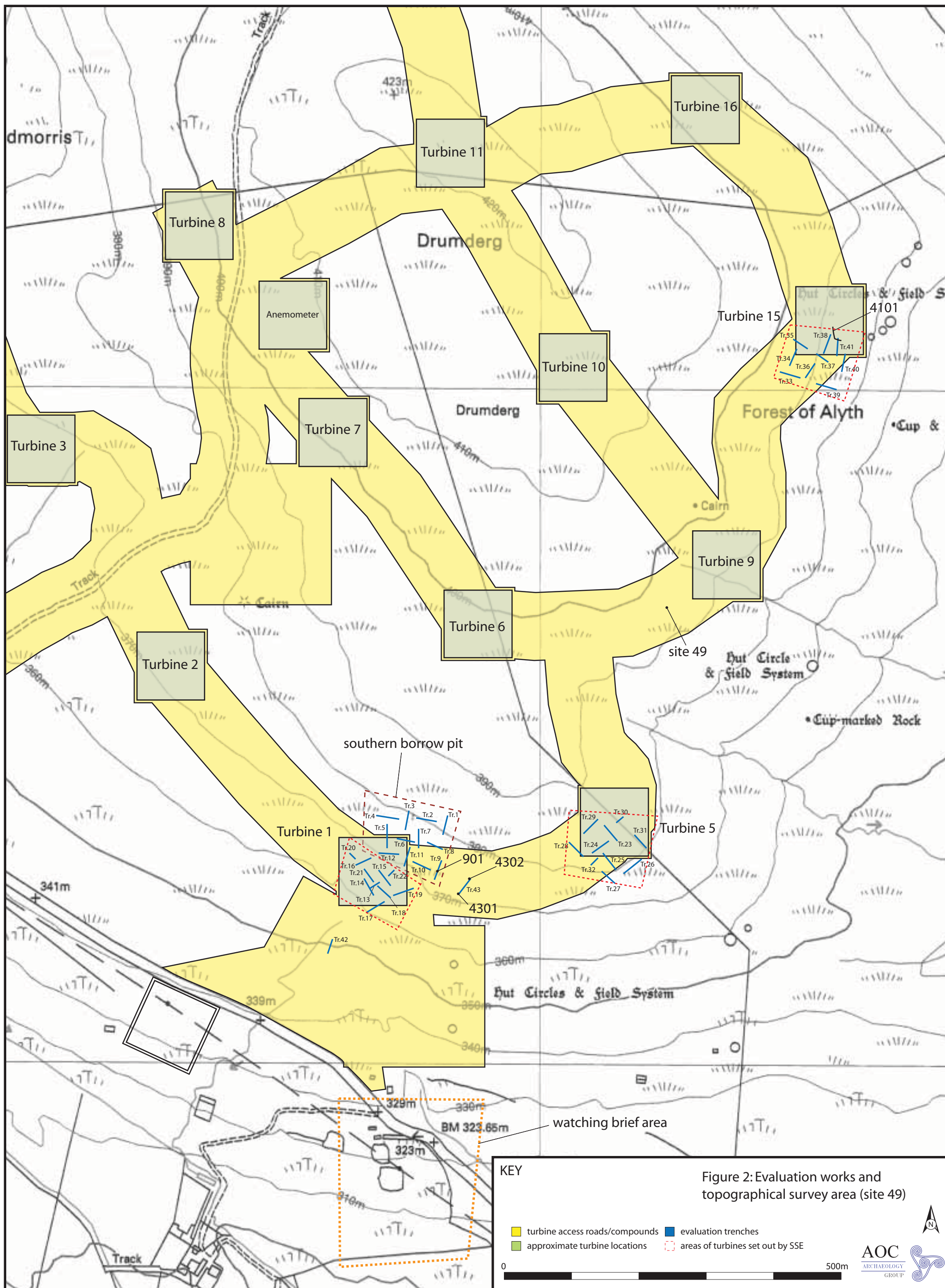




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Figure 1: Site location





KEY

- turbine access roads/compounds
- approximate turbine locations
- evaluation trenches
- areas of turbines set out by SSE

0 500m

Figure 2: Evaluation works and topographical survey area (site 49)

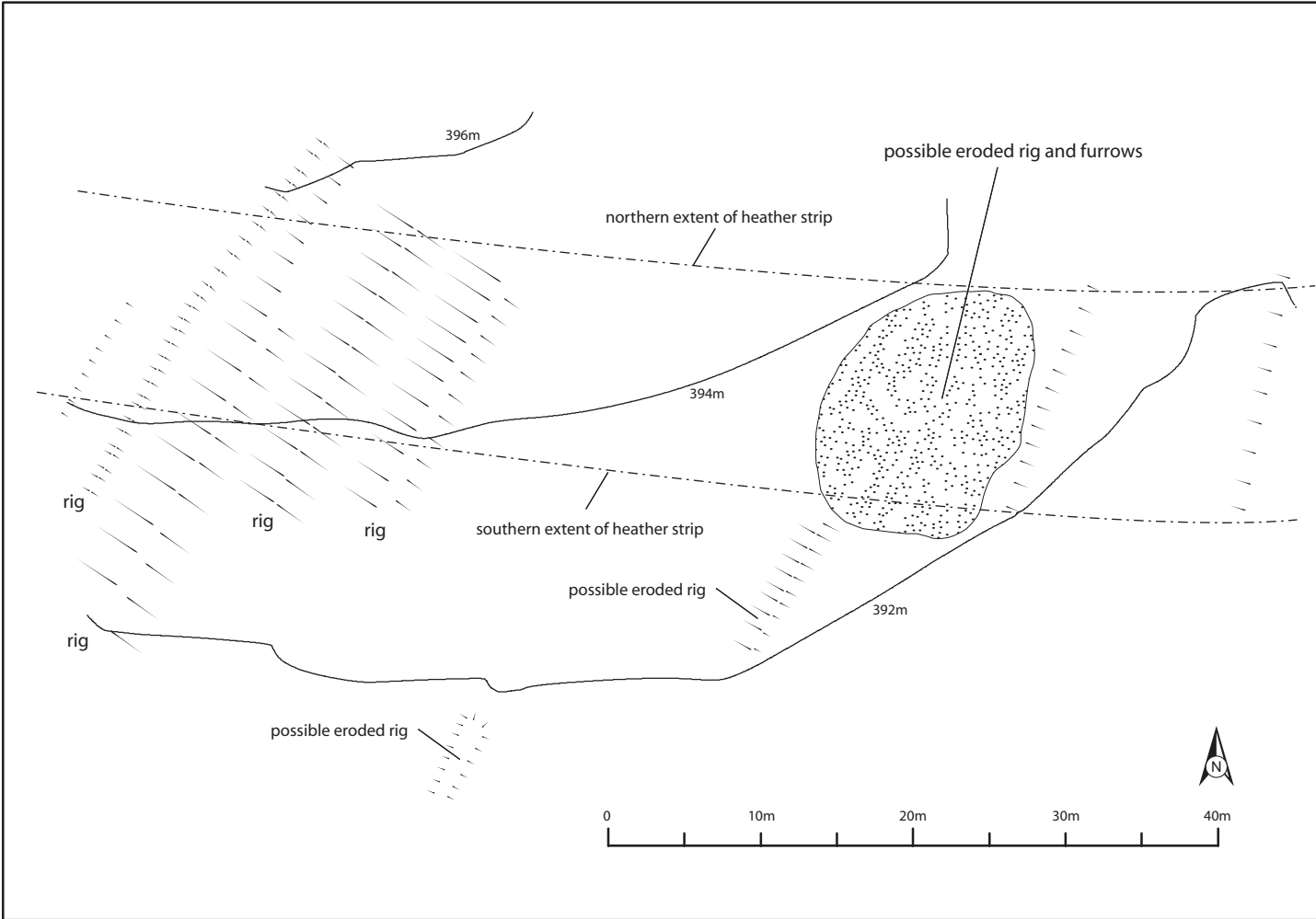
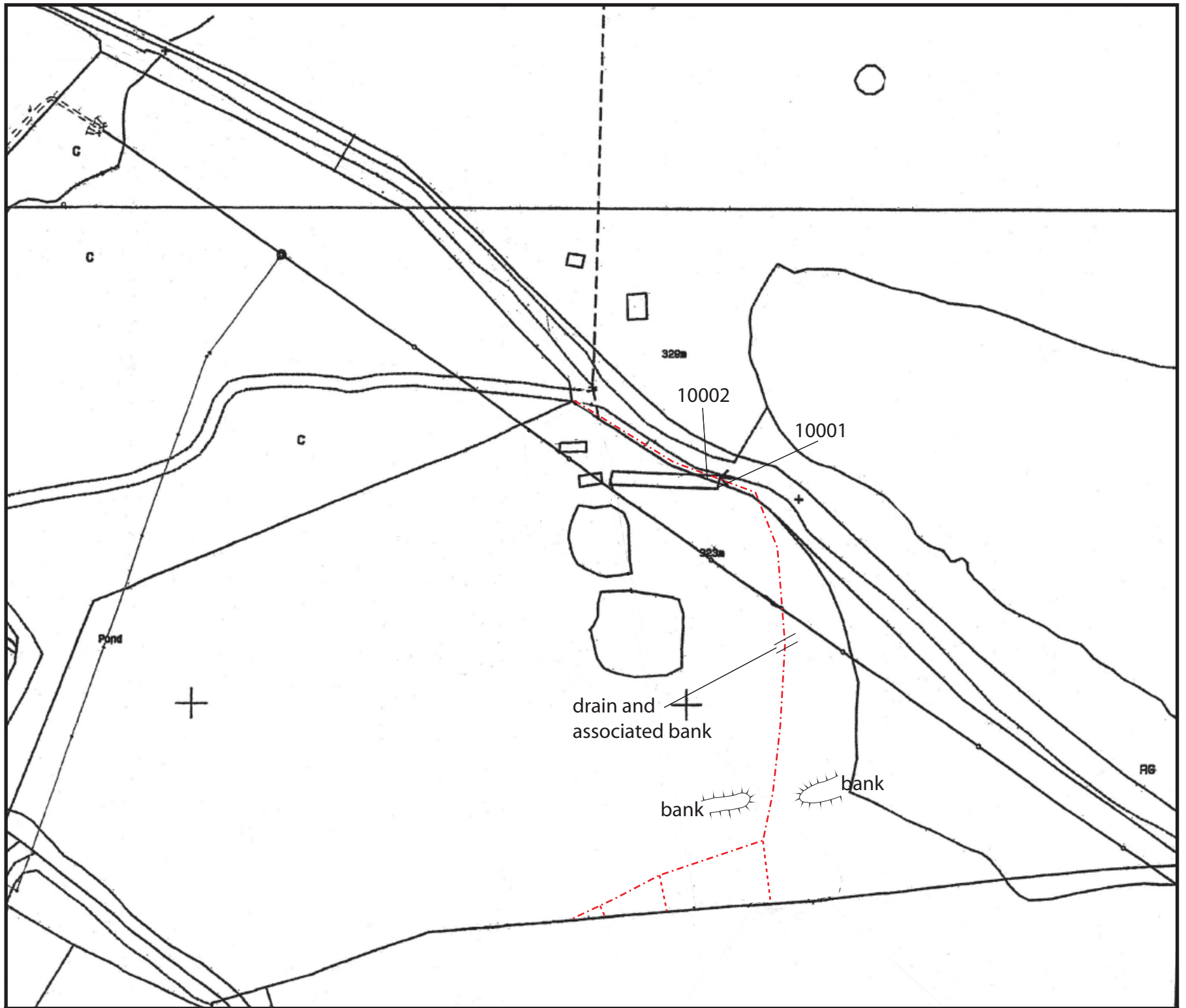


Figure 3: Plan of rig and furrow, Site 49



----- electric cable trench  
 ----- sump trench

Figure 4: watching brief area to the south of development area





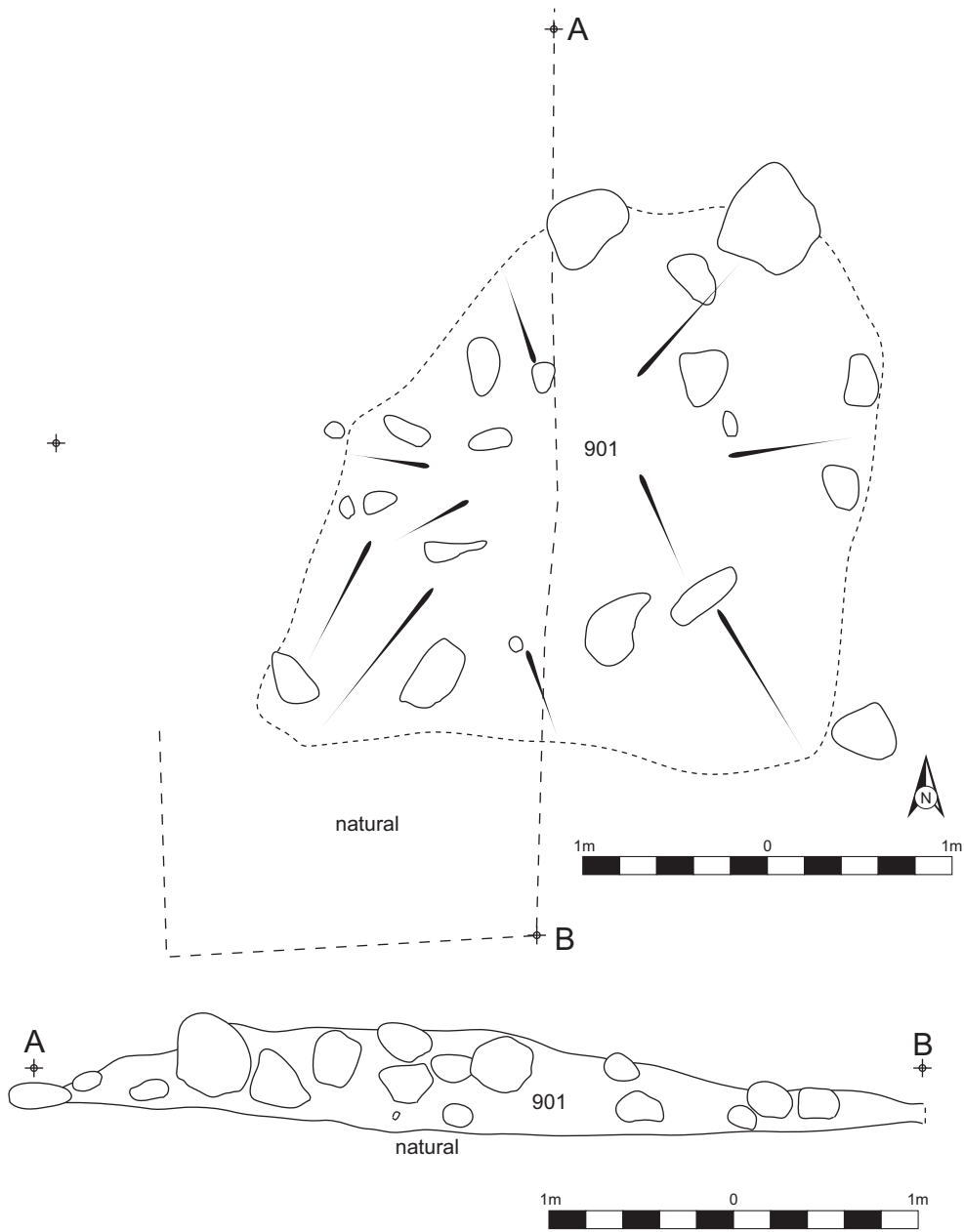


Figure 5: Plan and section of site 40/cairn 901

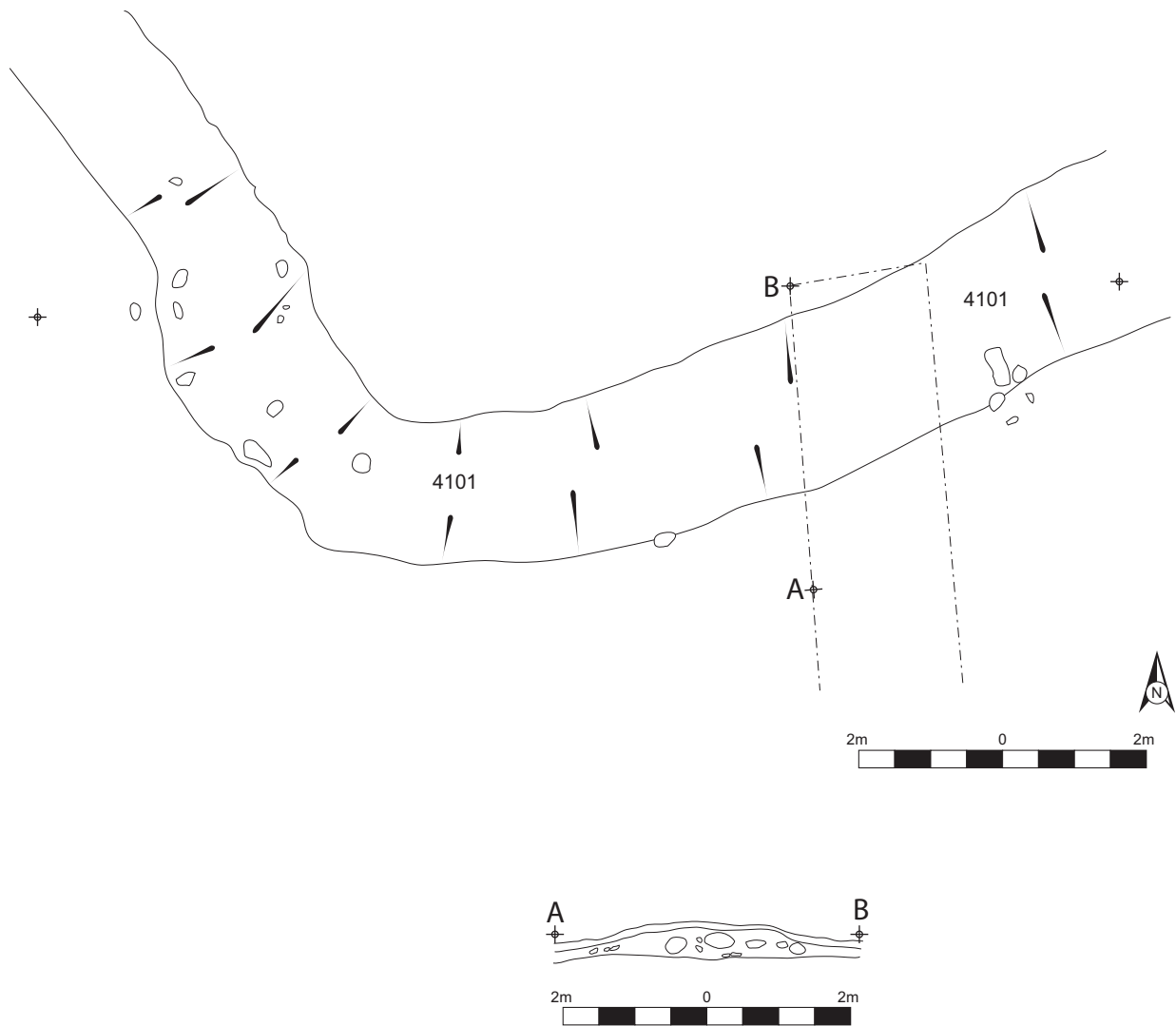


Figure 6: Plan of and section of boundary 4101



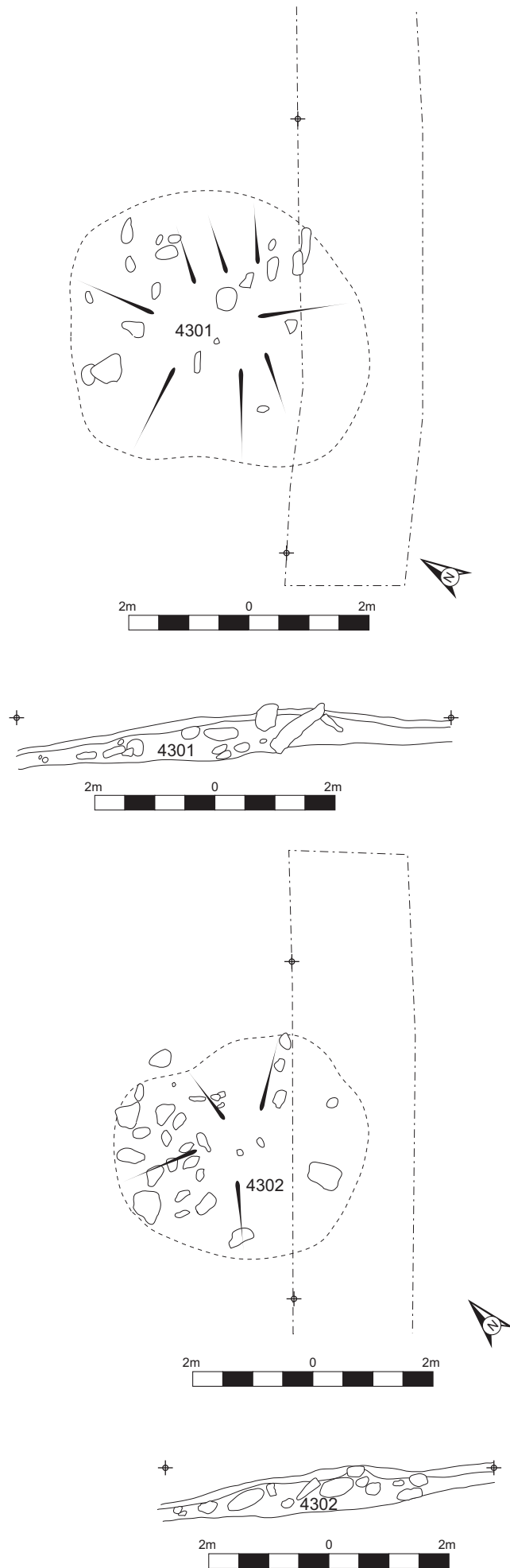


Figure 7: Plans and sections of cairns 4301 and 4302

APPENDIX 1: TRENCH SUMMARIES

**Trench 1**

*Orientation:* North to South  
*Size:* 30 m x 2.0 m  
*Topsoil depth:* 0.15 - 0.23 m  
*Excavation depth:* 0.25 m (max)  
*Subsoil:* Light reddish brown boulder clay  
*Modern features:* None  
*Significant features:* None  
*Artefacts:* None  
*Interpretation:* No significant archaeology present

**Trench 2**

*Orientation:* East to West  
*Size:* 30m x 2.0 m  
*Topsoil depth:* 0.2 - 0.36 m  
*Excavation depth:* 0.38 m (max)  
*Subsoil:* Light red brown boulder clay; boulder-rich; light red grey boulder clay to west (last 10m)  
*Modern features:* None  
*Significant features:* None  
*Artefacts:* None  
*Interpretation:* No significant archaeology present

**Trench 3**

*Orientation:* North to south  
*Size:* 30 m x 2.0 m  
*Topsoil depth:* 0.15 - 0.22 m  
*Excavation depth:* 0.25 m (max)  
*Subsoil:* Light reddish brown boulder clay; light grey boulder clay for north 5m  
*Modern features:* None  
*Significant features:* None  
*Artefacts:* None  
*Interpretation:* No significant archaeology present

**Trench 4**

*Orientation:* East to west  
*Size:* 30 m x 2.0 m  
*Topsoil depth:* 0.16 - 0.22 m  
*Excavation depth:* 0.24 m (max)  
*Subsoil:* Light reddish brown boulder clay  
*Modern features:* None  
*Significant features:* None  
*Artefacts:* None  
*Interpretation:* No significant archaeology present

**Trench 5**

*Orientation:* North to south  
*Size:* 30 m x 2.0 m  
*Topsoil depth:* 0.23 - 0.28 m  
*Excavation depth:* 0.3 m (max)  
*Subsoil:* Light reddish brown boulder clay; extremely boulder rich  
*Modern features:* None  
*Significant features:* None  
*Artefacts:* None

*Interpretation:* No significant archaeology present

**Trench 6**

*Orientation:* West to east  
*Size:* 30 m x 2.0 m  
*Topsoil depth:* 0.15 - 0.24 m  
*Excavation depth:* 0.26 m (max)  
*Subsoil:* Light reddish brown boulder clay  
*Modern features:* None  
*Significant features:* None  
*Artefacts:* None  
*Interpretation:* No significant archaeology present

**Trench 7**

*Orientation:* North to south  
*Size:* 30 m x 2.0 m  
*Topsoil depth:* 0.15 - 0.35 m  
*Excavation depth:* 0.37 m (max)  
*Subsoil:* Light reddish brown boulder clay  
*Modern features:* None  
*Significant features:* None  
*Artefacts:* None  
*Interpretation:* No significant archaeology present

**Trench 8**

*Orientation:* West to east  
*Size:* 30 m x 2.0 m  
*Topsoil depth:* 0.26 - 0.30 m  
*Excavation depth:* 0.32 m (max)  
*Subsoil:* Light reddish brown boulder clay; very boulder rich subangular/angular  
*Modern features:* None  
*Significant features:* None  
*Artefacts:* None  
*Interpretation:* No significant archaeology present

**Trench 9**

*Orientation:* South to north  
*Size:* 30 m x 2.0 m  
*Topsoil depth:* 0.18 - 0.19 m  
*Excavation depth:* 0.2 m (max)  
*Subsoil:* Light reddish brown boulder clay  
*Modern features:* None  
*Significant features:* Clearance Cairn [901]  
*Artefacts:* None  
*Interpretation:* Undated clearance feature

**Trench 10**

*Orientation:* East to west  
*Size:* 30 m x 2.0 m  
*Topsoil depth:* 0.18 - 0.23 m  
*Excavation depth:* 0.25 m (max)  
*Subsoil:* Light reddish brown boulder clay; very boulder rich, with much gravel to west  
*Modern features:* None  
*Significant features:* None  
*Artefacts:* None  
*Interpretation:* No significant archaeology present

**Trench 11**

*Orientation:* North to south  
*Size:* 30 m x 2.0 m  
*Topsoil depth:* 0.22 - 0.31 m  
*Excavation depth:* 0.33 m (max)  
*Subsoil:* Light reddish brown boulder clay  
*Modern features:* None  
*Significant features:* None  
*Artefacts:* None  
*Interpretation:* No significant archaeology present

**Trench 12**

*Orientation:* East to west  
*Size:* 30 m x 2.0 m  
*Topsoil depth:* 0.17 - 0.28 m  
*Excavation depth:* 0.3 m (max)  
*Subsoil:* Light reddish brown boulder clay  
*Modern features:* None  
*Significant features:* None  
*Artefacts:* None  
*Interpretation:* No significant archaeology present

**Trench 13**

*Orientation:* North-west to south-east  
*Size:* 15 m x 2.0 m  
*Topsoil depth:* 0.2 - 0.23 m  
*Excavation depth:* 0.25 m (max)  
*Subsoil:* Light reddish brown boulder clay  
*Modern features:* None  
*Significant features:* None  
*Artefacts:* None  
*Interpretation:* No significant archaeology present

**Trench 14**

*Orientation:* North-west to south-east  
*Size:* 30 m x 2.0 m  
*Topsoil depth:* 0.15 - 0.2 m (basal element is mid grey silty clay)  
*Excavation depth:* 0.22 m (max)  
*Subsoil:* Light reddish brown boulder clay  
*Modern features:* None  
*Significant features:* None  
*Artefacts:* None  
*Interpretation:* No significant archaeology present

**Trench 15**

*Orientation:* North-west to south-east  
*Size:* 30 m x 2.0 m  
*Topsoil depth:* 0.16 - 0.26 m  
*Excavation depth:* 0.28 m (max)  
*Subsoil:* Light reddish brown boulder clay; many medium stones  
*Modern features:* None  
*Significant features:* None  
*Artefacts:* None  
*Interpretation:* No significant archaeology present

**Trench 16**

*Orientation:* North to South  
*Size:* 30 m x 2.0 m  
*Topsoil depth:* 0.13 - 0.15 m  
*Excavation depth:* 0.17 m (max)  
*Subsoil:* Light reddish brown boulder clay; some light-mid grey clay silt patches  
*Modern features:* None  
*Significant features:* None  
*Artefacts:* None  
*Interpretation:* No significant archaeology present

**Trench 17**

*Orientation:* South-west to north -east  
*Size:* 30 m x 2.0 m  
*Topsoil depth:* 0.1 m (over 0.1 m is mid reddish brown clay silt hillwash)  
*Excavation depth:* 0.22 m (max)  
*Subsoil:* Light reddish brown boulder clay; patches of red grey silty clay, layer of mid red brown clay silt – hillwash  
*Modern features:* None  
*Significant features:* None  
*Artefacts:* None  
*Interpretation:* No significant archaeology present

**Trench 18**

*Orientation:* North-west to south-east  
*Size:* 30 m x 2.0 m  
*Topsoil depth:* 0.05 m (over 0.14 - 0.20 m dark reddish brown clay silt hillwash)  
*Excavation depth:* 0.28 m (max)  
*Subsoil:* Light reddish brown boulder clay, under dark red brown clay silt - hillwash  
*Modern features:* None  
*Significant features:* None  
*Artefacts:* None  
*Interpretation:* No significant archaeology present

**Trench 19**

*Orientation:* North-east to south-west  
*Size:* 30 m x 2.0 m  
*Topsoil depth:* 0.05 m (over 0.11 - 0.18 m dark reddish brown clay silt hillwash)  
*Excavation depth:* 0.25 m (max)  
*Subsoil:* Light reddish brown boulder clay, under dark red brown silt - hillwash  
*Modern features:* None  
*Significant features:* None  
*Artefacts:* None  
*Interpretation:* No significant archaeology present

**Trench 20**

*Orientation:* North-west to south-east  
*Size:* 30 m x 2.0 m  
*Topsoil depth:* 0.05 m (over 0.12 - 0.13 m dark reddish brown clay silt hillwash)  
*Excavation depth:* 0.2 m (max)  
*Subsoil:* Boulder clay (silty), under dark red brown clay silt - hillwash  
*Modern features:* None  
*Significant features:* None  
*Artefacts:* None

*Interpretation:* No significant archaeology present

**Trench 21**

*Orientation:* North-west to south-east  
*Size:* 30 m x 2.0 m  
*Topsoil depth:* 0.10 m (over 0.08 - 0.15 m dark reddish brown clay silt hillwash)  
*Excavation depth:* 0.27 m (max)  
*Subsoil:* Silty boulder clay; light-mid red grey patches, plus mid/dark red brown clay silt - hillwash  
*Modern features:* None  
*Significant features:* None  
*Artefacts:* None  
*Interpretation:* No significant archaeology present

**Trench 22**

*Orientation:* North-east to south-west  
*Size:* 15 m x 2.0 m  
*Topsoil depth:* 0.10 m (over 0.10 - 0.15 m mid reddish brown clay silt hillwash)  
*Excavation depth:* 0.27 m (max)  
*Subsoil:* Light red brown boulder clay; slightly silty, patches of light-mid red grey clay silt, under mid red brown clay silt hillwash  
*Modern features:* None  
*Significant features:* None  
*Artefacts:* None  
*Interpretation:* No significant archaeology present

**Trench 23**

*Orientation:* South to north  
*Size:* 30 m x 2.0 m  
*Topsoil depth:* 0.16 - 0.29 m  
*Excavation depth:* 0.30 m (max)  
*Subsoil:* Light reddish brown boulder clay; moderate large boulders  
*Modern features:* None  
*Significant features:* None  
*Artefacts:* None  
*Interpretation:* No significant archaeology present

**Trench 24**

*Orientation:* North-east to south-west  
*Size:* 30 m x 2.0 m  
*Topsoil depth:* 0.2 - 0.28 m  
*Excavation depth:* 0.3 m (max)  
*Subsoil:* Light reddish brown boulder clay  
*Modern features:* None  
*Significant features:* None  
*Artefacts:* None  
*Interpretation:* No significant archaeology present

**Trench 25**

*Orientation:* North-west to south-east  
*Size:* 30 m x 2.0 m  
*Topsoil depth:* 0.10 m (over 0.09 - 0.18 m mid reddish grey clay silt hillwash)  
*Excavation depth:* 0.3 m (max)  
*Subsoil:* Light reddish brown boulder clay; relatively gravel-rich, plus mid red grey clay silt hillwash

*Modern features:* None  
*Significant features:* None  
*Artefacts:* None  
*Interpretation:* No significant archaeology present

**Trench 26**

*Orientation:* South west to north-east  
*Size:* 30 m x 2.0 m  
*Topsoil depth:* 0.17 - 0.31 m  
*Excavation depth:* 0.33 m (max)  
*Subsoil:* Light reddish brown boulder clay  
*Modern features:* None  
*Significant features:* None  
*Artefacts:* None  
*Interpretation:* No significant archaeology present

**Trench 27**

*Orientation:* South-east to north-west  
*Size:* 30 m x 2.0 m  
*Topsoil depth:* 0.05 m (over 0.09 - 0.13 m mid grey clay silt hillwash)  
*Excavation depth:* 0.2 m (max)  
*Subsoil:* Light reddish brown boulder clay, centre and NW have boulders/bedrock, under mid/light grey clay silt - hillwash  
*Modern features:* None  
*Significant features:* None  
*Artefacts:* None  
*Interpretation:* No significant archaeology present

**Trench 28**

*Orientation:* South-east to north-west  
*Size:* 30 m x 2.0 m  
*Topsoil depth:* 0.10 m (over 0.10 - 0.20 m mid reddish brown/grey clay silt hillwash)  
*Excavation depth:* 0.32 m (max)  
*Subsoil:* Light reddish brown boulder clay, extremely boulder and gravel rich, plus mid red brown grey clay silt hillwash  
*Modern features:* None  
*Significant features:* None  
*Artefacts:* None  
*Interpretation:* No significant archaeology present

**Trench 29**

*Orientation:* South-west to north-east  
*Size:* 30 m x 2.0 m  
*Topsoil depth:* 0.10 m (over 0.15 - 0.20 m mid reddish brown/grey clay silt hillwash)  
*Excavation depth:* 0.32 m (max)  
*Subsoil:* Light reddish brown boulder clay  
*Modern features:* None  
*Significant features:* Clearance feature  
*Artefacts:* None  
*Interpretation:* Undated

**Trench 30**

*Orientation:* South-west to north-east  
*Size:* 15 m x 2.0 m  
*Topsoil depth:* 0.10 m (over 0.12 - 0.22 m mid reddish brown/grey clay silt hillwash)

*Excavation depth:* 0.35 m (max)  
*Subsoil:* Light reddish brown boulder clay, gravel rich to NE  
*Modern features:* None  
*Significant features:* None  
*Artefacts:* None  
*Interpretation:* No significant archaeology present

### **Trench 31**

*Orientation:* North-west to south-east  
*Size:* 30m x 2.0 m  
*Topsoil depth:* 0.10 m (over 0.07 - 0.16 m mid reddish brown/grey clay silt hillwash)  
*Excavation depth:* 0.3 m (max)  
*Subsoil:* Light red brown boulder clay; very gravel rich  
*Modern features:* None  
*Significant features:* None  
*Artefacts:* None  
*Interpretation:* No significant archaeology present

### **Trench 32**

*Orientation:* South-west to north-east  
*Size:* 15 m x 2.0 m  
*Topsoil depth:* 0.08 m (over 0.12 - 0.15 m mid reddish brown silt hillwash)  
*Excavation depth:* 0.25 m (max)  
*Subsoil:* Light reddish brown boulder clay; very gravel rich especially to SW, plus mid red brown silt hillwash  
*Modern features:* None  
*Significant features:* None  
*Artefacts:* None  
*Interpretation:* No significant archaeology present

### **Trench 33**

*Orientation:* West to east  
*Size:* 30 m x 2.0 m  
*Topsoil depth:* 0.10 m (over 0.10 - 0.16 m mid grey clay silt hillwash)  
*Excavation depth:* 0.28 m (max)  
*Subsoil:* Light reddish brown boulder clay  
*Modern features:* None  
*Significant features:* None  
*Artefacts:* None  
*Interpretation:* No significant archaeology present

### **Trench 34**

*Orientation:* North to south  
*Size:* 30 m x 2.0 m  
*Topsoil depth:* 0.10 m (over 0.07 - 0.10 m mid grey clay silt hillwash)  
*Excavation depth:* 0.22 m (max)  
*Subsoil:* Light reddish brown boulder clay  
*Modern features:* None  
*Significant features:* None  
*Artefacts:* None  
*Interpretation:* No significant archaeology present

### **Trench 35**

*Orientation:* West to east  
*Size:* 30 m x 2.0 m  
*Topsoil depth:* 0.10 m (over 0.07 - 0.14 m mid grey clay silt hillwash)



*Excavation depth:* 0.25 m (max)  
*Subsoil:* Light reddish brown boulder clay under mid grey clay silt hillwash  
*Modern features:* None  
*Significant features:* None  
*Artefacts:* None  
*Interpretation:* No significant archaeology present

**Trench 36**

*Orientation:* NNE to SSW  
*Size:* 30 m x 2.0 m  
*Topsoil depth:* 0.1 - 0.45 m (to NNE over up to 0.05 m mid grey clay silt hillwash; to SSW over 0.40 m dark reddish brown peat)  
*Excavation depth:* 0.47 m (max)  
*Subsoil:* Light reddish brown boulder clay to NNE; last 10m to SSW light red brown and light grey brown boulder clay  
*Modern features:* None  
*Significant features:* None  
*Artefacts:* None  
*Interpretation:* No significant archaeology present

**Trench 37**

*Orientation:* North-west to south-east  
*Size:* 30 m x 2.0 m  
*Topsoil depth:* 0.10 m (over up to - 0.10 m mid grey clay silt hillwash)  
*Excavation depth:* 0.22 m (max)  
*Subsoil:* Light reddish brown boulder clay  
*Modern features:* None  
*Significant features:* None  
*Artefacts:* None  
*Interpretation:* No significant archaeology present

**Trench 38**

*Orientation:* North to south  
*Size:* 30 m x 2.0 m  
*Topsoil depth:* 0.10 m (over up to 0.05 m mid grey clay silt hillwash)  
*Excavation depth:* 0.17 m (max)  
*Subsoil:* Light reddish brown boulder clay  
*Modern features:* None  
*Significant features:* None  
*Artefacts:* None  
*Interpretation:* No significant archaeology present

**Trench 39**

*Orientation:* West to east  
*Size:* 30 m x 2.0 m  
*Topsoil depth:* 0.1 m (over up to 0.4 m reddish brown peat in western half of trench; over up to 0.10 m mid grey clay silt hillwash to east)  
*Excavation depth:* 0.25 m (max)  
*Subsoil:* Light reddish brown boulder clay to east; gravel rich light red grey clay to west  
*Modern features:* None  
*Significant features:* None  
*Artefacts:* None  
*Interpretation:* No significant archaeology present

**Trench 40**

*Orientation:* South to north  
*Size:* 30 m x 2.0 m  
*Topsoil depth:* 0.10 m (over 0.05 - 0.10 m mid grey clay silt hillwash)  
*Excavation depth:* 0.22 m (max)  
*Subsoil:* Light reddish brown boulder clay  
*Modern features:* None  
*Significant features:* None  
*Artefacts:* None  
*Interpretation:* No significant archaeology present

**Trench 41**

*Orientation:* North to south  
*Size:* 30 m x 2.0 m  
*Topsoil depth:* 0.10 m (over up to 0.05 m mid grey clay silt hillwash)  
*Excavation depth:* 0.17 m (max)  
*Subsoil:* Light reddish brown boulder clay  
*Modern features:* None  
*Significant features:* Embankment feature at north end of trench [4101] dark grey brown clay silt with sub-angular stone  
*Artefacts:* None  
*Interpretation:* Undated

**Trench 42**

*Orientation:* North-east to south-west  
*Size:* 30 m x 2.0 m  
*Topsoil depth:* 0.15 - 0.25 m  
*Excavation depth:* 0.25 m (max)  
*Subsoil:* NE 10m mid-light red brown silty boulder clay with moderate small/medium stone. SW and centre 20m mid grey brown slightly silty boulder clay, common gravel  
*Modern features:* None  
*Significant features:* None  
*Artefacts:* None  
*Interpretation:* No significant archaeology present

**Trench 43**

*Orientation:* South-west to north-east  
*Size:* 30 m x 2.0 m  
*Topsoil depth:* 0.1 m (lower element is dark reddish brown silt hillwash)  
*Excavation depth:* 0.12 m (max)  
*Subsoil:* Light reddish brown boulder clay  
*Modern features:* None  
*Significant features:* Clearance Cairn to SW [4301], Clearance Cairn to NE [4302]  
*Artefacts:* None  
*Interpretation:* Undated

APPENDIX 2: CONTEXT DESCRIPTIONS

No.	Area	Type	Description
901	Tr. 9	Clearance cairn	2.5 m N/S by 3.0 m E/W subcircular dump of subangular and angular stone in a dark red brown clay silt topsoil matrix. 0.5 m deep
4101	Tr. 41	Clearance/Boundary	Linear bank of subangular stones in dark grayish brown silt topsoil matrix. 2. 5 m wide and 0/3 m deep. Runs east to west at least 30 m before turning north for 20 m +.
4301	Tr. 43	Clearance cairn	5 m diameter subcircular dump of subangular stone in a mid to dark reddish brown slightly clay silt topsoil matrix. 0.6 m high. Roughly 20 m SW of [4302].
4302	Tr. 43	Clearance cairn	4 m diameter subcircular dump of subangular stone in a mid to dark reddish brown slightly clay silt topsoil matrix. 0.4 m high. Roughly 20 m NE of [4301].
10001	Watching brief	Wall	Base of stone wall of rectilinear East/West-aligned building. Area visible in section was N/S-aligned (i.e. eastern wall), Up to 1.2 m deep and 1.0 m wide. Crude unbonded angular stones (0.1 – 1.0 m). Over natural boulder clay.
10002	Watching brief	Wall/ demolition	Either a disturbed wall remnant or demolition material. Lay to NW of [10001] and apparently formed north wall of structure. W/E-aligned. 1.8 m long W/E and up to 0.5 m deep. Unbonded angular stones (0.1 – 0.4 m). Over [10003]
10003	Watching brief	Dump	0.3 m deep deposit of dark brown clay, under [10002].
10004	Watching brief	Natural	0.3 m deep deposit of mid orangeish brown clay, under [10003].
10005	Watching brief	Natural	0.3 m+ deep deposit of coarse dark brown silty clay, under [10004].
10006	Watching brief	Natural	0.3 m+ deep deposit of coarse dark grey clay and gravel, under [10005].

APPENDIX 3: PHOTOGRAPHIC REGISTER

Black & White Print and Colour Slide 1

<b>Frame</b>	<b>Detail</b>	<b>From</b>
1-2	Registration Shot	-
3-4	Trench 1, general shot	S
5-6	Trench 2 (working)	E
7-8	Trench 3, general shot	N
9-10	Trench 6, general shot	W
11-12	Trench 9, cairn [901]	W
13-14	Trench 9, cairn [901]	S
15	Wall [10001]	NE
16	Wall [10002]	NE
17	[10001] and [10002]	SE
18	Section showing drainage ditch	S

Black & White Print and Colour Slide 2

<b>Frame</b>	<b>Detail</b>	<b>From</b>
1-2	Registration shot	-
3-4	Wall [10001] in watching brief area	SE
5	Wall [10001] in watching brief area, working	SE
6-7	Site 44, boundary	N
8-9	Site 44, boundary	S
10-11	Trench 38, general shot	SW
12-13	Trench 36, general shot	W
14-15	Trench 39, general shot	NW
16	Trench 36, working shot	W
17-18	Site 44, boundary [4101], pre-excavation	SE
19-20	Working shot, Turbine 15	SE
21-22	SE-facing section of boundary [4101]	SE
23-24	NW-facing section of boundary [4101]	NW
25-26	Trench 27, general shot	W
27-28	Turbine 5 area, during backfill	SW
29-30	Trench 42, general shot	NE
31-32	Trench 14, with Site 30	SE
33-34	Trench 13 and general Turbine 1 area	SW
35-36	SE-facing section of cairn [4301]	SE

Black & White Print and Colour Slide 3

<b>Frame</b>	<b>Detail</b>	<b>From</b>
1-2	Registration shot	-
3-4	SE-facing section of cairn [4301]	SE
5-6	SE-facing section of cairn [4302]	SE

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Digital Photographs

<b>Shot</b>	<b>Detail</b>	<b>From</b>
1	SE facing section of trench near earthworks	SE
2	NW facing section; field drain (1)	NW
3	general shot, southern watching brief area	N
4	S-facing section field drain (2)	S
5	S-facing section field drain to north (3)	S
6	Undulation in natural near overhead lines	W
7	Undulation in natural near overhead lines	E
8	W-facing section of cable trench near gate	W
9	W-facing section of cable trench near gate	W
10	NE-facing section of wall [10001]	NE
11	NE-facing section of wall [10001]	NE
12	NE-facing section of wall [10001]	NE
13	NE-facing section of wall [10001]	NE
14	Turbine 5 area	N
15	Tr. 31, general shot	NW
16	Tr. 30, general shot	NE
17	Tr. 29, general shot	NE
18	Tr. 9, cairn [901]	W
19	Tr. 9, cairn [901]	W
20	Turbine 1 area	NE
21	Tr. 15, general shot	SE
22	Tr. 13, general shot	NE
23	Tr. 21, general shot	SE
24	Tr. 14, general shot	SE
25	Site 30, general shot	E
26	General shot of wall remnants [10001 and [10002]	SE
27	Site 44, boundary	N
28	Tr. 38, general shot	SW
29	Tr. 36, showing peat	W
30	Tr. 39, general shot	NW
31	Working shot, Turbine 15 area	S
32	Site 44, boundary [4101], pre-excavation	SE
33	NW-facing section of boundary [4101]	NW
34	SE-facing section of cairn [4301]	SE
35	SE-facing section of cairn [4302]	SE
36	Turbine 1 area, after backfilling	S
37	Turbine 1 area, after backfilling	S
38	Site 9 and southern borrow pit, after backfilling	SE
39	Tr. 42, after backfilling	N
40	Turbine 1/southern borrow pit, after backfilling	S

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APPENDIX 4: SAMPLE REGISTER

Context No.	Area	Type of Sample	No. of Litres
901	Tr. 9	SBS	10
4101	Tr. 41	SBS	10
4301	Tr. 43	SBS	10
4302	Tr. 43	SBS	10

APPENDIX 5: DRAWING REGISTER

Drawing No.	Area	Feature No.	Description	Scale
1	Tr. 9	901	Plan of clearance cairn [901]	1:20
2	Tr. 9	901	Section (W-facing) of [901]	1:20
3	Watching Brief	10001	Section (NE-facing) of wall [10001]	1:10
4	Watching Brief	10002	Section (NE-facing) of wall [10002]	1:10
5	Watching Brief	10001	Plan of wall [10001]	1:20
6	Tr. 41	4101	Plan of clearance/boundary bank [4101]	1:50
7	Tr. 41	4101	Section (E-facing) of bank [4301]	1:10
8	Tr. 41	4101	Section (W-facing) of bank [4301]	1:10
9	Tr. 43	4301	Plan of clearance cairn [4301]	1:50
10	Tr. 43	4301	Section (SE-facing) of cairn [4301]	1:20
11	Tr. 43	4302	Plan of clearance cairn [4302]	1:50
12	Tr. 43	4302	Section (SE-facing) of cairn [4302]	1:20

APPENDIX 6: DISCOVERY AND EXCAVATION IN SCOTLAND REPORT

<b>LOCAL AUTHORITY:</b>	Perth and Kinross
<b>PROJECT TITLE/SITE NAME:</b>	Drumderg Windfarm; Evaluation, Topographical survey and Watching brief
<b>PROJECT CODE:</b>	AOC 20343
<b>PARISH:</b>	Lesmahagow
<b>NAME OF CONTRIBUTOR:</b>	Mike Roy
<b>NAME OF ORGANISATION:</b>	AOC Archaeology Group
<b>TYPE(S) OF PROJECT:</b>	Walkover and topographical survey, evaluation and watching brief
<b>NMRS NO(S):</b>	NO15SE 46; NO15NE 5
<b>SITE/MONUMENT TYPE(S):</b>	Clearance cairns, post-medieval rectilinear building and cultivation remains
<b>SIGNIFICANT FINDS:</b>	None
<b>NGR</b>	NO 18000 55000
<b>START DATE</b>	18 <sup>th</sup> December 2006
<b>END DATE</b>	12 <sup>th</sup> April 2007
<b>PREVIOUS WORK</b>	None
<b>MAIN (NARRATIVE) DESCRIPTION:</b>	An archaeological evaluation was carried out on the area of a proposed residential development lying to the south of Lesmahagow, South Lanarkshire. Fifteen trial trenches totalling 2850 m <sup>2</sup> were excavated over 5.7 ha of former woodland and agricultural land. The robbed-out trench for a small 19 <sup>th</sup> century structure was encountered but neither significant archaeological features nor artefacts were identified by the evaluation.
<b>PROPOSED FUTURE WORK:</b>	Further watching brief
<b>CAPTION(S) FOR ILLUSTRS:</b>	None
<b>SPONSOR OR FUNDING BODY:</b>	Scottish and Southern Energy
<b>ADDRESS OF MAIN CONTRIBUTOR:</b>	Edgefield Road Industrial Estate, Edgefield road, Loanhead, Midlothian, EH20 9SY
<b>EMAIL ADDRESS:</b>	miker@aocscot.co.uk
<b>ARCHIVE LOCATION</b>	Archive to be deposited in NMRS.





**Archaeological Works at Drumderg Wind Farm  
(Site 49) and Happy Hillock Watching Brief:**

**Data Structure Report**

**On behalf of:** *For site 49*  
Scottish and Southern Energy  
Major Projects  
Inveralmond House  
200 Dunkeld Road  
Perth  
PH1 3AQ

*For Happy Hillock*  
Scottish and Southern Energy Power  
Distribution  
Tayside and Central Depot  
PO Box 7425  
Perth  
PH1 3XR

**National Grid Reference (NGR):** NO 1800 5500

**AOC Archaeology Project No:** 20343

**Prepared by:** Erlend Hindmarch

**Illustration by:** Graeme Carruthers

**Timing:** **Fieldwork** July - October 2007  
**Report** December 2007

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## 1 NON TECHNICAL SUMMARY

1.1 This report presents the results of two programmes of archaeological works undertaken by AOC Archaeology Group during the construction of a new wind farm at Drumderg, Perthshire

1.2 The first of the sites is known as Site 49 (part of the Drumderg Wind Farm development) at which an area of rig and furrow was recorded during the construction of an access road. A watching brief at the second site, located at Happy Hillock, recorded no deposits, features or finds of any archaeologically significant value.

## 2 INTRODUCTION

### 2.1 Background

2.1.1 AOC Archaeology Group was commissioned to undertake two programmes of archaeological works during the construction of a wind farm development at Drumderg near Alyth, Perthshire (Figure 1). The first was commissioned by Scottish and Southern Energy Ltd in order to carry out a watching brief at Site 49 as specified in the prior Environmental Impact Assessment (AOC 2002) where a new access road traversed possible rig and furrow remains close to Turbine 9. The second was commissioned by Scottish and Southern Power Distribution to carry out a Watching brief on ground at Happy Hillock, Tullymurdoch (Fig. 1) where a new underground power cable was to be installed close to a burial cairn (NMRS NO15SE 1) as well as the excavation of three trenches to accommodate the erection of new overhead power cable poles and stays. Both works were designed to satisfy the requirements of the local planning authority, Perth and Kinross Council, as advised by Perth & Kinross Heritage Trust (PKHT) and are in accordance with the principles inherent in NPPG 5 and PAN 42.

### 2.2 Location (Figures 1 and 2)

2.2.1 Site 49 was located at NGR: NO 1820 5467 on the eastern side of the proposed wind farm. It occupies ground covered by moor land type vegetation and sloped toward the east. The *Happy Hillock* site was centred at NGR: NO 1997 5222 and was located toward the south-east of the wind farm development and ran through a slight valley skirting the northern side of the burial cairn. This area of ground is currently under improved pasture.

### 2.3 Archaeological Background

2.3.1 In a wider context the works for the *Archaeological and Cultural Heritage Impact Assessment* (AOC 2002) - an *Environmental Statement* (SSE 2006) - identified a total of 39 sites of archaeological or historic interest located within 1 km of the proposed locations of turbines in the development area as defined

within the Drumderg Wind Farm Environmental Statement (2006). In December 2006 a walkover was conducted prior to the production of a *Written Scheme of Investigation* (AOC 2007), and this survey, together with information from PKHT and Scottish and Southern Energy led to the identification of a further 14 sites. These were diverse remains including prehistoric cairns, settlement and field system remains and medieval and post-medieval field systems and farmstead evidence. Site 49 was identified by PKHT in December 2006 and was seen as an undulating ground surface west of Turbine 9.

- 2.3.2 The burial cairn on the *Happy Hillock* site is described as a denuded stone cairn (Coumts 1970). Three short cists containing crouched burials were found during excavation on the hillock in 1790 (Meikle 1925; Coles 1909). It is situated at the western end of a natural ridge and has a diameter of 21 m with a slight rim visible on the west, south and east sides. A drystone dyke has been built against the northern edge of the cairn (RCAHMS 1990).

### 3 OBJECTIVES

- 3.1 The objectives of the archaeological works were:
- i) to determine the character, extent and quality of any archaeologically significant remains in parts of the proposed development areas where groundbreaking works were to occur;
  - ii) given that significant archaeological deposits are discovered, the preparation of a mitigation strategy compliant with NPPG 5, NPPG 18 and PAN 42.

### 4 METHODOLOGY

- 4.1 All works followed the methodology laid out in the *Written Schemes of Investigation* (AOC 2007 and 2007a) as approved by PKHT and were in accordance with AOC Archaeological Group's standard operating procedures. All excavation was carried out using a 360 type excavator fitted with the appropriate width toothless ditching bucket under the constant presence and guidance of an experienced field archaeologist. A detailed record of both sites was undertaken including written, photographic and illustrated records. *Site 49* was visited on the 18<sup>th</sup> July 2007 in wet conditions whilst the work at *Happy Hillock* took place on 6<sup>th</sup> August 2007 also in wet conditions.
- 4.2 In addition to the two Watching Briefs the wind farm was visited once a month between July and October 2007 to ensure that the construction works did not encroach on any known archaeological sites and to check the protective fences were in place.

## 5. RESULTS

### 5.1 Introduction

5.1.1 The various data has been collated and are presented as a series of appendices.

- i) Appendix 1 contains the context register;
- ii) Appendix 2 contains the drawing register;
- iii) Appendix 3 contains the photographic register;
- iv) Appendix 4 reproduces the Discovery & Excavation entries for each of the sites.

### 5.1 Site 49 (Figures 3 and 4)

5.1.1 Prior to arrival on site the area affected had been stripped of heather and rig and furrow remains were clearly visible (Plate 1).



*Plate 1: Pre excavation view of rig and furrow from south*

5.1.2 An area of approximately 50 m by 17 m was striped of topsoil (01) by machine. This revealed an undulating surface within the underlying natural drift geology created by Rig and Furrow cultivation (Plate 2).



*Plate 2: Exposed natural geology reflecting rig and furrow cultivation*

- 5.1.3 This topsoil had a depth of 0.1 m across the tops of the rigs deepening to 0.4 within the furrows and was comprised of a black peat from which no finds were recovered. A total of three rigs were identified (02), (03) and (04) which followed the slope of the hill on a north-east to south-west alignment. Rig (04) was seen to be badly eroded and existed only as partial remains. The features were seen to extend beyond the boundary of the watching brief area. Below topsoil (01) was a compact and waterlogged brown silt, (05) and (06), filling the bases of furrows (02) and (04). No finds were recovered from these deposits. For a fuller description of the rig and furrow see Appendix 1.

## 5.2 Happy Hillock

- 5.2.1 The work in this area was carried out in two phases (Figure 5). Firstly, the excavation of three trenches for the erection of poles and associated stays to carry overhead power cables and, secondly, a long linear trench in which the new underground power cables were to be inserted. Both the three trenches and the main section of the power cable trench were located at the head of a small valley. The topsoil at the top of the valley, at the western end of the cable trench, had a depth of 0.5 m and overlay natural clay. As the trench proceeded to the east the topsoil thickened to approximately 0.8 - 0.9 m with a layer of peat separating the topsoil from the clay by up to 0.4 m in the location of the new poles as the valley deepened. No significant archaeological deposits, features or finds were observed.

## 6 CONCLUSION

- 6.1 It was clear that rig and furrow existed at *Site 49* although the preservation was variable. No dating evidence was recovered from this site however broad rig systems are found extensively around abandoned townships and farmsteads, most of them probably relating to the final stages of cultivation prior to abandonment in the early 19<sup>th</sup> century (Halliday 2001, 15).
- 6.2 The post-medieval farmstead remains to the south on the lower slopes of the Drumderg development (Site Nos.24, 26, 27, 45 and 46 – see AOC 2002) including kilns, buildings, enclosures and head-dykes seen likely to represent associated built remains contemporary with the rig and furrow.
- 6.3 At the Happy Hillock site no archaeologically significant deposits or features were observed.

## REFERENCES:

- AOC 2002 *Archaeological and Cultural Heritage Impact Assessment, Drumderg* Unpublished archive report.
- AOC 2007 *Drumderg Wind Farm; Archaeological Work: Written Scheme of Investigation*, Unpublished archive report.
- AOC 2007a *Happy Hillock Watching Brief: Written Scheme of Investigation*, Unpublished archive report.
- Coles, F R 1909 ‘Report on stone circles surveyed in Perthshire (South-East District) with measured plans and drawings; obtained under the Gunning Fellowship’, *Proc Soc Antiq Scot*, 43, 1908-9, 110
- Coutts, H 1970 *Ancient Monuments of Tayside*, Dundee, 15, No. 30
- Halliday, S 2001 ‘Rig and Furrow in Scotland’ in Barber, J (ed) *Guidelines for the Preservation of Areas of Rig and Furrow in Scotland*, STAR Monograph.
- Meikle, J 1925 *Place names around Alyth*, 100-1
- RCAHMS 1990 *The Royal Commission on the Ancient and Historical Monuments of Scotland. North-east Perth: an archaeological landscape*, Edinburgh, 18, No 24
- SODD 1999 The Scottish Office Development Department 1999. *National Planning Policy Guideline NPPG18. Planning and the Historic Environment*. April 1999.



**Drumderg Wind Farm, Site 49 and Happy Hillock: Watching Brief Reports**

- SOEnd 1994            The Scottish Office Development Department 1994. *National Planning Policy Guideline NPPG5. Archaeology and Planning*. January 1994.
- SOEnd 1994a         The Scottish Office Environment Department 1994. *Archaeology - The Planning Process and Scheduled Monument Procedures*. Planning Advice Note PAN42. January 1994.
- SSE 2006             Scottish and Southern Energy Generation Limited 2003/2006 *Drumderg Wind Farm Environmental Statement*.

Drumderg Wind Farm, Site 49 and Happy Hillock: Watching Brief Reports

APPENDIX 1: CONTEXT REGISTER

No	Site	Description	Stratigraphic relationships		Dimensions (m) exposed			
			Below	Above	L	W	H	D
01	Site 49	Top soil and turf. Compact black peat and turf. 0.1 m thick over tops of rig and up to 0.4 m over furrows		05 and 06				0.1-0.4
02	Site 49	Cut of furrow. Linear cut with curved sides and flat base. Aligned NNE-SSW following slope of hill and having a southern aspect. Extends beyond limits of excavation to the north and south. Separated from furrow (03) by 3 m.	05	07	17.0	5.0		0.5
03	Site 49	Cut of furrow. Linear cut with curved sides and flat base. Aligned NNE-SSW following slope of hill and having a southern aspect. Extends beyond limits of excavation to the north and south. Separated from(02) by 3 m and from (04) by 1.5 m.	01	07	15.5	4.0		0.4
04	Site 49	Cut of furrow. Very eroded linear cut aligned NNE-SSW. Eastern edge of cut extends for 5 m from the north and then becomes only a hint of a cut as it crosses the rest of the trench. The western edge is very erratic and eroded.	06	07	15.0	5.0-0.6		0.5
05	Site 49	Fill of cut (02). Compact and waterlogged mid brown silt. Fills base of (02). Similar to (06)	01	02		5.0		0.1
06	Site 49	Fill of cut (04). Compact and water logged mid brown silt. Fills base of (04). Similar to (02).	01	04		2.0		0.1
07	Site 49	Natural subsoil. Orange brown shattered bed rock	02, 03 and 04	LoE				
	Happy Hillock	No context numbers were given out for the Happy Hillock site						

APPENDIX 2: DRAWING REGISTER

**Plans**

No.	Site	Description	Scale
1	Site 49	General site plan	1:100

**Sections**

No.	Site	Description	Scale
1	Site 49	South-facing section of excavated area	1:20

APPENDIX 3: PHOTOGRAPHIC REGISTER

**Colour slide film 1**

No.	Site	Description	From
1		Registration	
2	Site 49	Pre ex general shot	N
3	Site 49	Pre ex general shot	N
4	Site 49	Pre ex general shot	S
5	Site 49	Pre ex general shot	S
6	Site 49	Pre ex general shot	W
7	Site 49	Pre ex general shot	W
8	Site 49	Pre ex general shot	E
9	Site 49	Pre ex general shot	E
10	Site 49	East end of site	N
11	Site 49	East end of site	N
12	Site 49	General shot	NW
13	Site 49	General shot	NW
14	Site 49	General shot of furrow, east end extent	SW
15	Site 49	General shot of furrow, east end extent	SW
16	Site 49	General shot of rig and furrow	S
17	Site 49	General shot of rig and furrow	S
18	Site 49	General shot of rig and furrow	N
19	Site 49	General shot of rig and furrow	N
20	Site 49	Close up of furrow (02)	S
21	Site 49	Close up of furrow (02)	S

**Colour slide film 2**

No.	Site	Description	From
1	Happy Hillock	Registration	
2	Happy Hillock	Working shot of excavation of new poles	S
3	Happy Hillock	Working shot of excavation of new poles	S
4	Happy Hillock	Pole erection	SW
5	Happy Hillock	Pole erection	SW
6	Happy Hillock	Happy Hillock general shot of cairn	E
7	Happy Hillock	Happy Hillock general shot of cairn	E
8	Happy Hillock	Happy Hillock general shot of cairn	S
9	Happy Hillock	Happy Hillock general shot of cairn	S
10	Happy Hillock	Happy Hillock general shot of cairn	NW
11	Happy Hillock	Happy Hillock general shot of cairn	NW
12	Happy Hillock	Happy Hillock general shot of cairn	NW
13	Happy Hillock	Happy Hillock general shot of cairn	NW
14	Happy Hillock	Working shot of cable trench at 0 m	SE
15	Happy Hillock	Working shot of excavation of cable trench at 0 m	SE

**Drumderg Wind Farm, Site 49 and Happy Hillock: Watching Brief Reports**

16	Happy Hillock	Cable trench from new pole	E
17	Happy Hillock	Cable trench from new pole	E
18	Happy Hillock	Cable trench and cairn	NE
19	Happy Hillock	Cable trench and cairn	NE

**Black and white film 1**

No.	Site	Description	From
1		Registration	
2	Site 49	Pre ex general shot	N
3	Site 49	Pre ex general shot	N
4	Site 49	Pre ex general shot	S
5	Site 49	Pre ex general shot	S
6	Site 49	Pre ex general shot	W
7	Site 49	Pre ex general shot	W
8	Site 49	Pre ex general shot	E
9	Site 49	Pre ex general shot	E
10	Site 49	General shot	N
11	Site 49	General shot	N
12	Site 49	General shot of furrow, east end extent	NW
13	Site 49	General shot of furrow, east end extent	NW
14	Site 49	General shot of rig and furrow	SW
15	Site 49	General shot of rig and furrow	SW
16	Site 49	General shot of rig and furrow	S
17	Site 49	General shot of rig and furrow	S
18	Site 49	Close up of furrow (02)	N
19	Site 49	Close up of furrow (02)	N
20	Site 49	General shot	S
21	Site 49	General shot	S

**Black and white film 2**

No.	Site	Description	From
1	Happy Hillock	Registration	
2	Happy Hillock	Working shot of excavation of new poles	S
3	Happy Hillock	Working shot of excavation of new poles	S
4	Happy Hillock	Pole erection	SW
5	Happy Hillock	Pole erection	SW
6	Happy Hillock	General shot of cairn	E
7	Happy Hillock	General shot of cairn	E
8	Happy Hillock	General shot of cairn	S
9	Happy Hillock	General shot of cairn	S
10	Happy Hillock	General shot of cairn	NW
11	Happy Hillock	General shot of cairn	NW
12	Happy Hillock	General shot of cairn	NW
13	Happy Hillock	General shot of cairn	NW
14	Happy Hillock	Working shot of cable trench at 0 m	SE
15	Happy Hillock	Working shot of excavation of cable trench at 0 m	SE
16	Happy Hillock	Cable trench from new pole	E
17	Happy Hillock	Cable trench from new pole	E
18	Happy Hillock	Cable trench and cairn	NE
19	Happy Hillock	Cable trench and cairn	NE

**Digital images download 1**

No.	Site	Description	From
1	Site 49	Pre ex shot	N

**Drumderg Wind Farm, Site 49 and Happy Hillock: Watching Brief Reports**

2	Site 49	Pre ex shot	N
3	Site 49	Pre ex shot	S
4	Site 49	Pre ex shot	S
5	Site 49	Pre ex shot	W
6	Site 49	Pre ex shot	W
7	Site 49	Pre ex shot	E
8	Site 49	Pre ex east end of site	N
9	Site 49	Pre ex east end of site	N
10	Site 49	General shot of rig and furrow	NW
11	Site 49	General shot of rig and furrow	SW
12	Site 49	General shot of rig and furrow	S
13	Site 49	General shot of rig and furrow	S
14	Site 49	General shot of rig and furrow	N
15	Site 49	General shot of rig and furrow	N
16	Site 49	Close up of furrow (02)	S

**Digital images download 2**

<b>No.</b>	<b>Site</b>	<b>Description</b>	<b>From</b>
1	Happy Hillock	Excavation for new pole	S
2	Happy Hillock	Excavation for new pole	S
3	Happy Hillock	Pole ejection	SW
4	Happy Hillock	Happy Hillock cairn	E
5	Happy Hillock	Happy Hillock cairn	S
6	Happy Hillock	Happy Hillock cairn	NW
7	Happy Hillock	Happy Hillock cairn	NW
8	Happy Hillock	Stay trench	S
9	Happy Hillock	Cable trench	SE
10	Happy Hillock	Cable trench	E
11	Happy Hillock	Cairn and cable trench	NE
12	Happy Hillock	Cable trench	NE

APPENDIX 4: DISCOVERY AND EXCAVATION IN SCOTLAND REPORTS

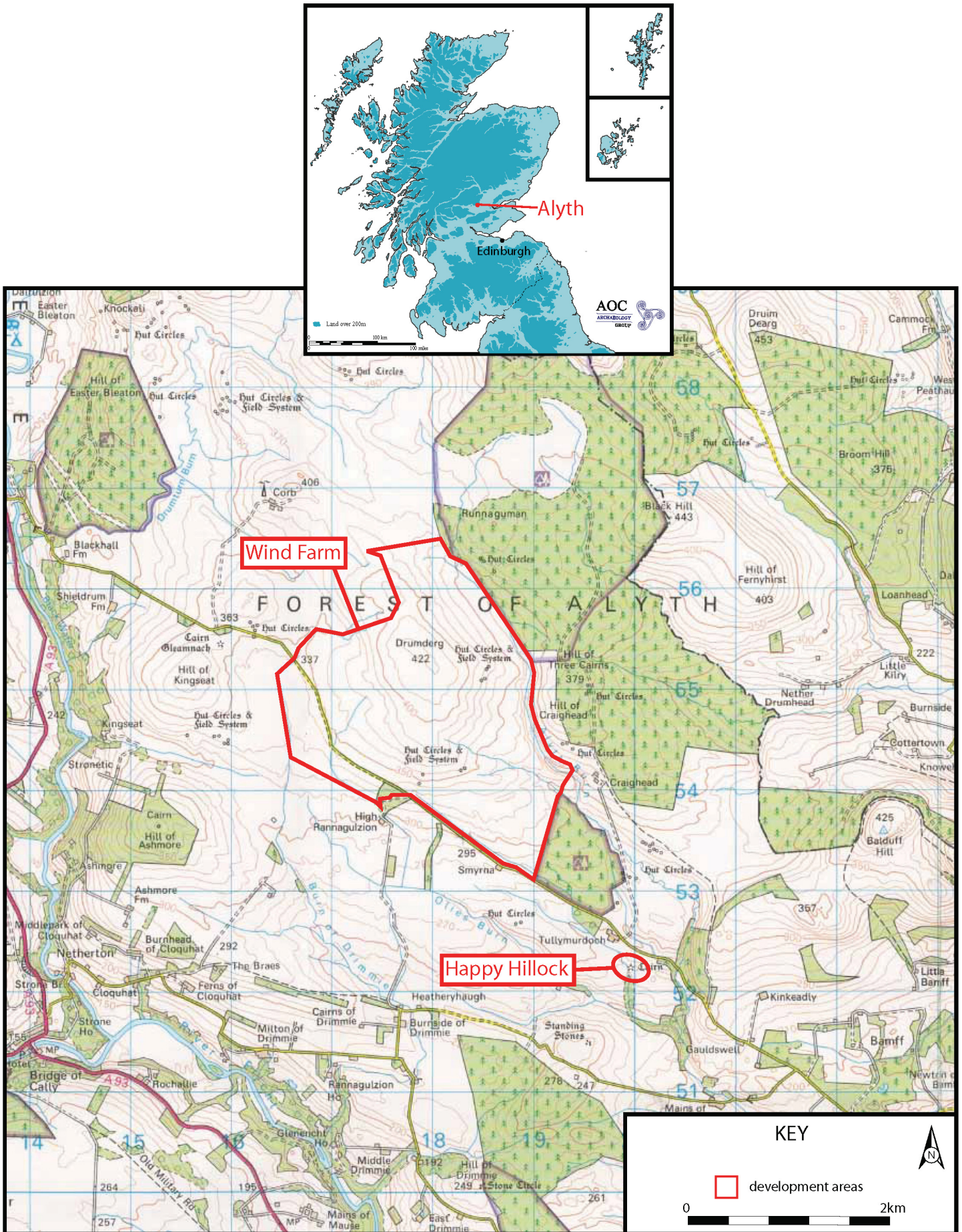
**Drumderg Wind Farm Site 49 Watching Brief**

LOCAL AUTHORITY:	Perth and Kinross
PROJECT TITLE/SITE NAME:	Drumderg Wind Farm Site 49 Watching Brief
PROJECT CODE:	20343
PARISH:	Alyth
NAME OF CONTRIBUTOR(S):	Erlend Hindmarch
NAME OF ORGANISATION:	AOC Archaeology Group
TYPES(S) OF PROJECTS:	Watching Brief
NMRS NO(S):	None
SITE/MONUMENT TYPE(S):	Rig and Furrow
SIGNIFICANT FINDS:	None
NGR:	NO 1820 5467
START DATE:	18/07/2007
END DATE:	18/07/2007
PREVIOUS WORK:	Roy. M. DES entry – works between Dec 06-April 07
MAIN DESCRIPTION:	A watching brief was conducted during the construction of a new trackway for the new Drumderg Wind Farm over possible cultivation remains. Directly below the topsoil the watching brief recorded the remains of broad rig and furrow cultivation. No dating evidence was found.
PROPOSED FUTURE WORK:	None
SPONSOR OR FUNDING	Scottish and Southern Energy
ADDRESS OF MAIN CONTRIBUTOR:	AOC Archaeology Group Edgefield Industrial Estate Edgefield Road Loanhead Midlothian EH20 9SY
EMAIL ADDRESS:	<a href="mailto:Erlend.Hindmarch@aocarchaeology.co.uk">Erlend.Hindmarch@aocarchaeology.co.uk</a>
ARCHIVE LOCATION:	NMRS

## Happy Hillock

LOCAL AUTHORITY:	Perth and Kinross
PROJECT TITLE/SITE NAME:	Happy Hillock
PROJECT CODE:	20343
PARISH:	Alyth
NAME OF CONTRIBUTOR(S):	Erlend Hindmarch
NAME OF ORGANISATION:	AOC Archaeology Group
TYPES(S) OF PROJECTS:	Watching Brief
NMRS NO(S):	NO15SE 1
SITE/MONUMENT TYPE(S):	Burial Cairn
SIGNIFICANT FINDS:	None
NGR:	NO 1998 5222
START DATE:	06/11/2007
END DATE:	06/11/2007
PREVIOUS WORK:	None
MAIN DESCRIPTION:	An archaeological watching brief was carried out during the excavation of a cable trench and foundation pits for poles and stays associated with a electrical refurbishment scheme located near the burial cairn of Happy Hillock. No deposits, features or finds of archaeological significance were observed during this work.
PROPOSED FUTURE WORK:	None
SPONSOR OR FUNDING	Scottish and Southern Energy Power Distribution
ADDRESS OF MAIN CONTRIBUTOR:	AOC Archaeology Group Edgefield Industrial Estate Edgefield Road Loanhead Midlothian EH20 9SY
EMAIL ADDRESS:	<a href="mailto:Erlend.Hindmarch@aocarchaeology.com">Erlend.Hindmarch@aocarchaeology.com</a>
ARCHIVE LOCATION:	NMRS





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Figure 1: Site location of Wind Farm and Happy Hillock



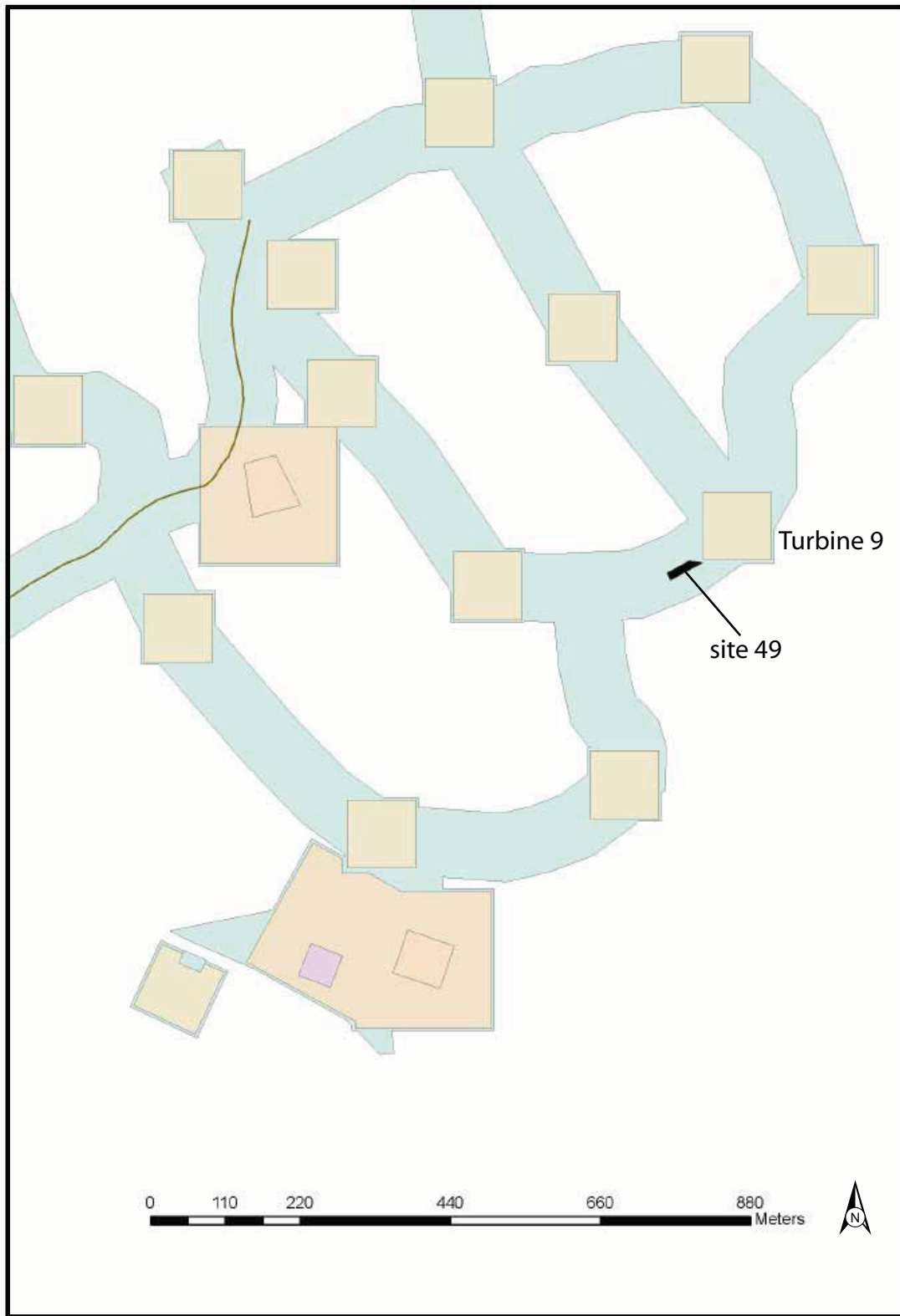


Figure 2: Plan of Drumderg Windfarm showing position of site 49 relevant to Turbine 9

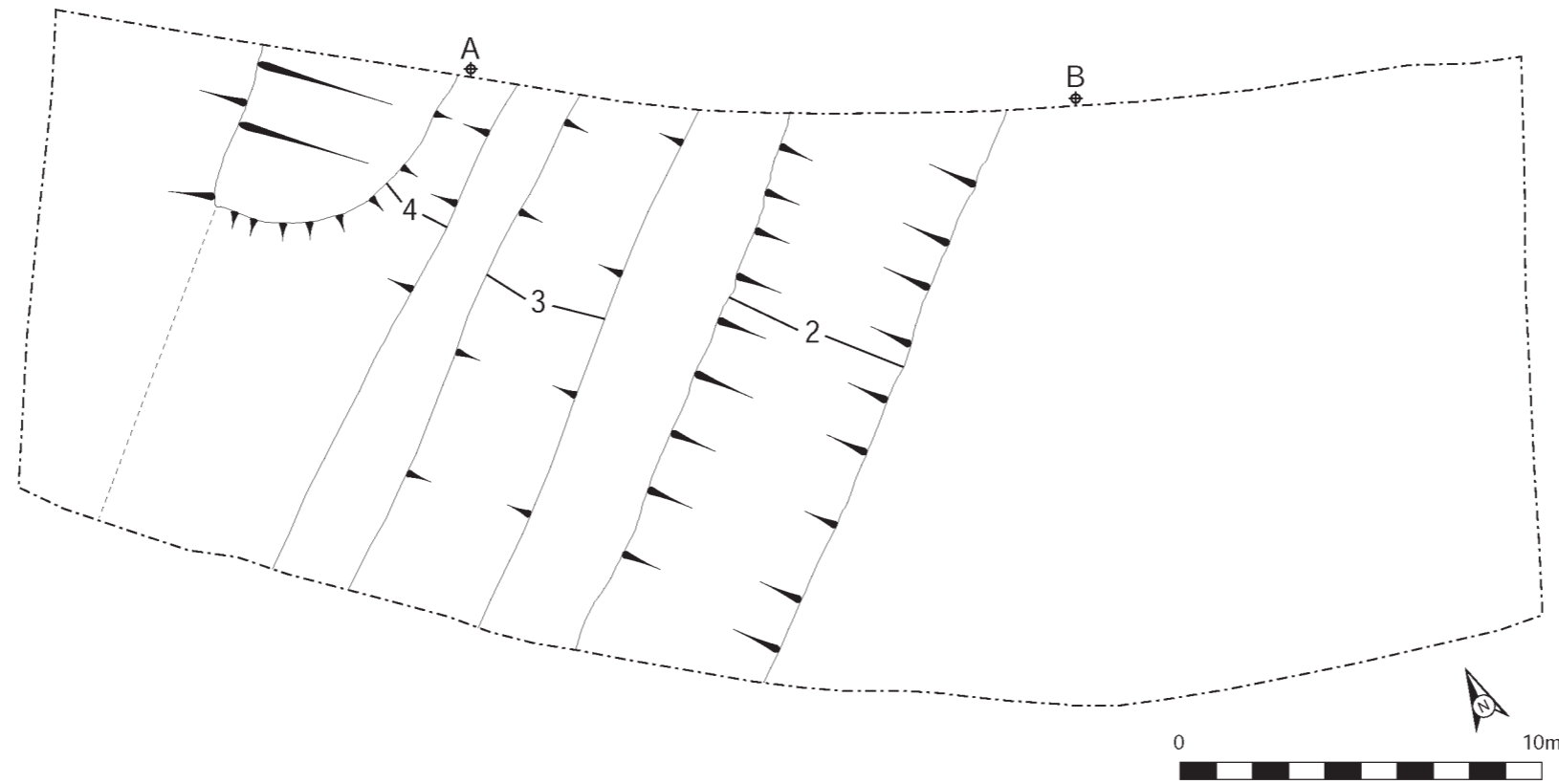


Figure 3: Plan of Site 49 watching brief area

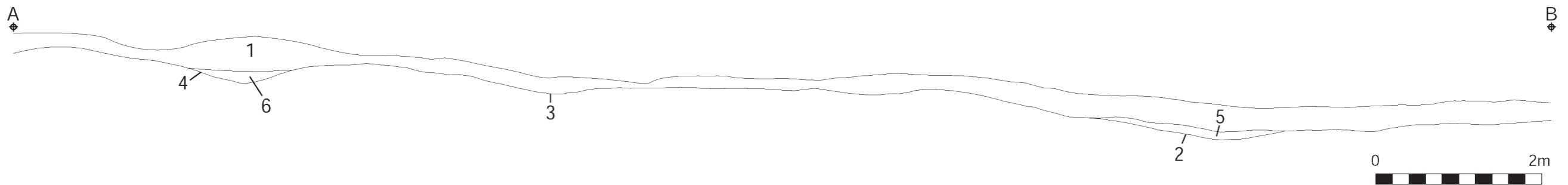


Figure 4: Section of rig and furrow at Site 49

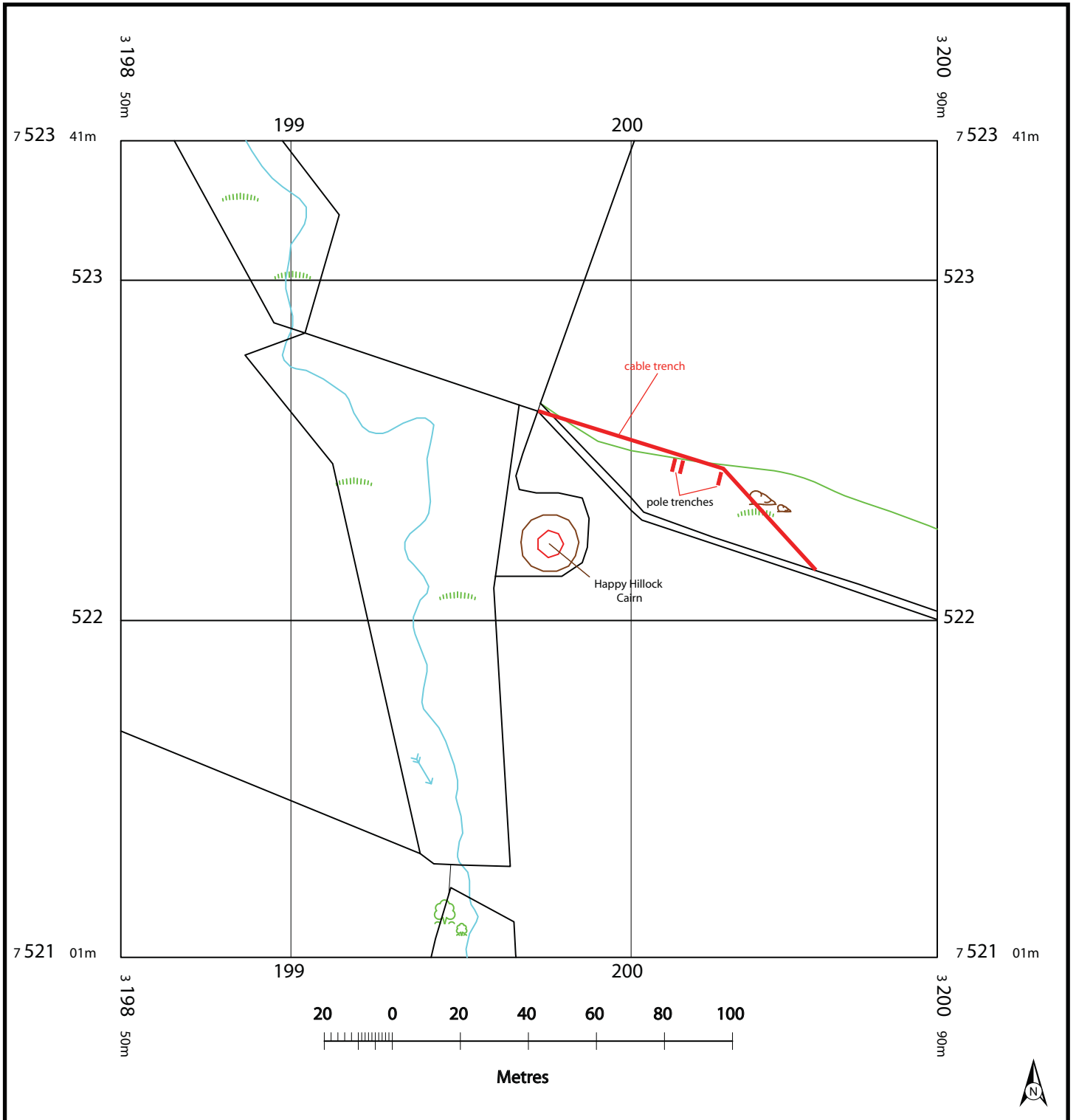


Figure 5: Plan showing the location of new underground cable trench and pole footings trenches at Happy Hillock