

# GUARD ARCHAEOLOGY



## Mydub Farm, Denny Data Structure Report Project 3311

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## **Mydub Farm, Denny**

### **Data Structure Report**

**On behalf of:** Bett Homes Scotland Ltd

**NGR:** NS 81470 81769

**Project Number:** 3311

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*This document has been prepared in accordance  
with GUARD Archaeology Limited standard operating procedures.*

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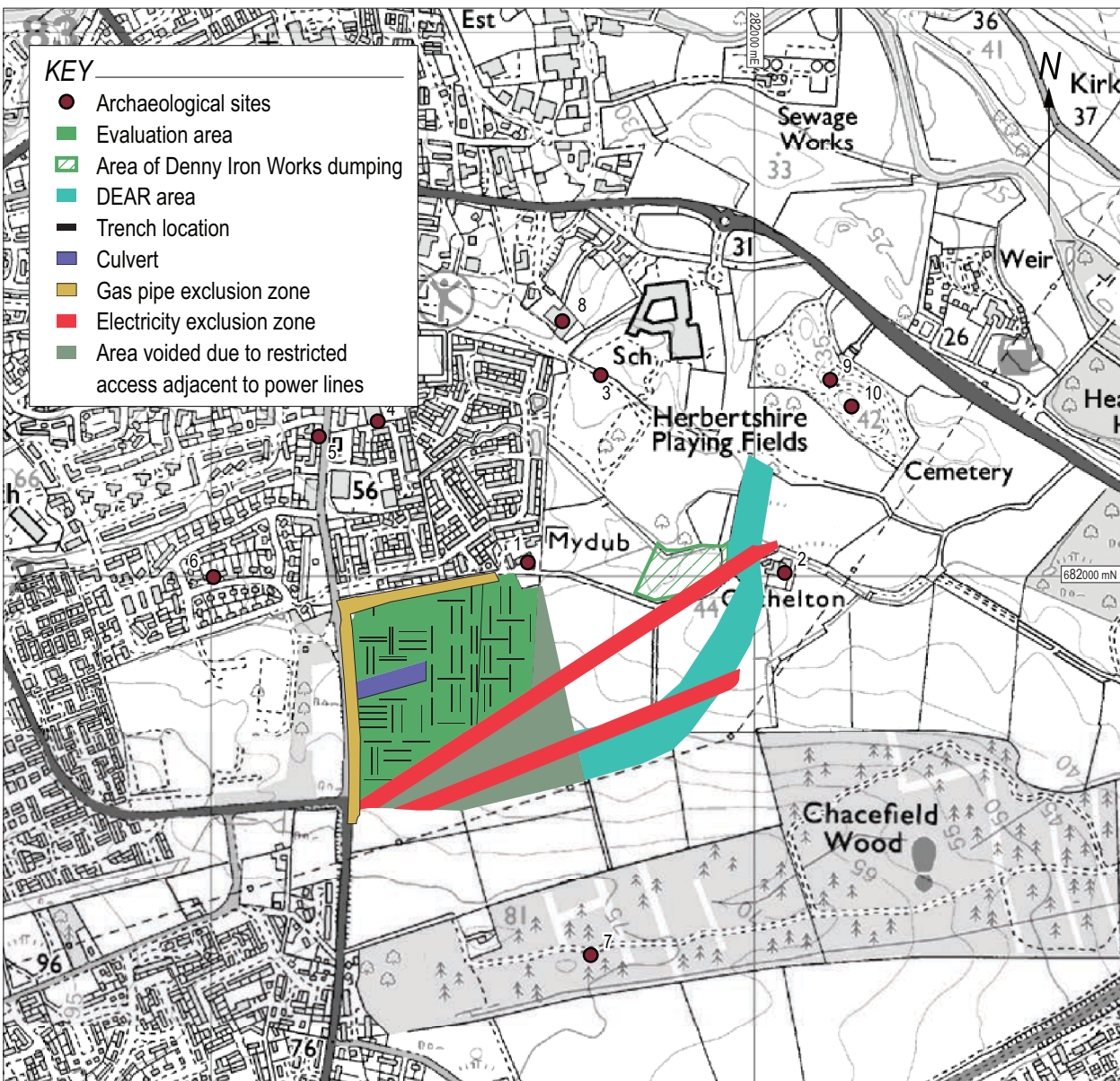
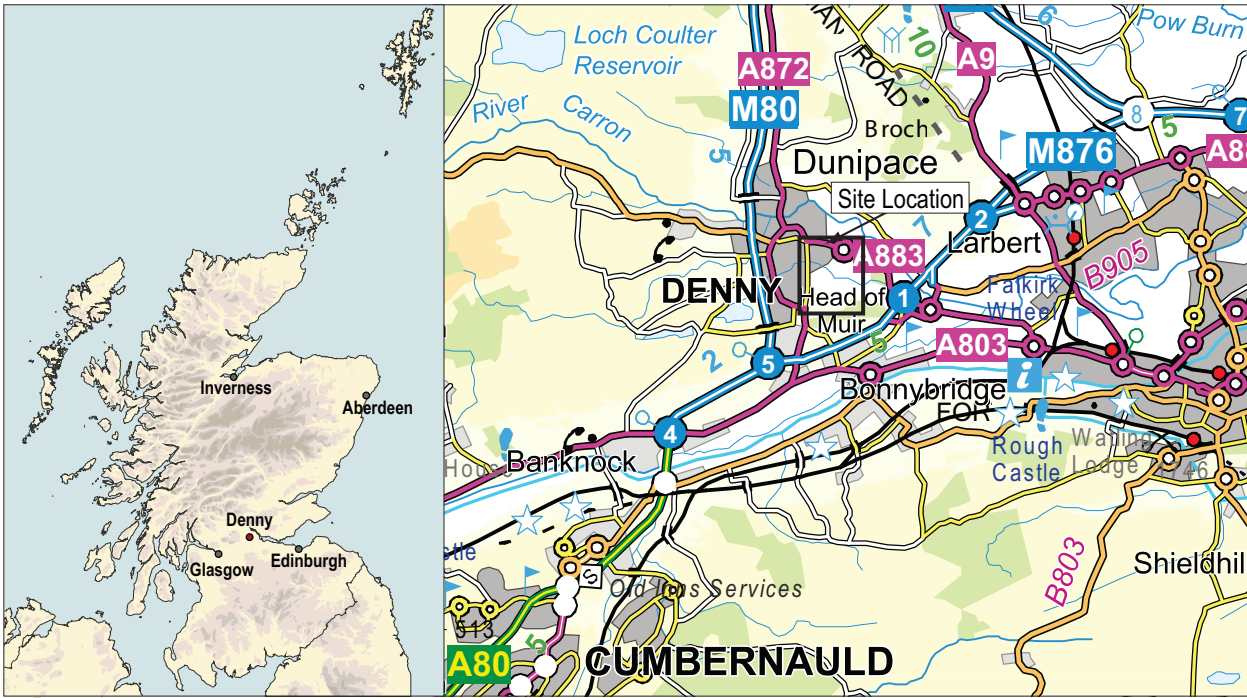
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## Executive Summary

- 1.1 An archaeological evaluation was carried out by GUARD Archaeology Limited, on behalf of Bett Homes Scotland Ltd. The area proposed for the residential development was located at Mydub Farm, to the south-east of Denny (Figure 1). The area included in the evaluation is part of the P/12/0546/FUL Development Area. The trial trenching equated to a 4.4 % evaluation of the total area for development (13.2 hectares); a portion of the development was deemed unsafe to evaluate by Scottish Power given the low height (6.2 m) of the high voltage (33Kv) power lines, an RS6 notification was issued by Scottish Power. No significant archaeological features were encountered during the evaluation. The work was undertaken between 9th and 16th March 2015.

## Introduction

- 2.1 This report sets out the results of an archaeological evaluation undertaken by GUARD Archaeology, on behalf of Bett Homes Scotland Ltd on part of the P/12/0546/FUL Development Area proposed for the construction of a residential development at Mydub Farm, to the south-east of Denny.

## Site Location, Topography and Geology

- 3.1 The P/12/0546/FUL development area was located to the immediate south of Mydub Farm (centred NGR: NS 81470 81769) and to the south-east of the town of Denny near to Falkirk. The Development Area consisted of two rectangular shaped fields, the top half of two more rectangular shaped fields and the south-west corner of another field, bounded to the north by housing estates, to the east and south by fields and to the west by Glasgow road. The available land within the development area measured 13.2 ha.
- 3.2 This particular phase of evaluation covered the development area located in the west of the overall development. The land available for evaluation comprised a series of four fields currently used for rough pasture, however evidence of cultivation of crops over a sustained period of time prior to this was visible and explained by the landowner. A number of portions within the development area had to be excluded from the evaluation including the southern periphery and eastern periphery of the area due to restrictions imposed by services but also a portion to the north-west of the development area which appeared waterlogged throughout the duration of the work.
- 3.3 The land consisted of a series of gently sloping, north facing pasture fields between 70 m AOD in the south and 45 m AOD in the north-east of the site. The underlying geology in the area comprised of an upper limestone formation sedimentary bedrock underlying a series of Devensian till deposits and glaciofluvial gravel, sands and silts.

## Archaeological Background

- 4.1 An archaeological desk-based assessment was previously undertaken by GUARD of the overall P/12/0546/FUL development area. The assessment, which included a walkover survey, identified no known sites within the P/12/0546/FUL development area, but identified the following sites within the surrounding area (Figure 1):

- Mydub (Site 1);
- Cuthelton (Site 2);
- Herbertshire Colliery (Pit No. 3) (Site 3);
- Denny Iron Works, Glasgow Road (Site 4);
- Denny Iron Works Office, 80 Glasgow Road (Site 5);
- Denny (Site 6);

- Chacefield Wood Cup and Ring Marks (Site 7);
- Duncarron Iron Works, Denny (Site 8);
- Denny Cemetery (Site 9);
- Denny & Dunipace War Memorial (Site 10).

- 4.2 The locations of all recorded cultural heritage sites within the study area are illustrated on Figure 1.
- 4.3 While no sites of prehistoric or early historic date are known within the development area itself, three polished Neolithic axehead stones (Site 6) have been found somewhere in proximity to the proposed development area. Three cup and ring marks (Site 7) in a line also occur on a large and prominent rock outcrop in Chacefield Wood, south of the development area. Further east of the development and outside the study area, an antler pick was found a mile north of Bonnybridge Golf Course and is believed to belong to the Middle Stone Age.
- 4.4 Denny became separated from the parish of Falkirk around 1618. It is depicted in Pont's map of 1580-1590, which refers to it as Denny Kirk. It is during this period that the settlement of Denny expanded. However, Grassom's 1817 map depicts an agricultural landscape around the proposed development area itself, with a house called 'Lesslie' depicted to the north of the development area. This farmstead apparently later became known as Mydub (Site 1). A more detailed depiction of this farmhouse is apparent on the first edition of the Ordnance Survey 6-inch map and on the Ordnance Survey first edition 25 inch map. Further east of the study area is Cuthelton (Site 2), a dairy courtyard farmstead.
- 4.5 Within the wider study area of the desk-based assessment, six more sites were identified, including Herbertshire Colliery pit No 3 (Site 3), Denny Iron Works (Site 4) and its associated offices (Site 5) and another ironworks, Duncarron Ironworks (Site 8). Denny cemetery (Site 9) located to the north-east, is a small knoll which has been heavily terraced and now has a war memorial (Site 10) on its summit.
- 4.6 While no previous archaeological investigations have been recorded within the development area, the desk-based assessment indicated potential, albeit low, for buried archaeological artefacts and prehistoric remains to survive within the development area.

## Aims and Objectives

- 5.1 The aim of the archaeological evaluation was to identify:
- as yet unknown archaeological features and deposits within the development area;
  - to ensure that any surviving archaeological remains, encountered during the evaluation within the development area, were recorded to an appropriate level.
- 5.2 The objectives were therefore to:
- Conduct an archaeological evaluation within the development area to establish the presence or absence of any archaeological remains, and their character, date and extent if surviving;
  - Submit a report to data structure level for approval to the Falkirk Council Keeper of Archaeology and Local History, acting on behalf of Falkirk Council, on completion of the archaeological fieldwork, which includes an outline of the scope of any further excavation works should any significant archaeology be encountered.
- 5.3 The scope of the archaeological works established:
- that if the archaeological evaluation encounters no significant archaeological remains



within the development area, no further archaeological fieldwork will be required within that specific area of the development.

## Methodology

- 6.1 The programme of archaeological works adhered to the agreed Written Scheme of Investigation (see Appendix D) with minor changes owing to live services and ground conditions.
- 6.2 All trenches were excavated by mechanical excavator, utilizing a c 2 m wide flat-bladed (toothless) ditching bucket under the direct supervision of a GUARD archaeologist, down to the first archaeological horizon or to natural subsoil, whichever was encountered first. The depth of stratigraphy apparent in all trenches was recorded.
- 6.3 A representative section was recorded denoting depth of topsoil, any stratigraphy present and the nature of the soil. This information was logged in the day book together with a sketch drawn to scale and a photographic record of deposits encountered during trenching.
- 6.4 On completion of the recording of the evaluation trenches, the backfilling of trenches was undertaken by machine. No specialist backfilling was proposed, nor was the backfilling of trenches supervised by the on-site archaeologist.

## Results

- 7.1 During the course of the evaluation 60 trenches were excavated in total. These comprised 56 x 50 m trenches, 2 x 30 m trenches, 1 x 20 m trench and 1 x 15 m trench. The distribution of these trenches was altered due to the location of a number of services crossing the development area north-east to south-west across the southern portion of the area (Figure 2). A wide waterlogged channel cutting the development area in the same orientation to the north of the site also restricted the trench layout.
- 7.2 The trenches located in the south-west area of the development lay on a gently sloping north facing slope (Figure 2). Trenches 4 - 9 appeared to be relatively waterlogged in nature with a compact mid orange/grey clay silt subsoil 002 across the slope. This subsoil deposit appeared relatively sterile in nature with slight inclusions of stone. Directly above this deposit, a characteristic topsoil 001 deposit existed across site, comprising of a medium compact dark brown/grey silty matrix with evidence of stone and modern plastic inclusions throughout. The topsoil varied in thickness across the slope between 0.28 m and 0.40 m. There was evidence of failing rubble filled drains orientated north/south down-slope. These drains appeared relatively recent in nature, of nineteenth to twentieth century date with no evidence of any archaeological features present within any of the trenches evaluated. The field appeared well cultivated with evidence of modern and current plough furrows visible on the ground.
- 7.3 Directly to the north of these trenches in the neighbouring field, trenches 47 - 50 were excavated (Figure 2). These appeared relatively well draining in nature extending down slope to a waterlogged channel extending across the centre of the field east to west. The subsoil consisted an orange/grey mottled clay subsoil 002 with frequent stone inclusions. Directly above this lay a shallow topsoil deposit consisting of a dark brown/grey moderate compact silty loam with frequent root and stone inclusions 001. This deposit varied in thickness across slope in this area between 0.24 m and 0.35 m. The subsoil displayed signs of modern plough scarring across the crest of the hill running in a north/south orientation.



*Plate 1: General view of North West fields from the South East of site.*



Figure 2:  
Trench location.

- 7.4 To the north of this field again, directly across slope from a waterlogged drainage channel a series of trenches were located on an area of high ground within the waterlogged surroundings. Trenches 37 -40 and 42 - 43 were excavated. These trenches displayed a very compact light grey/mid orange clay subsoil 002 with evidence of stone and pebble inclusions throughout. Directly above this deposit was a shallow moderate compact dark brown/grey silty topsoil 001 measuring between 0.24 m and 0.31 m thick. This appeared relatively disturbed by modern agricultural activity.
- 7.5 To the east of these fields lay a singular larger field, across a gently sloping north facing slope. This contained trenches 18 - 33. This field appeared less waterlogged and intensively cultivated than the southern and western fields containing a mid orange/grey silty gravel subsoil 002, with many stone and pebble inclusions throughout. Directly above this a dark brown, loose compact silty loam topsoil 001, was present displaying the same characteristics as seen in other fields undulating between a depth between 0.24 m and 0.38 m across the hillside.
- 7.6 The final field in the west of the development area, displayed similar characteristics to the previous field. This area sloped gently to the north and was the location for trenches 51 - 62. These trenches revealed a subsoil consisting of mid orange/brown silty gravel 002 with many



stone and pebble inclusions throughout. Directly above this deposit, mid-slope, a secondary intermediate or ploughsoil layer 003 was visible. This consisted of a mid-brown loam/gravel/silt with frequent pebble and stone inclusions throughout. This layer existed in a number of trenches, trench 56 - 59 and 61 - 62 and varied in thickness between 0.16 m and 0.25 m. Directly above this lay a mid to dark brown loose silty topsoil deposit 001 with a thickness of between 0.23 m and 0.40 m. This appeared disturbed in nature with inclusions of modern plastic and refuse throughout.



*Plate 2 : General view of North/Central fields from the South of site.*



*Plate 3 : Section of trench 56 showing Topsoil (001), Intermediate layer (003) and Subsoil (002)*

7.7 No archaeological finds or features of any significance were encountered.

## Discussion

8.1 The evaluation across the development area has shown that no archaeological features survive within any of the evaluation trenches. Evidence of deep cultivation marks within the subsoil interface coupled with relatively shallow topsoil deposits, particularly upslope, in some way accounts for the paucity of any archaeological deposits across this hillside. The presence of deeper deposits downslope in the North of the development area and intermediate/ploughsoil layers may have provided greater potential for the survival of archaeology but the evaluation revealed no evidence of archaeological deposits here. The level of disturbance relating to the complex drainage system across this area, and the site in general, may have exacerbated the level of disturbance across the site.



*Plate 4 : General shot of plough scarring in trench 43a.*

## Recommendations

9.1 The evaluation work has shown that no archaeologically sensitive deposits or features exist within the area evaluated in this proposed development. In consequence, it is recommended that no further archaeological work is required within the overall P/12/0546/FUL development area. The area associated with dumping from the Denny Iron Works (Figure 1) has been shown to consist of up to 3 m of infill and as a result no archaeological evaluation will be required for this area.

9.2 GUARD would stress that these recommendations are intended for guidance only. While the recommended mitigation strategy was developed following consultation with the Falkirk Council Keeper of Archaeology and Local History, final decisions on the nature and extent of any future archaeological work rest with the planning authority.

- 9.3 A summary of the project results will be submitted to Discovery and Excavation in Scotland. A copy of this is included in Appendix C. The archive for the project, including a copy of the report, will be submitted to the National Monuments Records for Scotland within six months.
- 9.4 The online OASIS form at <http://ads.ahds.ac.uk/project/oasis> (OASIS Reference: guardarc1-206608) will be completed within 3 months. Once the Data Structure Report has become a public document by submission to or incorporation into the SMR, the WoSAS archaeologist will validate the OASIS form thus placing the information into the public domain on the OASIS website.

## Acknowledgements

- 10.1 GUARD would like to thank Andrew Riddle and Julie Leece of Bett Homes Scotland Ltd for their assistance. Thanks also to Mr Hamish Taylor, the farm owner for his continued patience throughout the duration of the project. Thanks also to Geoff Bailey, acting on behalf of Falkirk Council for his advice prior to the works commencing and during his site visit. Plant and drivers were supplied by Brown Plant Hire Ltd. The evaluation was directed by Kevin Mooney and Beth Spence with assistance from John-James Atkinson. A survey of trench locations was conducted by Fiona Jackson. The illustrations were produced by Fiona Jackson. The report was desk top published by Gillian McSwan. The project was managed for GUARD by Warren Bailie.

**Mydub Farm, Denny  
Data Structure Report**

**Section 2: Appendices**



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## Appendices

### Appendix A: Trench Records

Tr No	Length (m)	Width (m)	Depth (m)	Topsoil/Overburden	Intermediate Layer	Subsoil	Details
4	50	2	0.4	001 – Medium compact dark brown silty with many stone and some plastic inclusions throughout. Extends to a depth of 0.35m.	-	002 – Medium compact orange/grey clay silt with many stone and large boulder inclusions throughout.	No archaeology present
5	50	2	0.5	001 - Medium compact dark brown silt with some stone inclusions. Extends to a depth of 0.30m.	003 - Medium compact light brown/grey loam/silt with some stone inclusions. Extends to a depth of 0.20m.	002 - Medium compact orange/grey silty clay with some stone inclusions.	No archaeology present
5B	50	2	0.3	001 - Medium compact dark grey/brown waterlogged silty loam with many stone inclusions. Extends to a depth of 0.28 m.	-	002 - Well compacted orange/grey silty clay with some stone inclusions.	No archaeology present
6	50	2	0.45	001 - Medium dark brown/grey silt with some stone inclusions. Extends to a depth of 0.35m to 0.40m.	-	002 - Medium compact orange/grey silty clay with some stone and boulder inclusions.	No archaeology present
7	50	2	0.42	001 - Medium dark brown/grey silt with some stone inclusions. Extends to a depth of 0.38m.	-	002 - Medium orange silty clay with some stone and boulder inclusions.	No archaeology present
8	50	2	0.48	001 - Medium dark brown/grey silt with some stone inclusions. Extends to a depth of 0.40m.	-	002 - Medium orange/grey silty clay with some stone inclusions.	Rubble drain running North to South 20m from West end, a pit located 7m from West end and another rubble drain running North to South 8m from West end. No archaeology present.
9	50	2	0.35	001 - Loose dark brown grey silty loam with frequent small stone and root inclusions. Extends to a depth of 0.29m.	-	002 - Very compact light beige orange silt clay with occasional small stone inclusions.	Plough scars running from the North-West to the South-East. No archaeology present.
18	50	2	0.32	001 - Loose dark brown grey silty loam with frequent small stone and root inclusions. Extends to a depth of 0.28m.	-	002 - Very compact mid orange brown silty sandy gravel with frequent stone inclusions.	No archaeology present
19	50	2	0.27	001 - Loose dark grey brown silty loam with frequent small stone inclusions and roots. Extends to a depth of 0.24m.	-	002 - Very compact mid orange sandy silt frequent stone inclusions.	A field drain running North to South and another running East to West that has been left covered over this area. No archaeology present.



Tr No	Length (m)	Width (m)	Depth (m)	Topsoil/Overburden	Intermediate Layer	Subsoil	Details
20	50	2	0.33	001 - Loose to moderate dark brown grey silty loam with frequent small stone inclusions and roots. Extends to a depth of 0.26m.	-	002 - Very compact mid orange silty gravel with frequent stone inclusions.	No archaeology present
20B	50	2	0.35	001 - Medium dark grey brown silty loam with frequent stone inclusions. Extends to a depth of 0.30m.	-	002 - Medium compacted orange grey silty clay with some stone inclusions.	No archaeology present
21	50	2	0.4	001 - Loose to moderate dark brown grey silty loam with frequent small stone inclusions and roots. Extends to a depth of 0.32m.	-	002 - Very compact orange beige brown silt gravel clay with frequent stone inclusions.	Cut short 12m from South field drain. No archaeology present.
21B	50	2	0.4	001 - Medium compacted dark grey brown silty loam with some stone inclusions. Extends to a depth of 0.28m to 0.32m.	-	002 - Medium compacted orange grey clay silt with some stone inclusions.	No archaeology present
22	50	2	0.25	001 - Loose to moderately compacted dark grey brown silty loam with frequent small stones inclusions and roots. Extends to a depth of 0.22m.	-	002 - Very compact light mid orange beige grey silt clay.	Ceramic drain running North to South.
23	50	2	0.45	001 - Loose to moderately compacted dark grey brown silty loam with frequent small stones inclusions and roots. Extends to a depth of 0.24m.	003 - Moderately compacted mid brown silt with small stone inclusions. Plough soil. Extends to a depth of 0.16m.	002 - Very compact light mid beige orange silty clay with frequent stone inclusions.	Rubble drain running North-West to South-East. No archaeology present.
23B	50	2	0.4	001 - Medium compacted dark grey brown silt with some stone inclusions. Extends to a depth of 0.30m.	-	002 - Medium compacted orange grey silty clay with some stone inclusions.	No archaeology present
24	50	2	0.31	001 - Loose to moderately compact dark brown grey silty loam with frequent small stone and root inclusions. Extends to a depth of 0.26m.	-	002 - Very compact light to mid beige orange brown silty clay with frequent stones and infrequent gravel.	Field drain running North to South. No archaeology present.
25	50	2	0.3	001 - Loose to moderately compact dark brown grey silty loam with frequent small stone and root inclusions. Extends to a depth of 0.26m.	-	002 - Very compact mid brown orange silty gravel with frequent stone inclusions.	Shortened by 10m at the North end - large water pipe area. No archaeology present.

Tr No	Length (m)	Width (m)	Depth (m)	Topsoil/Overburden	Intermediate Layer	Subsoil	Details
26	50	2	0.4	001 - Loose dark brown grey silty loam with stone and pebble inclusions. Extends to a depth of 0.26m to 0.35m.	-	002 - Very compact mid orange beige silty clay gravel with frequent stone inclusions.	Rubble drain running from the North-West to the South-East.
28	50	2	0.35	001 - Loose to moderately compact dark brown grey silty loam with frequent small stone and root inclusions. Extends to a depth of 0.30m.	-	002 - Very compact mid brown orange silty gravel with frequent stone inclusions.	Plough scars running from the North to the South and a field drain running North-West to South-East. Depth not reached at the South extent - withing backfilled gully with water pipe.
29	50	2	0.55	001 - Loose to moderately compact dark brown grey silty loam with frequent small stone inclusions. Extends to a depth of 0.29m.	003 - Moderately compacted mid brown silt with small stone inclusions and occasional roots. Plough soil. Present at the South extent. Extends to a depth of 0.18m.	002 - Very compact mid orange brown silty sandy gravel with frequent stone inclusions.	Backfilled gully section at middle not taken to depth - 0.10m - Containing water drain - as Trench 30. No archaeology present.
30	50	2	0.7	001 - Loose to moderately compact dark grey brown silty loam with frequent small stone inclusions and roots. Extends to a depth of 0.38m.	003 - Moderately compact mid brown silt with gravel and frequent small stone inclusions. Plough soil. Present at South end - 0.15m. Extends to a maximum depth of 0.32m.	002 - Very compact mid orange brown silty sandy gravel with frequent stone inclusions.	Section 0.10m in centre of trench not to depth - restricted by presence of water drain. Backfilled channel here as seen in Trench 58 and 60. Field drain running North-West to South-East and rubble drain running East to West. No archaeology present.
31	50	2	0.34	001 - Loose to moderately compact dark brown grey silt. Extends to a depth of 0.26m.	-	002 - Very compact mid beige grey brown silty clay.	Cut short 26m from the South extent. Field drain running North to South along trench. No archaeology present.
32	50	2	0.5	001 - Loose to moderately compact dark brown grey silty loam with frequent small stones, pebbles and root inclusions. Extends to a depth of 0.28m.	003 - Moderately compact mid brown silt with frequent small stones and occasional root inclusions. Extends to a depth of 0.15m.	002 - Very compact light to mid beige orange brown silty clay gravel with frequent stone inclusions.	Rubble drains running East to West and North-West to South East. No archaeology present.
33	50	2	0.32	001 - Loose to moderately compact dark brown grey silty loam with frequent small stone inclusions and roots. Extends to a depth of 0.27m.	-	002 - Very compact light orange grey beige silty clay with frequent stones and some gravel inclusions.	Plough scars visible running North to South and two rubble field drains running North-West to South-East and East to West. No archaeology present.

Tr No	Length (m)	Width (m)	Depth (m)	Topsoil/Overburden	Intermediate Layer	Subsoil	Details
37	15	2	0.29	001 - Loose to moderately compact dark brown grey silty loam with frequent small stone, pebble and root inclusions. Extends to a depth of 0.24m.	-	002 - Very compacted mid orange grey brown silty clay with frequent small stone inclusions.	Visible plough scars running North to South and a rubble drain running North-West to South-East. No archaeology present.
38A	50	2	0.31	001 - Loose to moderately dark brown grey silty loam with frequent small stone, pebble and root inclusions. Extends to a depth of 0.26m.	-	002 - Very compacted mid brown grey orange silty clay gravel with frequent sandstone inclusions.	Visible plough scars running North to South and a rubble drain running North to South. No archaeology present.
38B	50	2	0.38	001 - Loose to moderately compacted dark grey brown silty loam with frequent small stone, pebble and root inclusions. Extends to a depth of 0.31m.	-	002 - Very compacted mid brown orange silt with frequent stone inclusions, up to 0.3m x 0.2m and gravel.	Field drain running South-South-West to North-North-East and a rubble field drain running North-West to South-East. Visible plough scars running North to South. No archaeology present.
39A	50	2	0.32	001 - Loose to moderately compact dark brown grey silty loam with frequent small stone, pebble and root inclusions. Extends to a depth of 0.27m.	-	002 - Very compacted light to mid grey orange beige silty clay with frequent stone inclusions (quite rubblely).	Visible plough scars running North to South. No archaeology present.
39B	50	2	0.3	001 - Loose to moderately dark brown grey silty loam with frequent small stone, pebble and root inclusions. Extends to a depth of 0.24m.	-	002 - Very compact mid beige orange grey silty clay with frequent small stones and some large rubble stone inclusions.	Visible plough scars running North to South. Rubble drain running North-West to South-East. No archaeology present.
40A	50	2	0.35	001 - Loose to moderately compact dark brown grey silty loam with frequent small pebble and root inclusions. Extends to a depth of 0.30m.	-	002 - Very compacted mid brown orange silty clay with frequent small stone inclusions.	Rubble drain running West-South-West to East-North-East. No archaeology present.
40B	50	2	-	001 - Loose to moderately compacted dark brown grey silty loam with frequent small stone, pebble and root inclusions.	003 - Moderately to very firm mid brown silt with frequent small stone inclusions. Plough soil.	002 - Very compact mid grey brown orange silty gravel and silty clay subsoil with frequent stone inclusions.	Two rubble drains running North-East to South-West and North to South. No archaeology present.
40C	50	2	0.29	001 - Loose to moderately compact dark brown grey silty loam with frequent small pebble and root inclusions. Extends to a depth of 0.24m.	-	002 - Very compacted mid orange grey brown silty clay with frequent small stone inclusions and gravel.	Rubble drain running East to West. No archaeology present.

Tr No	Length (m)	Width (m)	Depth (m)	Topsoil/Overburden	Intermediate Layer	Subsoil	Details
42A	50	2	0.34	001 - Loose to moderately compact dark brown grey silty loam with frequent small stone and root inclusions. Extends to a depth of 0.28m.	-	002 - Very compact light to mid grey orange clay silt and silt with frequent small stone inclusions.	Field drain running East-North-East to West-South-West and a rubble drain running North-East to South-West. No archaeology present.
42B	50	2	0.3	001 - Loose to moderately compact dark brown grey silty loam with frequent small stone, pebble and root inclusions. Extends to a depth of 0.26m.	-	002 - Very compact mid orange beige grey silty clay with frequent small stone inclusions.	Field drains running North-East to South-West. No archaeology present.
43A	50	2	0.28	001 - Loose to moderately compact dark brown grey silty loam with frequent stone and small root inclusions. Extends to a depth of 0.24m.	-	002 - Very compact light orange grey beige silty clay with frequent stone inclusions.	Visible plough scars running North to South and rubble drains running East to West. No archaeology present.
43B	50	2	0.33	001 - Moderately compact dark brown grey silty loam with frequent small stone and root inclusions. Extends to a depth of 0.27m.	-	002 - Very compact light grey beige orange silty clay with frequent stone inclusions.	Field drain running North-West to South-East and a rubble drain running East to West. No archaeology present.
47A	50	2	0.32	001 - Loose to moderately compacted dark brown grey silty loam with frequent small stone and root inclusions. Extends to a depth of 0.29m.	-	002 - Very compacted light orange grey beige silty clay with occasional to frequent stone inclusions.	Visible plough scars running North to South. No archaeology present.
47B	50	2	0.39	001 - Loose to moderately compacted dark brown grey silty loam with frequent small stone and root inclusions. Extends to a depth of 0.33m.	-	002 - Very compact light orange grey beige silty clay with fairly frequent stone inclusions.	Visible plough scars running North to South. No archaeology present.
47C	50	2	0.38	001 - Loose to moderately compacted dark brown grey silty loam with frequent small stone and root inclusions. Extends to a depth of 0.34m.	-	002 - Very compact light orange beige grey silty clay with fairly frequent stone inclusions.	Visible plough scars running North to South. No archaeology present.
47D	50	2	0.35	001 - Medium to loose dark brown grey silty loam with frequent stone and root inclusions. Extends to a depth of 0.28m to 0.32m.	-	002 - Medium compact orange grey clay silt with some stone inclusions.	Waterlogged deposits. No archaeology present.
48A	50	2	0.3	001 - Loose to moderately compact dark brown grey silty loam with frequent small stone and root inclusions. Extends to a depth of 0.24m.	-	002 - Very compact mid grey orange brown silty clay with frequent sandstone inclusions.	Visible plough scars running North to South. No archaeology present.



Tr No	Length (m)	Width (m)	Depth (m)	Topsoil/Overburden	Intermediate Layer	Subsoil	Details
48B	50	2	0.38	001 - Moderately compact dark brown grey silty loam with frequent small stone and root inclusions. Extends to a depth of 0.30m.	-	002 - Very compact light grey beige orange silty clay with small stone inclusions and occasional gravel.	Visible plough scars running North to South. One modern pit containing glazed china, etc. - topsoil fill, possibly a burrow or modern animal burial. No archaeology present.
48C	50	2	0.35	001 - Loose to moderately compact dark brown grey silty loam with frequent small pebble inclusions. Extends to a depth of 0.35m.	-	002 - Very compact mid orange grey brown silty clay with frequent stone inclusions.	No archaeology present
49	50	2	0.32	001 - Loose to moderately compact dark brown grey silty loam with frequent small stone and root inclusions. Extends to a depth of 0.27m.	-	002 - Very compact light orange beige grey silty clay with fairly frequent stone inclusions.	Visible plough scars running North to South. No archaeology present.
50	50	2	-	001 - Loose to moderately compact dark brown grey silty loam with frequent small stone and root inclusions.	-	002 - Very compact light beige brown orange silty clay with frequent stone inclusions.	Rubble drain running North to South and visible plough scars running North to South. No archaeology present.
51	40	2	0.32	001 - Loose dark brown grey silty loam with frequent small stone and root inclusions. Extends to a depth of 0.27m.	-	002 - Very compact light beige grey brown sandy clay with frequent small stone inclusions.	Ceramic drain running North to South. Short by 10m due to power line. No archaeology present.
51B	50	2	0.45	001 - Medium compacted dark grey brown silty loam with frequent stone inclusions. Extends to a depth of 0.35m to 0.40m.	-	002 - Medium compacted orange grey clay silt with some stone inclusions.	No archaeology present
52	50	2	0.33	001 - Loose dark brown grey silty loam with frequent small stones and root inclusions. Extends to a depth of 0.28m.	-	002 - Very compacted light to mid grey brown mottled orange sandy clay gravel with frequent stone inclusions.	Ceramic drains running North-West to South-East. No archaeology present.
53	50	2	0.35	001 - Loose dark brown grey silty loam with frequent stone and root inclusions. Extends to a depth of 0.29m.	-	002 - Very compact light to mid brown grey sandy clay with small stone inclusions. Brown gravel at North extent.	A rubble field drain and a ceramic field drain both running North to South. No archaeology present.
54	50	2	0.36	001 - Loose dark brown grey silty loam with frequent small stone and root inclusions. Extends to a depth of 0.28m.	-	002 - Very compact mid orange brown silty sandy gravel with frequent stone inclusions.	Rubble and ceramic field drains running North to South and a possible furrow, 3m in width, brown silty fill with frequent stone inclusions, running North-East to South-West. No archaeology present.

Tr No	Length (m)	Width (m)	Depth (m)	Topsoil/Overburden	Intermediate Layer	Subsoil	Details
55	50	2	0.3	001 - Loose dark brown grey silty loam with small stone and root inclusions. Extends to a depth of 0.24m.	-	002 - Very compact mid orange grey brown silty clay with frequent stone inclusions of up to 0.15m x 0.10m in size.	Possible field drain running North to South. No archaeology present.
56	50	2	0.9	001 - Loose dark brown grey silty loam with frequent small stone and root inclusions. Extends to a depth of 0.27m.	003 - Moderately compact mid brown grey silty loam with frequent small stone and root inclusions. Plough soil. Present in the North extent and the middle.	002 - Very compact mid orange brown silty gravel with frequent stone inclusions. Very undulating.	Sondage to 1m to establish depth at the middle of trench - silty intermediate in this area. No archaeology present.
57	50	2	0.45	001 - Loose dark brown grey silty loam with frequent small stone and root inclusions. Extends to a depth of 0.29m.	003 - Moderately compact light to mid brown sand silt with the occasional small stone inclusion. Extends to a depth of 0.16m.	002 - Very compact light beige grey mottled yellow sandy clay with frequent stone inclusions.	Burst ceramic drain and a rubble drain running East to West. Another rubble drain is running North-East to South-West and tile drains are within rubble near surface. No archaeology present.
57B	50	2	0.4	001 - Medium to loose compacted dark brown grey silty loam with frequent stone and root inclusions. Extends to a depth of 0.35m.	-	002 - Medium compacted grey orange silty clay with some stone inclusions.	No archaeology present
58	50	2	0.75	001 - Loose dark brown grey silty loam with small stone, root and gravel inclusions. Extends to a depth of 0.23m.	003 - Moderately compact mid brown silt with small stone inclusions and the occasional small root inclusion. Extends to a depth of 0.20m. Plough soil.	002 - Very compact light to mid brown grey gravel and sandy clay subsoil with frequent small stone and dark mineral flack inclusions.	Rubble and ceramic drains running East to West. One ceramic drain is burst at the top. No archaeology present.
59	50	2	0.6	001 - Loose dark grey brown silty loam with frequent small stone inclusions and roots. Extends to a depth of 0.27m.	003 - Moderately compacted mid brown gravelly silt with frequent small stone inclusions. Plough soil. Present at the North extent. Extends to a depth of 0.23m.	002 - Very compact mid orange to brown silty gravel with frequent stone inclusions, up to 0.2m x 0.2m in size.	No archaeology present
60	50	2	0.4	001 - Loose dark brown grey silty loam with frequent small stone and root inclusions. Extends to a depth of 0.30m.	-	002 - Very compact light to mid brown grey silty sandy gravel (more gravelly at the North extent) with frequent stone inclusions.	Rubble drains running East to West and North-West to South East. No archaeology present.
61	50	2	-	001 - Loose dark brown grey silty loam with frequent stone and root inclusions. Extends to a depth of 0.23m.	003 - Moderately compact mid to dark brown silt with frequent small stone and gravel inclusions. Plough soil. Extends to a depth of 0.29m.	002 - Very compact mid orange to light to mid brown grey silty gravel and sandy gravel clay with frequent stone inclusions.	Possible rubble drain running North-East to South-West. Rubble drains running North to South. No archaeology present.

Tr No	Length (m)	Width (m)	Depth (m)	Topsoil/Overburden	Intermediate Layer	Subsoil	Details
62	50	2	0.55	001 - Loose dark grey brown silty loam with frequent small stone and root inclusions. Extends to a depth 0.29m.	003 - Loose to moderately compact mid brown silty gravel with frequent cobble sized stone inclusions. Plough soil. Extends to a depth of 0.20m.	002 - Moderate to very compact light grey to mid orange brown sandy clay and silty gravel with frequent large stone inclusions to the South extent.	Possible rubble drain running North-East to South-West. Moved 15m South - ground very waterlogged at North end. No archaeology present.

## Appendix B: Photographic Records

Frame	Area	Context No.	Subject	Taken from
1	-	-	I.D. Shot	-
2	-	General	General shots of South-East/South-West area	West
3	-	General	General shots of South-East/South-West area	West
4	-	General	General shots of South-East/South-West area	West
5	-	General	General shots of South-East/South-West area	West
6	-	General	General shots of South-East/South-West area	West
7	-	General	General shots of South-East/South-West area	West
8	-	Trench 04	General shot of trench	East
9	-	Trench 04	General shot of trench section	North
10	-	Trench 05	General shot of section	West
11	-	Trench 05	General shot of trench	North
12	-	Trench 06	General shot of section	North
13	-	Trench 06	General shot of trench	East
14	-	General	General shot of area	West
15	-	General	General shot of area	West
16	-	General	General shot of area	West
17	-	Trench 07	General shot of trench	West
18	-	Trench 07	General shot of section	North
19	-	Trench 08	General shot of trench	North
20	-	Trench 08	General shot of section	West
21	-	General	General shot of area	North-West
22	-	General	General shot of area	North
23	-	General	General shot of area	North-East
24	-	Trench 58	East facing section	East
25	-	Trench 58	Post-ex trench 58	South
26	-	Trench 60	East facing section	East
27	-	Trench 60	General post-ex	South-West
28	-	General	General shot of area	North
29	-	General	General shot of area	North-East
30	-	Trench 61	South facing section - at West end	South
31	-	Trench 61	South facing section - at East end	South
32	-	Trench 61	General post-ex	East
33	-	Trench 62	East facing section - at North end	East
34	-	Trench 62	East facing section - at South end	East
35	-	Trench 62	General post-ex	South
36	-	Trench 59	East facing section - at North end	East
37	-	Trench 59	East facing section - at South end	East
38	-	Trench 59	General post-ex	South
39	-	Trench 56	East facing section	East
40	-	Trench 56	East facing section at sondage	East
41	-	Trench 56	East facing section at sondage	East
42	-	Trench 56	General post-ex	East
43	-	Trench 55	North facing section	North

Frame	Area	Context No.	Subject	Taken from
44	-	Trench 55	South facing section	South
45	-	Trench 55	General post-ex	East
46	-	Trench 57	East facing section	East
47	-	Trench 57	General post-ex	North
48	-	Trench 54	South facing section	South
49	-	General	General shot across South area	North
50	-	Trench 54	General post-ex	East
51	-	Trench 54	Possible furrow	South-West
52	-	Trench 53	West facing section	West
53	-	Trench 53	General post-ex	North
54	-	Trench 52	South facing section	South
55	-	Trench 52	Post-ex of trench 52	East
56	-	Trench 51	East facing section	East
57	-	Trench 51	General post-ex	North
58	-	Trench 19	East facing section	East
59	-	Trench 19	General post-ex	North
60	-	Trench 18	North facing section	North
61	-	Trench 18	General post-ex	East
62	-	General	General shot of area	North-East
63	-	General	General shot of area	E-N-E
64	-	General	General shot of area	North
65	-	Trench 30	East facing section	East
66	-	Trench 30	General post-ex	North
67	-	Trench 29	East facing section	East
68	-	Trench 20	East facing section	East
69	-	Trench 20	General post-ex	North
70	-	Trench 31	East facing section	East
71	-	Trench 31	General post-ex	North
72	-	Trench 26	East facing section	East
73	-	Trench 26	General post-ex	North
74	-	Trench 21	East facing section	East
75	-	Trench 24	North facing section	North
76	-	Trench 24	General post-ex	West
77	-	Trench 25	East facing section	East
78	-	Trench 25	General post-ex	South
79	-	General	General shot of North-West area	-
80	-	Trench 23	West facing section	West
81	-	Trench 23	General post-ex	South
82	-	Trench 32	East facing section	East
83	-	Trench 32	General post-ex	South
84	-	Trench 28	West facing section	West
85	-	Trench 28	General post-ex	South
86	-	Trench 33	East facing section	East
87	-	Trench 33	General post-ex	South
88	-	Trench 22	General post-ex	East
89	-	Trench 22	North facing section	North
90	-	Trench 09	North facing section	North
91	-	Trench 09	General shot of water in grass (no drain)	North-East
92	-	Trench 09	General post-ex	West
93	-	General	General shot of area	South-West
94	-	General	General shot of area	South
95	-	General	General shot of area	South-West
96	-	Trench 48A	West facing section	West
97	-	Trench 48A	General post-ex	North
98	-	Trench 47A	South facing section	South



Frame	Area	Context No.	Subject	Taken from
99	-	Trench 47A	General post-ex	East
100	-	Trench 47B	South facing section	South
101	-	Trench 47B	General post-ex	West
102	-	Trench 47C	South facing section	South
103	-	Trench 47C	General post-ex	West
104	-	Trench 49	South facing section	South
105	-	Trench 49	General post-ex	West
106	-	Trench 48B	West facing section	West
107	-	Trench 48B	General shot of plough scar marks	South-East
108	-	Trench 48B	Modern pit	West
109	-	Trench 48B	General post-ex	North
110	-	Trench 50	West facing section	West
111	-	Trench 50	General post-ex	South
112	-	Trench 43A	East facing section	East
113	-	Trench 43A	General post-ex	North
114	-	Trench 43B	West facing section	West
115	-	Trench 43B	General post-ex	South
116	-	Trench 43B	General post-ex	North
117	-	Trench 42A	North facing section	North
118	-	Trench 42A	General post-ex	East
119	-	General	General shot across area	South-West
120	-	Trench 42B	North facing section	North
121	-	Trench 42B	General post-ex	East
122	-	General	General shot to the East showing trenching and farming	West
123	-	Trench 39A	East facing section	East
124	-	Trench 39A	General post-ex	North
125	-	Trench 39B	East facing section	East
126	-	Trench 38A	South facing section	South
127	-	Trench 38A	General post-ex	West
128	-	Trench 38B	North-West to South-East rubble drain	North-West
129	-	Trench 38B	South facing section	South
130	-	Trench 38B	General post-ex	West
131	-	General	General shot of area - waterlogged	South-East
132	-	General	General shot of area - waterlogged	South
133	-	General	General shot of area - waterlogged	South-West
134	-	Trench 37	East facing section	East
135	-	Trench 37	General post-ex	South
136	-	Trench 40B	South facing section	South
137	-	Trench 40B	General post-ex	West
138	-	Trench 40A	South facing section	South
139	-	Trench 40B	General post-ex	West
140	-	Trench 40C	South facing section	North
141	-	Trench 40C	General post-ex	West
142	-	Trench 48C	East facing section	East
143	-	Trench 48C	General post-ex	North
144	-	Trench 47D	Shot of South facing section	South
145	-	Trench 47D	General shot of trench	East
146	-	Trench 58	Shot of West facing section	West
147	-	Trench 58	General shot of trench	North
148	-	Trench 21B	General shot of section	West
149	-	Trench 21B	General shot of trench	North
150	-	Trench 23B	General shot of section	East
151	-	Trench 23B	General shot of trench	North
152	-	Trench 20B	General shot of trench	South
153	-	Trench 20B	General shot of section	West

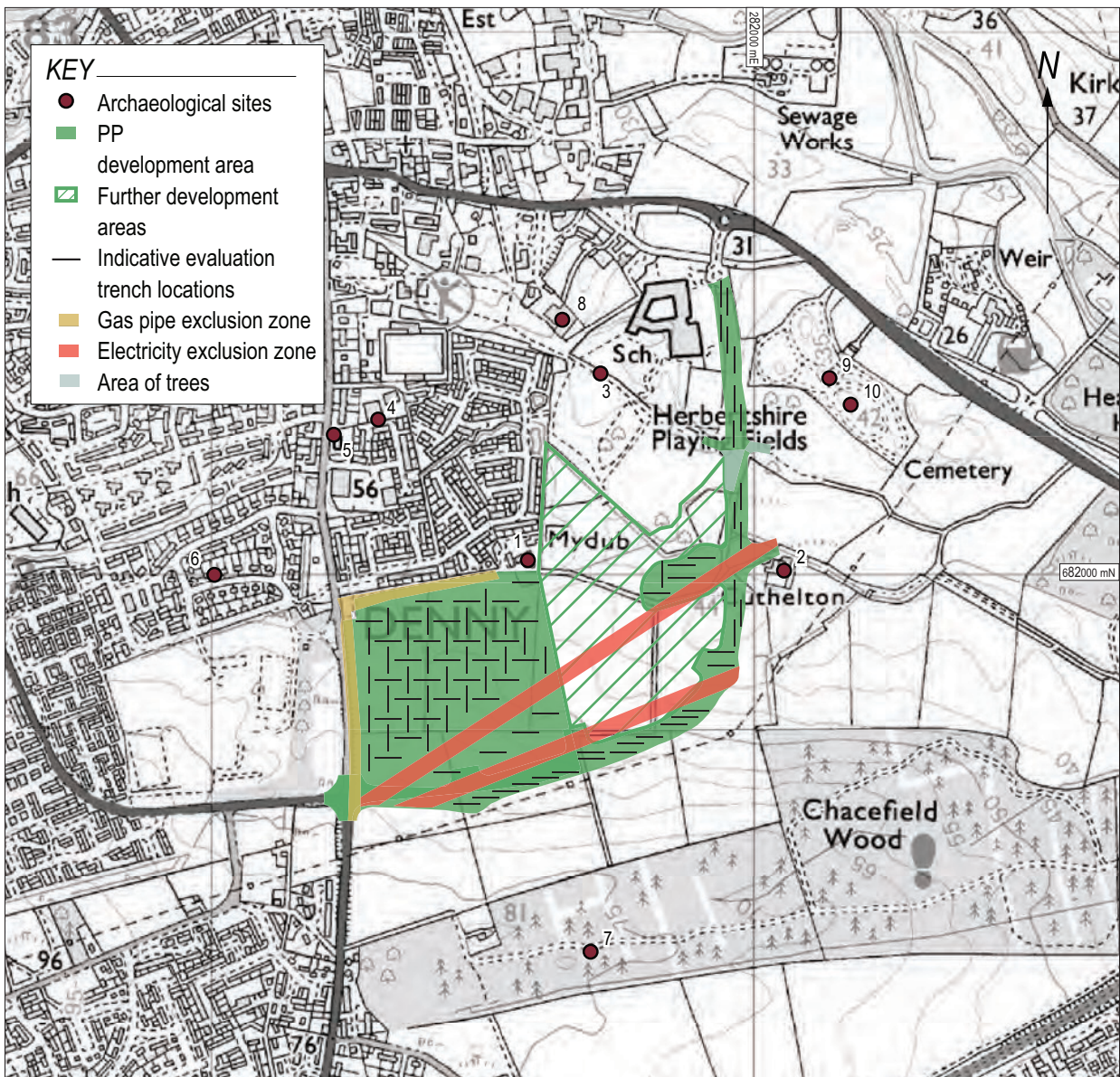
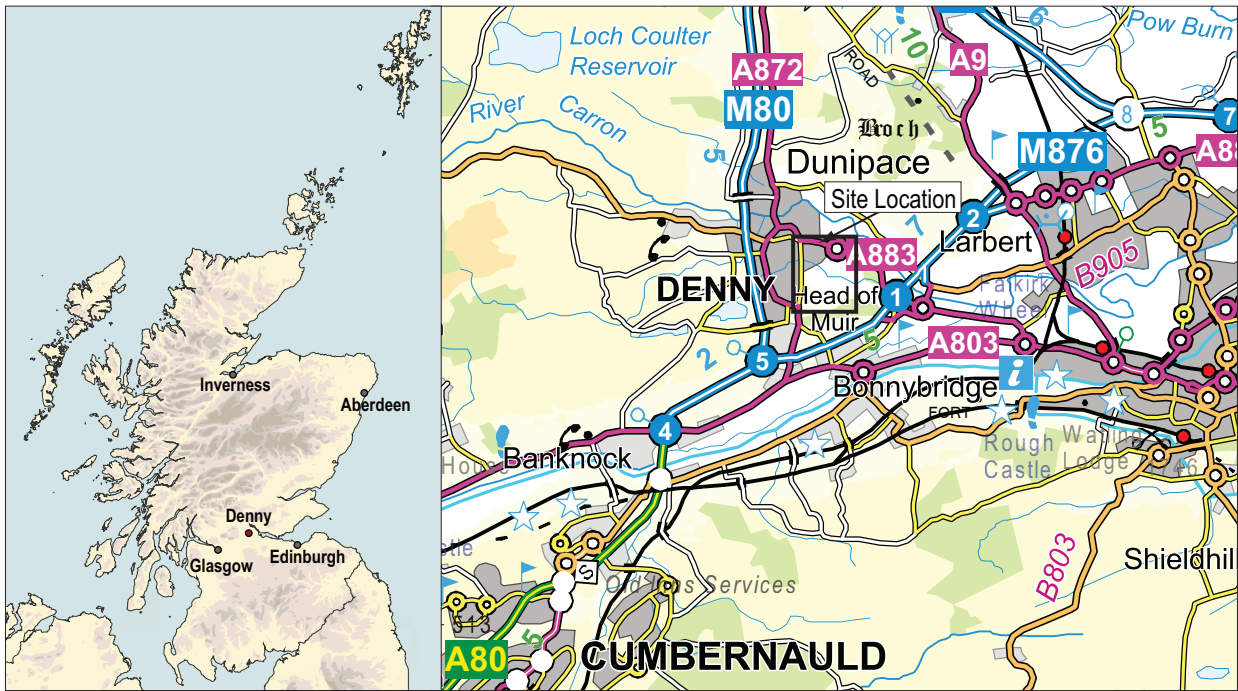
Frame	Area	Context No.	Subject	Taken from
154	-	Trench 57B	General shot of trench	South
155	-	Trench 57B	General shot of section	West
156	-	Trench 51B	General shot of section	East
157	-	Trench 51B	General shot of trench	South
158	-	General	General shot of site after trenching	-
159	-	General	General shot of site after trenching	-
160	-	General	General shot of site after trenching	-
161	-	General	General shot of site after trenching	-
162	-	General	General shot of site after trenching	-
163	-	General	General shot of site after trenching	-
164	-	General	General shot of site after trenching	-
165	-	General	General shot of site after trenching	-
166	-	General	General shot of site after trenching	-
167	-	General	General shot of site after trenching	-
168	-	General	General shot of site after trenching	-
169	-	General	General shot of site after trenching	-
170	-	General	General shot of site after trenching	-
171	-	General	General shot of site after trenching	-
172	-	General	General shot of site after trenching	-
173	-	General	General shot of site after trenching	-
174	-	General	General shot of site after trenching	-
175	-	General	General shot of site after trenching	-
176	-	General	General shot of site after trenching	-
177	-	General	General shot of site after trenching	-
178	-	General	General shot of site after trenching	-
179	-	General	General shot of site after trenching	-
180	-	General	General shot of site after trenching	-
181	-	General	General shot of site after trenching	-
182	-	General	General shot of site after trenching	-
183	-	General	General shot of site after trenching	-
184	-	General	General shot of site after trenching	-
185	-	General	General shot of site after trenching	-
186	-	General	General shot of site after trenching	-
187	-	General	General shot of site after trenching	-
188	-	General	General shot of site after trenching	-
189	-	General	General shot of site after trenching	-

## Appendix C: Discovery and Excavation Scotland Entry

LOCAL AUTHORITY:	Falkirk Council
PROJECT TITLE/SITE NAME:	Mydub, Denny
PROJECT CODE:	3311
PARISH:	Denny
NAME OF CONTRIBUTOR(S):	Kevin Mooney
NAME OF ORGANISATION:	GUARD Archaeology Ltd
TYPE(S) OF PROJECT:	Archaeological evaluation
NMRS NO(S):	NA
SITE/MONUMENT TYPE(S):	NA
SIGNIFICANT FINDS:	None
NGR (2 letters, 6 figures)	NS 81470 81769
START DATE (this season)	09 <sup>th</sup> March 2015
END DATE (this season)	16 <sup>th</sup> March 2015
PREVIOUS WORK (incl. <i>DES</i> ref.)	--
MAIN (NARRATIVE) DESCRIPTION: (May include information from other fields)	An archaeological evaluation was carried out by GUARD Archaeology Limited, on behalf of Bett Homes Scotland Ltd. The area proposed for the residential development was located at Mydub Farm, to the south-east of Denny. The trial trenching covered a proposed 4.4% evaluation of the total area for development (13.2ha). No significant archaeological features were encountered during the evaluation.
PROPOSED FUTURE WORK:	--
SPONSOR OR FUNDING BODY:	Bett Homes Scotland Ltd
CAPTION(S) FOR ILLUSTRS:	--
ADDRESS OF MAIN CONTRIBUTOR:	GUARD Archaeology Ltd, 52 Elderpark Workspace, 100 Elderpark Street, Glasgow, G51 3TR
EMAIL ADDRESS:	Kevin.mooney@guard-archaeology.co.uk
ARCHIVE LOCATION (intended/deposited)	NMRS

**Appendix D: WSI****MYDUB, DENNY****PP Development Area****ARCHAEOLOGICAL WRITTEN SCHEME OF INVESTIGATION****PROJECT 3311**





- KEY**
- Archaeological sites
  - PP development area
  - Further development areas
  - Indicative evaluation trench locations
  - Gas pipe exclusion zone
  - Electricity exclusion zone
  - Area of trees

Figure 1:  
Site location.

## Executive Summary

- 1.1 This Written Scheme of Investigation forms the archaeological method statement for the evaluation of the PP Development Area at Mydub in Denny and will require to be approved by the Falkirk Council Keeper of Archaeology and Local History, acting on behalf of Falkirk Council, prior to the commencement of archaeological fieldwork.

## Introduction

- 2.1 This Written Scheme of Investigation (WSI) sets out the methodology for the archaeological mitigation works that may be required for the PP Development Area at Mydub. An archaeological evaluation of the development area will be undertaken to establish the presence, extent and nature of any significant archaeological remains. Should significant remains be identified and it is not possible to preserve them *in situ* a further requirement for archaeological works to ensure their preservation through record is likely to be required.
- 2.2 This WSI outlines the programme of archaeological works that may be needed to mitigate the effects of the proposed development. It details the methodology to be employed in implementing the Stage 1 archaeological works. The mitigation methodology to be employed during Stage 2 excavation and Stage 3 post excavation analysis and publication, will be specified in *addenda* to this document. These *addenda*, if required, will be submitted for the approval of the Falkirk Council Keeper of Archaeology and Local History, acting on behalf of Falkirk Council prior to the commencement of any archaeological work. All phases of work will be funded by the developer as required by the Planning Authority.

## Site Location

- 3.1 The PP development area is located at Mydub (centred NGR: NS 8186 8219) to the south-east of Denny near Falkirk, and comprises the H.DEN.12 (Housing) Development Area and the Denny Eastern Access Road Area. The H.DEN.12 (Housing) Development Area consists of two rectangular shaped fields, the top half of two more rectangular shaped fields and the south-west corner of another field, bounded to the north by housing estates, to the east and south by fields and to the west by Glasgow road. The available land within this development area measures 12.1235 ha. The Denny Eastern Access Road development area comprises several rectangular shaped fields and a footpath. The available land within this area measures 6.7956 ha and is bounded to the north by A883 road, to the east and south by fields, as well as the cemetery on its north-east side, and to the west by the Glasgow road.

## Archaeological Background

- 4.1 An archaeological desk-based assessment was previously undertaken by GUARD of the PP development area. The assessment, which included a walkover survey, identified no known sites within the PP development area, but identified the following sites within the surrounding area (Figure 1):
  - Mydub (Site 1);
  - Cuthelton (Site 2);
  - Herbertshire Colliery (Pit No. 3) (Site 3);
  - Denny Iron Works, Glasgow Road (Site 4);
  - Denny Iron Works Office, 80 Glasgow Road (Site 5);
  - Denny (Site 6);
  - Chacefield Wood Cup and Ring Marks (Site 7);
  - Duncarron Iron Works, Denny (Site 8);



- Denny Cemetery (Site 9);
  - Denny & Dunipace War Memorial (Site 10).
- 4.2 The locations of all recorded cultural heritage sites within the study area are illustrated on Figure 1.
- 4.3 While no sites of prehistoric or early historic date are known within the PP development area itself, three polished Neolithic axehead stones (Site 6) have been found somewhere in proximity to the proposed development area. Three cup and ring marks (Site 7) in a line also occur on a large and prominent rock outcrop in Chacefield Wood, south of the development area. Further east of the development and outside the study area, an antler pick was found a mile north of Bonnybridge Golf Course and is believed to belong to the Middle Stone Age.
- 4.4 Denny became separated from the parish of Falkirk around 1618. It is depicted in Pont's map of 1580-1590, which refers to it as Denny Kirk. It is during this period that the settlement of Denny expanded. However, Grassom's 1817 map depicts an agricultural landscape around the proposed development area itself, with a house called 'Lesslie' depicted to the north of the PP development area. This farmstead apparently later became known as Mydub (Site 1). A more detailed depiction of this farmhouse is apparent on the first edition of the Ordnance Survey 6-inch map and on the Ordnance Survey first edition 25 inch map. Further east of the study area is Cuthelton (Site 2), a dairy courtyard farmstead.
- 4.5 Within the wider study area of the desk-based assessment, six more sites were identified, including Herbertshire Colliery pit No 3 (Site 3), Denny Iron Works (Site 4) and its associated offices (Site 5) and another ironworks, Duncarron Ironworks (Site 8). Denny cemetery (Site 9) located to the north-east, is a small knoll which has been heavily terraced and now has a war memorial (Site 10) on its summit.
- 4.6 While no previous archaeological investigations have been recorded within the development area, the desk-based assessment indicated potential, albeit low, for buried archaeological artefacts and prehistoric remains to survive within the PP development area.

## Aims, Objectives and Scope

- 5.1 The aim of the archaeological evaluation is to identify:
- as yet unknown archaeological features and deposits within the PP development area;
  - to ensure that any surviving archaeological remains, encountered during the evaluation within the development area, are recorded to an appropriate level.
- 5.2 The objectives are therefore to:
- Conduct an archaeological evaluation within the PP development area to establish the presence or absence of any archaeological remains, and their character, date and extent if surviving;
  - Submit a report to data structure level for approval to the Falkirk Council Keeper of Archaeology and Local History, acting on behalf of Falkirk Council, on completion of the archaeological fieldwork, which includes an outline of the scope of any further excavation works should any significant archaeology be encountered.
- 5.3 The scope of the archaeological works will establish:
- that if the archaeological evaluation encounters no significant archaeological remains within the PP development area, no further archaeological fieldwork will be required within that specific area.

## Fieldwork Methodology

- 6.1 The programme of archaeological works will commence with a 5% evaluation of the PP development area. 95 trenches will be excavated, each measuring 50 m long and 2 m wide; 60 trenches on the Housing Development and 35 trenches on the Denny Eastern Access Road (Figure 1). The trenches will total a minimum of 9,460 m<sup>2</sup>.

- 6.2 All trenches will be excavated by mechanical excavator, utilizing a c 2 m wide flat-bladed (toothless) ditching bucket under the direct supervision of a GUARD archaeologist, down to the first archaeological horizon or to natural subsoil, whichever is encountered first. The depth of stratigraphy apparent in all trenches will be recorded.
- 6.3 Any archaeological features encountered will be cleaned by hand by the on-site Archaeologist to determine their character and extent. Should negative-cut features be encountered, a representative sample will be 25-50% excavated in order to determine their significance, date and function. All on-site recording, written, drawn and photographic, will be to the standards normally pertaining in archaeological fieldwork and to IfA standards. A full record of excavated features will be made using a single context recording system using pro forma sheets, drawings and photographs. All archaeological features will be photographed and recorded at an appropriate scale. Sections will be drawn at 1:10, and plans at 1:20. All evaluation trenches will be accurately surveyed using a sub-metre GPS and located within the National Grid.
- 6.4 All archaeological finds will be dealt with by the on-site Archaeologist. Finds and animal bone will be collected as bulk samples by context. Significant small finds will be three dimensionally located prior to collection. All finds will be processed to MAP2 type standards and subject to appropriate specialist assessment. If necessary, conservation of finds will be appraised to allow for specialist study.
- 6.5 All excavated feature fills and horizons will be sampled as appropriate, using bulk soil samples, for palaeo-environmental evidence.
- 6.6 A representative section will be recorded denoting depth of topsoil, any stratigraphy present and the nature of the soil. This information will be logged in the day book together with a sketch drawn to scale and a photographic record of deposits.
- 6.7 Should human remains be revealed by the excavation, the local police, the client and Falkirk Council Keeper of Archaeology and Local History will be informed immediately. Any human remains will be accurately recorded, but left *in situ*, pending the agreement of the police, the client and Falkirk Council on an appropriate mitigation strategy.
- 6.8 Should significant archaeological remains be encountered by the evaluation, requiring more than the limited evaluation outlined above, the remains will be largely left *in situ* pending the agreement of the client and the Falkirk Council Keeper of Archaeology and Local History on a WSI addenda for an appropriate scope of excavation (Stage 2) and Post-excavation design including scope of finds analysis and publication (Stage 3).
- 6.9 On completion of the recording of the evaluation trenches, the backfilling of trenches will be undertaken by machine. No specialist backfilling is proposed, nor will the backfilling of trenches be supervised by the on-site archaeologist.

## Report Preparation and Contents

- 7.1 A report detailing the results of the archaeological fieldwork will be submitted to the client within two weeks of completion of fieldwork and, subject to client approval, then submitted to Falkirk Council Keeper of Archaeology and Local History, acting on behalf of Falkirk Council. The report will take the form of a Data Structure Report and will contain an analysis of the results of the evaluation. The report will include a full descriptive text that will characterise the date and extent of any archaeological deposits. It will also include plans at an appropriate scale showing the area subjected to ground-breaking works, evaluation trenches, archaeological features and archiving lists of all finds, samples, field drawings and photographs.
- 7.2 If appropriate, the report will also include an addendum to this WSI for further archaeological fieldwork, should significant archaeology have been encountered.
- 7.3 The report will include the following:
  - executive summary;
  - a site location plan to at least 1:10,000 scale with at least an 8 figure central grid reference;

- OASIS reference number; unique site code;
  - Planning application number;
  - contractor's details including date work carried out;
  - nature and extent of the proposed development, including developer/client details;
  - description of the site history, location and geology;
  - a site plan to a suitable scale and tied into the national grid so that features can be correctly orientated;
  - discussion of the results of field work;
  - context & feature descriptions;
  - features, number and class of artefacts, spot dating & scientific dating of significant finds presented in tabular format;
  - plans and section drawings of the features drawn at a suitable scale;
  - initial assessment of relevant finds/samples if appropriate;
  - recommendations regarding the need for, and scope of, any further archaeological work such as excavation (Stage 2) and Post-excavation finds analysis, conservation & publication (Stage 3);
  - bibliography.
- 7.4 An appropriate number of hard copies and digital pdf copies of the report will be prepared for the client and sent to the Falkirk Council Keeper of Archaeology and Local History for agreement.
- 7.5 The report will be presented in an ordered state and bound within a protective cover/sleeve. The report will be page numbered and supplemented with section numbering for ease of reference.

## Copyright

- 8.1 Unless otherwise agreed copyright for any report resulting from the archaeological work undertaken as part of the project will be deemed the intellectual property of GUARD Archaeology Ltd.

## Publication

- 9.1 A summary of the project results will be submitted to *Discovery and Excavation in Scotland*. In the event of minor archaeological remains being encountered during the archaeological fieldwork, it is proposed that a comprehensive report submitted to *Discovery and Excavation in Scotland*, will form the final publication of the site. A copy of this will be included in the Data Structure Report.

## Archive

- 10.1 The archive for the project, including a copy of the report, will be submitted to the National Monuments Records for Scotland within three months of completion of all relevant work.
- 10.2 The online OASIS form at <http://ads.ahds.ac.uk/project/oasis/> will be completed within 3 months of completion of the work. Once the Data Structure Report has become a public document by submission to or incorporation into the SMR, The Falkirk Council Keeper of Archaeology and Local History will validate the OASIS form thus placing the information into the public domain on the OASIS website.

## Finds Disposal

- 11.1 The arrangement for the final disposal of any finds made in connection with the archaeological work, will be deposited in keeping with Scottish legal requirements as set out in the Treasure Trove Code of Practice published by the Scottish Government in December 2008. The laws relating to Treasure



Trove and *Bona Vacantia* in Scotland apply to all finds where the original owner cannot be identified. This includes all material recovered during archaeological fieldwork. Accordingly, all assemblages recovered from archaeological fieldwork are claimed automatically by the Crown and must be reported to the Scottish Archaeological Finds Allocation Panel through its secretariat, the Treasure Trove Unit. In the event of the discovery of small finds, a filled-out copy of the form "Declaration of an Archaeological Assemblage from Fieldwork" and two copies of the pertinent Data Structure Report will be submitted to the Panel at the conclusion of the fieldwork. The Panel will then be responsible for recommending to the Queen's and Lord Treasurer's Remembrancer which museum should be allocated the finds. All artefacts will be temporarily stored by GUARD until a decision has been made by the panel.

## Personnel and Liaison

12.1 The GUARD team will include the following qualified and experienced GUARD archaeologists:

- Project Manager: Mr Ronan Toolis
- Project Director (on-site Archaeologist): Iraia Arabaolaza
- Finds and Environmental Support and Conservation: Ms Aileen Maule
- Illustrator: Ms Gillian McSwan
- Quality Assurance: Dr John Atkinson

12.2 The GUARD Project Manager, Mr Ronan Toolis, will be the point of contact for the archaeological works. A full CV for individuals concerned can be made available on request.

## Monitoring

13.1 The proposed start date for the archaeological fieldwork will be arranged in due course. The Falkirk Council Keeper of Archaeology and Local History will be given at least one week's notice prior to the commencement of fieldwork. The Falkirk Council Keeper of Archaeology and Local History and the client will be informed of the site mobile phone number prior to the start date so that monitoring visits can be arranged. It is estimated that the evaluation of 5% of the PP development area will take 10 days to complete.

## Health & Safety and Insurance

14.1 GUARD Archaeology Ltd adheres to the guidelines and standards prescribed for archaeological fieldwork set down in the Institute for Archaeologists approved Health and Safety in Field Archaeology document, prepared under the aegis of the Standing Conference of Archaeological Unit Managers (SCAUM). It is standard GUARD policy, prior to any fieldwork project commencing, to conduct a risk assessment and to prepare a project safety plan, the prescriptions of which will be strictly followed for the duration of all archaeological fieldwork. Copies of the resultant project safety plan and of GUARD's Fieldwork Safety Policy Statement may be viewed upon request.

14.2 GUARD Archaeology Ltd also possesses all necessary insurance cover, proofs of which may be supplied upon request.

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