

GUARD ARCHAEOLOGY



**The Grange, Monifieth
Data Structure Report
Project 4326**

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The Grange, Monifieth Data Structure Report

On behalf of: Taylor Wimpey East Scotland

NGR: NO 48970 33327

Project Number: 4326

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

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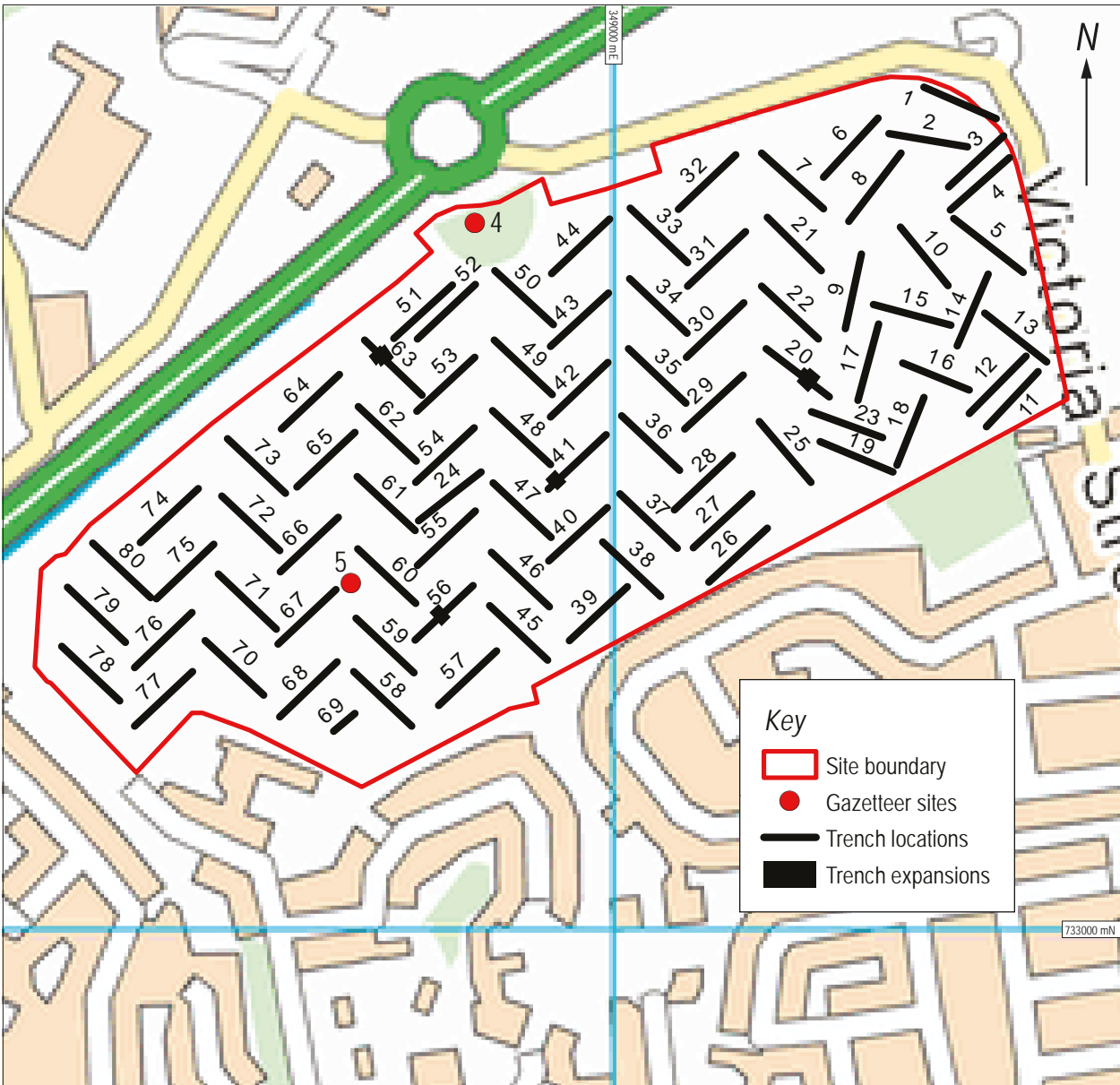
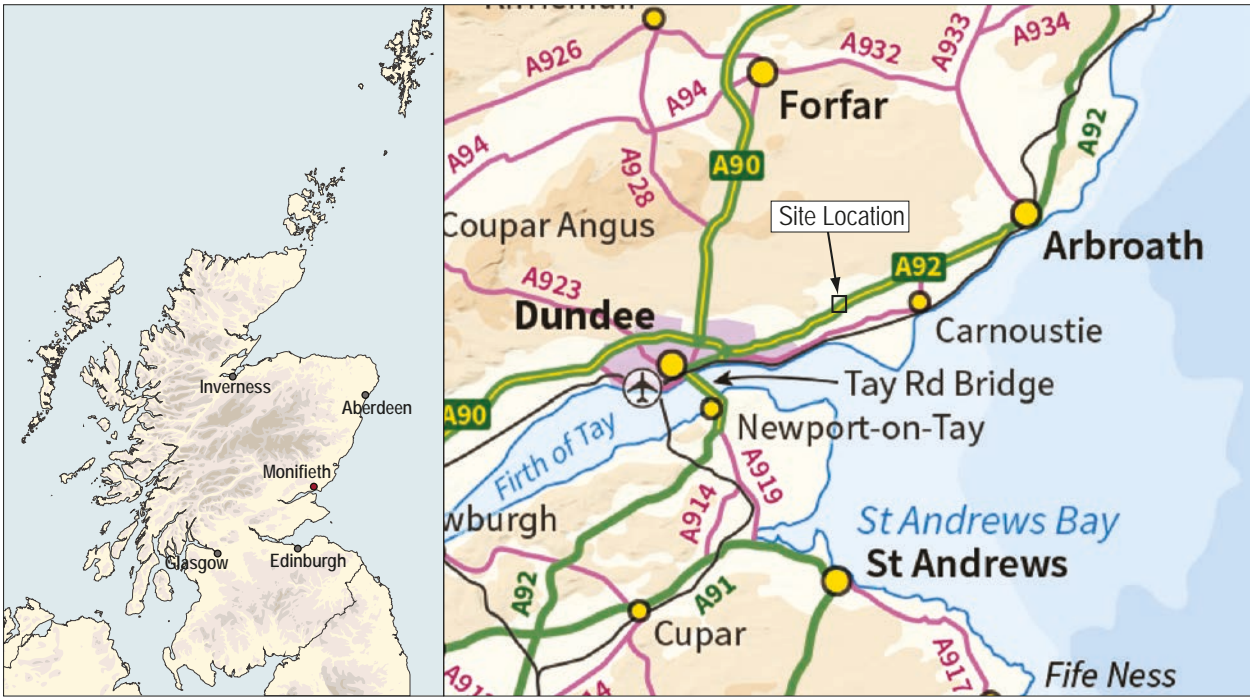
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Key

- Site boundary
- Gazetteer sites
- Trench locations
- Trench expansions

Executive Summary

- 1.1 An archaeological evaluation was carried out by GUARD Archaeology Limited at The Grange, Monifieth on behalf of Taylor Wimpey East Scotland on a site proposed for residential development in order to meet Condition 3 of the Planning Permission in Principle (13/01184/PPPM). The trial trench evaluation consisted of a series of 80 trenches, each measuring c. 2 m in width with 79 measuring 50 m in length and one trench measuring 17.5 m in length, this equated equating to 5% of the total area proposed for development. Several features of archaeological significance were encountered during the evaluation, consisting of eight pit and post-hole features and one small spread feature. These were located in four separate trenches located across the central and eastern areas of the site, mostly on more raised ground. Prehistoric material culture was recovered from some feature fills.

Introduction

- 2.1 This report sets out the results of an archaeological evaluation undertaken by GUARD Archaeology, on behalf of Taylor Wimpey East Scotland on a site proposed for residential development at The Grange, Monifieth (OASIS ref: guardarc1-239649). During the course of the evaluation a total of 7,935 square metres of trenching was undertaken, spread over 80 individual trenches arranged in a random pattern across the site. Several features of archaeological significance were revealed and recorded across the area, material culture recovered suggests that the archaeology is prehistoric in date. The work was undertaken between 11th January and 18th January 2016, and weather conditions for the evaluation were variable with a constant ground frost.

Site Location, Topography and Geology

- 3.1 The proposed development area is located to the north of Monifieth and lies on the south side of the A92 public road. The main proposed development area (Figure 1) is centred at NGR: NO 48970 33327. The land is bounded to the west, south-west, south and south-east by existing housing, to the north by the A92 road and to the east by open fields
- 3.2 The development area covers approximately 158, 700 m² and sits between 57 m and 45 m AOD, with the land sloping fairly steeply towards the east at the eastern side. The underlying bedrock geology is of Ochil Volcanic formation Andesite, Pyroxene across the area. The superficial deposits are of Devensian – Diamicton till, although bedrock is occasionally present directly below topsoil. (Figure 1: Site location)

Archaeological Background

- 4.1 A Desk-based Assessment of the development area was undertaken by GUARD Archaeology Limited in 2013 (Rennie, C and McKinstry, L), a short summary of the this work is included here and a gazetteer of the relevant sites is included as appendix I, the five relevant sites are shown on Figure 1.
- 4.2 The land use of the proposed development has been agricultural since at least the mid-eighteenth century, with the only known intrusion into the land being the railway that was built during the early nineteenth century. There are two cultural heritage sites recorded within the proposed development (Sites 4 and 5), both of which are of lesser or unknown significance, and three within 100 m of the Site (Sites 1, 2 and 3), including two Listed Buildings. All of the known cultural heritage sites within the study area date from the post-Medieval and Modern periods.

Aims and Objectives

- 5.1 The aims and objectives of the archaeological work were to:
- establish the presence, nature, significance and extent of any archaeological features, prior to the determination of planning consent or absence of as yet unknown archaeological features within the development area;

- to ensure that any surviving archaeological remains, encountered during the evaluation, were recorded to an appropriate level.

5.2 The objectives were therefore to:

- Conduct a 5% archaeological evaluation using machine excavated trenches under archaeological supervision to establish the presence or absence of any archaeological remains, and their nature, significance and extent if surviving;
- Submit a report to data structure level for approval to the Angus Council Archaeology Advisor, 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 was to establish:

- that if the archaeological evaluation encountered no significant archaeological remains, no further archaeological fieldwork would be required for this development.

Methodology

- 6.1 Topsoil was stripped using mechanical excavators, fitted with flat-bladed ditching buckets, under close archaeological supervision. The topsoil was removed in linear trenches to the surface of the subsoil or the first significant archaeological horizon. The trenches were 50 m long by 2 m wide, with one exception of 17.5 m by 2 m.
- 6.2 Occasionally trenches deviated from the original trench plan in order to investigate potential areas of interest or to avoid tree canopies. After consultation with the client and the Archaeological Advisor to Angus Council, areas were expanded around four trenches in order to reveal the full extent of archaeological features encountered and maintain a 5 m 'buffer' of no archaeology. Expansion totalled around 343 m² or 0.22% of the development area.
- 6.3 Archaeological features encountered were dealt with by the on-site archaeologists, and were 25-50% hand excavated in accordance with the agreed methodology in the WSI. All feature fills were bulk sampled. All on-site recording, written, drawn and photographic, was to the standards normally pertaining in archaeological fieldwork, complying with CifA Standards and Guidance.
- 6.4 Trenches were surveyed and located within the National Grid using a sub-centimetre Smart Rover, enabling all archaeological features to be accurately located.

Results

- 7.1 A full record of the deposits encountered in all trenches during the evaluation, as well as the other records for the work undertaken, can be found in Appendices B to G.
- 7.2 During the course of the evaluation, 80 trenches were excavated across the area. Topsoil was generally a grey-brown silty loam, with occasional to frequent small stones and roots, varying from 0.25 m to 0.4 m in thickness. Across many areas this topsoil was observed overlying an intermediate plough soil deposit, which was generally a mid-reddish brown silt with few-occasional small pebbles, stones and roots, and varied in thickness between 0.15 m and 0.6 m. The thickness of these layers varied with topography with downslope areas containing deeper possible hillwash deposits. Subsoil varied from light yellow beige and grey sandy clays to brown and orange silts and gravels, with frequent stone inclusions. This was frequently disturbed by systems of field drainage.
- 7.3 Nine features of potential archaeological significance were encountered (Figure 1). These were located across the area, dispersed across four trenches and are described below by trench.

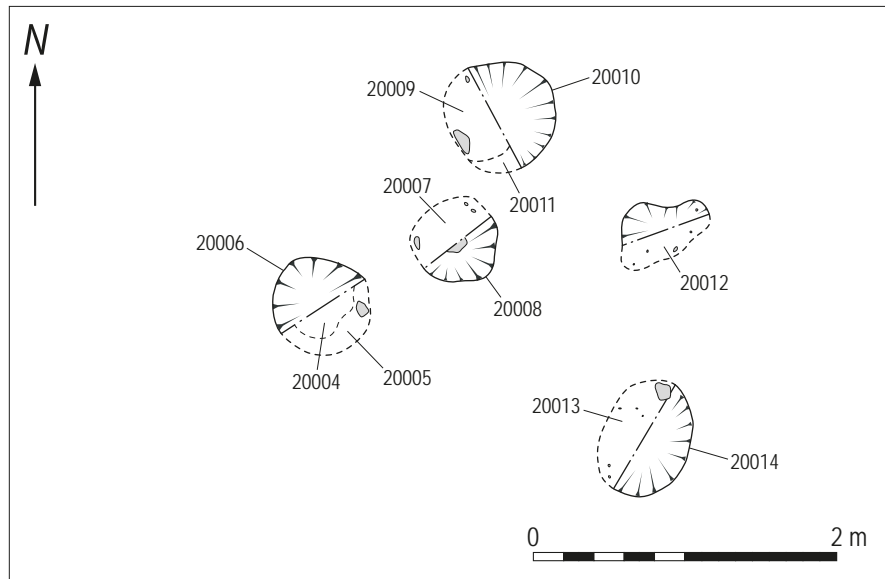


Figure 2: Plan of Trench 20 features.

7.4 Trench 20

7.4.1 An initial pit feature encountered within trench 20 prompted a subsequent area of expansion which revealed a further four features (Figure 2).

7.4.2 The initial pit (20006) had fairly gently sloping sides with a rounded base and measured 0.7 m by 0.5 m with a depth of 0.11 m. This contained an upper silty deposit (20004) which was mid yellowish brown in colour and 40 mm in thickness. This partially overlay the main fill (20005) which was a dark black-brown silt with small stones and charcoal flecks, 0.11 m in thickness. This contained fragments of prehistoric ceramic (sf 1 & 2).

7.4.3 Located 0.2 m to the east of this was pit 20008. This had a steep sided cut and rounded base measuring 0.65 m by 0.65 m with a depth of 0.17 m. Fill 20007 was a blackish brown silt with small stones and some charcoal flecks. A further 0.12 m north of this was pit 20010, with a steep sided cut and rounded base measuring 0.76 m by 0.72 m with a depth of 0.24 m. This contained orange brown silty upper fill 20009 which appeared likely to have silted into the feature, and main lower fill 20011 which was a blackish brown silt with pebble and charcoal inclusions.

7.4.4 Around 1.8 m to the south-east of these was further pit 20014, with a gently sloping rounded based cut measuring 0.8 m by 0.6 m with a depth of 0.13 m. This contained black grey brown silty fill 20013 with some small stone and charcoal flecks (Plate 1).

7.4.5 The final feature in trench 20 was a small spread of material located 0.4 m to the north (20012). This was a mid grey brown silt with some small stones, measuring 0.65 m by 0.4 m with a depth of 80 mm. This may have been the remains of a similar pit feature, although had been heavily affected by burrowing and had no distinct cut.



Plate 1: East facing section of pit 20014.

7.5 Trench 41

7.5.1 A small pit or possible post-hole feature was revealed during initial trench stripping. Cut 41006 had steep sides and an almost flat base measuring 0.5 m by 0.48 m with a depth of 0.2 m. This contained dark grey brown silt clay fill 410004 with some stone inclusions (Plate 2). Cobble sized stones present naturally in the surrounding subsoil could have acted as support material if the feature contained a post.

7.5.2 A small spread of material was investigated to the north-east of the feature (41005) but was dismissed as trapped overburden material. No further features were revealed during subsequent expansion around the trench, meaning this was apparently an isolated pit or post-hole



Plate 2: North-east facing section of pit/post-hole 41006.



Plate 3: Burnt pits 56007 and 56009 from the south.

7.6 Trench 56

7.6.1 A single pit containing distinct charcoal rich burnt material was initially revealed within trench 56, with a further similar feature revealed upon expansion of the surrounding area (Plate 3).

7.6.2 Pit 56007 had a gently sloping cut with shallow rounded base measuring 1.46 m by 1.19 m with a depth of 0.24 m. This contained upper fill 56005, which was a loose dark grey black silt containing frequent charcoal and heat cracked scorched stones. This was above stones 56006 which appeared to form a possible lining, comprising of cobble sized stones set into the subsoil around the cut, some of which were heat affected at the upper level.

7.6.3 Located 0.9 m to the north-west was further pit 56009. This measured 1.44 m by 1.28 m with a depth of 0.26 m and had gently sloping sides with a shallow curved base. This contained a similar charcoal rich burnt grey black silt fill, with frequent heat cracked scorched stone inclusions (56008). A worked flint, possibly a scraper, was recovered within this providing a likely prehistoric date for these features.

7.7 Trench 63

7.7.1 A single large pit feature was revealed within trench 63 (Plate 4), with no further features located during the subsequent surrounding expansion. This had a moderately sloping cut (63006) with a concave undulating base measuring 2.52 m by 1.48 m with a depth of 0.5 m. Upper fill 63005 was a light brown beige sandy silt with a few pebble inclusions and a thickness of 0.4 m. This appeared to be a relatively sterile washed or windblown material which had subsequently filled a central depression within the feature, leaving lower fill 63004 partially visible around the edge of the cut in plan. This lower fill was a dark grey brown black charcoal rich silt with few small stone inclusions, up to 0.16 m in thickness. This contained several fragments of possible degraded ceramic or daub-like material (sf 4) and a worked flint (sf 3).



Plate 4: Pit 63006 from the north-west.

- 7.7.2 In addition to the potentially earlier features described above, a single linear feature was investigated within trench 49 and revealed to be a likely furrow or drainage feature, unlikely of archaeological significance.
- 7.7.3 Trenching revealed no features which appeared to relate to either of the gazetteer sites highlighted in the 2013 Desk-based Assessment (Rennie & McKinstry, 2013). Trench 24 was relocated specifically to further target the general area of Site 5 as it appears on the site plan but no evidence of the nineteenth century structural feature visible on the 1st Edition OS 6" map of 1865 was identified. A trench was originally intended to be placed across the area of the seventeenth century formal planting noted at Site 4, however this is still upstanding as an area of established woodland copse bounded by an existing fence line (Plate 5) and was therefore avoided.



Plate 5: Woodland copse at Gazetteer Site 4, from the south-west.

Discussion

- 8.1 The trenching identified various features of potential archaeological significance. In Trenches 20 and 56 these comprised of multiple features, whereas the pits within trenches 41 and 63 appear to have been relatively isolated albeit within the confines of the 5 m expansion areas.
- 8.2 The exact nature of activity around these pits is unclear, with the material culture suggesting a fairly definitive prehistoric date for at least three of the areas. Generally the features appear to contain various quantities of burnt waste material, with small amounts of charcoal present within almost all of the of the features in Trench 20, and charcoal rich fills within the Trench 56 and 63 features. The material culture recovered in all cases could be seen as potentially domestic in nature possibly associated with activities such as food preparation, with the pottery from trench 20 appearing fairly coarse and the lithics from Trenches 56 and 63 being possible scrapers.. It is likely that specialist analysis of this material would lead to further understanding of the function and potential date of the archaeology. The charcoal rich material within Trench 56 pits could also potentially represent material used for heating given the large quantities of heat affected stone present.
- 8.3 The single feature within Trench 41 is more problematic, given the lack of material culture to indicate date or function. However this may emphasise the difference in function here, with this feature potentially serving as a post-hole rather than a pit containing burnt material or quantities of charcoal.
- 8.4 Although no prehistoric activity was previously known immediately within the development area, various sites are known within relatively close proximity. Crop marks visible in the neighbouring fields to the east at Ardownie Farm demonstrate the presence of souterrains at this location and as such have been designated as a Scheduled Monument (SM6512; NGR: NO 4950 3380). A further double chambered souterrain was excavated at Ardownie in 1998 (Angus SMR: NO43SE0100; NGR: NO 4968 3391), as well a buried prehistoric soil horizon containing artefacts in 2003 (Canmore ID: 268051; NO 4955 3445), both as part of the A92 improvement and

upgrade works. In 2002 two Bronze Age cist burials and three cremations were excavated in the North Grange area adjacent to Ethiebeaton Quarry (Canmore ID: 33451; NGR: NO 4872 3373). The presence of features demonstrating prehistoric activity at The Grange is perhaps therefore unsurprising, given the evidence of use of the surrounding landscape at various periods through prehistory and the development area being in close proximity to known prehistoric sites.

- 8.5 Overall the evaluation has established previously unknown prehistoric activity on the site in several locations. Further analysis of the material culture recovered may provide a more precise understanding of date and function. Given the spread of the features and the possible nature of the activity around them it seems likely that further features may exist within the development area as they appear to represent more sporadic pockets of activity rather than a concentration of activity associated with a structure or more definitive cluster of features.

Recommendations

- 9.1 The evaluation work has established the presence of previously unknown prehistoric archaeology in at least three locations across the area, with the further fourth feature in Trench 41 suggesting further activity of some kind, although the date and nature of this are less clear. The four areas identified are spread across the wider central and eastern areas of the site on generally higher ground within the development area. After consultation with Claire Herbert, Angus Council Archaeological Adviser, it is likely that further work in the form of a targeted Archaeological Watching Brief would be required within the proposed development area. This watching brief may focus on areas of archaeological interest identified by this evaluation.
- 9.2 GUARD Archaeology would stress that these recommendations are intended for guidance only. While the recommended mitigation strategy was developed following consultation with Claire Herbert in her role as Archaeological Adviser to Angus Council, final decisions on the nature and extent of any future archaeological work rest with the planning authority.

Acknowledgements

- 10.1 GUARD would like to thank Craig Henderson of Taylor Wimpey East Scotland for commissioning us to conduct the evaluation, and for his continued assistance. Plant and drivers were supplied by Colin Robbie Plant Hire. Technical support was from Aileen Maule and Jen Cochrane. The project was directed by Beth Spence, with assistance from Erica Villas, Cameron Wallace and Sarah Krischer. A survey of trench locations was conducted by Diarmuid O'Connor. The illustrations were produced by Diarmuid O'Connor and Gillian McSwan. The report was desk top published by Gillian McSwan. The project was managed for GUARD by Warren Bailie.

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Section 2: Appendices



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Appendices

Appendix A: References

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Appendix B: List of Trenches

Tr No	Length (m)	Width (m)	Depth (m)	Topsoil/Overburden	Intermediate Deposit	Intermediate Deposit	Subsoil	Details
1	50	2	0.5	(001) 0.30m of moderately compact, dark brown/grey silty loam. Contained occasional small stones, roots and pebbles	(003) 0.20m of moderately compact mid-brown silt containing occasional pebbles and small roots. Likely plough soil or hillwash.	-	(002) Very compact, mid orange/brown silty gravel containing stones.	Occasional N-S drainage
2	50	2	0.62	(001) 0.34m of moderately compact, dark grey/brown loam. Contained occasional few small stones	(003) 0.28m of moderately compact light brown/yellow silt containing few small stones. Likely plough soil or hillwash.	-	(002) Moderately compact, light brown/yellow silty clay and gravel containing frequent stones.	Subsoil overcut slightly to investigate clay pockets. Clay determined to be natural.
3	50	2	0.92	(001) 0.38m of moderately compact, dark grey/brown loam. Contained few small stones	(003) 0.44m of moderately compact dark brown/grey silt containing few small stones. Likely plough soil or hillwash.	-	(002) Moderately compact, light brown/yellow sandy silt. Contained clay pockets, gravel and frequent stones.	-
4	50	2	0.6	(001) 0.34m of moderately compact, dark grey/brown loam. Contained occasional small stones.	(003) 0.26m of moderately compact dark brown/grey silt containing few small stones. Likely plough soil or hillwash.	-	(002) Moderately compact, light brown/yellow sandy silt and gravel. Contained clay pockets, and gravel	-

Tr No	Length (m)	Width (m)	Depth (m)	Topsoil/ Overburden	Intermediate Deposit	Intermediate Deposit	Subsoil	Details
5	50	2	0.61	(001) 0.32m of moderately compact, dark grey/brown loam. Contained few small stones.	(003) 0.29m of moderately compact dark brown/grey silt containing few small stones. Likely plough soil or hillwash.	-	(002) Moderately compact, light brown/yellow sandy silt. Contained clay pockets, and gravel.	-
6	50	2	0.59	(001) 0.31m of moderately compact, dark grey/brown loam. Contained few small stones.	(003) 0.28m of moderately compact dark brown/grey silt containing few small stones. Likely plough soil or hillwash.	-	(002) Moderately compact, light brown/yellow sandy silt and gravel. Contained clay pockets, and gravel.	-
7	50	2	0.73	(001) 0.32m of moderately compact, dark grey/brown loam. Contained few small stones.	-	-	(002) Heavily compact, dark grey/pinkish brown (mottled) clay. Contained frequent degraded stone/bedrock.	One possible feature investigated – not archaeological. Likely a stone hole.
8	50	2	0.3	(001) 0.30m of moderately compact, dark grey/brown loam. Contained few small stones.	-	-	(002) Moderately compact, yellow/grey silty clay. Many large and small stones.	-
9	50	2	0.4	(001) 0.35m of moderately compact, dark brown/grey silty loam. Frequent roots and small stones.	(003) 0.15m of moderately compact light-mid brown silt containing small pebbles. Hillwash (only at centre c.5m) .	-	(002) Very compact, light yellow/beige sandy clay. Contained frequent stones.	-
10	50	2	0.3	(001) 0.30m of moderately compact, dark brown/grey silty loam. Contained frequent small stones and roots.	-	-	(002) Very compact, mid orange/brown silty gravel. Contained frequent cobble sized stones.	-
11	50	2	Up to 0.85	(001) Up to 0.30m of moderately compact, mid-dark brown/grey silty loam. Contained pebbles and roots.	(003) Up to 0.60m of moderately compact light brown silt containing few pebbles and small roots. Hillwash.	-	(002) Very compact, light mottles grey/yellow/pink sandy clay with stone. Contained grey stone (granite?)	Deep hillwash down-slope at NE end.

Tr No	Length (m)	Width (m)	Depth (m)	Topsoil/ Overburden	Intermediate Deposit	Intermediate Deposit	Subsoil	Details
12	50	2	Up to 0.5	(001) 0.30m of moderately compact dark brown/grey silty loam. Contained small pebbles and roots.	(003) 0.20m of moderately compact mid brown silt containing few pebbles and small roots. Hillwash at NE end down slope.	-	(002) Very compact, light grey/ yellow sandy clay containing stones.	-
13	50	3	Up to 0.95	(001) 0.40m of moderately compact dark brown/grey loam. Contained frequent small stones and roots.	(003) 0.45m of moderately compact mid reddish brown silt containing small pebbles and roots. Hillwash.	-	(002) Very compact, light-mid orange/beige silty gravel containing frequent stones.	Deepest at down-slope SE. N-S drainage.
14	50	2	0.45	(001) 0.40m of moderately compact dark brown/grey loam. Contained frequent stones, pebbles and roots.		-	(002) Very compact mid orange/ brown silty gravel containing frequent stones.	NE-SW rubble drains
15	50	2	0.4	(001) 0.35m of moderately compact dark brown/grey silty loam. Contained frequent small stones, pebbles and roots.	(003) 0.10-15m of moderately compact mid brown silt containing occasional pebbles. Plough soil – undulating thin deposit at NW end.	-	(002) Very compact, light yellow/ beige/grey sand/silt/clay. Contained frequent stones/ pebbles.	NE-SW drainage
16	50	2	0.5	(001) 0.40m of moderately compact dark brown/grey silty loam. Contained frequent small stones and roots.	(003) 0.10m of moderately compact light-mid brown silt containing occasional pebbles. Plough soil.	-	(002) Very compact, light orange gravelly silt/sand. Contained frequent stones – sandstone.	NE-SW ceramic drainage
17	50	2	0.55	(001) 0.40m of moderately compact dark brown/grey silty loam. Contained frequent small stones and roots.	(003) 0.15m of moderately compact mid reddish brown silt containing occasional pebbles and fine roots. Plough soil.	-	(002) Very compact light beige grey/yellow sandy clay. Contained occasional stones.	N-S/NW-SE rubble drainage. 1 possible pit?
18	50	2	0.5	(001) 0.30m of moderately compact dark brown/grey silty loam. Contained small stones and roots.	(003) 0.15 - 0.20m of moderately compact mid reddish brown silt containing few pebbles. Hillwash.	-	(002) Very compact light beige/ orange sandy clay. Contained frequent stones and cobbles.	-

Tr No	Length (m)	Width (m)	Depth (m)	Topsoil/ Overburden	Intermediate Deposit	Intermediate Deposit	Subsoil	Details
19	50	2	0.40 (up to 0.90 at SE	(001) 0.30m of loose-moderately compact dark brown/grey silty loam. Contained frequent small pebbles and roots.	(003) Up to 0.55m of moderately compact mid reddish brown silt. Contained occasional pebbles. Hillwash – only at down slope SE end.	-	(002) Very compact, light grey/ yellow sandy clay containing frequent stones.	N-S rubble drainage
20	50	2	0.5	(001) 0.30m of moderately compact dark brown/grey silty loam. Contained frequent small stones and roots.	(003) 0.2m of moderately compact mid-light brown silt containing occasional pebbles and small roots. Hillwash.	-	(002) Very compact, light orange/ beige sandy/ silty clay containing frequent stones.	Five prehistoric features 20004-20014 E-W drainage
21	50	2	0.36	(001) 0.36m of moderately compact dark grey/brown loam. Contained few small stones.	-	-	(002) Moderately compact, yellow/grey silty clay. Contained frequent large and small stones.	-
22	50	2	0.55	(001) 0.28m of moderately compact dark brown/grey silty loam. Contained frequent small stones.	(003) 0.25m of moderately compact mid reddish brown silt containing few pebbles. Likely plough soil or hillwash.	-	(002) Very compact light grey/ yellow/orange sandy clay. Contained frequent stones.	E-W drainage
23	50	2	Up to 0.6	(001) 0.28m of moderately compact dark brown/grey silty loam. Contained frequent small stones and roots.	(003) 0.30m of moderately compact mid reddish brown silt containing occasional pebbles. Hillwash – only at SE end down slope.	-	(002) Very compact, light grey/ yellow sandy clay containing frequent stones.	N-S/NE-SW drainage
24	50	2	0.4	(001) 0.35m of moderately compact dark brown/grey silty loam. Contained frequent small stones and roots.	-	-	(002) Very compact, light grey/ yellow sandy clay containing frequent stones/ cobbles.	NW-SE drainage
25	50	2	0.4	(001) 0.35m of moderately compact dark brown/grey silty loam. Contained frequent small stones and roots.	-	-	(002) Very compact, light-mid orange silty clay/gravel containing frequent stones.	-

Tr No	Length (m)	Width (m)	Depth (m)	Topsoil/ Overburden	Intermediate Deposit	Intermediate Deposit	Subsoil	Details
26	50	2	Up to 0.7	(001) 0.40m of moderately compact dark brown/grey silty loam. Contained occasional small stones and roots.	(003) 0.30m of moderately compact mid reddish brown silt containing occasional pebbles. Hillwash.	-	(002) Very compact, light grey/ orange sandy clay containing frequent stones/ cobbles.	E-W drainage NW-SE rubble drains
27	50	2	Up to 0.6	(001) 0.30m of moderately compact dark brown/grey silty loam. Contained occasional small stones and roots.	(003) 0.30m of moderately compact mid reddish brown silt containing occasional few pebbles/small roots. Likely hillwash or plough soil.	-	(002) Very compact, light grey/ orange sandy clay containing frequent small stones and some cobbles.	N-S drainage
28	50	2	0.55	(001) 0.30m of moderately compact dark brown/grey silty loam.	(003) 0.20m of moderately compact mid brown silt containing occasional small stones. Likely hillwash or plough soil.	-	(002) Very compact, light grey/ orange sandy clay containing occasional stones.	N-S drainage
29	50	2	0.79	(001) 0.33m of moderately compact dark grey/brown loam. Contained few small stones.	(003) 0.46m of friable pinkish brown/grey silt containing few small stones. Likely hillwash or plough soil.	-	(002) Moderately compact, orange/brown silty clay. Contained frequent large and small stones.	Possible plough scar or furrow approx 4m from SW end of trench. 2 field drains, approx 35m and 46m from SW end of trench.
30	50	2	0.74	(001) 0.32m of moderately compact dark grey/brown loam. Contained few small stones.	(003) 0.42m of friable pinkish brown/grey silt containing some dark organic banding. Likely hillwash or plough soil.	-	(002) Moderately compact, yellow/grey silty clay. Contained frequent large and small stones.	-
31	50	2	0.3	(001) 0.30m of moderately compact dark grey/brown loam. Contained few small stones.	-	-	(002) Moderately compact, yellow/grey silty clay. Contained frequent large and small stones.	Overcut in some areas.
32	50	2	0.33	(001) 0.33m of moderately compact dark grey/brown loam. Contained few small stones.	-	-	(002) Moderately compact, yellow/grey silty clay. Contained frequent large and small stones.	-

Tr No	Length (m)	Width (m)	Depth (m)	Topsoil/ Overburden	Intermediate Deposit	Intermediate Deposit	Subsoil	Details
33	50	2	0.32	(001) 0.33m of moderately compact dark grey/brown loam. Contained few small stones.	-	-	(002) Moderately compact, pale brown/yellow sandy clay. Contained frequent large and small stones.	-
34	50	2	0.63	(001) 0.31m of moderately compact dark grey/brown loam. Contained few small stones.	(003) 0.32m of friable medium brown silt containing few small stones. Likely hillwash or plough soil.	-	(002) Moderately compact, light brown/yellow silty clay. Contained frequent large and small stones.	3 E-W field drains
35	50	2	0.82	(001) 0.40m of moderately compact dark grey/brown loam. Contained few small stones.	(003) 0.42m of friable medium orange/brown silt containing few small stones. Some dark organic banding towards the SE end. Likely hillwash or plough soil.	-	(002) Heavily compact, dark brown/grey silt and gravel. Contained frequent large stones and gravel.	N-S field drain beginning approx. 3m from the SE trench edge
36	50	2	0.56	(001) 0.32m of moderately compact dark grey/brown loam. Contained few small stones.	(003) 0.24m of friable pale orange/brown/grey mottled sandy silt. Contained few small stones. Likely hillwash or plough soil.	-	(002) Moderately compact, pale pinkish brown/yellow silty clay. Contained frequent large and small stones.	-
37	50	2	0.6	(001) 0.35m of moderately compact dark brown/grey loam. Contained small stones and roots.	(003) 0.30m of moderately compact mid reddish brown silt containing occasional small stones. Likely hillwash or plough soil.	-	(002) Very compact, mixed mottled yellow/orange/pink sandy clay containing frequent cobble sized stones.	E-W rubble drainage
38	50	2	0.5	(001) 0.30m of moderately compact dark brown/grey loam. Contained stones and small roots.	(003) 0.15m of moderately compact mid reddish brown silt containing few pebbles. Likely hillwash or plough soil.	-	(002) Very compact, light grey/pink/beige sandy clay containing frequent stones.	E-W drainage
39	50	2	0.35	(001) 0.30m of moderately compact dark brown/grey loam. Contained frequent pebbles and small roots.	-	-	(002) Very compact, light grey/orange sandy clay containing frequent stones and small cobbles.	N-S plough scarring E-W drainage

Tr No	Length (m)	Width (m)	Depth (m)	Topsoil/ Overburden	Intermediate Deposit	Intermediate Deposit	Subsoil	Details
40	50	2	0.45	(001) 0.40m of moderately compact dark brown/grey silty loam. Contained occasional small stones and roots.	(003) 0.05m of moderately compact mid reddish brown silt containing few pebbles. Likely hillwash or plough soil.	-	(002) Very compact, light grey/ yellow sandy clay containing occasional stones.	-
41	50	2	0.45	(001) 0.40m of moderately compact dark brown/grey loam. Contained occasional small stones and roots.	-	-	(002) Very compact, mottled light yellow/grey sandy clay. Contained frequent stones.	2 x features investigated 41004-41006 at SW end of trench.
42	50	2	0.72	(001) 0.37m of moderately compact dark grey/brown loam. Contained few small stones.	(003) 0.36m of friable medium brown silt containing few small stones. Likely hillwash or plough soil.	-	(002) Moderately compact, pale brown/yellow silty clay. Contained frequent large and small stones.	-
43	50	2	1.12	(001) 0.33m of moderately compact dark grey/brown loam. Contained few small stones.	(003) 0.37m of friable medium brown silt containing few small stones. Likely hillwash or plough soil.	(004) 0.42m of moderately compact dark brown/grey silty clay. Hillwash – present from 10m to 25m from SW end of trench).	(002) Moderately compact, pale brown/yellow silty clay. Contained frequent large and small stones.	-
44	50	2	0.71	(001) 0.35m of moderately compact dark grey/brown loam. Contained few small stones.	(003) 0.36m of friable medium brown silt with pale brown banding. Contained few small stones. Likely hillwash or plough soil.	-	(002) Moderately compact, pale brown/ yellow sandy/ silty clay. Contained frequent large and small stones.	-
45	50	2	0.65	(001) 0.30m of moderately compact dark brown/grey loam. Contained occasional small stones and roots.	(003) 0.35m of moderately compact mid brown silt with containing occasional stones. Likely hillwash or plough soil. Deepest down slope at SE end of trench.	-	(002) Very compact, light orange/ beige sandy clay containing small stones and some cobbles.	-

Tr No	Length (m)	Width (m)	Depth (m)	Topsoil/ Overburden	Intermediate Deposit	Intermediate Deposit	Subsoil	Details
46	50	2	0.8	(001) 0.40m of moderately compact dark brown/grey loam. Contained frequent small stones and roots.	(003) 0.35m of moderately compact mid brown silt with containing occasional pebbles. Likely hillwash or plough soil.	-	(002) Very compact, light orange/ beige sandy clay containing occasional stones.	N-S and E-W rubble drains
47	50	2	0.4	(001) 0.35m of moderately compact dark brown/grey loam. Contained frequent small stones and roots.	-	-	(002) Very compact, light beige/ yellow sandy clay containing frequent stones and some cobbles.	E-W drainage
48	50	2	0.8	(001) 0.35m of moderately compact dark brown/grey loam. Contained frequent small stones and roots.	(003) 0.45m of moderately compact mid brown silt with containing occasional pebbles and roots. Likely hillwash or plough soil.	-	(002) Very compact, light grey/ orange sandy clay containing frequent stones and some cobbles.	N-S drainage and E-W rubble drainage
49	50	2	0.33	(001) 0.33m of moderately compact dark grey/brown loam. Contained few small stones.	-	-	(002) Moderate - heavily compact, pale yellow brown sandy clay on SE end, mixed gravel/ degraded stone/clay towards NW. Contained frequent large and small stones.	-
50	50	2	1	(001) 0.33m of moderately compact dark grey/brown loam. Contained small stones.	(003) 0.37m of friable mid brown silt containing few small stones. Plough soil.	(004) 0.42m of moderately compact very dark brown/ grey silty clay – organic rich, peaty deposit. Hillwash.	(002) Moderately compact, pale grey/yellow sandy clay. Contained frequent large and small stones.	-
51	50	2	0.3 at SW end, up to 1.3m at NE end	(001) 0.30m of moderate - loosely compact dark brown/grey loam. Contained frequent small stones and roots.	(003) Up to 0.50m of moderately compact mid brown silt containing few pebbles. Plough soil.	(004) 0.35m (up to 0.45m) of very compact dark grey/black organic peaty material. Hillwash.	(002) Very compact, light beige/ yellow sandy clay containing frequent stones and some bedrock. Bedrock seam at the top of the hill at the SW end.	Possible quarrying Deep deposits at NE down slope.

Tr No	Length (m)	Width (m)	Depth (m)	Topsoil/ Overburden	Intermediate Deposit	Intermediate Deposit	Subsoil	Details
52	50	2	1.26	(001) 0.40m of moderately compact dark grey/brown loam. Contained small stones.	(003) 0.42m of friable medium brown/grey silt containing few small stones. Plough soil.	(004) 0.44m of moderately compact very dark brown/grey silty clay – organic rich, peaty deposit. Hillwash.	(002) Moderately compact, pale brown/yellow silty clay. Contained frequent large and small stones. Changes from clay to heavily compact degraded bedrock approx. 17m from SW end of trench.	-
53	50	2	0.81	(001) 0.39m of moderately compact dark grey/brown loam. Contained small stones.	(003) 0.42m of friable medium brown/grey silt containing few small stones. Plough soil.	-	(002) Moderately compact, pale pinkish brown/yellow sandy clay. Contained frequent large and small stones.	-
54	50	2	0.66	(001) 0.39m of moderately compact dark grey/brown loam. Contained small stones.	(003) 0.27m of friable medium brown silt (with pale brown banding) containing few small stones. Plough soil.	-	(002) Mostly moderately compact pinkish brown clay containing frequent degraded stone/gravel. First 5m of subsoil from SW trench edge was pale yellow/brown sand.	-
55	50	2	0.51	(001) 0.31m of moderately compact dark grey/brown loam. Contained small stones.	(003) 0.20m of friable medium pinkish brown silt (with pale brown banding) containing few small stones. Plough soil.	-	(002) Moderately compact, mottled pinkish brown clay containing frequent large and small stones.	-
56	50	2	Up to 0.9 at bank, mostly c. 0.4	(001) 0.30m of moderately compact dark brown/grey loam. Contained frequent small stones and roots.	(003) Up to 0.25m of moderately compact mid reddish brown silt containing occasional small stones and roots. Bank material, only located at bank and NE end.	(004) 0.15m of very compact dark grey/black sandy clay/peat containing few roots. Organic material located at bank where trees have been planted – likely due to root action etc.	(002) Heavily compact, light brown/beige/orange sandy clay. Contained occasional stones	2 x prehistoric pits 56005-56009 Trench truncates bank of old fence line – nothing present here other than deeper deposits. Also large linear ditch – likely for drainage purposes, contains rubble drain etc.

Tr No	Length (m)	Width (m)	Depth (m)	Topsoil/ Overburden	Intermediate Deposit	Intermediate Deposit	Subsoil	Details
57	50	2	0.6	(001) 0.30m of moderately compact dark brown/grey loam. Contained frequent small roots.	(003) Up to 0.25m of moderately compact mid-light brown silt containing occasional small pebbles. Plough soil.	-	(002) Heavily compact, light beige/orange sandy clay. Contained frequent stones and cobbles.	N-S drainage
58	50	2	0.35	(001) 0.30m of moderately compact dark brown/grey silty loam. Contained frequent pebbles and small roots.	(003) 0.15m-0.25m of moderately compact mid brown silt containing occasional small pebbles. Plough soil. Only at centre c. 15m	-	(002) Very compact, light grey/beige/orange silty clay/ fine gravels containing frequent stones. Some bedrock seams	Occasional possible NW-SE plough scars
59	50	2	0.35 (Up to 0.70m)	(001) 0.35m of moderately compact dark brown/grey silty loam. Contained occasional small stones and roots.	(003) Up to 0.30m of moderately compact mid reddish brown silt containing few pebbles. Hillwash – only at NW down slope.	-	(002) Very compact, mottled grey/yellow sandy clay. Contained frequent stones and cobbles.	NW-SE rubble drainage
60	50	2	0.4	(001) 0.40m of moderately compact dark brown/grey silty loam. Contained occasional small stones and roots.	-	-	(002) Very compact, light grey/beige/orange sandy clay. Contained frequent stones.	-
61	50	2	0.55	(001) 0.35m of moderately compact dark grey/brown loam. Contained small stones.	(003) 0.20m of friable, medium pinkish brown silt containing occasional small stones. Likely hillwash or plough soil.	-	(002) Mostly moderately compact mottled orange/ brown clay containing frequent degraded stone and gravel. Yellow/brown sandy clay in some areas, containing frequent large and small stones.	-
62	50	2	0.55	(001) 0.35m of moderately compact dark brown/grey silty loam. Contained frequent pebbles and small roots.	(003) Up to 0.20m of moderately compact mid brown silt containing few pebbles. Plough soil.	-	(002) Very compact, light-mid grey/orange/ brown sandy clay. Contained frequent stones.	NW-SE drainage

Tr No	Length (m)	Width (m)	Depth (m)	Topsoil/ Overburden	Intermediate Deposit	Intermediate Deposit	Subsoil	Details
63	50	2	Up to 0.6	(001) 0.28m of moderately compact dark grey/brown silty loam. Contained frequent small stones roots.	(003) Up to 0.30m of moderately compact mid-light reddish brown silt containing few pebbles. Plough soil.	-	(002) Very compact, light grey/orange/beige sandy clay. Contained occasional stones/gravel.	1 x large prehistoric pit 63004-63006 N-S and NW-SE drainage
64	50	2	Up to 0.70	(001) 0.33m of moderately compact dark grey/brown silty loam. Contained frequent small stones roots.	(003) Up to 0.32m of moderately compact mid reddish brown silt containing few pebbles. Plough soil – located down slope SW.	-	(002) Very compact, light pinkish grey/orange sandy clay. Contained frequent stones and cobbles.	
65a	30	2	Up to 0.60	(001) 0.37m of moderately compact dark brown/grey silty loam. Contained frequent small stones and roots.	(003) Up to 0.32m of moderately compact mid brown silt containing few pebbles. Plough soil.	(004) 0.15m of very compact dark grey/black peaty clay containing organic material. Hillwash – only at SW end.	(002) Very compact, light grey pinkish beige silty clay. Contained frequent stones.	NW-SE drainage
65b	20	2	0.35	(001) 0.35m of moderately compact dark brown/grey silty loam. Contained frequent small stones and roots.	-	-	(002) Very compact, light grey/orange silty clay and gravel. Contained frequent stones.	-
66	50	2	0.48	(001) 0.33m of moderately compact dark grey/brown loam. Contained few small stones.	(003) 0.15m of friable pinkish medium brown silt containing few small stones. Possible natural banding or undulating deposit of plough soil/hillwash.	-	(002) Moderately compact, pale brown/yellow sandy clay and gravel. Contained frequent large and small stones.	-
67	50	2	0.36	(001) 0.36m of moderately compact dark grey/brown loam. Contained few small stones.	-	-	(002) Moderately compact mottled orange/reddish brown sandy clay containing clay pockets and frequent degraded stone.	-

Tr No	Length (m)	Width (m)	Depth (m)	Topsoil/ Overburden	Intermediate Deposit	Intermediate Deposit	Subsoil	Details
68	50	2	0.4	(001) 0.35m of moderately compact dark grey/brown silty loam. Contained occasional small stones and roots.	-	-	(002) Very compact, light beige/ orange sandy clay. Contained frequent stones.	N-S and NW-SE rubble drainage
69	17.5	2	0.3	(001) 0.30m of moderately compact dark brown/grey silty loam. Contained occasional small stones and roots.	-	-	(002) Very compact, light grey/ orange. Some bedrock at NE end of trench.	N-S drainage
70	50	2	0.5	(001) 0.35m of moderately compact dark grey/ brown silty loam. Contained frequent pebbles and small roots.	(003) Up to 0.15m of moderately compact mid brown silt containing few small stones. Plough soil – only at SE end of trench.	-	(002) Very compact, light beige/ orange sandy clay. Contained frequent stones.	N-S drainage, NW-SE rubble drainage
71	50	2	0.6	(001) 0.32m of moderately compact dark grey/brown loam. Contained few small stones.	(003) 0.28m of friable, medium pinkish brown silt containing occasional small stones. Likely hillwash or plough soil.	-	(002) Mostly moderately compact pale brown/yellow sandy clay. Contained degraded stone and gravel. In some areas the subsoil was a pinkish brown clay containing frequent stones.	-
72	50	2	0.58	(001) 0.36m of moderately compact dark grey/brown loam. Contained few small stones.	(003) 0.22m of friable, medium pinkish brown silt containing occasional small stones. Likely hillwash or plough soil.	-	(002) Moderately compact, patchy degraded stone/gravel in mottled pale yellow/ brown or pinkish brown clay.	-
73	50	2	0.7	(001) 0.30m of moderately compact dark grey/brown loam. Contained occasional stones and roots.	(003) 0.35m of moderately compact reddish brown silt containing few small stones. Plough soil.	-	(002) Very compact, light beige/ grey sandy clay. Contained occasional stones.	NE-SW rubble drainage

Tr No	Length (m)	Width (m)	Depth (m)	Topsoil/ Overburden	Intermediate Deposit	Intermediate Deposit	Subsoil	Details
74	50	2	0.35	(001) 0.30m of moderately compact dark brown/grey loam. Contained frequent stones and roots.	-	-	(002) Very compact, light orange/ beige silty sand. Contained frequent stones, some bedrock seams and boulders.	N-S rubble drainage
75	50	2	0.4	(001) 0.35m of moderately compact dark brown/grey silty loam. Contained frequent small stones and roots.	-	-	(002) Very compact, light pinkish beige/ orange silty/ sandy clay. Contained frequent stones.	NW-SE drainage
76	50	2	0.5	(001) 0.32m of moderately compact dark grey/brown loam. Contained few small stones.	(003) 0.18m of friable, medium pinkish brown silt containing occasional small stones. Likely hillwash or plough soil.	-	(002) Moderately compact, pale brown/ yellow sandy/ silty clay. Contained frequent large and small stones.	-
77	50	2	0.35	(001) 0.30m of moderately compact dark grey/ brown silty loam. Contained frequent pebbles and small roots.	-	-	(002) Very compact, light beige/ orange sandy clay. Contained frequent stones and cobbles.	E-W rubble drainage
78	50	2	0.35	(001) 0.30m of moderately compact dark brown/grey loam. Contained frequent small stones and roots.	-	-	(002) Very compact, light beige/ orange silty gravel/ clay. Contained frequent stones.	N-S rubble drainage
79	50	2	0.35	(001) 0.30m of moderately compact dark brown/grey loam. Contained frequent pebbles and small roots.	-	-	(002) Very compact, light pink beige/orange sandy clay. Contained frequent stones and cobbles.	N-S rubble drainage
80	50	2	0.35	(001) 0.30m of moderately compact dark brown/grey loam. Contained frequent small stones and roots.	-	-	(002) Very compact, light-mid pinkish orange silt clay/gravel. Contained frequent stones and cobbles.	-

Appendix C: List of Contexts

Context No	Area	Description	Interpretation
20001	Tr. 20	Moderately compact, dark brown/grey loam containing small stones and roots. Machine stripped in fair conditions.	Topsoil of Tr. 20. Lies above intermediate layer (20003) at SE end of trench and subsoil (20002) elsewhere.
20002	Tr. 20	Very compact, light grey/yellow sandy clay containing frequent stones. Revealed by machine, dry conditions.	Subsoil in Tr. 20. Lies beneath topsoil (20001) or intermediate deposit (20003). Contains prehistoric pits [20006], [20008] and [20010].
20003	Tr. 20	Moderately compact, mid reddish brown silt containing few pebbles. Thickness = 0.30m, machine stripped in fair conditions.	Intermediate hillwash at SE end of trench, down the slope. Located between topsoil (20001) and subsoil (20002).
20004	Tr.20	Moderately compact, mid yellow/brown silt containing small stones. Excavated by hand, fair conditions. Dimensions = 0.40m (l) x 0.40m (w) x 0.04m (d).	Top fill of pit [20006]. Overlies fill (20005), possibly silted in overburden/hillwash after feature use. SW most pit of group.
20005	TR. 20	Moderately compact, dark blackish brown silt containing stones and charcoal flecks. Excavated by hand, fair conditions. Dimensions = 0.70m (l) x 0.90m (w) x 0.10m (d).	Main fill of pit [20006]. Underlies upper fill (20004). Prehistoric, contained material culture – pottery frags (SF.001, SF.002 and SF.005). SW most pit of group.
20006	Tr.20	Round pit cut with gently sloping sides and a concave, rounded base. Gradual break of slope (top). Dimensions = 0.70m (l) x 0.50m (w) x 0.14m (d).	Cut of prehistoric pit, contains two fills (20004) and (20005). SW most pit of group in Tr.20, cut into subsoil (20002).
20007	Tr. 20	Moderately compact, mid blackish brown silt containing stones and charcoal flecks. Excavated by hand, freezing conditions. Dimensions = 0.65m (l) x 0.65m (w) x 0.17m (depth). Contaminated by probable burrowing.	Fill of pit [20008]. Located slightly SE of pit [20006] and SW of pit [20010].
20008	Tr. 20	Round pit cut with steeply sloping sides and a concave, rounded base. Sharp break of slope (top). Dimensions = 0.65m (l) x 0.65 (w) x 0.17m (d).	Cut of pit, fill (20007). Located slightly SE of pit [20006], and SW of pit [20010].
20009	Tr. 20	Moderately compact, dark orange/brown silt containing pebbles. 50 % excavated by hand, freezing conditions. Dimensions = 0.57m (extent) x 0.11m (depth).	Upper of pit [20010], above fill (20011). Likely silted in hillwash after feature use. Located NE of pit [20010] and N of pit [20006].
20010	Tr. 20	Round pit cut with steeply sloping sides and a concave, rounded base. Sharp break of slope (top). Dimensions = 0.76m (l) x 0.72m (w) x 24m (d).	Cut of pit, fills (20009) and (20010). Located NE of pit [20006] and N of pit [20008].
20011	Tr. 20	Moderately compact, mid blackish brown silt containing small pebbles and charcoal flecks. 50% excavated by hand, freezing conditions. Dimensions = 0.34m (extent) x 0.24m (depth). Contaminated by probable burrowing.	Fill of pit [20010] on NE side.
20012	Tr. 20	Moderately compact, mid grey/brown silt containing small stones. 50% excavated by hand, fair conditions. Dimensions = 0.65m (l) x 0.40m (w) x 0.08m (d).	A small deposit located to the E of pits [20006], [20008], [20010], and N of pit [20014]. Deposit may be product of burrowing, or a feature heavily disturbed by burrowing.
20013	Tr. 20	Moderately compact, mid blackish grey silt containing small stones and charcoal flecks. 50% excavated by hand, fair conditions. Dimensions = 0.82m (l) x 0.60m (w) x 0.13m (d).	Fill of prehistoric pit cut [20014]. Located to the E of pits [20006], [20008], [20010] and deposit (20012).
20014	Tr. 20	Subcircular pit cut with gently sloping sides and a concave, rounded base. Sharp break of slope (top). Dimensions = 0.82m (l) x 0.60m (w) x 0.13m (d).	Cut of pit, fill (20013). Located to the E of pits [20006], [20008], [20010] and deposit (20012).
29001	Tr. 29	Moderately compact, dark brown/grey loam containing frequent small stones and roots. Machine stripped, dry conditions. Depth = 0.33m.	Topsoil at Tr. 29.
29002	Tr. 29	Very compact, light brown/orange silty clay containing frequent stones and cobbles. Revealed by machine, dry conditions.	Subsoil at Tr. 29.

Context No	Area	Description	Interpretation
29003	Tr. 29	Moderately compact, pinkish brown/grey silt containing few small stones. Machine stripped, dry conditions. Depth = 0.46m.	Intermediate plough soil at Tr. 29
29004	Tr. 29	Friable, grey/brown silty clay containing small stones. Excavated by hand, dry conditions. Dimensions = 1.10m (extent) x 0.30m (depth).	The fill of a small field drain/possible furrow.
29005	Tr. 29	Subrectangular cut for possible field drain/furrow oriented NW-SE. It features gently sloping sides and a stepped, concave base. Gentle break of slope – top and base. Slot dimensions = 1.10m (l) x 0.30m (w) x 0.30m (d).	Possible field drain cut, fill (29004). May be the base of a furrow, but no evidence of a further system of furrows was identified.
41001	Tr. 41	Friable, dark brown/grey silty loam containing small stones and roots. Machine stripped in fair conditions.	Topsoil at Tr. 41.
41002	Tr. 41	Friable, light mottled yellow/grey sandy clay containing stones. Machine exposed in fair conditions.	Subsoil at Tr. 41.
41004	Tr. 41	Friable, dark grey/brown silty clay containing stones. 50% excavated, dry conditions. Dimensions = 0.48m x 0.52m (extent), 0.20m (depth).	The fill of a small pit or posthole cut [41006]. Ground water fills bottom 2cm of feature. Cobble sized stones in surrounding (41002) could have acted as support for a post?
41005	Tr. 41	Friable, dark grey/brown silty clay containing stones. Excavated by hand, dry conditions. Dimensions = 0.48m x 0.32m (extent), 0.03m (depth).	Trapped overburden deposit amongst stone inclusions in subsoil – not archaeological.
41006	Tr. 41	Suboval pit or posthole cut with steeply sloping sides and a flat base. Gentle break of slope – top and base. Dimensions = 0.52m (l) x 0.48m (w) x 0.20m (d).	Cut for a pit or posthole. Fill (41004).
56001	Tr. 56	Moderately compact, dark brown/grey loam containing frequent small stones and roots. Machine stripped, fair conditions.	Topsoil at Tr. 56.
56002	Tr. 56	Very compact, beige/brown/orange sandy clay containing occasional stones. Revealed by machine, dry conditions.	Subsoil at Tr. 56.
56003	Tr. 56	Moderately compact, mid reddish brown silt containing occasional small stones and roots. Machine stripped, dry conditions. Depth = 0.25m.	Upper intermediate deposit within Tr. 56, present only at the bank and NE end of the trench. Likely to be bank material, hillwash or plough soil.
56004	Tr. 56	Very compact, dark grey/ black sandy clay/peat, containing few roots. Machine stripped, dry conditions. Depth = 0.15m.	Lower intermediate deposit of organic material at bank where trees have been planted – likely the product of root activity etc.
56005	Tr. 56	Friable, dark grey/brown silty clay containing heat cracked/scorched stones and charcoal. Excavated by hand, dry conditions. Dimensions = 1.46m (l) x 1.19m (w) x 0.24m (d)	Fill of pit [56007], contained heat cracked/scorched stones and charcoal. Likely associated with burning activity.
56006	Tr. 56	Very compact, mixed stones lining pit cut [56007]. Appears to extend around the base of the feature and round the sides of the cut. Excavated by hand, wet conditions. Not removed in order to preserve for the excavation of the other 50% of the feature.	Appears to be a stone lining around the cut of pit [56007], below the main burnt fill (56005). The upper levels of some of the stones are heat affected, either from in situ burning or the heat of the upper deposit when deposited. No similar lining was evident in neighbouring pit [56009].
56007	Tr. 56	Suboval pit cut with concave sides and a flat base. Gentle break of slope – top and base. Dimensions = 1.46m (l) x 1.19m (w) x 0.24m (d)	Cut for a charcoal and stone filled pit. Fill (56005).
56008	Tr. 56	Friable, dark brown/grey silty clay containing charcoal, stones and material culture (lithics). Excavated by hand, wet conditions. Dimensions = 1.44m x 1.28m (extent), 0.26m (depth).	Fill of pit [56009]. A small prehistoric pit containing charcoal, stones and material culture (lithics).
56009	Tr. 56	Subcircular pit cut with concave sides and a concave, slightly sloping base. Gentle break of slope – top and base. Dimensions = 1.44m (l) x 0.128m (w) x 0.26m (d).	Cut for fill of small prehistoric pit (56008) containing charcoal, stones and material culture – lithic (SF.006).

Context No	Area	Description	Interpretation
63001	Tr. 63	Moderately compact, dark grey/brown loam containing frequent small stones and roots. Machine stripped, dry conditions. Depth = 0.28m.	Topsoil at Tr. 63.
63002	Tr. 63	Very compact, light grey/orange/beige sandy clay containing occasional stones/gravel. Machine exposed, dry conditions.	Subsoil at Tr. 63.
63003	Tr. 63	Moderately compact, mid-light reddish brown silt containing few pebbles. Machine stripped, dry conditions. Depth = 0.30m.	Intermediate plough soil in Tr. 63
63004	Tr. 63	Moderately compact, very dark grey/brown charcoal rich silt containing few small stones. Quadrant excavated by hand, wet conditions. Dimensions = 2.52m (extent), 0.16m (depth)	Lower of two fills of large prehistoric pit cut [63006]. Very charcoal rich, can be associated with a burning event. Fill contained material culture - frags of pot (SF.004) and a lithic (SF.003).
63005	Tr. 63	Moderately compact, light brown/beige sandy silt containing few stones and pebbles. Quadrant excavated by hand, wet conditions. Dimensions = 2.24m (extent), 0.40m (depth).	Upper of two fills of large prehistoric pit cut [63006]. Possibly windblown silt or hillwash covering fill (63004). Contained no material culture.
63006	Tr. 63	Large suboval pit cut oriented roughly N-S, with moderately sloping sides and a concave, undulating base. Moderate break of slope – top, gradual break of slope – base. Dimensions = 2.52m (l) x 1.48m (w) x 0.50m (d).	Cut for prehistoric pit fills (63004) and (63005).

Appendix D: List of Drawings

Drawing No	Area	Sheet No	Subject	Scale
1	Tr. 41	1	NW facing section of possible pit	1:10
2	Tr. 20	1	NE facing section	1:10
3	Tr. 20	1	SE facing section	1:10
4	Tr. 20	1	NW facing section	1:10
5	Tr. 20	1	N facing section	1:10
6	Tr. 20	2	NW facing section of pit	1:10
7	Tr. 20	2	Post-ex plan of five features in Tr. 20	1:20
8	Tr. 4	2	Post-ex plan of posthole in Tr 4	1:20
9	Tr. 56	2	Post-ex plan of pits in Tr. 56	1:20
10	Tr. 63	2	Post-ex plan of pit in Tr. 63	1:20
11	Tr. 63	2	W facing section of pit in Tr. 63	1:10
12	Tr. 63	2	N facing section of pit in Tr. 63	1:10

Appendix E: List of Finds

Find No	Area	Context No	No of Pieces	Material	Type	Description
1	Tr. 20	20005	1	ceramic	pottery	fragment of pot
2	Tr. 20	20005	1	ceramic	pottery	sherd of pot
3	Tr. 63	63004	1	lithic	flint	1 x yellow/brown fragment
4	Tr. 63	63004	5	ceramic	pottery	5 x fragments, prehistoric
5	Tr. 20	20005	2	ceramic	pottery	2 x fragments, prehistoric
6	Tr. 56	56008	1	lithic	flint	1 x possible scraper

Appendix F: List of Samples

Sample No	Area	Context No	Size	Reason for Sampling				Application/Comments
				Pot	Bone	Lithics	Botanics	
1	Tr. 29	4	1 x L					Fill of furrow
2	Tr. 20	20004	1 x L				*	Fill of prehistoric pit [20006]
3	Tr. 20	20005	1 x L				*	Fill of prehistoric pit [20006]

Sample No	Area	Context No	Size	Reason for Sampling				Application/Comments
				Pot	Bone	Lithics	Botanics	
4	Tr. 20	20007	1 x L				*	Fill of prehistoric pit [20008]
5	Tr. 20	20009	1 x L				*	Fill of prehistoric pit [20010]
6	Tr. 41	41004	1 x L					Fill of possible pit 41004
7	Tr. 41	41005	1 x L					Fill of possible pit 41005
8	Tr. 20	20011	1 x L				*	Fill of prehistoric pit [20010]
9	Tr. 20	20012	1 x L					Deposit
10	Tr. 20	20013	1 x L					Fill of possible pit
11	Tr. 56	56005	1 x L				*	Fill of pit
12	Tr. 56	56008	1 x L				*	Fill of prehistoric pit
13	Tr. 63	63004	1 x L				*	Fill of pit [63006]
14	Tr. 63	63005	1 x L				*	Fill of pit [63006]

Appendix G: List of Digital Images

Camera A: File 1

Frame	Area	Context	Subject	Taken from
1	T1	-	Post-ex shot of T1	SE
2	T2	-	ID shot of T2	-
3	T2	-	Section shot of T2	SW
4	T2	-	-	SW
5	T2	-	Post-ex shot of T2	SE
6	T3	-	ID shot of T3	-
7	T3	-	Section shot of T3	SE
8	T3	-	Post-ex shot of T3	NE
9	T4	-	ID shot of T4	-
10	T4	-	Section shot of T4	SE
11	T4	-	-	SE
12	T4	-	Post-ex shot of T4	SW
13	T5	-	ID shot of T5	-
14	T5	-	Section shot of T5	NE
15	T5	-	Post-ex shot of T5	NW
16	T6	-	ID shot of T6	-
17	T6	-	Section shot of T6	NW
18	T6	-	Post-ex shot of T6	SW
19	T7	-	ID shot of T7	-
20	T7	-	Section shot of T7	NE
21	T7	-	Pre-ex of possible feature	-
22	T7	-	Mid-ex of possible feature	-
23	T7	-	Section shot of T7	-
24	T7	-	Post-ex shot of T7	-
25	T8	-	ID shot of T8	-
26	T8	-	Section shot of T8	NW
27	T8	-	Post-ex shot of T8	-
28	T21	-	ID shot of T21	-
29	T21	-	Section shot of T21	-
30	T21	-	-	-
31	T21	-	Post-ex shot of T21	-
32	T32	-	ID shot of T32	-
33	T32	-	Section shot of T32	SE
34	T32	-	Post-ex shot of T32	NE
35	T31	-	ID shot of T31	-
36	T31	-	Section shot of T31	SE
37	T31	-	Post-ex shot of T31	SW

Frame	Area	Context	Subject	Taken from
38	T30	-	ID shot of T30	-
39	T30	-	Section shot of T30	NW
40	T30	-	Post-ex shot of T30	SW
41	T29	-	ID shot of T29	-
42	T29	-	Shot of possible feature	NE
43	T29	-	Shot of field drain	SW
44	T29	-	-	SW
45	T35	-	ID shot of T35	-
46	T35	-	Shot of field drain	NW
47	T35	-	-	NW
48	T35	-	Section shot of T35	SW
49	T34	-	ID shot of T34	-
50	T34	-	Section shot of T34	SW
51	T34	-	Shot of field drain	NW
52	T34	-	-	SE
53	T34	-	Post-ex shot of T34	SE
54	T34	-	Shot of field drain	SE
55	T33	-	ID shot of T33	-
56	T33	-	Section shot of T33	SW
57	T33	-	Post-ex shot of T33	SE
58	T44	-	ID shot of T44	-
59	T44	-	Post-ex shot of T44	SW
60	T44	-	Section shot of T44	SE
61	T43	-	ID shot of T43	-
62	T43	-	Section shot of T43	SE
63	T43	-	Post-ex shot of T43	NE
64	T42	-	ID shot of T42	-
65	T42	-	Section shot of T42	SW
66	T42	-	Post-ex shot of T42	SE
67	T36	-	ID shot of T36	-
68	T36	-	Shot of field drain	NW
69	T36	-	Section shot of T36	NE
70	T49	-	ID shot of T49	-
71	T49	-	Section shot of T49	SW
72	T49	-	Post-ex shot of T49	SE
73	T49	-	Post-ex shot of T49	NW
74	T50	-	Section shot of T50	-
75	T50	-	Working shot of T50	-
76	T50	-	Post-ex shot of T50	NW

File 2

Frame	Area	Context	Subject	Taken from
1	-	-	ID shot	-
2	T52	-	ID shot of T52	-
3	T52	-	Section shot of T52	NW
4	T52	-	Post-ex shot of T52 at 17m	SW
5	T52	-	Post-ex shot of T52 at 1m	SW
6	T53	-	ID shot of T53	-
7	T53	-	Section shot of T53	SE
8	T53	-	Post-ex shot of T53	NE
9	T54	-	ID shot of T54	-
10	T54	-	Section shot of T54	SE
11	T55	-	ID shot of T55	-
12	T55	-	Shot of field drain	NE

Frame	Area	Context	Subject	Taken from
13	T41	-	Pre-ex of possible pit	SW
14	T41	-	-	SW
15	T41	-	Pre-ex of two possible pits	SW
16	T55	-	Section shot of T55	SE
17	T55	-	Post-ex shot of T55	NE
18	T61	-	ID shot of T61	-
19	T61	-	Section shot of T61	SW
20	T61	-	Post-ex shot of T61	SE
21	T41	-	Mid-ex of NW-facing section	NW
22	T41	-	-	NW
23	T67	-	ID shot of T67	-
24	T67	-	Section shot of T67	NW
25	T67	-	Post-ex shot of T67	SW
26	T66	-	ID shot of T66	-
27	T66	-	Section shot of T66	SE
28	T66	-	Post-ex shot of T66	SW
29	T71	-	ID shot of T71	-
30	T71	-	Section shot of T71	SW
31	T71	-	Post-ex shot of T71	SE
32	T76	-	ID shot of T76	-
33	T76	-	Section shot of T76	NW
34	T76	-	Post-ex shot of T76	SW
35	T65b	-	TR 65b ID	-
36	-	-	SE facing section	SE
37	-	-	Post-ex shot of TR 65b	SW
38	T65a	-	TR 65a ID	-
39	-	-	SE facing section	SE
40	-	-	Post-ex shot of TR 65a	SW
41	T72	-	ID shot of TR 72	-
42	-	-	Section shot of TR 72	SW
43	-	-	Post-ex shot of TR 72	NW
44	T41	-	General post-ex shot	NW
45	-	-	-	SW
46	T20	(20009), (20011),[20010]	Post-ex shot of NW facing section	NE

Camera B: File 1

Frame	Area	Context No.	Subject	Taken from
1	-	-	ID shot	-
2	-	-	General shot of E Area	N
3	-	-	"	NE
4	-	-	"	E
5	-	-	"	S
6	-	-	"	NE
7	TR 1	-	TR 1 ID	-
8	TR 1	-	SW facing section	SW
9	-	-	General shot of SE area	E
10	TR 11	-	TR 11 ID	-
11	-	-	SE facing section	SE
12	-	-	Post-ex of NE end	SW
13	-	-	Post-ex of TR 11	SW
14	TR 12	-	TR 12 ID	-
15	-	-	NW facing section	NW
16	-	-	Post-ex NE end	NE
17	-	-	Post-ex TR12	SW

Frame	Area	Context No.	Subject	Taken from
18	TR 13	-	TR 13 ID	-
19	-	-	SW facing section	SW
20	-	-	Post-ex SE end	SE
21	-	-	Post-ex TR 13	NW
22	TR 14	-	TR 14 ID	-
23	-	-	SE facing section	SE
24	-	-	Post-ex T14	SW
25	TR 15	-	TR 15 ID	-
26	"	-	SW facing section	SW
27	"	-	Post-ex TR 15	NW
28	TR 16	-	TR 16 ID	-
29	-	-	SW facing section	SW
30	-	-	Burst ceramic drain at SE end	NE
31	-	-	Post-ex of TR 16	NW
32	TR 17	-	SE facing section	SE
33	-	-	Post-ex of TR 17	SW
34	TR 18	-	TR 18 ID	-
35	-	-	SE facing section	SE
36	-	-	Post-ex TR 18	NE
37	TR 19	-	TR 19 ID	-
38	-	-	SW facing section	SW
39	-	-	Working shot from NW	NW
40	-	-	NE facing section	NE
41	-	-	Post-ex TR 19	NE
42	TR 20	-	TR 20 ID	-
43	-	-	NE facing section	NE
44	-	-	Post-ex TR 20	NW
45	-	-	"	NW
46	-	-	Post-ex of SE end	NW
47	TR 23	-	TR 23 ID	-
48	-	-	SW facing section	SW
49	-	-	Post-ex TR 23	NW
50	TR 22	-	TR 22 ID	-
51	-	-	SW facing section	SW
52	-	-	Post-ex TR 22	NW
53	TR 9	-	TR 9 ID	-
54	-	-	NW facing section	NW
55	-	-	Post-ex TR 9	NE
56	TR 10	-	TR10 ID	-
57	-	-	SW facing section	SW
58	-	-	Post-ex TR 10	SE
59	-	-	General shot of middle area	SW
60	-	-	"	E
61	-	-	"	S
62	-	-	"	W
63	TR 26	-	TR 26 ID	-
64	-	-	NW facing section	NW
65	-	-	Post-ex TR 26	NE
66	TR 27	-	TR 27 ID	-
67	-	-	NW facing section	NW
68	-	-	Post-ex TR 27	NE
69	TR 28	-	TR 28 ID	-
70	-	-	NW facing section	NW
71	-	-	Post-ex TR 28	SW
72	TR37	-	TR 37 ID	-

Frame	Area	Context No.	Subject	Taken from
73	-	-	Rubble drainage	SE
74	-	-	NE facing section	NE
75	-	-	Post-ex TR 37	NW
76	TR 38	-	TR 38 ID	-
77	-	-	Burst water pipe	NW
78	-	-	SW facing section	SW
79	-	-	Post-ex TR 38	SE
80	TR 39	-	TR 39 ID	-
81	-	-	SE facing section	SE
82	-	-	Post-ex TR 39	SW
83	TR 40	-	TR 40 ID	-
84	-	-	SE facing section	SE
85	-	-	Post-ex TR 40	NE
86	TR 41	-	TR 41 ID	-
87	-	-	SE facing section	SE
88	-	-	Post-ex TR 41	NE
89	TR 48	-	TR 48 ID	-
90	-	-	NE facing section	NE
91	-	-	Post-ex TR 48	NW
92	TR 20	-	Pre-ex of feature	NW
93	-	-	Shot of voided feature	N
94	TR 47	-	TR 47 ID	-
95	-	-	NE facing section	NE
96	-	-	Post-ex TR 47	SE
97	TR 46	-	TR 46 ID	-
98	-	-	SW facing section	SW
99	-	-	Post-ex TR 46	SE
100	TR 45	-	TR 45 ID	-
101	-	-	SW facing section	SW
102	-	-	Post-ex TR 45	SE
103	T20	-	Pre-ex of prehistoric pits	SW
104	-	-	-	SW
105	-	-	Pre-ex 20004 pit	NW
106	-	-	Pre-ex 20006 pit	NW
107	-	-	Pre-ex pit	SW
108	TR 57	-	TR 57 ID	-
109	-	-	NW facing section	NW
110	-	-	Post-ex T57	SW
111	TR 56	-	TR 56 ID	-
112	-	-	NW facing section	NW
113	TR 59	-	TR 59 ID	-
114	-	-	SW facing section	SW
115	-	-	Post-ex TR 59	NW
116	TR 60	-	TR 60 ID	-
117	-	-	SW facing section	SW
118	-	-	Post-ex TR 60	NW

File 2

Frame	Area	Context No.	Subject	Taken from
1	-	-	ID shot	-
2	-	-	General shot of N Area	S
3	TR 58	-	TR 58 ID	-
4	-	-	SW facing section	SW
5	-	-	Post-ex TR 58	NW

Frame	Area	Context No.	Subject	Taken from
18	TR 69	-	TR 69 ID	-
19	-	-	NW facing section	NW
20	-	-	Post-ex TR 69	NE
21	TR 58	-	Post-ex SE end	NW
22	TR 68	-	TR 68 ID	-
23	-	-	NW facing section	NW
24	-	-	Post-ex TR 68	SW
25	TR 70	-	TR 70 ID	-
26	-	-	SW facing section	SW
27	-	-	Post-ex of TR 70	NW
28	TR 77	-	TR 77 ID	-
29	-	-	NW facing section	NW
30	-	-	Post-ex TR 77	SW
31	TR 78	-	TR 78 ID	-
32	-	-	NE facing section	NE
33	-	-	Post-ex TR 78	NW
34	-	-	-	NW
35	-	-	General shot of N Area	SW
36	-	-	General working shot	S
37	TR 79	-	TR 79 ID	-
38	-	-	NE facing section	NE
39	-	-	Post-ex TR 79	NW
40	TR 80	-	TR 80 ID	-
41	-	-	NE facing section	NE
42	-	-	Post-ex of TR 80	SE
43	TR 74	-	TR 74 ID	-
44	-	-	SE facing section	SE
45	-	-	Post-ex TR 10	NE
46	TR 73	-	TR 73 ID	-
47	-	-	NE facing section	NE
48	-	-	Post-ex TR 73	SE
49	TR 64	-	TR 64 ID	-
50	-	-	NW facing section	NW
51	-	-	Post-ex TR 64	NE
52	-	-	General of woodland copse	SW
53	TR 63	-	TR 63 ID	-
54	-	-	NE facing section	NE
55	-	-	Post-ex of TR 63 – NW end	SE
56	-	-	-	SE
57	TR 51	-	TR 51 ID	-
58	-	-	SE facing section – NE end	SE
59	-	-	Working shot	S
60	-	-	Post-ex NE end	NE
61	-	-	-	NE
62	-	-	SE facing section of possible quarrying	SE
63	-	-	-	SE
64	-	-	Post-ex SW end	SW
65	TR 20	20004, 20005	Section shot	NW
66	-	-	-	SE
67	TR 41	-	NW facing section	NW
68	TR 62	-	TR 62 ID	-
69	-	-	SW facing section	SW
70	-	-	Post-ex shot from SE end	SE
71	TR 75	-	TR 75 ID	-
72	-	-	NW facing section	NW

Frame	Area	Context No.	Subject	Taken from
73	-	-	Post-ex TR 75	SW
74	TR 24	-	TR 24 ID	-
75	-	-	NW facing section	NW
76	-	-	General around 61/54/24	SE
77	-	-	Pre-ex shot of ?	S
78	TR 20	-	General shot of TR 20	NE
79	-	-	-	N
80	-	-	-	W
81	-	-	Pre-ex shot of (20012)	NE
82	-	-	Pre-ex shot of (20013) spread	NE
83	-	-	Half section (20012)	NW
84	TR 20	-	E facing section	E
85	TR 56	-	Post-ex of possible pit	NE
86	-	-	Mid-ex showing stones	SW
87	-	-	-	SW
88	-	-	SW facing section	SW
89	-	-	-	SW
90	TR 41	-	Expanded area	W
91	-	-	-	N
92	TR 56	-	SW facing section	SW
93	-	-	NW facing section	NW
94	-	-	General shot of both pits	W
95	-	-	-	W
96	-	-	General of area	W
97	-	-	-	W
98	-	-	-	S
99	TR 63	-	Section shot of pit	S
100	-	-	-	S
101	-	-	Post-ex shot of pit	W
102	-	-	-	W
103	TR 20	-	Post-ex shot of feature	NE
104	-	-	-	E

Appendix H: Discovery and Excavation in Scotland entry

LOCAL AUTHORITY:	Angus Council
PROJECT TITLE/SITE NAME:	The Grange, Monifeith
PROJECT CODE:	4326
PARISH:	Monifeith
NAME OF CONTRIBUTOR(S):	Beth Spence
NAME OF ORGANISATION:	Guard Archaeology Ltd
TYPE(S) OF PROJECT:	Archaeological Evaluation
NMRS NO(S):	
SITE/MONUMENT TYPE(S):	Prehistoric pits
SIGNIFICANT FINDS:	
NGR (2 letters, 6 figures)	NO 489 333
START DATE (this season)	11 th January 2016
END DATE (this season)	18 th January 2016
PREVIOUS WORK (incl. <i>DES</i> ref.)	Desk-based assessment, Guard Ltd project 3763
MAIN (NARRATIVE) DESCRIPTION: (May include information from other fields)	An archaeological evaluation was carried out by GUARD Archaeology Limited at The Grange, Monifeith on behalf of Taylor Wimpey on a site proposed for residential development. The trial trench evaluation consisted of a series of 79 trenches 50 m in length and one trench 17.5 m in length totalling 5% of the total area proposed for development. Several features of archaeological significance were encountered during the evaluation, consisting of eight pit and post-hole features and one small spread features. Fills ranges from silts with some charcoal to charcoal rich burnt material with heat cracked stones. These were located in four separate trenches across the central and eastern areas of the site, mostly on more raised ground. Prehistoric material culture including ceramic and lithic was recovered from some feature fills, suggesting likely prehistoric activity in at least three of these areas.
PROPOSED FUTURE WORK:	Unknown
SPONSOR OR FUNDING BODY:	Taylor Wimpey
CAPTION(S) FOR ILLUSTRS:	
ADDRESS OF MAIN CONTRIBUTOR:	52 Elderpark Workspace, 100 Elderpark Street, Glasgow, G51 3TR
EMAIL ADDRESS:	Beth.spence@guard-archaeology.co.uk
ARCHIVE LOCATION (intended/deposited)	NMRS intended OASIS ref: guardarc1-239649

Appendix I: Written Scheme of Investigation**THE GRANGE, MONIFIETH**

ARCHAEOLOGICAL EVALUATION

WRITTEN SCHEME OF INVESTIGATION

PROJECT 4326

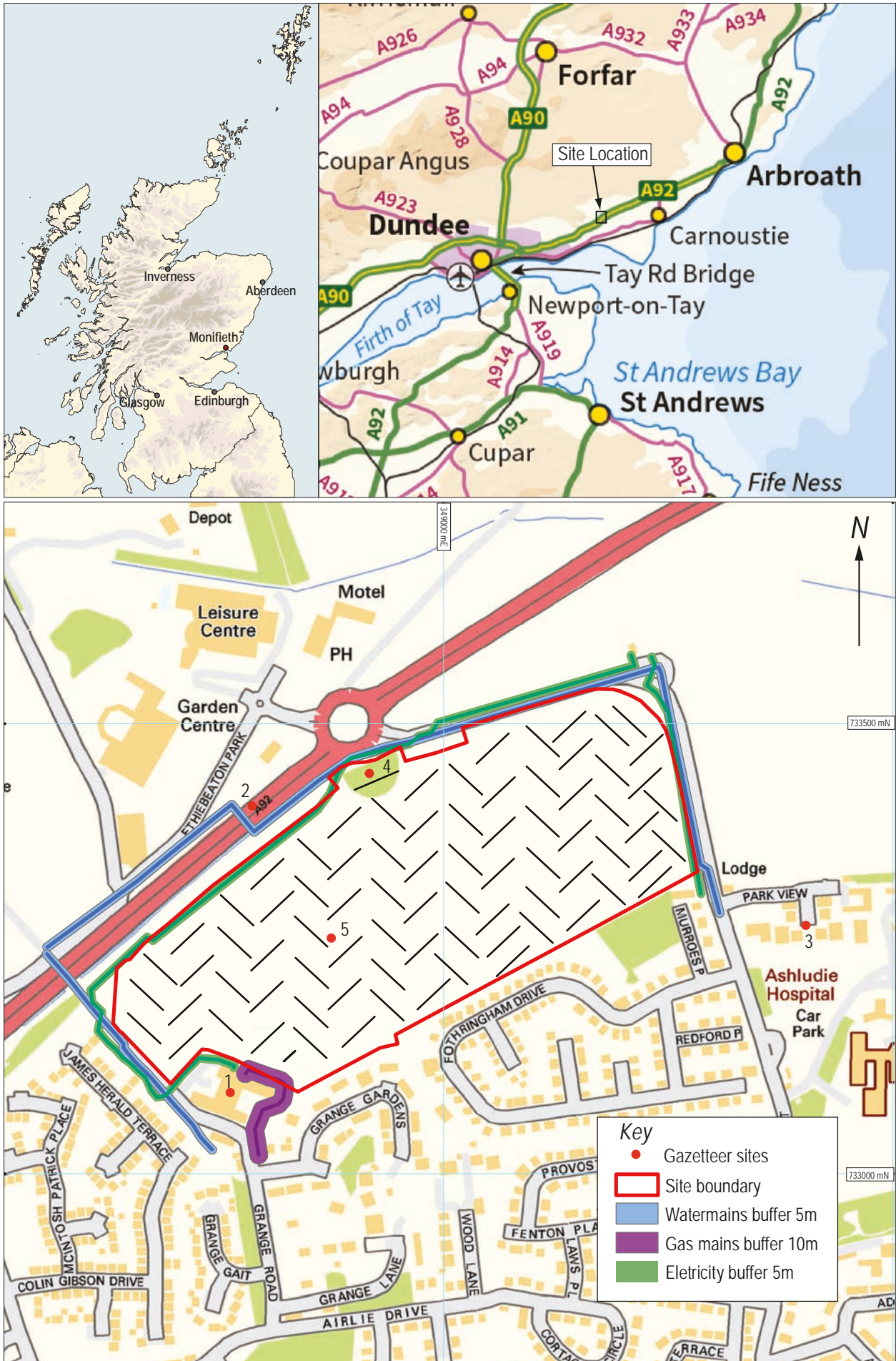


Figure 1:
Site location.

Executive Summary

- 1.1 This Written Scheme of Investigation forms the archaeological method statement for the evaluation of the area proposed for residential development at The Grange, Monifieth (Figure 1) and will require to be approved by the Angus Council Archaeology Advisor 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 required for the residential development on lands at The Grange, Monifieth. This evaluation is required to meet Condition 3 of the Planning Permission in Principle (13/01184/PPPM). An archaeological evaluation will be undertaken to establish the presence, nature, significance and extent of any 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 Angus Council Archaeology Advisor, 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 proposed development area is located to the north of Monifieth and lies on the south side of the A92 public road. The main proposed development area (Figure 1) is centred at NGR: NO 48970 33327. The land is bounded to the west, south-west, south and south-east by existing housing, to the north by the A92 road and to the east by open fields.

Archaeological Background

- 4.1 A Desk-based Assessment of the development area was undertaken by GUARD Archaeology Limited in 2013 (Rennie, C and McKinstry, L), a short summary of the this work is included here and a gazetteer of the relevant sites is included as appendix A, the five relevant sites are shown on Figure 1.
- 4.2 The land use of the proposed development has been agricultural since at least the mid-eighteenth century, with the only known intrusion into the land being the railway that was built during the early nineteenth century. There are two cultural heritage sites recorded within the proposed development (Sites 4 and 5), both of which are of lesser or unknown significance, and three within 100 m of the Site (Sites 1, 2 and 3), including two Listed Buildings. All of the known cultural heritage sites within the study area date from the post-Medieval and Modern periods.

Aims, Objectives and Scope

- 5.1 The aim of the archaeological evaluation is to evaluate:
 - the presence, nature, significance and extent of any archaeological features, prior to the determination of planning consent or absence of as yet unknown archaeological features within the development area;
 - to ensure that any surviving archaeological remains, encountered during the evaluation, are recorded to an appropriate level.

5.2 The objectives are therefore to:

- Conduct a 5% archaeological evaluation using machine excavated trenches under archaeological supervision to establish the presence or absence of any archaeological remains, and their nature, significance and extent if surviving;
- Submit a report to data structure level for approval to the Angus Council Archaeology Advisor, 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, no further archaeological fieldwork would be required for this development.

Fieldwork Methodology

Archaeological Evaluation

- 6.1 A series of 80 trenches (79 x 50 m in length, 1 x 17.5 m in length), all measuring c 2 m wide, will be machine excavated under archaeological supervision at regular intervals across the development area (Figure 1).
- 6.2 The topsoil at each trench location will be removed in spits to the first archaeological horizon or, where none was found, to the natural subsoil. Any archaeological features encountered will be cleaned by hand by the on-site Archaeologist to determine their character and extent.
- 6.3 Any significant archaeological features encountered will be dealt with by the on-site Archaeologist. Should negative-cut features be encountered, a representative sample will be 25-50% excavated in order to determine their significance, date and function. 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 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 for each trench 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 Angus Council will be informed immediately. Any human remains will be accurately recorded, but left in situ, pending the agreement of the police, the client and Angus Council on an appropriate mitigation strategy.
- 6.8 Should significant archaeological remains be encountered by the evaluation, an additional 2% evaluation area may be utilised with the aim of establishing the full extent of the archaeology, but not without prior agreement with the client and the Angus Council Archaeology Advisor.
- 6.9 Should significant archaeological remains requiring more than the limited evaluation outlined above, the remains will be largely left in situ pending the agreement of the client and the Angus Council Archaeology Advisor on a WSI addenda for an appropriate scope of excavation (Stage 2) and Post-excavation design including scope of finds analysis, conservation & publication (Stage 3).

- 6.10 On completion of the recording of the evaluation trenches, the backfilling of trenches will be undertaken by machine. No specialist backfilling is proposed.
- 6.11 All elements of the fieldwork and any subsequent post-excavation work will be undertaken in line with the policies and guidelines of the Chartered Institute for Archaeologists (CIfA) (Code of Conduct 2014; Standards and guidance for archaeological excavation 2014) of which GUARD Archaeology Ltd is a *Registered Organisation*.

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 Angus 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 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 At least two copies of the report will be prepared for the client and a further one including a digital PDF copy sent to Angus Council.
- 7.5 The report will be presented in an ordered state and contained within a protective cover/sleeve or bound in some fashion. 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 Angus Council Archaeology Advisor 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 comprise the following qualified and experienced GUARD archaeologists:
- Project Manager: Warren Bailie
 - Project Director (on-site Archaeologists): Beth Spence
 - Finds and Environmental Support and Conservation: Aileen Maule
 - Illustrator: Gillian McSwan
 - Quality Assurance: Dr John Atkinson
- 12.2 The GUARD Project Manager, Mr Warren Bailie, 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 confirmed after this WSI document has been approved by Angus Council. The Angus Council Archaeology Advisor 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 the site will take four to six days to complete with minimal findings, with a further two to three days for unsupervised backfilling. The evaluation is scheduled to begin on Monday 11 January 2016.

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 Federation of Archaeological Managers and Employers (FAME). 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.

References

Rennie, C and McKinstry, L 2013 *The Grange, Monifieth, Archaeological Desk-Based Assessment*, GUARD Project 3763 (unpublished report).

Appendices

Appendix A: Gazetteer of Cultural Sites

Site No:	1
Name:	South Grange Farm, horse mill
NGR:	NO 48762 33086
NMRS No:	NO43SE 318
HER No:	NO43SE0091
Significance:	Local; C Listed Building HB Number 17469
Description:	A mid 19th century circular plan horse mill.
Site No:	2
Name:	A92 road improvements; Arbroath to Dundee
NGR:	NO 488 334
NMRS No:	NO43SE 493
HER No:	-
Significance:	Unknown
Description:	A watching brief was carried out during topsoil stripping as part of a road widening operation. Several features were revealed which were subject to excavation and a standing building survey. A souterrain terminus and a large sub-oval pit were revealed immediately north of the current A92, directly opposite the Ardownie souterrain.
Site No:	3
Name:	Ashludie, walled garden and conservatory
NGR:	NO 49405 33279
NMRS No:	NO43SE 107.01
HER No:	-
Significance:	Regional; B Listed Building HB Number 37985
Description:	Designed by James MacLaren and built in 1866, the walled garden and conservatory are situated to the west of the main house. The conservatory is in a bad state of repair but is still in use.
Site No:	4
Name:	Grange, historical planting
NGR:	NO 48913 33445
NMRS No:	-
HER No:	-
Significance:	Lesser/Unknown
Description:	This circular planting of trees is noted on Ordnance Survey 1st Edition map of 1868, but was part of a formal arrangement mapped by Ainslie in 1794. It was about 38 m in diameter, but has been significantly reduced by modern road construction. A study of this type of formal planting in Northern found that these post-Medieval landscape features had been built in imitation of the settlement enclosures known as raths that date from the 1 st millennium AD.
Site No:	5
Name:	Grange, structure
NGR:	NO 48835 33218
NMRS No:	-
HER No:	-
Significance:	Lesser
Description:	A structure is shown at this location of the 1st Edition OS 6" map of 1865. No trace of this was found in October 2013.

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