



# SETON SANDS HOLIDAY CENTRE

Archaeological Evaluation

for Bourne Leisure Ltd

06/00754/OUT

December 2011





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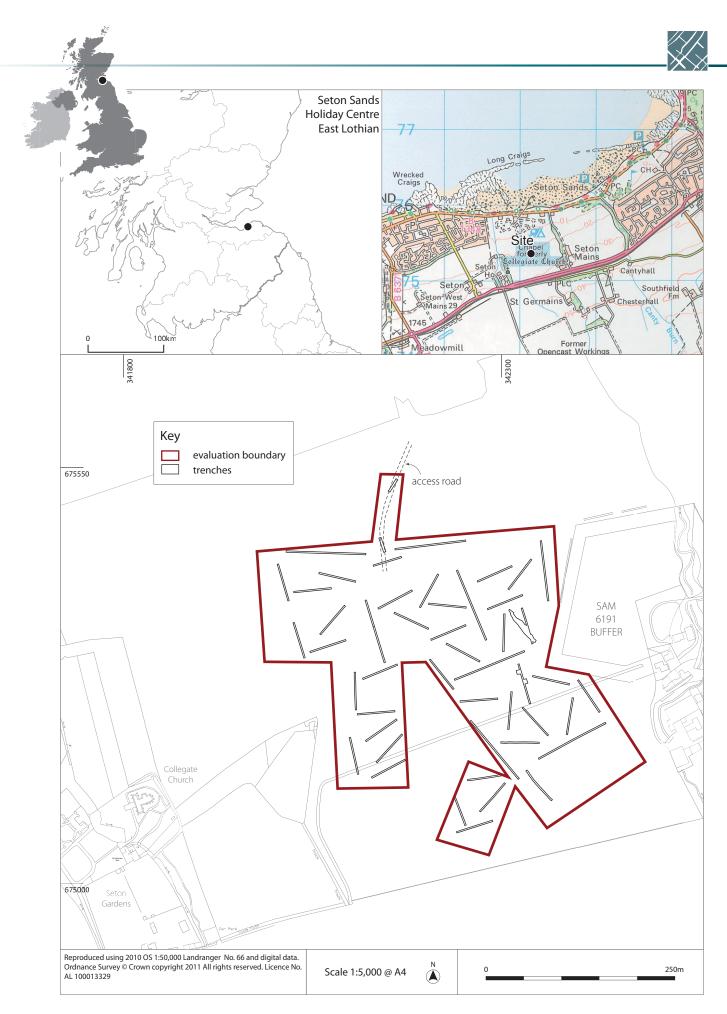
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**Illus 1** Location plan

## SETON SANDS HOLIDAY CENTRE

## Archaeological Evaluation

An archaeological programme of trial trenching was carried out in order to satisfy a condition of planning consent for an expansion of Seton Sands Holiday Village, East Lothian. The evaluated area covered identified areas of ground disturbance within a proposed 9-hole golf course and access road. The trial trenching revealed in-filled furrows and field drains dispersed across the site, sealed beneath topsoil on average 0.5m deep.

A number of archaeological features were identified during the work, comprising a cluster of pits and two ditches. On the basis of recovered artefacts and botanical evidence, the features appear to range in date from the prehistoric through to post medieval periods. A length of ditch revealed adjacent to a scheduled prehistoric enclosure at the east of the site is likely to be contemporary with it, while segments of ditch exposed to the west appear to be of 16th/17th century origin. They may be associated with Seton Collegiate church, founded in the 13th century, or the 16th century Seton Palace. The cluster of pits appears to vary in age from prehistoric to medieval, despite their proximity, and include a probable medieval charcoal production pit.

The small number of features recorded can be attributed in part to the fact that glacial deposits appear to have undergone significant erosion; with topsoils migrating down slope. A previous evaluation to the north encountered thick colluvium (Bailey 2008). The long history of agriculture in the area has presumably truncated away a significant portion of the archaeological record through ploughing.

#### 1. INTRODUCTION

Headland Archaeology (UK) Ltd was commissioned to carry out a programme of archaeological evaluation at the proposed site of a 9-hole golf course and clubhouse which forms part of an expansion of Seton Sands Holiday Village, East Lothian. The work was carried out in order to satisfy a condition (no. 4) of planning consent (ref.: 06/00754/ OUT) and adhered to a Written Scheme of Investigation prepared by Headland Archaeology and agreed with East Lothian Council Archaeology Service (ELCAS).

This report presents the results of the evaluation, which incorporated 5660m<sup>2</sup> of trial trenching (ac. 5% sample). The fieldwork was undertaken between 31st October and 4th November 2011.

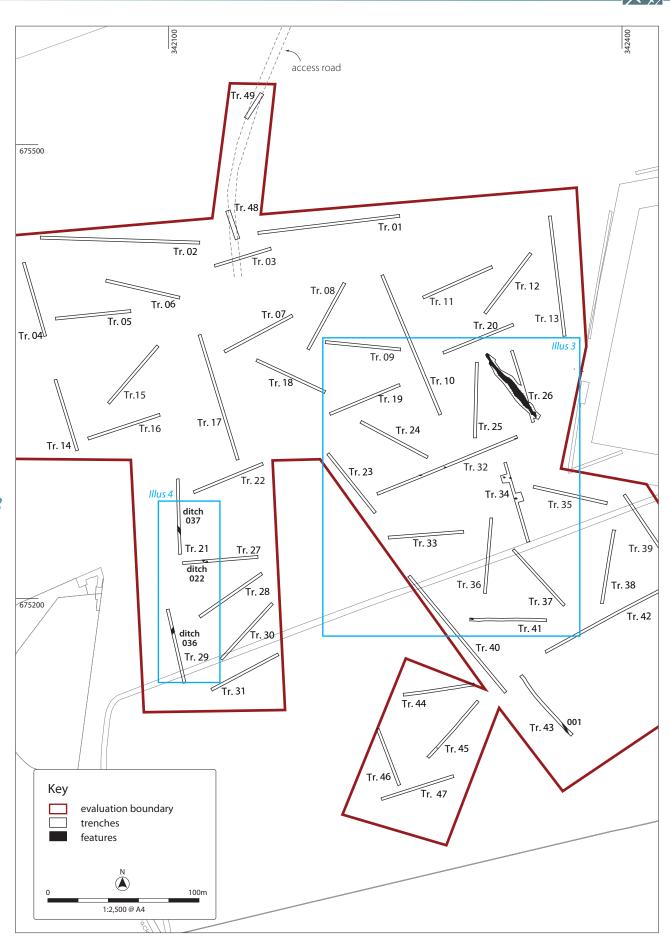
#### 2. SITE LOCATION & DESCRIPTION

The site is located on open ground to the south of Seton Sands Caravan Park, which lies 0.5km east of Port Seton, East Lothian (Illus 1). It is currently occupied by open grassland that slopes from a ridge approximately 30m OD in the south, next to the A198, gently down toward the shore of the Forth in the north.

The British Geological Survey describes the superficial geology underlying the site as till (Devensian – Diamicton). Earlier evaluations recorded sandy clays, sands and gravels beneath ploughsoil. Diffuse spreads of carbon were encountered in most of the earlier evaluation trenches. These were noted to be a natural component of the subsoil and comprised highly fragmented particles of coal and carbonaceous shale.

#### 3. ARCHAEOLOGICAL BACKGROUND

A Scheduled Ancient Monument (SAM 6191) borders the application area to the east. The monument comprises a substantial ditched enclosure of likely prehistoric date, identified by crop marks visible on aerial photographs. To the west lies Seton Collegiate Church, both scheduled (SAM 90275) and 'A' Listed (HB 19077). The church is medieval in date; originally dedicated in 1242. Adjacent



**Illus 2** Plan of evaluation area

to Seton Collegiate Church is Seton House and associated gardens; also Category 'A' listed (HB 19080). The present building was constructed in 1790 by Robert Adam but occupies the site of the late 16th century Seton Palace.

Historic maps, dating back to the 17th century, do not show any settlement located within the evaluation area. In the first detailed depiction (Roy's plan of 1747–55), it appears that the site was divided into arable fields.

Targeted trial trenching carried out by Headland in support of a planning application in 2006 partially revealed a substantial pit/ditch terminus on the west side of the scheduled enclosure, while a cluster of undated pits were identified to the north of Seton Collegiate Church (Dutton 2006). Further trenching in 2008 to the north of the scheduled enclosure revealed no archaeological features and substantial levels of colluvium (Bailey 2008).

#### 4. OBJECTIVES

The overall objectives of the trial trench evaluation were to determine the character, extent, condition, date and significance of any buried archaeological remains within the area to allow the planning authority to make an informed decision regarding any further mitigation requirements relating to archaeological remains.

#### 5. METHODOLOGY

The total area evaluated by trial trenching was 2830 linear meter, representing ac. 5% sample of the areas defined as likely to be subject to ground disturbance during the development (Illus 2). An indicative trench plan was agreed with ELCAS and the client. An additional 30 linear m was set aside to evaluate the route of a drainage pipe for the development; however its location had not been finalised at the time of fieldwork. Trenches were positioned in proximity to known archaeological sites (the SAM) and any topographic features thought likely to have an elevated potential (ridges and flatter areas); they provided good spatial coverage across the site. All trenches were individually numbered and a polemounted Trimble G6 differential GPS, programmed with the relevant coordinates, was utilised to identify and mark out their locations.

The trenches were excavated using two 360° tracked mechanical excavators; each fitted with 2m wide flatbladed ditching buckets and operated under continuous archaeological supervision. Topsoil was removed and excavations continued until either clean geological sediments or significant archaeological deposits were encountered. The resulting surfaces were hand-cleaned where necessary and investigated for archaeological features. Any such features were hand excavated and recorded using standard archaeological methods and proforma record sheets. In agreement with ELCAS, two trenches (26 and 34) were expanded to fully characterize the archaeology that had been identified in them.

The excavated trenches and archaeological features were recorded using differential GPS and also hand drawing where appropriate. Photographs were taken using colour transparencies and prints, as well as digital. Bulk soil samples were collected from secure archaeological contexts for processing and assessment. Where possible a minimum 40-litre sample was collected from each archaeological deposit and given a unique number. All finds were recorded by individual context and their cleaning, storage and conservation undertaken in accordance with the Institute for Archaeologists Standard and Guidance for the Collection, Documentation, Conservation and Research of Archaeological Materials.

#### 6. RESULTS OF FIELDWORK

A total of 49 trenches were excavated (Illus 2), comprising 5660m<sup>2</sup>. The stratigraphy of the majority of trenches was similar, with geological subsoil comprising sandy clays, sands and gravels sealed by ploughsoil with an average depth of 0.5m. Weathered sandstone bedrock was also exposed in a number of the trenches. Occasional infilled furrows as well as ceramic and rubble field drains were cut into the geological subsoil across the site; on a straight alignment following the slope. A full trench register is provided in Appendix 1.

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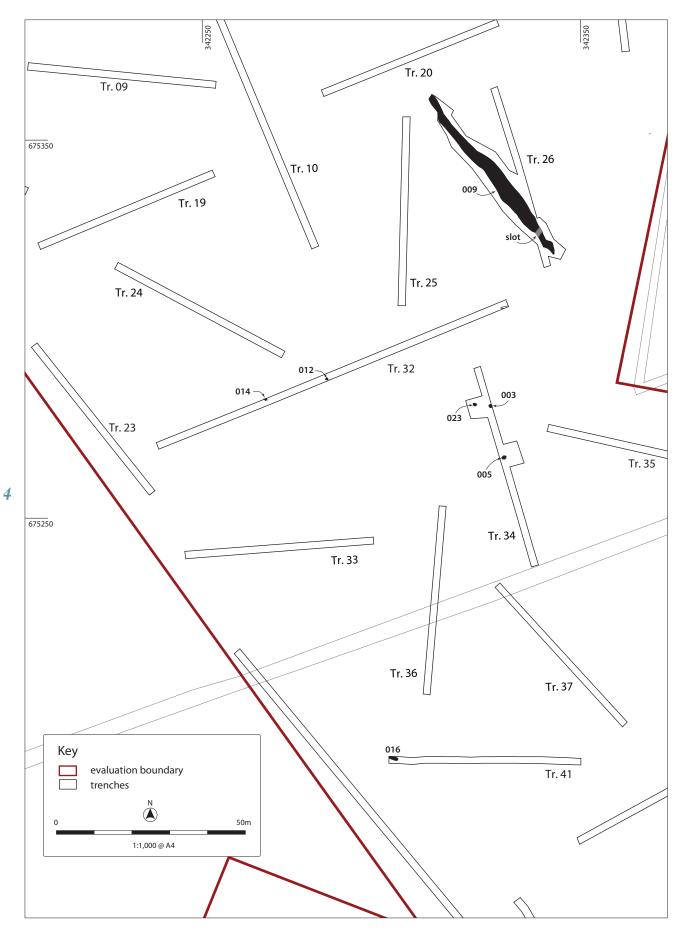
Only a small number of trenches contained features of archaeological significance. They were concentrated on a ridge that ran east to west through the central part of the site and fell into two clusters; east and west. They are described more fully below.

#### 6.1 Eastern features

#### Trench 26

A linear feature [009] was partially exposed during excavation of this trench. Upon extension of the trench, the feature was found to be aligned NW/SE and at least 53m in length and up to 4.5m wide (Illus 3 and 5). A slot was hand-excavated across it and it was established to be 0.5m deep with a primary fill of brown sand and gravel 0.2m deep [008], sealed by a secondary deposit of dark brown loam 0.3m deep [007]. The feature was cut into geological deposits and overlain by topsoil 0.6m in depth. Fill [007] was bulk sampled and wet sieving of this did not produce any dating evidence. The proximity of the feature to the scheduled enclosure and the lack of finds can be taken as suggestive of a prehistoric date for the feature, which is interpreted as an infilled ditch.





Illus 3 Archaeological features in Eastern Area

#### Trench 32

A shallow oval feature [012] was recorded cut into geological deposits and sealed beneath topsoil mid-way along the trench. The feature was half-sectioned and found to be 0.54m in length, 0.4m wide and 0.15m deep. Dark brown loam [013] filled the feature; interpreted as a probable pit. Sub circular feature [014] was partially revealed to the west of pit [012] and sample excavated. Feature [014] was exposed to 0.6m length and 0.5m width, with a depth of 0.27m. It was filled by grey brown loam [015], which was bulk sampled and found to contain modern glass and pottery fragments (see Appendix 2).

#### Trench 34

Initial excavation of the trench revealed two features, [003] and [ 005], cut into sand and gravel geological deposits. A further feature [023] cutting the geological deposits was exposed after the trench was expanded.

Feature [003] was sub circular in plan and found to be 0.65m wide and 0.21m deep once half-sectioned. It contained charcoal-rich grey brown loam [004].

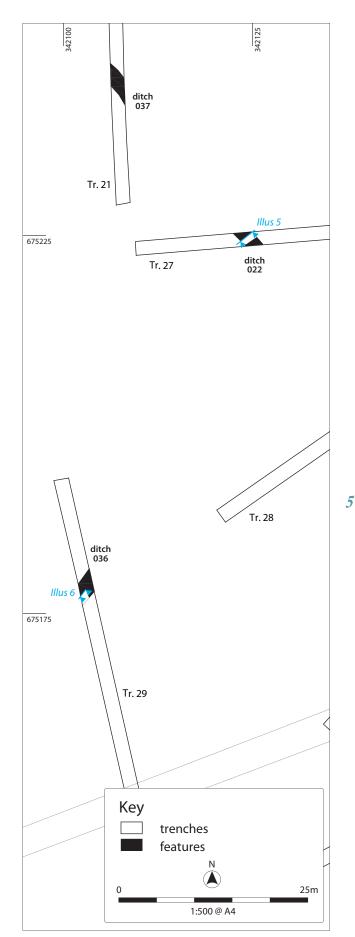
Feature [005] was sub oval in plan with length of 1.2m, width of 0.85m and depth of 0.22m (Illus 6). Excavation revealed the feature to be lined with flat sandstones which were sealed by grey loam [006]. No finds were retrieved from the feature, but wet sieving and floatation found the fill to contain hazel nut shell and non-oak charcoal; indicating it may be of prehistoric date (see Appendix 3).

Feature [023] was sub round in plan with a width of 0.8m and depth of 0.15m. It was half sectioned and found to be filled by charcoal rich clayey sand [024]. Subsequent analysis found the charcoal to be mainly oak, which suggests charcoal production of probable medieval date (see Appendix 3). The above features were sealed by loam topsoil 0.6m deep and likely to represent truncated pits.

#### Trench 41

At the western extent of the trench, an oval feature [016] was partially exposed cut into geological deposits and sample excavated. It was visible to a length of 2.6m, with width of 1m and depth of 0.22m. The primary fill [017] consisted of yellow grey clayey sand, 0.14m deep. This was sealed by grey brown loam [018], 0.08m deep. Overlying this was loam topsoil 0.5m deep.

The feature was not visible in the adjacent Trench 40 and it was therefore interpreted as a discrete pit.



**Illus 4** Archaeological features in Western Area



Illus 5 N facing shot of ditch [009] in Trench 26



Illus 6 NE facing shot of pit [005] in Trench 34



#### 6.2 Western features

#### Trench 27

Linear feature [022] was exposed in Trench 27, on a NW/SE alignment (Illus 4). After excavation of a slot, it was found to be V-shaped in profile, 1.9m wide and 0.92m deep (Illus 7 and 8). The feature is therefore likely to represent the remains of a ditch. The primary fill comprised brown silty clay [021] 0.3m deep, from which no finds were retrieved during fieldwork but processing of a bulk sample identified a sherd of 16th/17th century green glaze pottery and iron working waste in the form of slag fragments (see Appendix 2).

Fill [021] was partially sealed by brown clay [026]. This deposit was interpreted as an accumulation derived from the surrounding geological deposits; likely from weathering of the sides while the ditch was open. Brown clay silt [020] overlay the lower fills and was 0.27m deep. Wet sieving of samples found this deposit to contain rare quantities of glass and remnants of industrial waste in the form of slag and magnetic residue material. Over this was a layer of redeposited subsoil consisting of mottled brown and yellow silty clay [019], 0.48m deep. This deposit formed the upper fill of feature [022]. Sealing this was loam topsoil 0.4m deep.

#### Trench 29

A further linear feature, [036], was identified in Trench 29 (Illus 4). It was aligned NE/SW and was 2.6m wide. After excavation of a slot, it was found to be 1m deep, with the sides sloping sharply to a flattish base (Illus 9 and 10). The feature was also interpreted as the remains of a ditch. The primary fill [035] was grey sandy silt 0.34m deep, which contained iron slag and mortar fragments identified after after processing of a bulk sample (see Appendix 2). Sealing this and filling the remainder of ditch [036] was redeposited subsoil of mottled pink and grey clayey silt, 0.7m deep. The overlying loam topsoil was 0.4m deep.

#### Trench 21

Linear feature [037] was recorded in plan in Trench 21 (Illus 4). It was aligned NW/SE and was 2m in width. The feature appears to be an extension of ditch [022] in Trench 27 as it was on the same alignment and of similar width.

#### 6.3 Palaeoenvironmental summary

The full results of the sample processing are provided in Appendix 3. Suitable material for AMS dating is also



Illus 7 NW facing shot of ditch [022] in Trench 27

identified within each table. All plant remains were preserved through charring.

#### Charred Plant remains

Charred plant remains were identified in five of the eight samples assessed ([003], [004], [012], [015] and [017]) ranging from rare to occasional instances. The cereals identified included hulled barley (*Hordeum vulgare*), emmer wheat (*Triticum dicoccum*) and indeterminate grain (*Cerealia* indet.) that were too poorly abraded and fragmentary to identify to species level. Hazel nutshell fragments (*Corylus avellana*) were identified in rare amounts in sample [003] from the fill of pit [005].

Together with the charred grain a small amount of wild taxa were found in rare to occasional abundances in the

# form of fat hen (*Chenopodium album*) and ivy-leaved speedwell (*Veronica hederifolia*).

#### Wood charcoal

Wood charcoal fragments were present in two of the samples assessed [003] and [013] in rare to abundant instances with sizes ranging from <0.5 to 2.5cm maximum. The charcoal was identified by eye to be mostly oak (*Quercus* sp.) species in Sample 13 from the fill of pit [023] and mostly non-oak charcoal in sample [003] from pit [005].

#### Other remains

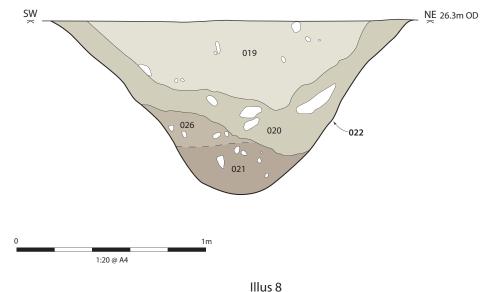
Together with the charred plant remains recovered from samples, post medieval pottery was found in sample [015] from ditch [022] along with mortar (sample [017]; ditch [036]) and glass [sample 008; pit 014 and sample 012; ditch 022]. Ferrous industrial waste

was identified in five [004, 008, 012, 015 and 017] of the eight samples in rare amounts and magnetic residue material was found in Sample 12 in common frequencies. Unburnt bone of probable small mammals [*e.g.* rodents) was identified in rare quantities from sample 004 in ditch [009] and sample 017 in ditch [036]. Marine shell was present in one sample [012] and terrestrial shell also in one sample [017]. Coal and/or cinder remains were found in all but two of the samples [003] and [013] in rare to occasional amounts (see Table A4.1).

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#### 7. DISCUSSION

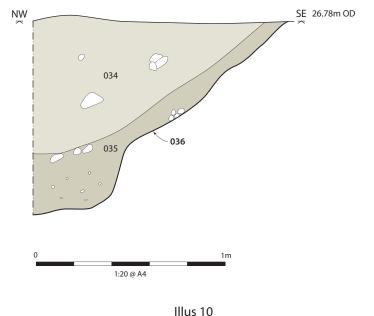
The trial trenching as a whole revealed relatively few archaeological features. The overall pattern was of remains (occasional furrows along with rubble and ceramic field



SE facing section of ditch [022] in Trench 27



Illus 9 NE facing shot of ditch [036] in Trench 29



SW facing section of Ditch [036] in Trench 29

drains) related to long-lived agricultural use of the area as attested by map evidence, which shows the area as enclosed fields from the 19th century.

The archaeological features recorded were limited to locations around the natural crest of a slope; a suitable place for settlement as confirmed by the presence of the neighbouring scheduled monuments at this topographic location. Although seemingly clustered, the features in the eastern part of the site may reflect activity spanning the prehistoric to medieval periods. The substantial ditch remains [009] identified in Trench 26 are likely to be part of the scheduled ditched enclosure to its immediate east; which is presumed to be prehistoric. Unfortunately no dating evidence was recovered to confirm this date.

Environmental analysis of stone-lined pit [005] in Trench 34 found it to contain hazelnut shell and charcoal, observed to be mainly non-oak (see Appendix 3). This assemblage indicates the pit may also be of prehistoric date; with hazelnut shell a common find on sites of this period. Located adjacent to pit [005] was pit [023], which may have been associated with charcoal production due to the exclusive presence of charcoal in its fill. Despite the proximity, the identification of the charcoal in pit [023] as oak suggests a medieval date for the feature (see Appendix 3).

The ditch sections identified in the western part of the site may form part of the corner of a single, substantial boundary ditch due to their similar form, dimensions and the absence of any other ditches across the site. The presence of emmer wheat recovered from wet sieving of the fills of one ditch section [022] tentatively suggests a prehistoric date, with emmer having been recovered from a number of prehistoric sites in Scotland (Boyd 1988). However, the small quantity and poor condition of the grain indicate it could also represent intrusive or reworked material.

It is more likely ditch [022] can be attributed a post medieval date, as a sherd of 16th/17th century green glaze pottery was retrieved from its basal fill (see Appendix 2). The presence of glass fragments and remnants of industrial waste in the ditch further support a later date (see Appendix 3). The ditch may have been constructed to enclose land associated with the 13th century Seton Collegiate Church or 16th century Seton Palace to the west. Moll's map of 1732 depicts a substantial square boundary around buildings marked 'Seaton' (Illus 11), however the map cannot be used to accurately locate any features.

The soil profile recorded throughout the evaluated area was relatively shallow: generally 0.4–0.6m. It is notable that a thicker plough soil has not accumulated despite the long history of agriculture. The shallow soil profile implies that erosion has caused topsoil to migrate downslope to the north where it accumulated as colluvium – as evidenced by a previous evaluation to the north (Bailey 2008). Extensive ploughing through the shallow soil profile could have eroded away many archaeological features, as there was no accumulation to protect them.



Illus 11 Moll`s 1732 map showing approximate site location Reproduced by permission of the Trustees of the National Library of Scotland

#### 8. CONCLUSIONS

The results have shown that the overall objectives of the archaeological evaluation have been met. These were to determine the character, extent, condition, date and significance of any buried archaeological remains. It has been established that a cluster of truncated pits and ditch remains survive cut into geological deposits, limited to two areas of sensitivity. The date range of the features is diverse; extending from the prehistoric to post medieval periods. The features are of local to regional significance and therefore further mitigation is recommended.

#### 9. BIBLIOGRAPHY

#### 9.1 References

- Bailey, E, 2008, Seton Sands Caravan Park, East Lothian: Results of an Archaeological Evaluation, Headland Archaeology Ltd, Unpublished client report.
- Dutton, A, 2006, Seton Sand, East Lothian: Results of an Archaeological Desk-based Study and Evaluation, Headland Archaeology Ltd, Unpublished client report.

#### 9.2 Cartographic resources

Moll, H, 1732, Lothian : contains The Shire of Linlithgow or West Lothian. The Shire of Edinburgh or Midlothian. and Haddington or East Lothian.



## APPENDICES

## Appendix 1 – Site registers

## Context register

| Context no. | Area | Description  |
|-------------|------|--|
| 001         | TR43 | Probable base of furrow or very shallow ditch. Sub linear cut running N-S across east end of TR43, filled with dark clayey silt.<br>L: 10m visible; W:1.1m; D:0.09m  |
| 002         | TR43 | Fill of 001 - Dark greyish brown clayey silt. Inclusions: frequent small stones and very frequent charcoal   |
| 003         | TR34 | Semi circular cut of pit. L: 0.7m; W: 0.65m; D: 0.21m  |
| 004         | TR34 | Fill of 003 - soft, medium grey silty sand deposit   |
| 005         | TR34 | Cut of sub circular feature, ground water visible at bottom - seeping through sand. L: 1.2m; W: 0.85m; D: 0.22m  |
| 006         | TR34 | Fill of 005 - Dark grey silty sand. Inclusions: very frequent medium sized stones (0.1 $\times$ 0.1 $\times$ 0.05) and occasional large stones   |
| 007         | TR26 | Upper fill of ditch 009 - Medium dark brown silty sand. Uniform, well sorted stones in fill - suggests natural filling. D: 0.32m   |
| 008         | TR26 | Primary fill of ditch 009 - Mid greyish brown, gravelly sand. Naturally deposited. D: 0.2m   |
| 009         | TR26 | Ditch - possibly field boundary. May be part of ditch revealed in earlier evaluation. Linear cut, runs NW-SE across TR26. Steep sides - 60 degrees to E, almost vertical at W. Sharp break of slope. W: 1.7m; D: 0.53m   |
| 010         | TR32 | Cut of possible ditch, sub linear. Shallow and narrow feature running NE-SW at E end of TR32. W end of feature is very shallow. L: 2m; W: 0.2m; D:0.03m - 0.078m   |
| 011         | TR32 | Fill of 010 - soft, dark greyish brown silty sand  |
| 012         | TR32 | Cut of circular pit. L: 0.54m; W: 0.4m; D: 0.15m   |
| 013         | TR32 | Soft, dark brownish grey silty sand deposit, Fill of 012.  |
| 014         | TR32 | Cut of pit - sub circular feature running into north edge of TR32. L: 0.6m; W: 0.5m; D:0.23m   |
| 015         | TR32 | Soft, dark brownish grey silty sand fill of 014. Deposit homogenous, ground water seeping through at bottom.   |
| 016         | TR41 | Bottom end of NW-SE running ditch. Cut of linear feature running E-W across TR41 at west end. Feature ends half way through trench at east end with a slightly rounded shape. Amount of silting deposit 017 indicates it was probably left open for a long time before being backfilled. L: 2.6m visible; W: 1.05m; D: 0.22m |
| 017         | TR41 | Primary fill of 016. Firm light yellowish grey clayey sand. Silting up of ditch 010  |
| 018         | TR41 | Upper fill of ditch 016 - soft dark greyish brown sandy silt with occasional gravel. L: 2.6m visible; W: 1.05m; D: 0.08m   |
| 019         | TR27 | Upper fill of ditch 022 (backfill), compact deposit of re-deposited natural which becomes more silty towards base of deposit.<br>Firm, mottles brown/yellow brown silty clay. Containing moderate medium angular sandstone fragments and occasional<br>charcoal. W: 1.45; D: 0.48m   |
| 020         | TR27 | Fill of ditch 022 - firm, dark brown clayey silt with occasional medium subrounded stones, occasional charcoal and shell fragments. Probably natural silting. W: 1.2m; D: 0.27m  |
| 021         | TR27 | Primary fill of ditch 022 - soft mid brown silty clay with moderate small to medium angular sub rounded stones and occasional shell and charcoal. Probably natural silting and stones from upper part of ditch. W: 0.6m; D: 0.27m  |
| 022         | TR27 | Cut of large ditch, poss prehistoric boundary ditch/ Steep, V shaped with rounded base cut through natural clay. Truncated west side by field drain. W: 1.9m; D: 0.92m   |
| 023         | TR34 | Cut of pit - sub circular pit cut into yellow sandy natural soil. L: 0.9m; W: 0.75m; D: 0.15m  |
| 024         | TR34 | Primary fill of 023 - soft dark grey and black clayey sand. Possible presence of waterlogged deposit before pit was backfilled?<br>L: 0.9m, W: 0.75m; D: 0.11m   |
| 025         | TR34 | Upper fill of pit 023. Soft medium grey clay silt. L: 0.9m; W: 0.75m; D: 0.04m   |
| 026         | TR27 | Fill of ditch - redeposited natural possible partial collapse of sides? Visible in west side of ditch, appears to be redeposited natural. Contains small sandstone frags.  |
| 027         | TR18 | Poss small pit or root, dark brown silt. W: 0.47; D: 0.2m - fill   |

| Context no. | Area | Description  |
|-------------|------|--|
| 028         | TR18 | Cut of small feature - irregular and uneven  |
| 029         | TR02 | Stone culvert - angular andstone blocks, not bonded, laid in 2 courses on nat clat forming 0.2m wide drain, capped with<br>large sandstone slabs, runs NW-SE. Rubble drain added later. W: 0.53; D: 0.19 |
| 030         | TR02 | Fill of 029 - gritty loose grey gravelly silt with occ small stones  |
| 031         | TR02 | Stone culvert - side stones and uppper slabs of stone culvert, constructed as 029 to E, only upper part opf culvert exposed.<br>W: 0.6m  |
| 032         | TR02 | Fill of 033 - friable mid brown sandy silt. W: 0.7m  |
| 033         | TR02 | Cut for culvert 031 - linear, running N -SE  |
| 034         | TR29 | Upper fill for ditch 036 - compact mixed light pink and brownish grey clayey silt. With frequent medium stones and degraded mudstone. L: 2m visible; w: 2.6, d: 0.7m                                     |
| 035         | TR29 | Upper fill of ditch 036 - firm dark grey sandy silt. L:2m visible, W: 2.6; D: 0.34   |
| 036         | TR29 | Cut of ditch - sloping steeply - enclosure ditch pos related with similar feature in TR27 L: 2m visible; W: 2.6; D: 1.04m  |
| 037         | TR21 | Unexcavated ditch segment 2m wide. Probably same as Ditch 22 in TR27   |

Photo register

#### Sample register

| Sample no. | Context no. | Description  |
|------------|-------------|--|
| 001        | 002         | TR43 - Silty fill of linear feature 001 (40l)                |
| 002        | 004         | TR34 - Sandy fill of 003 (30l)                               |
| 003        | 006         | TR34 - Sandy fill of 005 (40l)                               |
| 004        | 007         | Dark brown silty sand, upper fill of ditch 009<br>(401)      |
| 005        | 008         | Dark greyish brown gravelly sand, fill of ditch<br>009 (401) |
| 006        | 011         | Dark greyish brown silty sand fill of 010 (10l)              |
| 007        | 013         | Dark brown gravelly sandy fill of 012 (10l)                  |
| 008        | 015         | Dark grey sandy fill of pit 014 (20l)                        |
| 009        | 017         | Primary clayey sandy fill of ditch 010 (30l)                 |
| 010        | 018         | Upper sandy silt fill of ditch 010 (40l)                     |
| 011        | 019         | TR27 - Upper fill of ditch 022 (401)                         |
| 012        | 020         | TR27 - Fill of ditch 022 (401)                               |
| 013        | 024         | Primary fill of pit 023 (10l)                                |
| 014        | 025         | Upper fill of pit 023 (10l)                                  |
| 015        | 021         | TR27 - Primary fill of ditch 022 (40l)                       |
| 016        | 034         | Upper fill of ditch 036 (30l)                                |
| 017        | 035         | Primary fill of ditch 036 (401)                              |

#### Photo no. Direction Description 001 S TR43 - North facing section of linear feature 001 002 NW TR43 - General shot of TR43 003 S TR34 - North facing section of pit 003 S 004 TR34 - General shot of pit 003 005 W TR34 - East facing section of pit 005 006 SE TR26 - Ditch 009 NW facing section 007 W General view of trenches NW General view of trenches 008 TR32 - General shot of ditch 010 009 SE 010 NW TR32 - SE facing section of pit 012 011 Е TR32 - W facing section of pit 014 W 012 TR41 - E facing section of ditch 016 013 Ν TR41 - E facing section of ditch 016 014 Ν TR26 - Ditch 009 015 NW TR26 - Extension to TR26 under excavation 016 SE TR34 - NW facing section of pit 023 017 SE TR27 - Ditch 022 in section 018 NW TR27 - Ditch 022 in section TR27 - General view of east half of TR27 019 Е showing ditch 022 020 Ν TR21 - Ditch 022 021 NW TR27 - Ditch 022 in better light



| Photo no. | Direction | Description   |
|-----------|-----------|---|
| 022       | E         | TR27 - General shot of TR27 in better light                                   |
| 023       | NW        | TR02 - Stone culvert 029  |
| 024       | NW        | TR02 - Stone culvert 031  |
| 025       | W         | TR02 - General shot of TR02   |
| 026       | SE        | TR29 - Working shot, ditch  |
| 027       | NE        | TR29 - General shot of ditch 036  |
| 028       | NE        | TR29 - SW facing section of ditch 036   |
| 029       | NE        | General shot of trench from from SW corner of field                           |
| 030       | SW        | General shot of trench from SW corner of scheduled monument                   |
| 031       | NE        | General shot of trench from SW corner of scheduled monument                   |
| 032       | SW        | General shot of trenches from middle of TR32                                  |
| 033       | W         | General shot of trenches from middle of TR32                                  |
| 034       | NE        | General shot of trenches from middle of TR32                                  |
| 035       | SE        | General shot of trenches from middle of TR32                                  |
| 036       | S         | General shot of trenches from middle of TR32                                  |
| 037       | NE        | TR34 - General shot of pit 005 showing stones<br>lining edges and base of pit |
| 038       | SW        | TR34 - General shot of pit 005 showing stones<br>lining edges and base of pit |
| 039       | SW        | TR34 - Post excavation shot of pit 005  |
| 040       | NE        | TR34 - Post excavation shot of pit 005  |
| 041       | Ν         | Shot in plan of ditch segment beside S.A.M.                                   |
| 042       | Ν         | Shot in plan of ditch segment beside S.A.M.                                   |

## Drawing register

| Drawing no. | Section | Description                               |
|-------------|---------|---|
| 001         | *       | NW facing section of ditch 009 (EJ)       |
| 002         | *       | SW facing section of ditch 016 (SBM)      |
| 003         | *       | SE facing section of ditch 016 (SBM)      |
| 004         | *       | NW facing section of pit 023 (SBM)        |
| 005         | *       | SW facing section of ditch 022 (EJ)       |
| 006         | *       | NE facing half section of ditch 010 (SBM) |
| 007         | *       | W facing half section of ditch 010 (SBM)  |
| 008         | *       | N facing section of pit 003 (SBM)         |
| 009         | *       | E facing section of pit 005 (SBM)         |
| 010         | *       | SE facing section of pit 012 (SBM)        |
| 011         | *       | W facing section of pit 014 (SBM)         |
| 012         | *       | SW facing section of ditch 036 (SBM)      |

*13* 

| Appendix 2                        | 2 – Trench register                  |              | -               | No archaeological features                 | _         |
|-----------------------------------|--------------------------------------|--------------|-----------------|--|-----------|
| TRENCH 1                          | Orientation: E-W                     |              | -               | Sand and gravel subsoil with sandstone     | -         |
| Length (m):                       | 100                                  |              | <b>TRENCH 5</b> | Orientation: E-W                           |           |
| Width (m):                        | 2                                    |              | Length (m):     | 50   |           |
| Max. depth (m):                   |                                      |              | Width (m):      | 2  |           |
| Avg depth (m):                    | 0.3                                  |              | Max. depth:     | 0.5  |           |
| Context no.                       | Description                          | Depth (m)    | Avg depth:      | 0.4  |           |
| context no.                       | Loam topsoil                         | 0.4          | Context no.     | Description                                | Depth (m) |
| _                                 | furrow aligned N-S, 1.5m wide        | 0.4<br>0.05m | _               | Loam topsoil                               | 0.4       |
| _                                 | Mottled clay & sand subsoil          | 0.05111      |                 | Ceramic field drains                       | _         |
| TRENCH 2                          | Orientation: E-W                     |              | _               |  |           |
|                                   |                                      |              | _               | Sand and gravel subsoil                    | -         |
| Length (m):                       | 100                                  |              | <b>TRENCH 6</b> | Orientation: E-W                           |           |
| Width (m):                        | 2<br>0.5                             |              | Length (m):     | 50   |           |
| Max. depth (m):<br>Avg depth (m): | 0.3                                  |              | Width (m):      | 2  |           |
| Context no.                       | Description                          | Depth (m)    | Max. depth (m): | . 0.45                                     |           |
| _                                 | Loam topsoil                         | 0.4          | Avg depth (m):  | 0.4  |           |
| _                                 | Furrow, aligned N-S                  | 0.05m        | Context no.     | Description                                | Depth (m) |
| 029                               | Sandstone culvert. 0.53m wide        | 0.19m        | -               | Loam topsoil                               | 0.4       |
| 031                               | Sandstone culvert. 0.6m wide         | _            | _               | Rubble field drain, aligned N-S            | -         |
| -                                 | Rubble field drain, aligned N-S      | -            | _               | Gravel, sand and yellow/brown clay subsoil | _         |
| -                                 | Ceramic field drains, aligned N-S    | -            | TRENCH 7        | Orientation: SW-NE                         |           |
| -                                 | Yellow/brown clay and gravel subsoil | -            | Length (m):     | 50   |           |
| TRENCH 3                          | Orientation: SWW-NEE                 |              | Width (m):      | 2  |           |
| Length (m):                       | 40                                   |              | Max. depth (m): | . 0.55                                     |           |
| Width (m):                        | 2                                    |              | Avg depth (m):  | 0.5  |           |
| Max. depth (m):                   | 0.3                                  |              | Context no.     | Description                                | Depth (m) |
| Avg depth (m):                    | 0.3                                  |              | _               | Loam topsoil                               | 0.4       |
| Context no.                       | Description                          | Depth (m)    | _               | No archaeological features                 | _         |
| -                                 | Loam topsoil                         | 0.3          | -               | Sand and gravel subsoil                    | _         |
| -                                 | No archaeological features           | -            | TRENCH 8        | Orientation: SSW-NNE                       |           |
| _                                 | Sand, gravel and grey clay subsoil   | -            | Length (m):     | 50   |           |
| <b>TRENCH 4</b>                   | Orientation: N-S                     |              | Width (m):      | 2  |           |
| Length (m):                       | 50                                   |              | Max. depth (m): | : 0.7                                      |           |
| Width (m):                        | 2                                    |              | Avg depth (m):  | 0.6  |           |
| Max. depth (m):                   | 0.45                                 |              | Context no.     | Description                                | Depth (m) |
| Avg depth (m):                    | 0.4                                  |              | -               | Loam topsoil                               | 0.6       |
| Context no.                       | Description                          | Depth m)     | -               | No archaeological features                 | _         |
| -                                 | Loam topsoil                         | 0.4          | -               | Sand and gravel subsoil                    | -         |



|    | TRENCH 9        | Orientation: E-W                     |           | Max. depth (m): | 0.7                               |           |
|----|-----------------|--------------------------------------|-----------|-----------------|-----------------------------------|-----------|
|    |                 |                                      |           | Avg depth (m):  | 0.5                               |           |
|    | Length (m):     | 50                                   |           | Context no.     | Description                       | Depth (m) |
|    | Width (m):      | 2                                    |           | _               | Loam topsoil                      | 0.6       |
|    | Max. depth (m): | 0.65                                 |           | -               | No archaeological features        | -         |
|    | Avg depth (m):  | 0.6                                  |           | _               | Sand and gravel subsoil           | -         |
|    | Context no.     | Description                          | Depth (m) | TRENCH 14       | Orientation: N-S                  |           |
|    | _               | Loam topsoil                         | 0.6       | Length (m):     | 50                                |           |
|    | _               | No archaeological features           | -         | Width (m):      | 2                                 |           |
|    | -               | Sand and gravel subsoil              | -         | Max. depth (m): | 0.6                               |           |
|    | TRENCH 10       | Orientation: W-E                     |           | Avg depth (m):  | 0.55                              |           |
|    | Length (m):     | 100                                  |           | Context no.     | Description                       | Depth (m) |
|    | Width (m):      | 2                                    |           | -               | Loam topsoil                      | 0.6       |
|    | Max. depth (m): | 0.55                                 |           | -               | Modern rubbish pit                | -         |
|    | Avg depth (m):  | 0.5                                  |           | -               | Sandstone and gravel subsoil      | _         |
|    | Context no.     | Description                          | Depth (m) | TRENCH 15       | Orientation: NE-SW                |           |
|    | -               | Loam topsoil                         | 0.5       | Length (m):     | 50                                |           |
|    | _               | Field drain, aligned NW-SE           | -         | Width (m):      | 2                                 |           |
|    | _               | Sand subsoil with frequent sandstone | -         | Max. depth (m): | 0.45                              |           |
|    | TRENCH 11       | Orientation: NE-SW                   |           | Avg depth (m):  | 0.4                               |           |
| 14 | Length (m):     | 50                                   |           | Context no.     | Description                       | Depth (m) |
|    | Width (m):      | 2                                    |           | _               | Loam topsoil                      | 0.4       |
|    | Max. depth (m): | 0.5                                  |           | _               | Ceramic field drains, aligned N-S | _         |
|    | Avg depth (m):  | 0.4                                  |           | _               | Stone and gravel subsoil          | _         |
|    | Context no.     | Description                          | Depth (m) | TRENCH 16       | Orientation: W-F                  |           |
|    | -               | Loam topsoil                         | 0.4       | Length (m):     | 50                                |           |
|    | -               | Ceramic field drain, aligned NW-SE   | -         | Width (m):      | 2                                 |           |
|    | -               | Sand and gravel subsoil              | -         | Max. depth (m): |                                   |           |
|    | TRENCH 12       | Orientation: NE-SW                   |           | Avg depth (m):  | 0.7                               |           |
|    | Length (m):     | 50                                   |           | Context no.     | Description                       | Depth (m) |
|    | Width (m):      | 2                                    |           | _               | Loam topsoil                      | 0.4       |
|    | Max. depth (m): | 0.7                                  |           | _               | Furrow/ditch aligned N-S, 1m wide | 0.05m     |
|    | Avg depth (m):  | 0.6                                  |           | _               | Ceramic field drain, aligned N-S  | _         |
|    | Context no.     | Description                          | Depth (m) | _               | Stone and gravel subsoil          | _         |
|    | -               | Loam topsoil                         | 0.6       | TRENCH 17       | Orientation: N-S                  |           |
|    | _               | No archaeological features           | -         | Length (m):     | 50                                |           |
|    |                 | Sand subsoil and sandstone bedrock   | _         | Width (m):      | 2                                 |           |
|    | TRENCH 13       | Orientation: N-S                     |           | Max. depth:     | 0.6                               |           |
|    | Length (m):     | 80                                   |           | Avg depth:      | 0.5                               |           |
|    | Width (m):      | 2                                    |           | Context no.     | Description                       | Depth (m) |
|    |                 |                                      |           |                 | -                                 |           |

| _               | Loam topsoil                                   | 0.6       | TRENCH 22       | Orientation: NE-SW               |           |
|-----------------|--|-----------|-----------------|----------------------------------|-----------|
| _               | No archaeological features                     | _         | Length (m):     | 50                               |           |
| _               | Sand and gravel subsoil                        | -         | Width (m):      | 2                                |           |
| TRENCH 18       | Orientation: NW-SE                             |           | Max. depth (m): |                                  |           |
| Length (m):     | 50   |           | Avg depth (m):  | 0.6                              |           |
| Width (m):      | 2  |           | Context no.     | Description                      | Depth (m) |
| Max. depth (m): | 0.55   |           | _               | Loam topsoil                     | 0.6       |
| Avg depth (m):  | 0.5  |           | _               | No archaeological features       | _         |
| Context no.     | Description                                    | Depth (m) | -               | Sand and gravel subsoil          | _         |
| _               | Loam topsoil                                   | 0.5       | TRENCH 23       | Orientation: NW-SE               |           |
| _               | No archaeological features                     | _         | Length (m):     | 50                               |           |
| _               | Sand and gravel subsoil                        | -         | Width (m):      | 2                                |           |
| TRENCH 19       | Orientation: N-S                               |           | Max. depth (m): | 0.4                              |           |
| Length (m):     | 50   |           | Avg depth (m):  | 0.3                              |           |
| Width (m):      | 2  |           | Context no.     | Description                      | Depth (m) |
| Max. depth (m): | 0.7  |           | -               | Loam topsoil                     | 0.6       |
| Avg depth (m):  | 0.5  |           | -               | Ceramic field drain, aligned E-W | _         |
| Context no.     | Description                                    | Depth (m) | -               | Sand and gravel subsoil          | _         |
| _               | Loam topsoil                                   | 0.5       | TRENCH 24       | Orientation: NW-SE               |           |
| -               | Plough scores                                  | -         | Length (m):     | 50                               |           |
| -               | Sand and gravel subsoil                        | -         | Width (m):      | 2                                |           |
| TRENCH 20       | Orientation: NE-SW                             |           | Max. depth (m): | 0.4                              |           |
| Length (m):     | 50   |           | Avg depth (m):  | 0.35                             |           |
| Width (m):      | 2  |           | Context no.     | Description                      | Depth (m) |
| Max. depth (m): | 0.7  |           | -               | Loam topsoil                     | 0.35      |
| Avg depth (m):  | 0.5  |           | -               | No archaeological features       | -         |
| Context no.     | Description                                    | Depth (m) | -               | Sand and gravel subsoil          | -         |
| _               | Loam topsoil                                   | 0.6       | TRENCH 25       | Orientation: N-S                 |           |
| -               | No archaeological features                     | -         | Length (m):     | 50                               |           |
| -               | Stone and gravel subsoil. Weathered sandstone. | -         | Width (m):      | 2                                |           |
| TRENCH 21       | Orientation: NW-SE                             |           | Max. depth (m): | 0.7                              |           |
| Length (m):     | 50   |           | Avg depth (m):  | 0.55                             |           |
| Width (m):      | 2  |           | Context no.     | Description                      | Depth (m) |
| Max. depth (m): | 0.6  |           | -               | Loam topsoil                     | 0.55      |
| Avg depth (m):  | 0.5  |           | -               | No archaeological features       | -         |
| Context no.     | Description                                    | Depth (m) | -               | Sandstone and sand subsoil       | -         |
| -               | Loam topsoil                                   | 0.5       | TRENCH 26       | Orientation: N-S                 |           |
| 022             | Unexcavated ditch segment,                     | _         | Length (m):     | 50 (+100 after trench expanded)  |           |
| -               | Aligned NW-SE; 2m wide                         | -         | Width (m):      | 2                                |           |
| -               | Sand,gravel and clay subsoil                   | -         | Max. depth (m): | 0.6                              |           |
|                 |  |           |                 |                                  |           |

| Avg depth (m):  | 0.6                               |           |
|-----------------|-----------------------------------|-----------|
| Context no.     | Description                       | Depth (m) |
| -               | Loam topsoil                      | 0.6       |
| 007             | Upper fill of Ditch 09;           | 0.3       |
| -               | Dark brown loam                   | -         |
| 008             | Primary fill of Ditch 09;         | 0.2       |
| -               | Brown sand and gravel             | -         |
| 009             | NW-SE aligned ditch.              | _         |
| 010             | Over 53m long, 4.5m wide.         | 0.5       |
| -               | Sand and gravel subsoil           | _         |
| TRENCH 27       | Orientation: E-W                  |           |
| Length (m):     | 50                                |           |
| Width (m):      | 2                                 |           |
| Max. depth (m): | 0.5                               |           |
| Avg depth (m):  | 0.4                               |           |
| Context no.     | Description                       | Depth (m) |
| -               | Loam topsoil                      | 0.4       |
| 019             | Upper fill of Ditch 022;          | 0.48      |
| -               | Brown/yellow silty clay.          | -         |
| 020             | Fill of Ditch 022;                | 0.27      |
| -               | Brown clay silt.                  | -         |
| 026             | Fill of Ditch 022; brown clay     | 0.2       |
| 021             | Primary fill of Ditch 022;        | 0.3       |
| -               | brown sity clay.                  | -         |
| 021             | V-shaped ditch, 1.9m wide;        | 0.92      |
| -               | Aligned NW-SE.                    | _         |
| -               | Furrows, aligned N-S              | 0.05      |
| -               | Sand and gravel subsoil           | _         |
| TRENCH 28       | Orientation: NE-SW                |           |
| Length (m):     | 50                                |           |
| Width (m):      | 2                                 |           |
| Max. depth (m): | 0.45                              |           |
| Avg depth (m):  | 0.4                               |           |
| Context no.     | Description                       | Depth (m) |
| -               | Loam topsoil                      | 0.4       |
| -               | Furrows, aligned N-S. 6-8m apart  | 0.1       |
| -               | Ceramic field drains, aligned N-S | _         |

Sand and gravel subsoil

TRENCH 29 Orientation: N-S

50

Length (m):

| Width (m):  | 2   |                         |
|---|---|-------------------------|
| Max. depth (m):   | 0.8   |                         |
| Avg depth (m):  | 0.6   |                         |
| Context no.   | Description   | Depth (m)               |
| -   | Loam topsoil  | 0.6                     |
| 034   | Upper fill of Ditch 36;                                     | 0.7                     |
| -   | pink and grey clay silt.                                    | -                       |
| 035   | Lower fill of Ditch 36;                                     | 0.34                    |
| -   | grey sandy silt.  | -                       |
| 036   | Ditch cut aligned NE-SW;                                    | 1.0                     |
| -   | 2.6m wide   | -                       |
| -   | Sand and gravel subsoil                                     | -                       |
| TRENCH 30   | Orientation: NE-SW  |                         |
| Length (m):   |   | 50                      |
| Width (m):  |   | 2                       |
| Max. depth (m):   | 0.7   |                         |
| Avg depth (m):  | 0.6   |                         |
| Context no.   | Description   | Depth (m)               |
| -   | Loam topsoil  | 0.6                     |
| -   | Furrows, aligned N-S  | 0.05                    |
| -   | Sand and gravel subsoi                                      | -                       |
| TRENCH 31   | Orientation: NE-SW  |                         |
| Length (m):   | 50  |                         |
| Width (m):  | 2   |                         |
| Max. depth (m):   | 0.7   |                         |
| Avg depth (m):  | 0.5   |                         |
| Context no.   | Description   | Depth (m)               |
| -   | Loam topsoil  | 0.5                     |
| -   | Rubble drain,aligned E-W                                    | -                       |
| _   | Sand and gravel subsoil. Weathered sandstone                | -                       |
|   |   |                         |
| TRENCH 32   | Orientation: NEE-SWW  |                         |
| TRENCH 32<br>Length (m):  | Orientation: NEE-SWW<br>80                                  |                         |
|   |   |                         |
| Length (m):   | 80  |                         |
| Length (m):<br>Width (m):   | 80<br>2   |                         |
| Length (m):<br>Width (m):<br>Max. depth (m):                                  | 80<br>2<br>0.7  | Depth (m)               |
| Length (m):<br>Width (m):<br>Max. depth (m):<br>Avg depth (m):                | 80<br>2<br>0.7<br>0.5                                       | <b>Depth (m)</b><br>0.6 |
| Length (m):<br>Width (m):<br>Max. depth (m):<br>Avg depth (m):                | 80<br>2<br>0.7<br>0.5<br><b>Description</b>                 |                         |
| Length (m):<br>Width (m):<br>Max. depth (m):<br>Avg depth (m):<br>Context no. | 80<br>2<br>0.7<br>0.5<br><b>Description</b><br>Loam topsoil | 0.6                     |

| 014             | Partially exposed pit/linear;         | 0.27      | TRENCH 36       | Orientation: N-S                 |             |
|-----------------|---------------------------------------|-----------|-----------------|----------------------------------|-------------|
| -               | 0.6m visible length, 0.5m wide.       | -         | Length (m):     | 80                               |             |
| 011             | Fill of pit/linear (010)              | 0.05      | Width (m):      | 2                                |             |
| 010             | Partially exposed shallow pit/linear; | 0.05      | Max. depth (m): | 0.35                             |             |
|                 | 2m long, 0.2m wide.                   |           | Avg depth (m):  | 0.3                              |             |
|                 | Clayey sand subsoil                   |           | Context no.     | Description                      | Depth (m)   |
| TRENCH 33       | Orientation: E-W                      |           |                 | Loam topsoil                     | 0.3         |
| Length (m):     | 50                                    |           |                 | Rubble and ceramic field drains; |             |
| Width (m):      | 2                                     |           |                 | aligned N-S                      |             |
| Max. depth (m): | 0.45                                  |           |                 | Sand and gravel subsoil          |             |
| Avg depth (m):  | 0.4                                   |           | TRENCH 37       | Orientation: NW-SE               |             |
| Context no.     | Description                           | Depth (m) | Length (m):     | 50                               |             |
|                 | Loam topsoil                          | 0.4       | Width (m):      | 2                                |             |
|                 | Ceramic field drains, aligned N-S     |           | Max. depth (m): | 0.6                              |             |
|                 | Sand and gravel subsoil               |           | Avg depth (m):  | 0.5                              |             |
| TRENCH 34       | Orientation: N-S                      |           | Context no.     | Description                      | Depth (m)   |
| Length (m):     | 50 (+24 after trench expanded)        |           | -               | Loam topsoil                     | 0.6         |
| Width (m):      | 2                                     |           | -               | Rubble drain, aligned E-W        | -           |
| Max. depth (m): | 0.5                                   |           | -               | Sand and gravel subsoil          | -           |
| Avg depth (m):  | 0.4                                   |           | TRENCH 38       | Orientation: N-S                 |             |
| Context no.     | Description                           | Depth (m) | Length (m):     | 80                               |             |
| -               | Loam topsoil                          | 0.4       | Width (m):      | 2                                |             |
| 004             | charcoal-rich fill of Pit (03)        | 0.21      | Max. depth (m): | 0.6                              |             |
| 003             | sub round pit, 0.65m wide             | 0.21      | Avg depth (m):  | 0.6                              |             |
| 006             | Fill of Pit (05)                      | 0.22      | Context no.     | Description                      | Depth (m)   |
| 005             | Sub oval stone-lined pit;             | 0.22      |                 | Loam topsoil                     | 0.6         |
| -               | 1.2m long, 0.85m wide.                | -         |                 | Ceramic drains, NW-SE            |             |
| 024             | Fill of Pit (23)                      | 0.15      |                 | Sand, gravel and clay subsoil    |             |
| 023             | Sub round pit, 0.8m wide              | 0.22      | TRENCH 39       | Orientation: NW-SE               |             |
| -               | Sand and gravel subsoil               | -         | Length (m):     | 50                               |             |
| TRENCH:35       | Orientation: NWW-SEE                  |           | Width (m):      | 2                                |             |
| Length (m):     | 50                                    |           | Max. depth (m): | 0.6                              |             |
| Width (m):      | 2                                     |           | Avg depth (m):  | 0.5                              |             |
| Max. depth (m): | 0.8                                   |           | Context no.     | Description                      | Depth of    |
| Avg depth (m):  | 0.6                                   |           |                 |                                  | deposit (m) |
| Context no.     | Description                           | Depth (m) | -               | Loam topsoil                     | 0.5         |
| _               | Loam topsoil                          | 0.6       | -               | Rubble drains, aligned E-W       |             |
|                 | No archaological factures             |           | -               | Modern trackway make-up;         |             |
| _               | No archaeological features            | -         | _               | Tarmac and stone                 |             |
| _               | Sand and gravel subsoil               | -         | _               | Sand and gravel subsoil          |             |



| TRENCH 40       | Orientation: NW-SE                          |           | Context no.      | Description                        | Depth (m) |
|-----------------|---|-----------|------------------|------------------------------------|-----------|
| Length (m):     | 100   |           | -                | Loam topsoil                       | 0.4       |
| Width (m):      | 2   |           | 002              | Fill of furrow (01);               | 0.1       |
| Max. depth (m): | 0.7   |           | _                | Grey brown clay silt.              | -         |
| Avg depth (m):  | 0.5   |           | 001              | Furrow aligned N-S. 1.1m wide      | 0.1       |
| Context no.     | Description                                 | Depth (m) | _                | Clay, sand and gravel subsoil      | _         |
| -               | Loam topsoil                                | 0.5       | <b>TRENCH 44</b> | Orientation: E-W                   |           |
| -               | Ceramic and rubble field drains;            | -         | Length (m):      | 50                                 |           |
| -               | Aligned E-W                                 | -         | Width (m):       | 2                                  |           |
| -               | Clayey sand subsoil with degraded sandstone | -         | Max. depth (m):  | 0.6<br>0.5                         |           |
| TRENCH 41       | Orientation: E-W                            |           | Avg depth (m):   |                                    | Donth (m) |
| Length (m):     | 50  |           | Context no.      | Description                        | Depth (m) |
| Width (m):      | 2   |           | _                | Loam topsoil                       | 0.5       |
| Max. depth (m): | 0.5   |           | _                | Ceramic field drains, aligned E-W  | -         |
| Avg depth (m):  | 0.5   |           | _                | Sand and gravel subsoil            | _         |
| Context no.     | Description                                 | Depth (m) | <b>TRENCH 45</b> | Orientation: NE-SW                 |           |
| -               | Loam topsoil.                               | 0.6       | Length (m):      | 50                                 |           |
| 018             | Upper fill of pit/ditch (016);              | 0.08      | Width (m):       | 2                                  |           |
| -               | grey brown loam.                            |           | Max. depth (m):  | 0.6                                |           |
| 017             | Lower fill of pit/ditch (016);              | 0.14      | Avg depth (m):   | 0.5                                |           |
| -               | yellow grey clayey sand.                    |           | Context no.      | Description                        | Depth (m) |
| 016             | Oval pit/ditch terminal;                    | 0.22      | _                | Loam topsoil                       | 0.5       |
| -               | 2.6m long, 1m wide.                         |           | -                | Modern pit 0.25m diameter          | >0.4      |
| -               | Sand and gravel subsoil                     |           | _                | Clay and gravel subsoil            | -         |
| TRENCH 42       | Orientation: NE-SW                          |           | <b>TRENCH 46</b> | Orientation: NW-SE                 |           |
| Length (m):     | 100   |           | Length (m):      | 40                                 |           |
| Width (m):      | 2   |           | Width (m):       | 2                                  |           |
| Max. depth (m): | 0.7   |           | Max. depth (m):  | 0.6                                |           |
| Avg depth (m):  | 0.6   |           | Avg depth (m):   | 0.5                                |           |
| Context no.     | Description                                 | Depth (m) | Context no.      | Description                        | Depth (m) |
| -               | Loam topsoil                                | 0.6       | -                | Loam topsoil                       | 0.5       |
| _               | Furrows aligned N-S                         | -         | -                | Ceramic field drain, aligned NW-SE | -         |
| _               | Rubble drain aligned N-S                    | -         | -                | Sand and gravel subsoil            | -         |
| -               | Ceramic drains aligned N-S & E-W            | -         | TRENCH 47        | Orientation: NEE-SWW               |           |
| -               | Clay and sand subsoil                       | _         | Length (m):      | 50                                 |           |
| TRENCH 43       | Orientation: NW-SE                          |           | Width (m):       | 2                                  |           |
| Length (m):     | 52  |           | Max. depth (m):  | 0.5                                |           |
| Width (m):      | 2   |           | Avg depth (m):   | 0.4                                |           |
|                 |   |           |                  |                                    |           |
| Max. depth (m): | 0.5   |           | Context no.      | Description                        | Depth (m) |

| -   | Ceramic field drains, aligned N-S         | -                       |
|---|---|-------------------------|
| -   | Silt and gravel subsoil with shale lenses | -                       |
| TRENCH 48                                       | Orientation: NE-SW                        |                         |
| Length (m):                                     | 20  |                         |
| Width (m):                                      | 2   |                         |
| Max. depth (m):                                 | 0.5                                       |                         |
| Avg depth (m):                                  | 0.3                                       |                         |
| Context no.                                     | Description                               | Depth (m)               |
| -   | Loam topsoil                              | 0.3                     |
| -   | No archaeological features                | -                       |
| -   | Stone, gravel, mottled clay subsoil       | -                       |
| TRENCH 49                                       | Orientation: NW-SE                        |                         |
|   |   |                         |
| Length (m):                                     | 15  |                         |
| Length (m):<br>Width (m):                       | 15<br>2                                   |                         |
| Ū.  |   |                         |
| Width (m):                                      | 2   |                         |
| Width (m):<br>Max. depth (m):                   | 2<br>0.4                                  | Depth (m)               |
| Width (m):<br>Max. depth (m):<br>Avg depth (m): | 2<br>0.4<br>0.3                           | <b>Depth (m)</b><br>0.3 |
| Width (m):<br>Max. depth (m):<br>Avg depth (m): | 2<br>0.4<br>0.3<br>Description            | •                       |

# $\langle\!\!\!\!\!\!\!\!\!\rangle$

#### Appendix 3 – Finds assessment

The finds assemblage was very small and could all be dated to the post-medieval and modern periods. The finds include three sherds of pottery, six of glass, two iron fragments, with 31g of ironworking waste and 6g of mortar.

The earliest of the pottery sherds is a small body sherd of locally made post-medieval reduced ware. It was found in the lower ditch fill [021] and is likely to be of 16th or 17th century date. The only finds associated with this were some fragments of iron-working waste.

None of the other finds provide secure dating evidence. The pottery and glass fragments ([015], [020]) are of modern date but are so small that their presence in these deposits may be the result of bio-turbation. The iron, slag and mortar fragments cannot be closely dated, but are likely to be contemporary with the post-medieval or modern finds.

#### Finds catalogue

| _            |   |
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| 2 | Context<br>no. | Sample<br>no. | Qty | Weight (g) | Material            | Object    | Description  | Spot Date | Period |
|---|----------------|---------------|-----|------------|---------------------|-----------|--|-----------|--------|
| , | 007            | 004           | 1   | 1          | Industrial<br>Waste | Iron Slag | fragment   | -         | _      |
|   | 015            | 008           | 2   | -          | Pottery (Mod)       | Fragments | whiteware, redware   | -         | Mod    |
|   | 015            | 008           | 1   | -          | Industrial<br>Waste | Iron Slag | fragment   | -         | -      |
|   | 015            | 008           | 5   | -          | Glass               | Bottle    | fragments of brown & colourless glass  | -         | Mod    |
|   | 020            | 012           | 1   | -          | Glass               | Fragments | very small   | -         | -      |
|   | 020            | 012           | _   | -          | Industrial<br>Waste | Mag Res   | _  | -         | -      |
|   | 020            | 012           | 2   | 6          | Industrial<br>Waste | Iron Slag | -  | -         | -      |
|   | 020            | 012           | 2   | -          | Iron                | Fragments | _  | -         | -      |
|   | 021            | 015           | 4   | 10         | Industrial<br>Waste | Iron Slag | -  | -         | -      |
|   | 021            | 015           | 1   | -          | Pottery (PM)        | PMR       | grey fabric with oxidised red interior, olive green glazed exterior, slightly sandy fabric | 16th/17th | PM     |
|   | 035            | 017           | 5   | 14         | Industrial<br>Waste | Iron Slag | small pieces   | -         | -      |
|   | 035            | 017           | 5   | 6          | Mortar              | Fragments | -  | _         | _      |

# Appendix 4 – Palaeoenvironmental sample assessment

#### Introduction

Seventeen bulk soil samples were taken during the excavation at Seton Sands Holiday Centre, in the outskirts of Edinburgh and eight of these were processed for palaeoenvironmental assessment. The processed samples were taken from potential prehistoric pit and ditch fills that were identified during the excavation; the site is interpreted as being a prehistoric settlement site. The assessment aims to look at the palaeoenvironmental potential of the material and what information these can provide on the function and use of the site.

#### Method

Samples were processed in laboratory conditions using a standard floatation method (*cf.* Kenward *et al*, 1980). All plant macrofossil samples were analysed using a stereomicroscope at magnifications of x10 and up to x100 where necessary to aid identification. Identifications were confirmed using modern reference material and seed atlases including Cappers *et al* (2006). Any charred plant remains were recorded using a simple four-point scale as follows: + = rare, ++ = occasional, +++ = common, ++++ = abundant. Notes were also made on the condition of the charred plant remains.

#### Results

The results of the sample processing are provided in Tables A4.1 (Retent finds) and A4.2 (Floatation finds). Suitable material for AMS dating is also identified within each table. All plant remains were preserved through charring.

#### Charred plant remains

Charred plant remains were identified in five of the eight samples assessed [003, 004, 012, 105 and 017] ranging from rare to occasional instances. The cereals identified included hulled barley (*Hordeum vulgare*), emmer wheat (*Triticum dicoccum*) and indeterminate grain (*Cerealia indet*.) that were too poorly abraded and fragmentary to identify to species level. Hazel nutshell fragments (*Corylus avellana*) were identified in rare amounts in sample [003].

Together with the charred grain a small amount of wild taxa were found in rare to occasional abundances in the form of fat hen (*Chenopodium album*) and ivy-leaved speedwell (*Veronica hederifolia*).

#### Wood charcoal

Wood charcoal fragments were present in two of the samples assessed ([003] and [013]) in rare to abundant instances with sizes ranging from <0.5 to 2.5cm maximum. The charcoal was identified by eye to be mostly oak (*Quercus* sp.) species in sample [013] and mostly non-oak charcoal in sample [003].

#### Other remains

Together with the charred plant remains recovered from samples, post medieval pottery was found in rare frequencies in sample [015] along with mortar (sample [017]) and glass (samples [008] and [102]). Ferrous industrial waste was identified in five ([004], [008], [012], [015] and [017]) of the eight samples in rare amounts and magnetic residue material was found in Sample 12 in common frequencies. Unburnt bone of probable small mammals (e.g. rodents) was identified in rare quantities from two samples ([004] and [017]). Marine shell was present in one sample [012] and terrestrial shell also in one sample [017]. Coal and/or cinder remains were found in all but two of the samples [003 and 013] in rare to occasional amounts (see Table A4.1).

#### Discussion

The eight samples assessed from site SSHC11 contained **21** a small quantity of palaeoenvironmental material. These are discussed below by feature type.

#### Ditch features

Three samples ([011], [012] and [015]) were taken from ditch feature [022] this contained sparse numbers of charred cereal grain with barley, emmer wheat and indeterminate grain present in single figure quantities. Small numbers of wild taxa were also recovered with fat hen and ivy-leaved speedwell present; both of these may relate to ruderals. The presence of emmer wheat tentatively suggests a prehistoric date for the feature, with emmer having been recovered from a number of prehistoric sites in Scotland (Boyd 1988). However, the small quantity and poor condition of the grain indicates it could also represent intrusive or re-worked material.

One sample [017] was taken from the fill of ditch [036] and this also contained a small quantity of indeterminate grain (see Table A4.2).

A range of other materials were also recovered from the fills of ditch [022] including post medieval pottery in the basal fill, glass sherds and iron slag. These materials would indicate a later date for the ditch, especially given their presence in the basal fill. The presence of oyster shell in ditches [022] and [036] may also be indicative of food debris accumulating in the ditches.

#### Pit features

Two samples ([008] and [013]) were taken from the fills of pits [014] and [023], respectively. Neither feature contained any (non-charcoal) charred plant remains. pit [023] contained abundant charcoal fragments, which were observed to be mainly oak charcoal (see Table A4.1). The presence of only (oak) charcoal in the pit suggests it may relate to charcoal production, which would suggest a medieval date. The absence of coal may also indicate this pit was in use during an earlier period than ditches ([022] and [036]).

#### Sub-circular feature (005)

One sample [003] was taken from sub-circular feature [005], which was found to contain hazel nutshell and charcoal, observed to be mainly non-oak (see Tables A4.1 and A4.2). The assemblage indicates this feature may be of prehistoric date, with hazel nut shell a common find on

sites of this period. This is also indicated by the absence of any medieval materials as recovered in previous samples (see above). Charred seeds of fat hen and ivy-leaved speedwell were also recovered; however, these may relate to intrusive material from later activity at the site.

#### Conclusions

- A small quantity of charred cereal grain was recovered from the site, with the presence of emmer in particular suggesting prehistoric activity, although this is likely to have been reworked.
- The overall assemblage indicates 2 to 3 phases of activity at the site with the earliest (prehistoric) activity likely to relate to sub-circular feature [005], followed later by pit [023] and then the other features on site.

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|   |            |                           |                     | q.                            | q.                            | ot                                       |                      | d cinder   |                   | q.                            |                      |                               |                                       |
|---|------------|---------------------------|---------------------|-------------------------------|-------------------------------|--|----------------------|--|-------------------|-------------------------------|----------------------|-------------------------------|---------------------------------------|
|   |            |                           |                     | not retaine                   | not retaine                   | sent. Coal n                             | ned.                 | ent. Coal an   |                   | not retaine                   | rcoal.               |                               |                                       |
| Cinders Coal Comments                                   |            |                           |                     | Coal and cinder not retained. | Coal and cinder not retained. | Oyster shell present. Coal not retained. | Cinder not retained. | Snail shell present. Coal and cinder<br>not retained |                   | Coal and cinder not retained. | Mostly Oak charcoal. |                               | Mostly non-oak                        |
| Coal Co   |            |                           |                     | 5                             | +                             | +<br>Q. 6                                | Ū                    | +  |                   | +                             | -                    |                               | Ξ.                                    |
| nders (   |            |                           |                     |                               | Т                             | Т  |                      | Т  |                   | T                             | I                    |                               |                                       |
|   | ing        |                           |                     | ++                            | +                             | I  | +                    | +  |                   | +                             | <br>+<br>+           |                               | r ed                                  |
| Material<br>available for                               | AMS Dating |                           |                     | I                             | 1                             | I  | I                    | I  |                   |                               | Charcoal +++         |                               | Charcoal<br>++, Charred<br>nutshell + |
|   |            | Max Size<br>(cm)          |                     |                               |                               |  |                      |  |                   |                               |                      |                               |                                       |
| arcoal  |            | Qty Ma<br>(cr             |                     | Ι                             | I                             | I  | I                    | I  |                   |                               | ++++ 2.5             |                               | +++ 1.5                               |
| Charred Charcoal<br>plant                               | :          | à                         |                     | I                             | I                             | I  | I                    | I  |                   | I                             | +                    |                               | +                                     |
| Charre  | _          | a                         |                     | Ι                             | I                             | I  | T                    | I  |                   | I                             | I                    |                               | +                                     |
|   |            | Mammal Marine Terrestrial |                     | I                             | I                             | I  | I                    | +  |                   | I                             | I                    |                               | 1                                     |
| Shell   |            | Marine                    |                     | I                             | I                             | +  | T                    | I  |                   | I                             | I                    |                               | T                                     |
| Unburnt Shell<br>bone                                   |            | Mammal                    |                     | +                             | I                             | I  | I                    | +  |                   | I                             | I                    |                               | 1                                     |
| al Waste  |            | Mag<br>res                |                     | I                             | I                             | +<br>+<br>+                              | I                    | I  |                   | I                             | I                    |                               | T                                     |
| Glass Industrial Waste                                  |            | Fe slag                   |                     | +                             | I                             | +  | +                    | +  |                   | +                             | I                    |                               | T                                     |
| Glass   |            | Glass                     |                     | I                             | I                             | +  | I                    | I  |                   | +                             | I                    |                               | 1                                     |
| Building<br>Materials                                   |            | Mortar                    |                     | I                             | I                             | I  | I                    | +  |                   | I                             | I                    |                               | I                                     |
| Sample Sample Ceramic Building<br>no. Vol (I) Materials | Pottery    | Medi-PM Mortar            |                     | I                             | I                             | I  | +                    | I  |                   | +                             | Ι                    |                               | 1                                     |
| Sample (I)  |            |                           |                     | 40                            | 10                            | 40                                       | 40                   | 40   |                   | 20                            | 10                   | 5                             | 40                                    |
| Sample 5  |            |                           |                     | 004                           | 011 1                         | 012 4                                    | 015 4                | 017 4  |                   | 800                           | 013 1                | Sib-circular feature deposits | 003                                   |
|   |            |                           | deposits            | )                             |                               | -  | J                    | -  | oosits            | )                             | J                    | lar featur                    |                                       |
| Context no.   |            |                           | Ditch fill deposits | 007                           | 019                           | 020                                      | 021                  | 035  | Pit fill deposits | 015                           | 024                  | Sib-circul                    | 006                                   |

Key += rare, ++ = occasional, +++ = common and ++++ = abundant

NB charcoal over 1cm is suitable for identification and AMS dating

 Table A4.1

 Retent finds

| Context no.         | Context no. Sample no. Total flot | Total flot | Cereal grain: Hordeum | Hordeum | Triticum | Cerealia indet. Other | Other   | Charcoal         | Material                   | Comments                 |
|---------------------|-----------------------------------|------------|-----------------------|---------|----------|-----------------------|---|------------------|----------------------------|--------------------------|
|                     |                                   |            |                       | vuigare | alcoccum |                       | plant remains                                   | Qty Max size (cm | — availadie tor Aivis<br>1 |                          |
| Ditch fill deposits | osits                             |            |                       |         |          |                       |   |                  |                            |                          |
| 007                 | 004                               | 100        | I                     | +       | I        | ++++                  | Veronica hederifolia ++                         | I                | Charred grain +            | 1                        |
| 019                 | 011                               | 5          | I                     | I       | I        | I                     | 1   | I<br>I           | I                          | Archaeologically Sterile |
| 020                 | 012                               | 25         | I                     | +       | +        | +                     | I   | I                | Charred grain +            | 1                        |
| 021                 | 015                               | 10         | I                     | +       | I        | I                     | Chenopodium album +                             | I<br>I           | I                          | Shell +                  |
| 035                 | 017                               | 20         | I                     | I       |          | +                     | 1   | 1                | 1                          | Shell ++                 |
| Pit fill deposits   | ts                                |            |                       |         |          |                       |   |                  |                            |                          |
| 015                 | 008                               | 75         | I                     | I       | I        | I                     | I   | I                | I                          | Archaeologically Sterile |
| 024                 | 013                               | 10         | I                     | I       | I        | I                     | 1   | I<br>I           | I                          | Archaeologically Sterile |
| Sub-circular        | Sub-circular feature deposits     | its        |                       |         |          |                       |   |                  |                            |                          |
| 900                 | 003                               | 75         | I                     | I       | T        | I                     | Veronica hederifolia ++,<br>Chenopodium album + | + <0.5           | I                          | I                        |

Key += rare, ++ = occasional, +++ = common and ++++ = abundant

NB charcoal over 1cm is suitable for identification and AMS dating



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## Appendix 5 – Discovery and Excavation in Scotland Entry

| nsent<br>ground<br>din-<br>emains.<br>ehistoric<br>e at<br>o be<br>ury, or<br>their<br>ergone<br>c<br>low soil. |
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