

SPC02

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Client: Archdiocese of St Andrews and Edinburgh

**St. Patrick's Church, Cowgate, Edinburgh
Results of an Archaeological Excavation**

PROJECT SUMMARY SHEET (SPC02)

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Summary

Headland Archaeology Ltd undertook an excavation at St Patrick's Church, Cowgate, Edinburgh in advance of the construction of a hotel on the site. The site lies within the historic core of medieval Edinburgh, a UNESCO World Heritage Site.

Beneath a series of 19th century walls excavations revealed up to 1.5m of reworked midden deposits, which had been washed down from the High Street and accumulated at the base of the slope on the Cowgate. A series of timber stakes had been driven through these deposits at varying depths. The stakes appear to have been used to provide stable footings for buildings and some of them correspond to the layout of buildings visible on the first edition Ordnance Survey map (1849).

Cut through the lower levels of midden was a substantial ditch running from east to west, terminating just before the western edge of the site. This had been hastily backfilled before being re-cut on at least one occasion. It appears to represent the town ditch, previously identified in excavations to the west of the site.

To the north of the ditch in the centre of the site was part of a sunken barrel, which appeared to have served as a sump. This was very well-preserved with wooden barrel hoops and withies surviving.

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1. INTRODUCTION

This report presents the results of an archaeological excavation undertaken at St Patrick's Church, Cowgate, Edinburgh. Chardon Hotels Ltd has been granted planning consent to build a hotel in the grounds. The site is located on the north side of the Cowgate and is bounded to the west by South Gray's Close (Figure 1; NT 261 735). It lies within the historic core of medieval Edinburgh, a UNESCO World Heritage Site. The Cowgate lies at the bottom of the ridge on which the High Street stands and appears to have been laid out in the 14th century.

The proposed development site was formerly occupied by a bowling green, which had been built over a WWII concrete water tank. Previous evaluation of the site established that medieval archaeological deposits survived below the level of the concrete tank, up to a depth of 2.5m below the modern ground surface (CECAS 1990; Rees & Martin 2000). This material is likely to have formed through refuse dumping from properties further upslope and the remains of rotted turf and timber buildings. The City of Edinburgh Council Archaeology Service (CECAS), advisors to the Council as Local Planning Authority, therefore requested that a full archaeological excavation be undertaken, as the planned development would destroy surviving archaeological deposits. The work followed a Project Design submitted to CECAS by Headland Archaeology and was funded by the Archdiocese of St Andrews and Edinburgh.

2. OBJECTIVES

The main objectives of the excavation were:

- To preserve by record any archaeological remains threatened by the proposed development works
- To further our understanding of the development of the Cowgate during the medieval period, especially through the study of soil formation processes and archaeobotanical evidence.

3. METHOD

STAGE 1

Profile Trenching

Modern overburden was removed by a mechanical excavator under direct archaeological control and the spoil was removed from site. The initial excavation was stepped in 2m from the existing boundary walls. Two trenches were excavated by machine through the deep accumulated deposits down to natural subsoil (Trenches 1 and 2). The trenches were orientated north to south in order to establish the sediment history of the site. The deposits in these trenches were then recorded in order to guide the subsequent excavation strategy. It was intended to excavate a third trench running east to west at the southern end of the site in order to target the street frontage. However, the ground in this area was too soft and the trench became quickly waterlogged and the trench was abandoned.

The exposed sections of the trenches were cleaned, recorded and drawn. Kubiena tins were taken in order to record the sediment sequence and bulk samples were taken for environmental assessment. Trench 2 was stepped in due to its depth. The trench was

subsequently re-excavated from a lower level in order to fully record all the deposits. The trenches were then backfilled for ease of working and fenced off.

Trenches 3 and 4 were excavated at the end of the excavation to clarify the sequence of deposits across the site.

Excavation

The stratigraphy recorded in the profile trenches was used to inform the excavation of the site by context and spit. Each context/spit was hand cleaned and swept by a metal detector. Any features identified within the context/spit were excavated and recorded. The extent of the context/spit was recorded and levels taken. Four or five evenly distributed test pits (1m x 1m) were then excavated through each context/spit and the material wet-sieved for finds retrieval. Once the location of the test pits had been recorded the context/spit was removed by machine. Excavations were stepped in by 1m for every 1m depth of deposit excavated.

Beneath the archaeological soil layers was a deposit of fine grey clay [070], overlying the natural till [004]. Two further trenches orientated north to south (Trenches 3 and 4) were excavated through this deposit in order to clarify its extent and the full stratigraphic sequence of the site.

Recording

The site was recorded using Headland's Large Area Urban Survey Strategy; a copy of this document is in the site archive. All contexts were surveyed in detail and levels were taken relative to Ordnance Datum. An overall site plan was produced, tied to the National Grid and detailed structure and area plans were drawn manually at 1:20. Sections were drawn at 1:10 or 1:20 where appropriate. Colour transparencies and colour print photographs were taken. All contexts and environmental samples were given unique numbers and were recorded on *pro forma* record sheets. A running matrix based on the N-S section of Trenches 1 and 2 was maintained.

Environmental samples

Forty-three samples were collected for environmental assessment (see Sample Register Appendix 1.4). 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).

STAGE 2

Following consultation with John Lawson of CECAS, defined areas of the standing baulks were targeted for subsequent excavation. After the insertion of sheet piling the Cowgate frontage and areas on the east and west side of the site were subject to further archaeological excavation. Three trenches were excavated (Figure 1; Trenches 5-7). A crane pit was also excavated by contractors to the east of the site within the church grounds. Due to its depth it was not possible to record the sections of the trench in detail but sketch sections were made and photographs taken.

4. RESULTS

A full description of all deposits is provided in Appendix 1 and the site matrix can be found in Appendix 4. Summary descriptions are provided below. At this stage the site has been divided into three broad phases: medieval, post-medieval and 19th century.

STAGE 1: PROFILE TRENCHING

The stratigraphic sequence revealed in the sections of Trenches 1 and 2 was fairly consistent across the site. It comprised grey brown gritty silt [003] up to 0.80m in depth. This was a re-worked buried soil comprising midden and accumulated deposits washed down from the High Street. This was split into three spits for excavation purposes [003/1, 003/2, 003/3] based on the diminishing frequency of shell fragments throughout the deposit. This overlay grey brown clayey silt [007], 0.40m in depth, also a buried soil formed in a similar manner to the overlying deposit. During the excavation of Trench 2, the northern edge of Ditch [075] was revealed (see below), cutting through [007]. Beneath [007] in Trench 2 was mid grey to brown silty clay [070], which appeared to be a water borne deposit, possibly within an old water channel and not present in Trench 1. At the base of this deposit were patches and bands of humic, woody peat [142], which must have formed in a wet environment. Beneath was a weathered till horizon [004]. Identified in section to the north of the ditch was a light brown silt deposit [105], thought to be a possible early buried soil sealed beneath [070].

Two further trenches (3 and 4; Figure 1) were subsequently excavated at the end of the excavation through [070] to find its depth and extent across the site. In addition a sondage established that the deposit was only 0.10m deep in the north-west corner (and entirely absent in Trench 1 in the north-east corner). The profile suggested the deposit filled a shallow depression or channel, which was deepest (0.4m) where the ditch [075/076] had been cut. This suggested that the ditch had utilised an existing channel, which had formed at the base of the slope from High Street.

PHASE 1: MEDIEVAL DEPOSITS

Barrel

The earliest archaeological feature on site was the remains of a buried wooden barrel (Figure 2; Plates 1 and 2). The barrel [132] was placed in a sub-circular pit [134] 0.45m in depth, with a flat shelf 0.10m from the base. The barrel rested on this shelf and the space between the barrel and the cut had been backfilled with dark brownish grey sandy silt [133], with a number of large boulders placed around the edge of the cut, apparently to shore up the sides of the cut following collapse. A large stone had been placed at the base of the pit and above this were a series of black silt deposits filling the barrel [124, 135, 139, 141], with the middle layers being the most organic (no base of the barrel survived). Deposit [135] contained the remains of probable barrel staves [136 and 137].

The barrel itself was made up of 20 staves, which had been broken off at the top and survived to a height of 0.20-0.30m. Internally at the base of the staves was a groove c3mm from the bottom of the barrel, which would have held the headpiece. Externally there were two groups of wooden hoops made of halved roundwood, 3 at the top of the barrel and a group of 4 toward the base, held together by a thin withy binding. The staves, hoops and withies were all generally well-preserved. An iron object, possibly a handle (SF 15), was found on the outside of the barrel during the removal of the upper group of hoops, within the backfill [133].

The barrel was sealed by deposit [007] and cut through [140], one of a number of deposits (see also [125, 126]) comprising thin spreads of material representing occupation deposits or buried soils relating to the use of the area. These deposits directly overlay clay deposit [070].

Ditches

A substantial ditch [076/075], first exposed during the excavation of Trench 2, was found cutting through deposit [007] to the south of the barrel (Figures 2 and 4; Plate 3). The ditch ran from east to west, terminating around 5m before the western edge of the site. The ditch was 6m wide and 1.3m deep and had initially silted up at the base [090, 089, 104]. Two pieces of leather were excavated from the organic-rich deposits at the base of the ditch (SF 9 and 12). Above these deposits was a layer of compact orange gravelly clay and stones [99], which appeared to be re-deposited natural derived from a bank. Above this was an organic deposit [098] and a further layer of silting [103]. Above this was a thick layer of re-deposited natural [078], which again appeared to be material from a bank on the northern side of the ditch that had been used to deliberately backfill the ditch. Above this was a layer of light brown silty clay [077]. The ditch had been re-cut on its southern side [097].

The re-cut ditch was filled primarily with a layer of large stones [102] within dark greyish brown silty clay [080]. A horn comb (SF8) was found in this deposit. Above this was wood-rich organic layer [101] sealed by mid grey silty clay [100]. The re-cut was 2.5m wide and 0.9m deep but was not clearly visible in other sections cut through the ditch further west [075] and at the terminal [143]. However, the stony backfill [102] continued into both these sections and completely filled the terminal. This suggests that the re-cut widened towards the west and encompassed the whole of the terminal.

A second ditch [095] (Figure 2; Plate 4) had been cut into the top of the ditch at the west end. There was little to distinguish the backfill of the ditches suggesting they had filled up at the same time. Ditch [095] would appear to have been cut while the main ditch was still fairly open, presumably for drainage. At 4m it was wider than the main ditch at this point and was 0.55m in depth.

The ditches were sealed by [003/3], the lowest spit of the buried soil deposit.

PHASE 2: POST-MEDIEVAL DEPOSITS

Culvert

Following the removal of [003/1] a stone-lined culvert [013/014] was revealed (Figure 3, Plates 5 and 6). This was cut [016] into [003/2] and was 0.50m wide and 0.20m in depth. The culvert was traced for 12m running from north-west to south-east across the southern part of the site and into the eastern section. At its north end the culvert appeared to have been partly truncated by the excavation of Trench 2, however it did not continue beyond this point.

Three courses of large sub-rectangular stones [014] were laid on either side of the flat base of the cut. Large, flat sandstone slabs [013] capped the culvert with several small stones packed into the gaps. The fill [015] was dark brown silty clay containing shell, bone and pottery fragments.

Wooden stakes

A number of shaped timber stakes were found, which had been driven into the midden deposits [003] and [007] (Figure 3; Plates 7 and 8). The first stakes were visible following the removal of [003/1]; more stakes were recorded following the removal of each of the subsequent midden contexts [003/2, 003/3, 007]. This is likely to reflect the differential survival of the timbers rather than successive building phases; only when all the midden deposits had been removed did the stakes begin to form a coherent pattern.

The first group of stakes were uncovered running to the east of the culvert [016] and roughly parallel to it (Figure 3, Group 1). The stakes appeared to form two parallel lines, and run for approximately 6m, following the line of the culvert at first, before turning to the north.

Group 2 was a group of 42 stakes in a roughly oval shape covering an area of 3.3m by 2.3m. The stakes appeared to be laid out in a rough series of lines, with occasional stakes out of line. The outer western line of stakes forms a clear curve across to the east at the northern end.

Group 3 comprised 9 stakes. Some of the stakes [26, 28, 29 and 30, 32] appeared to form two parallel lines roughly perpendicular to Group 1 and may have had a related role.

Group 4 comprised eight stakes and again most of appeared to be arranged in two parallel lines, although slightly wider apart than the other two groups. Stake [113] was isolated.

The stakes were all well-preserved and 56 out of 71 were retained. The majority of the stakes had been roughly squared with a pointed base. A number of them contained square-shaped notches in the sides. This may reflect re-use or a means of carrying the stakes.

PHASE 3: 19TH CENTURY STRUCTURES

There were a number of 19th century walls recorded across the site. During the main excavation a number of sandstone and mortar walls [002] were surveyed. Following the insertion of the sheet piling a number of brick walls were revealed along the eastern, southern and western edges of the site. These were recorded on a measured sketch plan as the ongoing construction prevented any more detailed recording.

STAGE 2

Trench 5

Trench 5 was excavated along the western edge of the site in order to trace the continuation of Ditch [095] and to look for possible boundary ditches or structures to the north. The trench measured 2m wide and 6m in length. It was limited in length to the north due to the presence of a horizontal steel beam running east to west across the site. The trench was stepped due to its depth and the ditch was recorded in section only. No other cut features were observed in the small area of clay [070] exposed.

Beneath c0.6m of recent backfill, deposit [003] was recorded with a depth of 0.7m. This overlay the fill [146] of a broad, shallow ditch [147], the same as [095] recorded during the Stage 1 excavation. The ditch was cut through [007], which was 0.4m in depth. Beneath this was [070], 0.35m in depth. Till [004] was recorded at 57.76mOD.

Trench 6

Trench 6 was excavated parallel to the Cowgate frontage in order to check for the presence of medieval features in this area. The trench measured 2m wide and was 5m in length. It was limited in length to the west due to a concrete slab overlying a wall. However, around 4m further west, the removal of brick foundations was monitored and these were found to be directly above natural clay [007]; demonstrating that 19th century buildings had removed the medieval midden deposits in this area.

The stratigraphic sequence in Trench 6 was the same as elsewhere on site, with the top of the midden [003] recorded at 58.72mOD. This overlay 0.24m of [007] with the natural clay deposit [070] recorded at 57.86mOD. In the east facing section of the trench two stone walls were recorded. Wall [149] appeared to run north to south and had been truncated by wall [150], which was bonded with cement mortar. It was not possible to determine the precise nature of the walls as they were recorded only in section but both appear on the 1st edition OS map.

Trench 7

Trench 7 was excavated in three sections along the eastern edge of site due to the presence of horizontal steel beams crossing the site from east to west. The trench was excavated in order to establish the continuation of the line of ditch [075/076] and to look for possible boundary features or structures to the north of the ditch.

The top of the midden [003] was recorded at 58.86mOD with a layer of stones in the top of the ditch recorded at 58.06mOD and thought to be the same as [102] further west. The trench was machine excavated down to the clay [070] in order to clearly expose the cut. The southern edge of the ditch was revealed cut through [070] at 57.86mOD. Due to the location of the steel beams the northern edge of the ditch was not exposed. Its approximate line is indicated on Figure 1. The clay [070] was recorded at 58.23mOD in the northern end of the trench.

Crane pit

A pit was excavated to the east of the development site in front of St Patrick's Church for the temporary insertion of a crane. The pit measured 6m by 6m and was 2.3m in depth. The top of the midden was recorded at an approximate depth of 59.53m OD in the north-west corner.

There was a sandstone wall running north to south across the crane pit just to the west of the centre (Figure 1). The deposits to the east of this wall consisted of modern backfill. Natural clay was exposed at approximately 58.6mOD at the eastern side of the trench. To the west of the wall a broad cut was visible. Modern disturbance c1m in depth overlay mixed midden deposits [148] visible in the east facing section of the trench. It was not possible to clearly differentiate between the deposits in section due to the depth of the trench but at least two different deposits were observed when removed from the machine bucket for sampling purposes. They comprised a dark grey silt deposit and a light brown clayey silt, probably similar to [003] and [007]. Oyster shell and charcoal were present within the midden. Tree roots along the western edge of the trench had also considerably disturbed the upper midden deposits. The midden extended to a depth of 58.08mOD and directly overlay till [004].

Well

The construction workers on the site also reported finding a brick-lined well on the southern edge of the site during the insertion of the sheet piling. The void was subsequently backfilled with pea gravel and no trace of the structure was seen during the Phase 2 works. The approximate location of the well is shown on Figure 1.

5. FINDS *Julie Franklin*

The assemblage is largely of medieval date, though mixed and abraded. The ditch provides the best finds evidence.

RESULTS

A complete list of all the finds is given in Appendix 2: Table 1.

Pottery:

Medieval and Early Post-Medieval Wares: (1018 sherds)

The pottery covers the period 12th to 17th century. However, the small sherd size and lack of well-defined stratigraphy reduces the value of the assemblage. There are 42 imported sherds of Scarborough type ware, Rhenish stonewares, including Seigburg, and possible Raeren or Langerwehe sherds, Low Countries grey and redwares, including a skillet profile. The ditch provides the only large sherds and possibility of a stratigraphic progression, though again there seems to be some mixing and may represent a single episode of infilling in the 16th century.

Modern Wares: (5 sherds)

The modern pottery is limited to the upper spit of (003) within Test Pit 1 only, and seem to be intrusive, the large sherd size being at odds with the associated abraded medieval sherds.

Metalwork:

Copper alloy and Silver: (10 finds)

All these are from the general deposits (003 & 007). Two medieval coins (SF101, 102) are the most significant finds. There are also a few fragments of lace tags and wire pins, common in late medieval and early post-medieval contexts.

Lead: (1 find)

A disc (SF11), possibly a weight (28g) was found in the ditch.

Iron: (91 finds)

Waterlogging has led to some well-preserved iron. Most of the finds are nails. The only other recognisable form is a buckle (SF114). Several large unidentifiable lumps may reveal objects of interest after conservation.

Organic Finds:

Wood: (2 finds)

The coopered vessel, possibly the base of a large barrel, was being used as a sump and has been well preserved by waterlogging. A wooden bead was found in the fill.

Leather: (21 finds)

The leather was all from the ditch, preserved by waterlogging. There are various off cuts and pieces of

clothing, including a large piece with lace holes and a lace still in place.

Misc Small Finds:

(21 finds)

Highlights include a complete horn comb in perfect condition, beads made of bone and glass, part of a bone handle inlaid with decorative copper alloy rivets, and a gaming piece made from a medieval pot sherd.

Glass & Clay Pipe:

Clay Pipe: (1 stem)

Glass: (73 sherds)

These are mostly from upper levels. They include an early bottle rim (001) and some small fragments from the barrel fill.

Building Materials:

Ceramic Building Materials: (16 sherds)

These are mostly fragmentary and late. A large piece of brick or tile from the culvert (014) may be of interest. Three fragments of burnt daub are probably related to metalworking.

Mortar: 2.8kg

There were many small fragments of mortar, scattered over the whole site, including in the ditch and the barrel.

Metalworking Debris:

There was a total of 1.4kg of iron working debris, scattered over the whole site, including the ditch and the barrel. Most is in the form of small fragments of slag and probably represents no more than blacksmithing.

DISCUSSION

The assemblage is mostly of medieval date, covering the period 12th to 16th century, with a small quantity of later material mixed with the buried soil (003). The finds are generally mixed, with a small sherd size, indicative of garden or plough soils. The exception is the ditch (fills 072-096), which contains some very large sherds, sometimes more than one from the same vessel, indicating a far lesser degree of disturbance. Waterlogging has also led to some very well preserved metalwork and other finds. Preliminary spot dating suggests the infill of the ditch occurred in the 15th or early 16th century, though clearly some finds are earlier and some of the lower deposits may be of an earlier date.

The only other feature of note is the wooden coopered vessel (132). The vessel itself is an interesting find, and well preserved, though there is little associated finds dating evidence.

6. FAUNAL ASSESSMENT *Auli Tourunen*

The faunal assemblage from Cowgate, Edinburgh has proved to be generally well preserved. The material consists principally of domestic animals (cattle, horse, sheep or goat, pig). Some bones of birds, fish, amphibians and rabbit or hare were also present. The bones derive from 38 different contexts. The majority of the material is derived from context 3, and was recovered from several different testing pits. In addition, contexts 7, 73, 74, 80, 81, 82 and 89 included large bone samples.

During the assessment, material was superficially examined in order to gain a picture of the species presentation, anatomical distribution and preservation of the bones (Appendix 2: Table 2). This information is to be considered highly preliminary. Different types of bone material were evident in the material. It seems that part of the assemblage represents specialised waste from crafts or industrial activities (cattle horn cores and horse bones) (e.g. c. 81) and part normal household waste (e.g. c. 79). It is likely that some contexts include a mixture of both (e.g. c. 80). However, a closer examination is required to reveal the nature of the deposits in detail.

Sieving of the material has enabled the recovery of small bone fragments. This will also make closer examination of the abundance of different species possible, as well as enabling analysis of the importance of fish and birds in diet. In addition, bones of amphibians and rodents can produce information about environmental conditions.

The most promising material comes from the fills of the ditches. Animal bones deriving from the medieval and post-medieval contexts are of interest. The upper layers, even though they include plenty of material, are of less value due to the complexity of the depositional history.

7. ENVIRONMENTAL ASSESSMENT *Scott Timpany*

The results are presented in Appendix 3: ,Tables 1 (retent samples) and 2 (flotation samples).

PLANT REMAINS

Charcoal fragments are present in 25 samples of which seven samples contained fragments of a size suitable for identification and/or Accelerated Mass Spectrometry (AMS) dating (see Tables 4 and 5). Charred cereal grain is present in only two samples (047, 070) with only one sample (070) containing identifiable grain of barley (*Hordeum vulgare*). There is a rich plant macrofossil assemblage from the ditch fills (samples 072 to 093) together with those from the lower levels of buried soil [007] and the clay deposit [070] (samples 047 to 050) (see Table 5). Many of these taxa are associated with agricultural and/or waste ground, such taxa include: hemlock (*Conium maculatum*), common nettle (*Urtica dioica*), celery-leaved buttercup (*Ranunculus sceleratus*), prickly sow-thistle (*Sonchus asper*) and knotgrass (*Polygonum aviculare*). There is some evidence of domestic foodstuffs such as figs (*Ficus carica*), plum (*Prunus domestica*) and walnut (*Juglans regia*) within samples 041, 063, 065, 066, 073 and 100 (see Tables 4 and 5).

OTHER FINDS *Davie Masson*

All samples with the exception of sample 110 were found to contain unburnt bone fragments. Bone fragments within the samples have been identified to the level of mammal, bird and

fish, while burnt bone fragments have been recorded as indeterminate (see Table 2). Marine shell was found in all but four samples (05, 07, 029 and 041), with oyster (*Ostrea edulis*), mussel (*Mytilus edulis*), winkle (*Littorina* sp.), limpet (*Patella* sp.) and whelk (*Buccinum* sp.) all identified. Land snails were also recovered but have not been identified. Finds such as pottery sherds, glass, mortar, metallic waste and Fe/metallic objects were also recovered during processing (see Table 1). Lithics have been found in two samples (061, 063) while other artefacts recovered include a wooden bead and a metal buckle.

DISCUSSION

The modern and buried soils

The modern soils consist of a demolition layer [001] beneath the concrete tank, which sealed the 19th century walls [002]. Small charcoal fragments were the only plant remains recovered from the demolition layer, none of which are large enough to identify and/or provide an AMS date. Below the walls lay a buried soil layer [003], which is rich in marine shell (predominantly oyster shell), unburnt bone, coal and other midden-type material (see Tables 4 and 5). However, it contains little archaeobotanical material; the only plant remains recovered were from sample 007 (see Table 5), which suggest a wet, waste ground existed. Underlying this deposit in Trench 1 is a till layer [004], which was found to contain a celery-leaved buttercup seed, together with some small cinder and burnt bone fragments (sample 010), which may represent reworked material from the layer above.

The interface / old B-horizon [007] between the buried soil layer [003] and underlying clay [070]/till [004] within Trench 2 was sampled (045, 046) with sample 046 in particular found to contain a good assemblage of plant macrofossils. The species recovered within these samples are indicative of waste ground communities including hemlock, thistle (*Cirsium* sp.) and common nettles. There is again evidence of midden material within these samples with oyster shell, pottery fragments and burnt and unburnt bone all present (see Table 1).

Within Trench 2 further buried soils were identified, including a clay layer [070] and below this a peaty deposit [142]. Midden material is evident in these deposits in the form of pottery fragments, bone and shell (see Table 1). These layers also contain a rich plant macrofossil assemblage with species represented indicating pooling of water on the surface from the presence of soft rush (*Juncus effusus*) and celery-leaved buttercup, together with waste ground indicators common nettle and hemlock. There is some small representation of domestic or commercial activity from the presence of charred indeterminate cereal grain and charred sun spurge (*Euphorbia helioscopia*) fruits, a common weed of agricultural land.

The culvert fill

The fill of a stone culvert [015] (sample 041) was found to contain a small number of plant remains (see Table 2). The fill of the culvert contained evidence of foodstuffs with fig seeds present and some indication of wet ground with celery-leaved buttercup seeds also recovered. Beetle remains were also found within this sample. Midden material is again present within the sample (see Table 1).

The ditch fills

The most abundant plant macrofossil assemblages were recovered from samples within the ditch fills (see Table 2). The assemblages indicate a wet environment locally, probably within the ditch with both soft rush and celery-leaved buttercup present. In addition to this there is a suite of taxa present indicative of waste ground, such as hemlock, common nettles, nettle (*Urtica urens*) and prickly sow-thistle (Stace, 1997). Agricultural land indicator species such

as goosefoot (*Chenopodium* sp.), and common chickweed (*Stellaria media*) are also present within the ditch fill, suggesting these may represent remnant weeds still present from the site once being agricultural land or that there is agricultural land nearby. The ditch fills also contained evidence of domestic foodstuffs from the presence of fig seeds, plum stones and walnut shell, the latter a rare find in urban medieval sites, probably discarded into the ditch following consumption. Together with the plant macrofossils the ditch fills were also observed to contain significant numbers of land snails and beetle remains, which could provide further palaeoenvironmental information. Midden-type material such as marine shell and unburnt bone were also recovered (see Table 1).

The barrel fills

The remains of a wooden barrel [132] were unearthed during excavation and the fills from inside of it [124, 135, 139, 141] together with the fill from the pit [134] into which it had been placed [133] were sampled for palaeoenvironmental evidence. These contexts were found to contain sparse numbers of plant macrofossils, which again are suggestive of a wet waste ground environment. Such species include wild radish (*Raphanus* sp.), knotgrass and pale persicaria (*Persicaria lapithifolia*). Beetle remains were also observed within some of these contexts, which again could provide further palaeoenvironmental information. The fills were also found to contain midden material such as unburnt bone and marine shell, which are ubiquitous within the samples recovered together with finds including pottery fragments and a wooden bead.

8. DISCUSSION

The earliest deposits on the site were naturally forming silts and peat recorded across the southern end of the site. Plant remains from those deposits indicated that the area was fairly wet and they may represent the location of a natural watercourse at the base of the slope from High Street. These deposits formed at least partly during the medieval period, as fragments of midden material were found within the deposit [070]. The exact nature of this putative watercourse may be clarified by further analysis.

Overlying deposit [070] were a series of thin occupation deposits [125, 126, 140], possibly representing early use of the site on the north side of the channel/wet area. Activity within the area then appears to increase, possibly representing increased development of Edinburgh in the 12th-13th centuries, leading to the development of the deep medieval buried soils on the site. Formed from a combination of on-site activity and material washed down from High Street.

The pit for the barrel was cut through the earliest of these deposits and appears to have been used as a sump. At this time the site would have formed the backlands to one of the properties fronting on to the High Street. Although there were few finds associated with the barrel to date it, similar wooden coopered barrels are typically dated to the 12th-15th centuries (Allen 1995). The use of this feature appears to have been relatively short-lived as another buried soil deposit sealed it, through which the ditch was initially cut.

The ditch may represent the town ditch, delineating the edge of the medieval burgh. It terminates just short of South Gray's Close suggesting the road layout was already in place when the ditch was excavated, probably around the 14th or 15th century. The presence of apparent bank material on the north side of the ditch suggests it was backfilled fairly rapidly before being re-cut along the same line. The shallow ditch to the west suggests at this stage it

was being used for drainage. The re-cut ditch was also rapidly backfilled with stone rubble – the finds suggesting this took place over a short period in the 15th-16th centuries. Further analysis may clarify the exact date and origin of the ditch.

Excavations at 144-166 Cowgate also identified a ditch along the northern side of the Cowgate, which had a wall built up against its southern side (Dalland 2004). A second wall, further east was identified as the King's Wall, built in the 15th century. The ditches are likely to be contemporary, with the rubble in the St Patrick's Church ditch perhaps representing the demolition of a similar wall. The frontage of the Cowgate began to be developed from the 16th century onwards and these boundaries would have become obsolete at this time.

Once the ditch had gone out of use the accumulation of soils continued across the site. It is possible that early buildings were erected during this period but the later buildings seen during the Stage 2 works would have removed all evidence for them.

The subsequent history of the site can be traced through old maps. Although the timber stakes were not identified immediately after the removal of the walls, they appear to be piles driven into the soft midden deposits in order to support buildings. The plans of the groups of stakes all correspond to walls depicted on the first edition Ordnance Survey (1849). Similar piles were identified at 144-166 Cowgate to the west of the site (Dalland 2004). The culvert would also appear to be related to post-medieval buildings, probably draining from a building on the Cowgate frontage.

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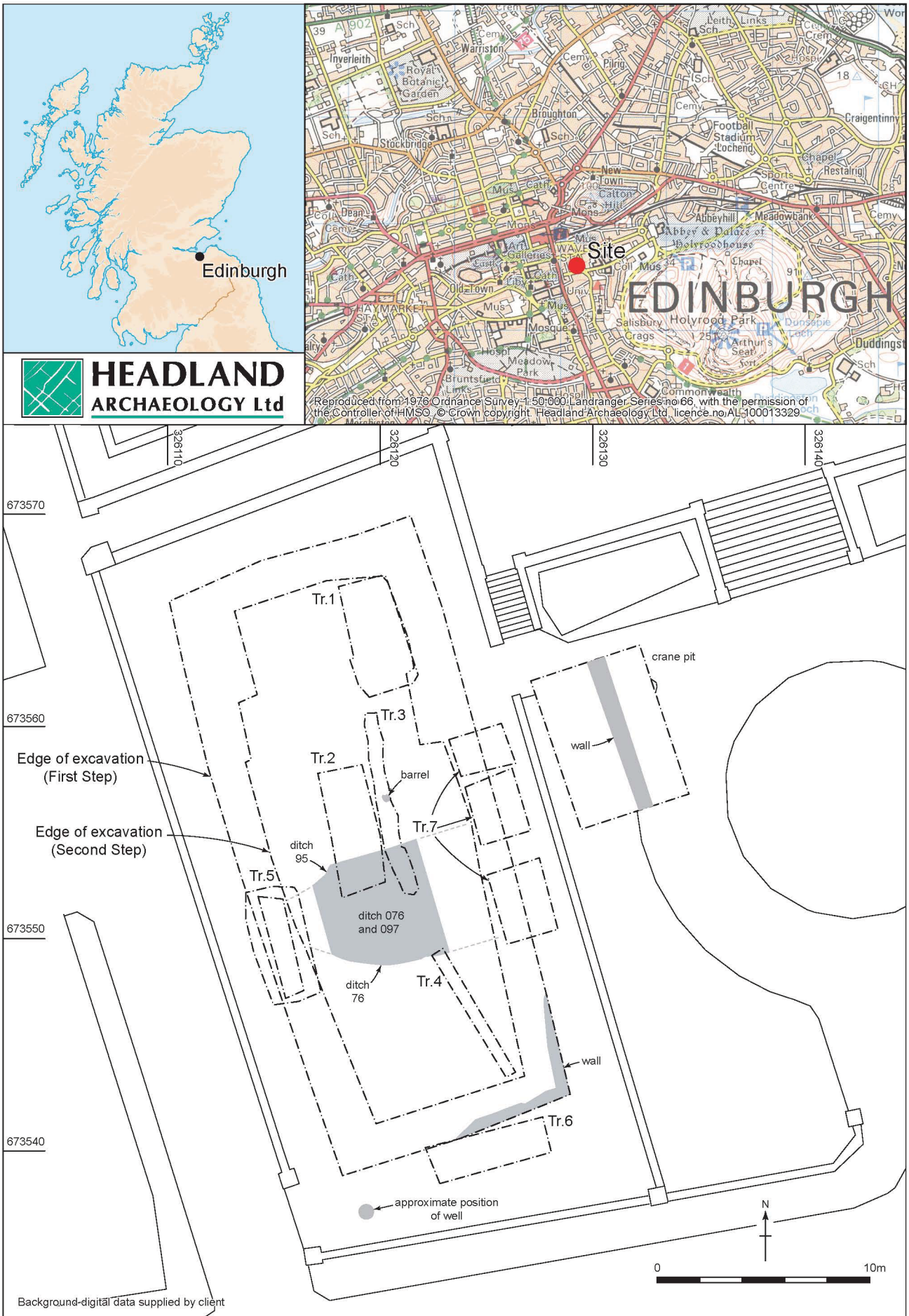


Figure 1: St Patrick's Church, Cowgate, Bowling Green. Site Location Plan

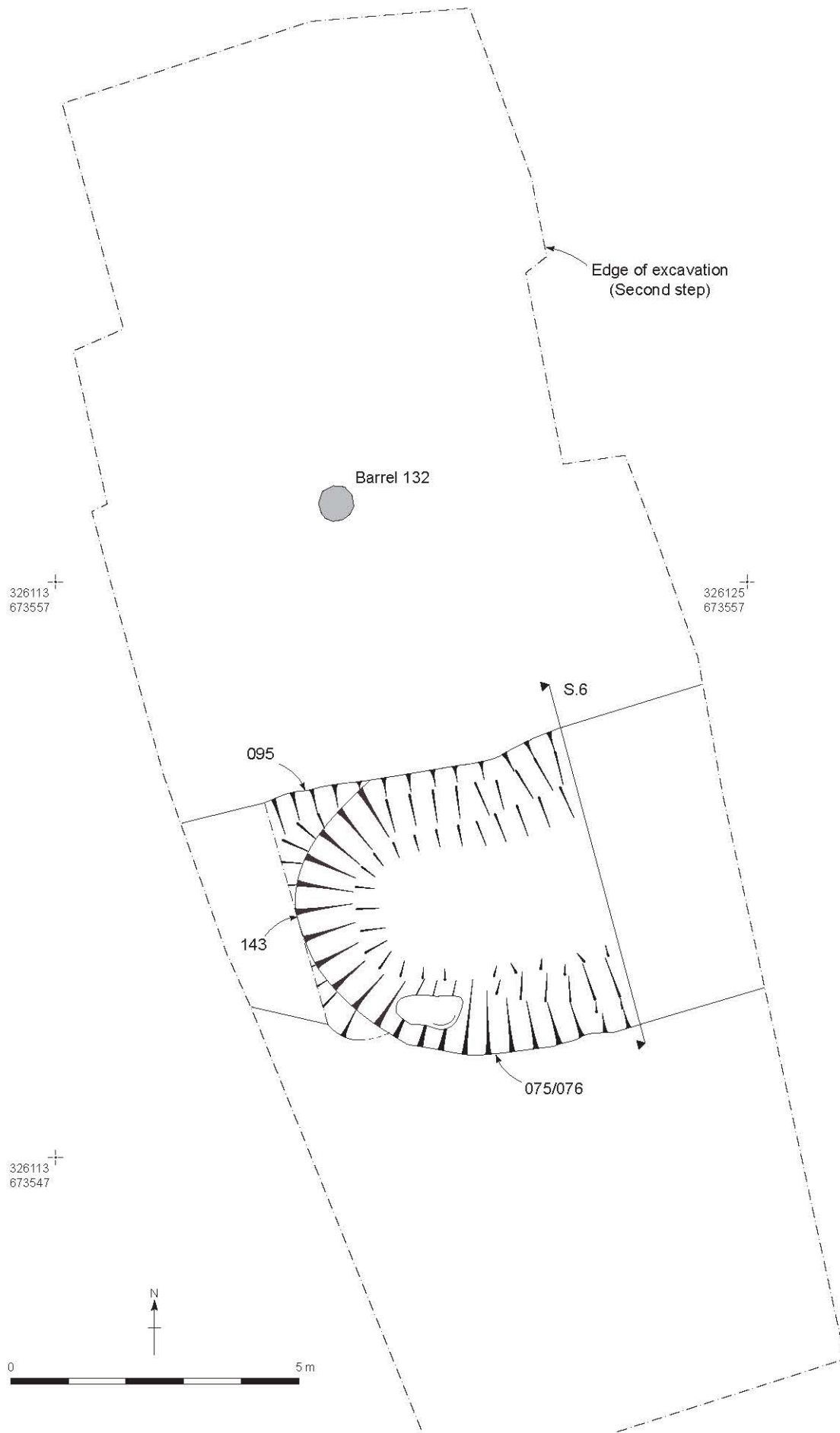


Figure 2: St Patrick's Church, Cowgate, Bowling Green. Phase 1 Medieval deposits

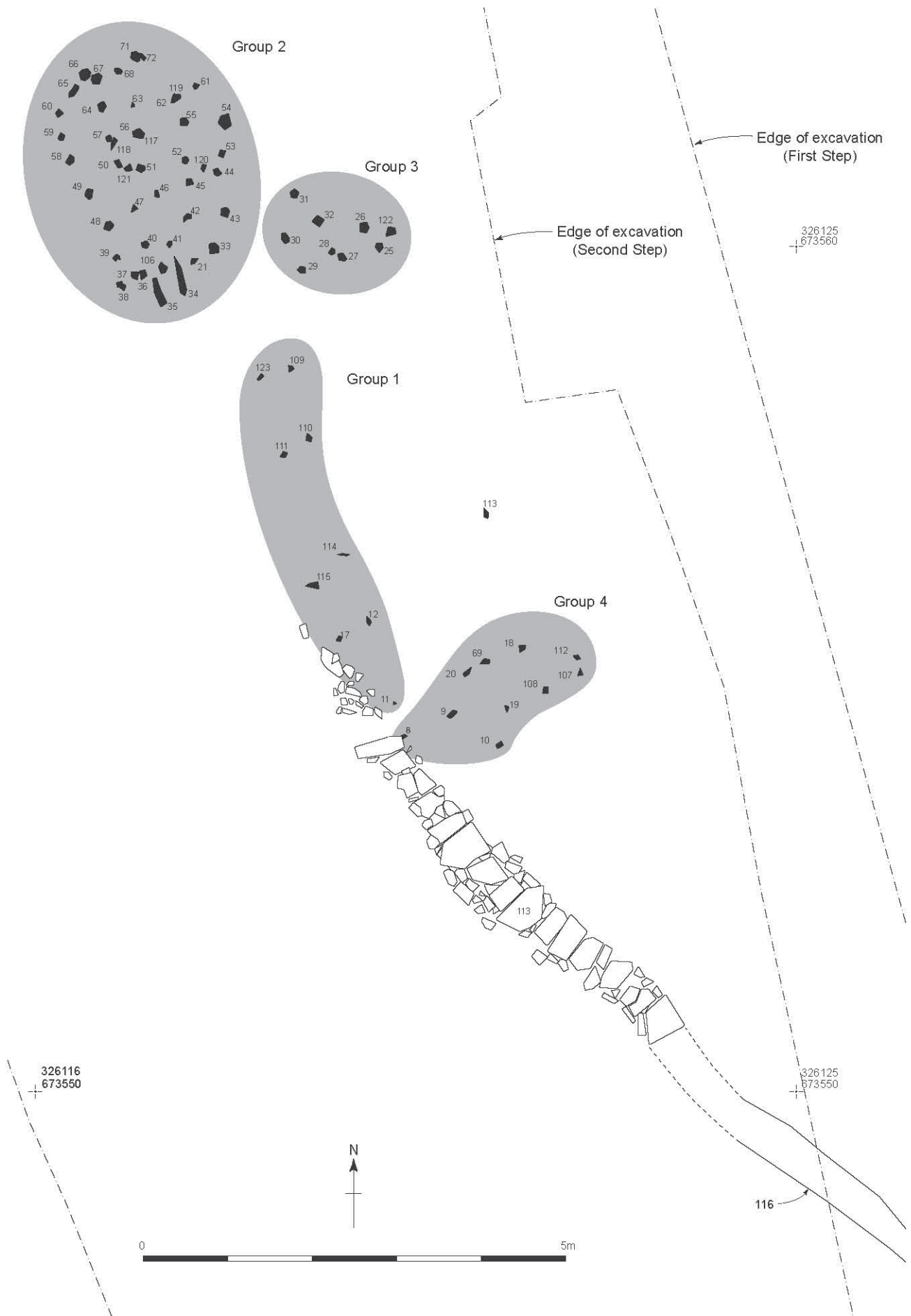


Figure 3: St Patrick's Church, Cowgate, Bowling Green. Phase 2: Post-Medieval deposits.

NW
58.53m OD

SE



Figure 4: St Patrick's Church, Cowgate, Bowling Green - Section 6, through ditches 076 and 097

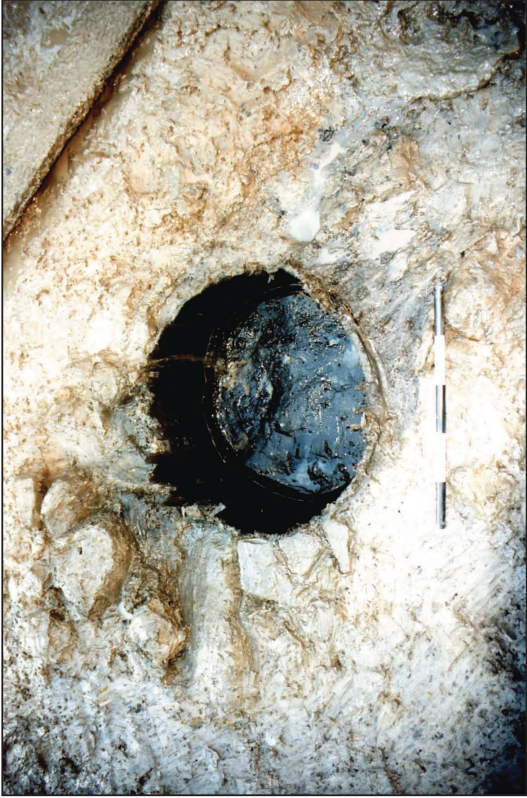


Plate 1: Barrel 132 in pit 134 looking SW



Plate 2: Barrel showing hoops after removal of staves looking NE



Plate 3: Post-ex view of ditch 76 showing terminal 143 in foreground looking E



Plate 4: East facing section through ditch 95 at west end of 143



Plate 5: Culvert 013/014 looking SW



Plate 6: Plan of culvert with capstones removed looking SW



Plate 7: View of Group 2 stakes looking S



Plate 8: Stake 12 looking W

APPENDIX 1: Site Registers

1.1 Context Register

Context No.	Description	Dimensions (m)	Min depth (m OD)
1	Black, coal rich, silty grit. Demolition/levelling beneath concrete tanks.	D: 0.18	59.17
2	Rubble, mortar fragments, and structural blocks. Sandstone with bonding of lime mortar. C19 th sandstone walls.	D: 0.21	59.16
3	Buried soil at NE end, grey/brown silt (split in to spits) - Spit 1 - 0-0.36m – brown silt with frequent shell fragments. - Spit 2 - 0.36-0.6m – brown silt with common shell fragments. - Spit 3 - 0.6-0.8m – brown silt with rare shell fragments. Buried soil developing from water-mediated colluvium.	D: c. 0.80	/1: 59.01 /2: 58.69 /3: 58.49
4	Orange/brown clay slit with frequent rounded to angular stones. Soft upper compaction becoming firmer with depth. Till horizon.	D: 0.50	57.97
5	Grey-brown sandy-silt layer with orange-yellow lenses of sand randomly distributed. Dumping/levelling deposit.	D: 0.06	59.07
6	Sandstone flags along side of N-S running wall. Bonded with mortar. Cobbled stones to west of flags without bonding material. Possible yard surface or interior floor footings.	L (N-S): 2.60 W (E-W): 1.90	59.14
7	Grey/brown clayey silt with frequent sub-angular to angular stones (0.05-0.08m). Interface of colluvium and clay/Possible old B horizon?	D: 0.40	58.39
8	Timber stake, sub-rounded to square, upright, fairly good condition, burnt. Group 1	L: 0.08 x W: 0.08 x H: 0.89	58.61
9	Timber stake, slightly rounded, burnt. Group 1	L: 0.06 x W: 0.06 x H: 0.56	58.67
10	Timber stake, rectangular, slight angle to NE, poor condition, burnt. Group 1	L: 0.10 x W: 0.08 x H: 0.49	58.67
11	Timber stake, square, burnt. Group 1	L: 0.05 x W: 0.04	58.55
12	Timber stake, square. Group 1.	L: 0.07 x W: 0.07 x H: 0.94	58.62
13	Flat stones L: 0.20m x W: 0.30m to L: 0.40m x W: 0.60m with smaller stones placed in gaps. Some remaining bonding material present probably from earlier use. Yellow sandstone (two stones red sandstone). Orientated SE-NW bending to NNE halfway. Capping stones of stone culvert.	L: 5.5 x W: 0.86 x D: 0.28	58.67
14	Three courses of stones. Lower course sub-angular stones L: 0.25m x W: 0.28m. Middle and upper course smaller sub-angular stones. No bonding material. Side stones of culvert.	L: 5.5 x W: 0.86 x D: 0.28	58.57
15	Dark brown silty clay with small sub-angular stones, occasional shells, frequent bone fragments, occasional pottery fragments. Soft compaction. Fill of culvert [013].	W: 0.22 x D: 0.26	58.57
16	Linear cut running SE-NW across E edge of site. Near vertical sides, flat bottom. Lined by stones [014]. Cut of culvert [013].	W: 0.50 x D: 0.20	58.57
17	Timber stake, c. 20° from vertical towards S, unburnt. Group 1.	L: 0.09 x W: 0.06 x H: 0.74	58.58
18	Timber stake, square, upright. Group 4.	L: 0.07 x W: 0.07	58.39

19	Timber stake, upright. Group 4.	L: 0.07 x W: 0.09 x H: 0.50	58.44
20	Timber stake, square, upright. Group 4.	L: 0.08 x W: 0.08	58.45
21	Timber stake, square, c. 15° to SE. Group 2.	L: 0.11 x W: 0.11 x H: 0.71	58.47
22	Timber stake, possibly burnt. Group 2.	L: 0.07 x W: 0.03 x H: 0.26	58.33
23	Light orange/brown silt with occasional sub-angular stones, frequent charcoal, occasional coal. Moderate compaction. Upper fill of ditch [076].	L: 2.0 x W: 0.18	58.40
24	Light orange/brown silt, NW of site with occasional small to medium sub-angular stones, frequent charcoal, occasional coal. Moderate compaction. Re-deposited natural within midden.	D: 0.15	58.31
25	Timber stake, square, fairly good condition. Group 3.	L: 0.13 x W: 0.10	58.36
26	Timber stake, sub-rectangular to sub-rounded, fairly good condition. Group 3.	L: 0.14 x W: 0.14	58.35
27	Timber stake, sub-rectangular to sub-rounded. Group 3.	L: 0.15 x W: 0.12	58.36
28	Timber stake, sub-rounded. Group 3	L: 0.09 x W: 0.09	58.37
29	Timber stake, fairly fragile condition. Group 3.	L: 0.13 x W: 0.13	58.32
30	Timber stake, sub-rectangular to sub-rounded, poor condition. Group 3.	L: 0.13 x W: 0.10	58.34
31	Timber stake, poor condition. Group 3.	L: 0.14 x W: 0.14 x H: 0.22	58.34
32	Timber stake, sub-rectangular, fairly good condition. Group 3.	L: 0.14 x W: 0.13	58.34
33	Timber stake, slightly rounded, fairly good condition. Group 2.	L: 0.14 x W: 0.09 x H: 0.60	58.32
34	Timber stake, slightly rounded, horizontal. Group 2.	L: 0.10 x W: 0.08 x H: 0.48	58.33
35	Timber stake, slightly rounded, horizontal. Group 2.	L: 0.10 x W: 0.10 x H: 0.38	58.27
36	Timber stake, poor condition. Group 2.	L: 0.14 x W: 0.13 x H: 0.37	58.24
37	Timber stake, sub-rectangular. Group 2.	L: 0.08 x W: 0.07	58.29
38	Timber stake, sub-rectangular. Group 2.	L: 0.11 x W: 0.10	58.28
39	Timber stake, sub-rounded. Group 2.	L: 0.14 x W: 0.13	58.26
40	Timber stake, sub-rectangular. Group 2.	L: 0.12 x W: 0.10	58.28
41	Timber stake, sub-rectangular. Group 2.	L: 0.14 x W: 0.09	58.37
42	Timber stake, sub-rectangular, upright, fairly good condition, split. Group 2.	L: 0.15 x W: 0.12 x H: 0.74	58.31
43	Timber stake, sub-rectangular to sub-rounded, poor condition. Group 2.	L: 0.14 x W: 0.14	58.29
44	Timber stake, sub-rectangular. Group 2.	L: 0.14 x W: 0.14	58.30
45	Timber stake, slightly rounded, upright, fairly good	L: 0.14 x W:	58.30

	condition. Group 2.	0.13	
46	Timber stake, sub-rectangular. Group 2.	L: 0.12 x W: 0.09	58.28
47	Timber stake, sub-rectangular. Group 2.	L: 0.13 x W: 0.11	58.28
48	Timber stake, slightly rounded, slight angle to SE, good condition. Group 2.	L: 0.14 x W: 0.14	58.29
49	Timber stake, sub-rectangular, split in two. Group 2.	L: 0.13 x W: 0.07 x H: 0.36; L: 0.07 x W: 0.14 x H: 0.38	58.24
50	Timber stake, sub-rectangular, upright, good condition. Group 2.	L: 0.12 x W: 0.10	58.25
51	Timber stake, sub-rectangular, upright. Group 2.	L: 0.13 x W: 0.12	58.23
52	Timber stake, sub-rectangular, upright. Group 2.	L: 0.12 x W: 0.11	58.25
53	Timber stake, sub-rectangular, upright. Group 2.	L: 0.12 x W: 0.11 x H: 0.30	58.26
54	Timber stake, sub-rectangular, upright. Group 2.	L: 0.10 x W: 0.08 x H: 0.19	58.14
55	Timber stake, sub-rectangular, upright. Group 2.	L: 0.14 x W: 0.12	58.23
56	Timber stake, upright. Group 2. Same as 117.	L: 0.16 x W: 0.10	58.25
57	Timber stake, upright. Group 2.	L: 0.12 x W: 0.11	58.22
58	Timber stake, upright. Group 2.	L: 0.10 x W: 0.14 x H: 0.28	58.23
59	Timber stake, sub-rectangular, upright, split in two. Group 2.	L: 0.13 x W: 0.13 H: 0.12	58.21
60	Timber stake, sub-rectangular, upright, poor condition, split in five. Group 2.	L: 0.10 x W: 0.13 x H: 0.16	58.20
61	Timber stake, upright, poor condition. Group 2.	L: 0.10 x W; 0.04	58.13
62	Timber stake, sub-rectangular, upright, poor condition. Group 2. Same as 119.	L: 0.07 x W: 0.04	58.14
63	Timber stake, sub-rectangular. Group 2.	L: 0.10 x W: 0.08	58.04
64	Timber stake, upright. Group 2.	L: 0.18 x W: 0.12	58.21
65	Timber stake, sub-rectangular, slight angle to NE, fairly good condition. Group 2.	L: 0.10 x W: 0.08 x H: 0.26	58.15
66	Timber stake, sub-rectangular, upright, poor condition. Group 2.	L: 0.14 x W: 0.14 x H: 0.15	58.23
67	Timber stake, sub-rectangular, upright, fairly good condition. Group 2.	L: 0.14 x W: 0.13 x H: 0.26	58.22
68	Timber stake, sub-rectangular, upright. Group 2.	L: 0.11 x W: 0.10	58.15
69	Timber stake. Group 4.	L: 0.10 x W: 0.08 x H: 0.52	58.16
70	Mid grey silty clay with rare stone inclusions, firm compaction. Running E-W across site increasing in depth to S. Patchy and collecting in pockets at N end of site. Water-borne clay deposit, possibly old stream channel.		58.08
71	Timber stake, sub-rectangular, upright, good condition.	L: 0.12 x W:	58.20

	Group 2.	0.10	
72	Medium grey silt with frequent medium angular fragments of sandstone, frequent shell. Firm compaction. Fill of ditch [075].	W: 1.30; D: 0.30	58.16
73	Medium grey silt with occasional stones, occasional shell. Occasional orange streaks. Soft compaction. Fill of ditch [075] and terminal end [143].	W: 1.83; D: 0.38	58.01
74	Dark blackish brown gritty silt with occasional small to medium stones, occasional shell, occasional charcoal, occasional bone. Firm compaction. Fill of ditch [075] and terminal end [143].	W: 3.10; D: 0.34	58.06
75	Linear cut. Sharp break of slope with steep sides (c. 50-60°) more undulating to S, flat base. Orientated E-W. Re-cut on S. Town ditch.	W: 4.70; D: 1.30	58.31
76	Linear cut. Gradual break of slope with steep sides, flat base. Orientated E-W. Town ditch.	W: 6.0; D: 1.30	58.29
77	Mid to light brown silty clay with frequent medium to small angular to sub-rounded stones, occasional bone, occasional pottery. Firm compaction. Upper fill of ditch [076].	W: 1.75; D: 0.40	58.27
78	Orange silty clay with frequent large angular stones, occasional small to medium stones, occasional bone, occasional pottery, occasional shell. Firm compaction. Re-deposited natural, fill of ditch [076].	D: 0.30	58.28
79	Mid brown clayey silt with occasional small to medium stones, occasional shell. Upper fill of ditch [095].	W: 4.0; D: 0.40	58.66
80	Black/ dark brown silty clay with frequent angular to sub-rounded stones, frequent animal bone, frequent pottery, frequent shell, occasional wood. Moderate compaction. Fill of ditch [097].	W: 2.0; D: 0.20	58.20
81	Black silt with grey mottling. Loose compaction. Fill of ditch [075].	W: 1.0; D: 0.35	57.56
82	Dark brownish grey silt with occasional wood. Firm compaction. Fill of ditch [075].	W: 1.17; D: 0.30	57.72
83	Medium grey silt with occasional stones. Fill of ditch [075].	W: 0.90; D: 0.20	58.21
84	Medium orangey brown silt. Re-deposited natural, fill of [075].	W: 1.33; D: 0.15	58.19
85	Orangey grey silt. Moderate compaction. Fill of [075].	W: 1.56 x D: 0.08	58.06
86	Medium grey silt with occasional stone, occasional shell, occasional charcoal. Firm compaction. Fill of [075].	W: 1.45; D: 0.25	58.15
87	Dark grey silt with frequent large sandstone boulders. Possible backfill of ditch re-cut. Fill of ditch [075].	W: 1.6; D: 0.55	58.13
88	Linear cut. Sharp break of slope, moderately steep sides, gradual break into broad, slightly concave base. Possible re-cut of ditch [075].	W: 0.77; D: 0.21	58.21
89	Black/dark brown silty clay with occasional large angular to sub-rounded stones, frequent small to medium angular stones, occasional bone, occasional pottery, occasional shell, occasional wood. Moderate compaction. Fill of ditch [076].	W: 4.0; D: 0.20	58.29
90	Black silty clay. Rich organic remains (shell and wood). Moderate compaction. Fill of ditch [076].	W: 2.40; D: 0.35	57.47
91	Deposit of large angular stones (0.40 x 0.30 x 0.10) and medium sub-angular to rounded stones and cobbles. Deliberate backfill of terminal end of ditch [143].	L: 1.60; W: 2.80; D: 0.30	57.90
92	Light to mid-brownish grey clayey silt with occasional	L: 1.60; W:	57.81

	medium to large stones, occasional pottery, occasional shell, rare charcoal. Fill of ditch [143].	2.80; D: 0.23	
93	Dark grey to black silt mottled grey borwn with occasional charcoal, occasional wood/plant remains, rare shell. Waterlogged. Fill of ditch terminal end [143].	L: 0.70; W: 1.90; D: 0.20	57.41
94	Mid brown silty clay with occasional shell, occasional wood/plant remains. Moderate compaction. Fill of [143].	L: 1.10; WP: 2.0	57.64
95	Linear cut. Fairly gentle break of slope, c. 45° sides, undulating base. Orientated E-W. Cut of ditch.	W: 4.0; D: 0.55	58.36
96	Mid grey silt with occasional charcoal, occasional shell. Fill of terminal end ditch [143].	L: 1.10; W: 1.20; D: 0.15	57.62
97	Linear cut with steep sloping sides, flat base. Orientated E-W. re-cut of ditch [076].	W: 2.40; D: 0.90	58.25
98	Clayey silt. With frequent wood/organic material inclusions. Medium compaction. Fill of ditch [076].	W: 1.2; D: 0.15	57.68
99	Orange silty clay with frequent small sub-angular stones. Very firm compaction. Possible re-deposited natural, fill of ditch [076].	W: 1.05; D: 0.25	57.43
100	Mid grey silty clay with occasional small stones, occasional shell, occasional charcoal. Moderate compaction. Fill of ditch [097].	W: 1.65; D: 0.20	58.25
101	Dark greyish brown silty clay. Rich organic inclusions. Moderate compaction. Fill of [097].	W: 0.80; D: 0.07	58.14
102	Deposit of medium to large sub-angular stones. Possible drainage or deliberate backfill of ditch [143].		57.83
103	Grey brown silty clay with frequent small stone and gravel, occasional shell, occasional charcoal. Moderate compaction. Fill of ditch [076].	W: 1.50; D: 0.20	58.00
104	Greyish brown silty clay with occasional small stones and gravel, occasional charcoal. Fill of ditch [076].	W: 0.90; D: 0.40	58.23
105	Light brown silt. Possible buried soil.	D: 0.10	57.32
106	Timber stake. Group 2.	L: 0.10 x W: 0.07 x H: 0.74	58.11
107	Timber stake. Group 4.		58.21
108	Timber stake, upright, fairly good condition. Group 4.	L: 0.08 x W: 0.07 x H: 0.30	58.20
109	Timber stake, upright. Group 1.	W: 0.08 x H: 0.48	58.20
110	Timber stake. Group 1.		58.15
111	Timber stake, upright, poor condition. Group 1.	L: 0.07 x W: 0.06 x H: 0.40	58.15
112	Timber stake. Group 4.		58.23
113	Timber stake. Group 4.		58.13
114	Timber stake, slight angle to SW, rounded notch at base. Group 1.	H: 0.43	58.16
115	Timber stake, upright, very good condition. Group 1.	L: 0.09 x W: 0.07 x H: 0.58	58.17
116	Timber stake, slightly rounded on one side, upright, very good condition.	W: 0.08 x H: 0.52	
117	Timber stake, slightly square, upright, notched base. Group 2.	W: 0.10; H: 0.24	57.96
118	Timber stake, upright. Group 2.	W: 0.08 x H: 0.16	57.97
119	Timber stake, poor condition. Group 2.	L: 0.08 x W:	58.00

		0.04 x H: 0.12	
120	Timber stake, fairly rounded, upright, good condition. Group 2.	L: 0.08 x W: 0.08 x H: 0.42	57.97
121	Timber stake, upright, split. Group 2.	W: 0.08 x H: 0.23	57.92
122	Timber stake, square. Group 3.	W: 0.09 x H: 0.39	58.14
123	Timber stake, square. Group 1.	L: 0.08 x W: 0.07 x H: 0.28	57.98
124	Black silt. Very soft and organic with frequent wood. Fill in wooden barrel [132].	L: 0.64; W: 0.62; D: 0.10	57.90
125	Green brown silty sand with occasional medium angular and rounded stones, frequent small stones, occasional pottery, occasional bone. Occupation deposit below (007).	L: 2.5; D: 0.15	57.95
126	Light brown silty clay with occasional large angular stones, occasional medium angular to rounded stones, frequent small stones. Moderate compaction. Natural deposit below (007) and (140).	L: 4.0; W: 5.0; D: 0.20	57.92
127	Linear cut. Moderately steep sides, fairly flat base. Orientated NW-SE running to cut of barrel [134]. NE-SW offshoot. Cut of ditch.	D: 0.14	57.76
128	Medium orangey grey silt. Occasional sandstone fragments. Fill of re-cut [088].	W: 0.77; D: 0.21	58.21
129	Medium orangey grey silt with occasional stones, occasional shell, occasional charcoal. Soft compaction. Fill of ditch [075].	W: 3.5; D: 0.27	58.31
130	Sub-circular cut. Sharp break of slope, flat sides, base dipping from E to W. Orientated NE to SW. Possible posthole with possible animal burrowing.	L: 0.50; W: 0.40; D: 0.18	57.96
131	Mid blackish brown sandy clay with frequent small angular particles, occasional charcoal, rare shell. Fill of posthole [130].	L: 0.50; W: 0.40; D: 0.18	57.96
132	Wooden barrel/cask of 20 staves of lengths between 0.20m and 0.30m and 10mm to 15mm thick. 2 groups of hoop fastenings on exterior. Groove on interior. Wooden barrel.	L: 0.66; W: 0.64; D 0.30	57.92
133	Dark brownish grey sandy silt with frequent rounded to angular stones mostly to S, occasional shell, frequent charcoal. Moderate compaction. Stone packing and backfill between barrel [132] and cut [134].	L: 1.66; W: 1.06; D: 0.36	57.87
134	Sub-circular cut. Sharp break of slope, vertical/slightly undercutting sides, gradual break to flattish shelf then sharp break to very steep sides with gradual break to flat base. Barrel [132] on shelf. Cut for of pit for barrel [132].	L: 1.30; W: 1.05; D: 0.45	57.87
135	Dark brown silt with occasional stones. Very organic. Sandier at edges. Fill of barrel [132].	L: 0.62; W: 0. 64; D: 0.25	57.93
136	Wood fragment within (135). Possible remains of barrel stave.		57.83
137	Wood fragment within (135). Possible remains of barrel stave.		57.84
138	Dark brownish-grey silt with frequent small to medium sub-angular stones, occasional charcoal, occasional shards, occasional bone. Moderate compaction. Fill of ditch [127].		57.76
139	Medium to dark grey brown silt. Very organic. Lower fill within barrel [132].	L: 0.60; W: 0.60; D: 0.07	57.70
140	Dark brown to black sandy silt with occasional medium stones, frequent small stones, occasional pottery, occasional bone. Occupation deposit below (125).	L: 2.25; W: 1.5; D: 0.25	57.96
141	Black silt. One large stone (0.20m x 0.20m x 0.08m) within	L: 0.55; W:	57.62

	deposit. Very organic. Fill of barrel cut [134].	0.55; D: 0.05	
142	Black peat deposit with occasional wood fragments. Peat deposit. Below (070).	D: 0.20	57.34
143	Linear cut. Very sharp break of slope, step sloping sides (c. 45° to 50°) breaking to near vertical, flat base. Terminal end of ditch [075].	L: 0.70; W: 1.90; D: 1.20	58.06
144	Reddish grey silty clay with frequent charcoal; occasional shell. Fill of ditch terminal [143].	W: 1.75; D: 0.25	58.21
145	Dark brown/blackish silt with occasional small to medium stones, occasional charcoal. Fill of ditch [095].	W: 2.80; D: 0.20	58.36
146	Dark grey brown friable sandy silt with moderate charcoal fragments and occasional shell. Fill of ditch [147].	W: 2.3, D: 0.35	58.19
147	Linear cut runs E-W with clear breaks of slope, steeply sloping sides and flattish undulating base. Ditch, same as [95].	W: 2.3, D: 0.35	58.19
148	Mixed dark grey gritty silt and mid brown clayey silt with moderate shell and occasional stones. Buried soil, same as [003], Crane Pit.	D: >0.2	60.17
149	Large sub-angular sandstone blocks bonded with patches of lime mortar with brick and cinder fragments, runs N-S. Post-medieval wall, Trench 6.	L: >1.4, D: 0.8	58.72
150	Large sub-angular sandstone and limestone blocks bonded with cement mortar, runs E-W. 19thC wall, Trench 6.	W: 0.5, D: 1.0	59.01

1.2 Drawing register

Drawing No.	Scale	Description
001	1:10	West facing section of timber stake [012]
002	1:10	South-east facing section of culvert [013]
003	1:20	Mid-ex plan of culvert [013]
004	1:10	East facing section of trench 2
005	1:10	West facing section of ditch [075]
006	1:10	West facing section of ditch [076]
007	1:20	East facing section of ditch [095]
008	1:10	East facing section of soil profile in NW corner of site
009	1:10	North facing section of posthole [130]
010	1:10	Overlay of drawing 006 showing thin section and environmental sample locations
011	1:20	Mid-ex plan of packing [133] of barrel [132]
012	NTS	Sketch plan of ditches [075] and [076]
013	1:10	East facing section of Trench 5

1.3 Photographic register

Shot	Facing	CS	CP	Description
1	-	Yes	Yes	ID shot
2	S	Yes	Yes	Pre-ex shot of site
3	S	Yes	Yes	Pre-ex shot of site
4	W	Yes	Yes	View of walls, south of Trench 1
5	W	Yes	Yes	Close-up of wall bases, south of Trench 1
6	S	Yes	Yes	View of Trench 1 and surrounding wall bases
7	S	Yes	Yes	View of Trench 1 and surrounding wall bases
8	NW	Yes	Yes	General shot

9	E	Yes	Yes	West facing section of Trench 1
10	NE	Yes	Yes	Working shot Trench 1
11	E	Yes	Yes	West facing section of Trench 1, north section
12	E	Yes	Yes	West facing section of Trench 1, south section
13	W	Yes	Yes	Trench 2 working shot
14	NW	Yes	Yes	General shot of walls and surface [006]
15	W	Yes	Yes	General shot of walls and surface [006]
16	S	Yes	Yes	View of NW running wall
17	SE	Yes	Yes	View of surface [006]
18	E	Yes	Yes	View of surface [006] and EW running wall
19	W	Yes	Yes	East facing section of Trench 2, south section
20	W	Yes	Yes	East facing section of Trench 2, north section
21	SW	Yes	Yes	Trench 2 east facing section, depth to natural
22	W	Yes	Yes	Trench 2 east facing section
23	SW	Yes	Yes	Working shot
24	SE	Yes	Yes	Working shot
25	W	Yes	Yes	Working shot
26	W	Yes	Yes	Working shot
27	SW	Yes	Yes	Working shot
28	W	Yes	Yes	Walls at east side of site
29	W	Yes	Yes	Walls at east side of site
30	SW	Yes	Yes	General view of walls, east side of site
31	SW	Yes	Yes	Working shot of walls, east side of site
32	SW	Yes	Yes	Working shot of walls, east side of site
33	W	Yes	Yes	Working shot, Test Pit 2
34	W	Yes	Yes	Working shot, Test Pit 2
35	E	Yes	Yes	Working shot, Test Pit 2, metal detecting
36	E	Yes	Yes	Working shot, Test Pit 2, metal detecting
37	-	Yes	Yes	ID shot
38	S	Yes	Yes	EW running wall, along northern margins
39	S	Yes	Yes	Working shot
40	W	Yes	Yes	Working shot
41	S	Yes	Yes	Working shot
42	S	Yes	Yes	Context [003], Spit 2, after machining
43	S	Yes	Yes	Context [003], Spit 2, after cleaning
44	E	Yes	Yes	Context [003], Spit 2, after cleaning
45	E	Yes	Yes	Context [003], Spit 2, after cleaning
46	NE	Yes	Yes	Timber posts [008] and [009]
47	NE	Yes	Yes	Timber posts [008] and [009]
48	NE	Yes	Yes	Timber posts [008] and [009]
49	-	Yes	No	Working shot
50	N	Yes	No	St Patrick's Church
51	W	Yes	Yes	View of stakes [008] and [009]
52	W	Yes	Yes	Culvert [013] beneath [003]
53	NE	Yes	Yes	Culvert [013] beneath [003]
54	SE	Yes	Yes	View along culvert [013]
55	NW	Yes	Yes	View along culvert [013]
56	W	Yes	Yes	Working shot
57	NW	Yes	Yes	Working shot
58	W	No	Yes	Stake [012]
59	NW	Yes	Yes	SE facing section through culvert [013]
60	SW	Yes	Yes	View of culvert [013] with capstones removed
61	SE	Yes	Yes	Culvert [013], north end truncated by machine Trench 2
62	SW	Yes	Yes	Working shot of culvert [013]
63	SW	Yes	Yes	Cut [016] for culvert [013]

64	SE	Yes	Yes	Cut [016] for culvert [013]
65	NW	Yes	Yes	Stakes [018] [019] [020] and others
66	W	Yes	Yes	Context [023] on east side of site
67	W	Yes	Yes	Context [023] on east side of site
68	S	Yes	Yes	Context [023] on north side of site
69	S	Yes	Yes	Context [023] on north side of site
70	W	Yes	Yes	Working shot
71	W	Yes	Yes	Stakes in [007], Spit 1, at north end of site
72	N	Yes	Yes	Close-up of stakes
73	S	Yes	Yes	Close-up of stakes
74	S	Yes	Yes	Close-up of stakes
75	E	Yes	Yes	Close-up of stakes
76	W	Yes	Yes	Working shot, stakes
77	W	Yes	Yes	General shot, stakes
78	S	Yes	Yes	General shot, stakes
79	S	Yes	No	Working shot of site, showing stakes
80	-	No	Yes	ID shot
81	S	Yes	Yes	Working shot of site, showing stakes
82	W	Yes	Yes	Stakes at southern end of site
83	W	Yes	Yes	Stakes at southern end of site
84	NW	No	Yes	Working shot
85	W	Yes	Yes	Ditch [075]
86	E	Yes	Yes	Ditch [075]
87	SW	Yes	Yes	Working shot
88	S	Yes	Yes	Working shot
89	SE	Yes	Yes	Working shot
90	N	Yes	Yes	Working shot
91	-	No	Yes	Working shot
92	-	No	Yes	Working shot
93	-	No	Yes	Working shot
94	-	No	Yes	Working shot
95	E	No	Yes	Working shot
96	E	No	Yes	South end of machine dug slot, section through ditch [075]
97	E	No	Yes	North end of machine dug slot, section through ditch [075]
98	E	No	Yes	Working shot
99	SW	No	Yes	Working shot
100	SW	No	Yes	Working shot
101	S	No	Yes	Site 0830
102	S	No	Yes	Site 0900
103	S	No	Yes	Site 0930
104	S	No	Yes	Site 1000
105	S	No	Yes	Site 1045
106	S	No	Yes	Site 1100
107	-	No	Yes	Water down the drain
108	S	No	Yes	Site 1130
109	SE	No	Yes	Site 1200
110	SE	No	Yes	Site 1230
111	S	No	Yes	Site 1300
112	S	No	Yes	Site 1315
113	-	Yes	Yes	ID shot
114	E	Yes	Yes	Machine dug section through ditch [075]
115	E	Yes	Yes	Section through ditch [075]
116	S	Yes	Yes	Large stones on north facing side of ditch
117	SW	Yes	Yes	Working shot
118	S	Yes	Yes	Fill [074], extent in west section

119	SE	Yes	Yes	Working shot
120	SW	Yes	Yes	Working shot
121	W	Yes	Yes	Stones [091] in ditch [075]
122	NE	Yes	Yes	Stones [091] in ditch [075]
123	E	Yes	Yes	Working shot
124	E	Yes	Yes	West facing section through ditch [076]
125	E	Yes	Yes	View of ditch [075], full of water
126	S	Yes	Yes	View of ditch [075] and site covered in water
127	-	Yes	Yes	Working shot
128	-	Yes	Yes	Working shot
129	E	Yes	Yes	View of ditch [076], northern part
130	E	Yes	Yes	View of ditch [076], southern part
131	E	Yes	Yes	View of section through ditch [076]
132	SE	Yes	Yes	Working shot
133	SE	Yes	Yes	Working shot
134	S	Yes	Yes	Working shot
135	W	Yes	Yes	View of section through ditch [095]
136	S	Yes	Yes	Working shot
137	SW	Yes	Yes	Cleaned section through ditch [075]
138	W	Yes	Yes	Monday morning, 0900, site under water
139	S	Yes	Yes	East facing section through ditch [075]
140	W	Yes	Yes	Working shot
141	N	Yes	Yes	Tom surveying
142	S	Yes	Yes	Ditch [075] [076], filled with water
143	SE	Yes	Yes	Ditch [075] [076], general shot
144	S	Yes	Yes	Ditch [075] [076], general shot
145	SW	Yes	Yes	Ditch [075] [076], general shot
146	W	Yes	Yes	Ditch [075] [076], working shot
147	E	Yes	Yes	Ditch [075] [076], working shot
148	W	Yes	Yes	Ditch [075] [076], working shot
149	W	Yes	Yes	Ditch [075] [076], post-ex view
150	W	Yes	Yes	Ditch [075] [076], post-ex view, showing base
151	NW	Yes	Yes	Ditch [075] [076], post-ex view, plan view
152	E	Yes	Yes	Ditch [075] [076], post-ex view, west facing section
153	E	Yes	Yes	Ditch [075] [076], post-ex view, west facing section
154	SE	Yes	Yes	Ditch [075] [076], post-ex view, working shot
155	SW	Yes	Yes	Ditch [075] [076], post-ex view, working shot
156	W	Yes	Yes	East facing section of trench edge, N end of site
157	S	Yes	Yes	Deposits at north end after removal of [007]
158	-	Yes	Yes	Working shot
159	-	Yes	Yes	Working shot
160	S	Yes	Yes	Pre-ex shot of barrel pit [134]
161	E	Yes	Yes	Pre-ex shot of barrel pit [134]
162	E	Yes	Yes	Close-up shot of barrel pit [134]
163	SE	Yes	Yes	Pit fill [135], with wood
164	-	Yes	Yes	ID shot
165	SE	Yes	Yes	Pit fill [135]
166	SE	Yes	Yes	Post pit [131]
167	SE	Yes	Yes	Post pit [131]
168	SE	Yes	Yes	Silt deposit [139] in pit [134]
169	SE	Yes	Yes	Barrel [132] and deposit [139]
170	W	Yes	Yes	Working shot
171	E	Yes	Yes	Working shot
172	E	Yes	Yes	Barrel pit [134] [132]
173	E	Yes	Yes	Barrel pit [134] [132]

174	W	Yes	Yes	Barrel pit [134] [132]
175	W	Yes	Yes	Barrel pit [134] [132]
176	W	Yes	Yes	Barrel pit [134] [132]
177	SW	Yes	Yes	Barrel pit [134] [132]
178	SW	Yes	Yes	Barrel pit [134] [132]
179	NE	Yes	Yes	Barrel pit [134] [132]
180	E	Yes	Yes	Barrel pit [134] [132]
181	E	Yes	Yes	Barrel pit [134] [132]
182	E	Yes	Yes	Barrel pit [134] [132]
183	N	Yes	Yes	Barrel pit [134] [132]
184	N	Yes	Yes	Barrel pit [134] [132]
185	N	Yes	Yes	Barrel pit [134] [132]
186	W	Yes	Yes	Barrel pit [134] [132]
187	W	Yes	Yes	Barrel pit [134] [132]
188	W	Yes	Yes	Barrel pit [134] [132]
189	S	Yes	Yes	Barrel pit [134] [132]
190	S	Yes	Yes	Barrel pit [134] [132]
191	S	Yes	Yes	Barrel pit [134] [132]
192	W	Yes	Yes	Barrel pit [134] [132]
193	W	Yes	Yes	Barrel pit [134] [132]
194	W	Yes	Yes	Barrel pit [134] [132]
195	W	Yes	Yes	Impression of hoop around barrel
196	S	Yes	Yes	North facing section through ditch [127]
197	NE	Yes	Yes	Barrel hoops lodged in [133]
198	NE	Yes	Yes	Barrel hoops lodged in [133]
199	W	Yes	Yes	Barrel hoops lodged in [133]
200	W	Yes	Yes	Barrel hoops lodged in [133]
201	-	Yes	Yes	ID shot
202	W	Yes	Yes	Post-ex shot of barrel pit showing cut [134]
203	N	Yes	Yes	Barrel hoop lodged in [133]
204	E	Yes	Yes	Deposit [133] between barrel and [134]
205	W	Yes	Yes	Working shot
206	W	Yes	Yes	Working shot
207	-	Yes	Yes	Working shot
208	W	Yes	Yes	Working shot, stone at base of pit [134]
209	SW	Yes	Yes	Deposit [003], Spit 1, at south end of site
210	E	Yes	Yes	Excavation of foundation trench
211	W	Yes	Yes	Excavation of foundation trench
212	W	Yes	Yes	Excavation of foundation trench
213	W	Yes	Yes	Excavation of foundation trench
214	E	Yes	Yes	Excavation of foundation trench
215	S	Yes	Yes	Monday morning, site under water
216	SW	Yes	Yes	South end of site deposit [003], Spit 2
217	S	Yes	Yes	General view, Trench 3
218	W	Yes	Yes	Trench 3, east facing section, south to north
219	W	Yes	Yes	Trench 3, east facing section, south to north
220	W	Yes	Yes	Trench 3, east facing section, south to north
221	W	Yes	Yes	Trench 3, east facing section, south to north
222	SE	Yes	Yes	Culvert [013], continuing into east trench edge
223	SW	Yes	Yes	Culvert [013], continuing into east trench edge
224	S	Yes	Yes	General view of site
225	NE	Yes	Yes	General view of site
226	SW	Yes	Yes	Working shot of ditch
227	W	Yes	Yes	East facing section (SE corner of trench), showing peaty deposit
228	-	Yes	Yes	View of peaty deposit in Trench 4 (SE corner)

229	-	Yes	Yes	ID shot
230	SW	Yes	Yes	General view of site
231	SW	Yes	Yes	General view of site
232	N	Yes	Yes	Working shot Trench 5
233	N	Yes	Yes	Working shot Trench 5
234	W	Yes	Yes	Working shot Trench 5
235	E	Yes	Yes	W facing section Trench 5
236	E	Yes	Yes	W facing section Trench 5
237	W	Yes	Yes	E facing section Trench 5
238	W	Yes	Yes	E facing section Trench 5
239	W	Yes	Yes	E facing section Trench 5
240	E	Yes	Yes	W facing section Trench 5
241	E	Yes	Yes	W facing section trench 5
242	NE	Yes	Yes	General shots of site from Trench 5
243	NE	Yes	Yes	General shot of site from Trench 5
244	W	Yes	Yes	E facing section Trench 5 showing ditch
245	N	Yes	Yes	Working shot, removal of wall of E side of site
246	N	Yes	Yes	Working shot, removal of wall on E side of site
247	W	Yes	Yes	Working shot, removal of wall on S side of site
248	W	Yes	Yes	Working shot, removal of wall on S side of site
249	W	Yes	Yes	E facing section Trench 6
250	N	Yes	Yes	S facing section Trench 6
251	N	Yes	Yes	S facing section Trench 6
252	W	Yes	Yes	General shot Trench 6
253	N	Yes	Yes	Wall in SW corner
254	W	Yes	Yes	General shot trench 6
255	W	Yes	Yes	General shot Trench 6
256	NW	Yes	Yes	Working shot, removal of wall in SW corner of site
257	NW	Yes	Yes	Working shot, removal of wall in SW corner of site
258	N	Yes	Yes	S facing section crane pit
259	NE	Yes	Yes	General shot crane pit
260	N	Yes	Yes	General shot crane pit
261	N	Yes	Yes	Stones in ditch in Trench 7
262	E	Yes	Yes	Stones in ditch in Trench 7
263	S	Yes	Yes	N facing section crane pit
264	SE	Yes	Yes	General shot crane pit
265		Yes	No	ID shot
266		Yes	No	Working shot
267	N	Yes	Yes	S facing section Trench 7
268	S	Yes	Yes	N facing section Trench 7
269	N	No	Yes	Crane Pit
270	SW	No	Yes	Crane Pit

1.4 Sample Register

* samples processed at assessment

Sample No.	Context No.	Description
1	002/003	Thin Section Sample – Trench 1
2	003	Thin Section Sample – Trench 1
3	003	Thin Section Sample – Trench 1
4	003/004	Thin Section Sample – Trench 1
5*	001	0-0.18m Plant Macrofossil Sample – Trench 1
6*	002	0.18-0.4m Plant Macrofossil Sample – Trench 1

7*	003	0.4-0.5m Plant Macrofossil Sample – Trench 1
8*	003	0.5-0.6m Plant Macrofossil Sample – Trench 1
9*	003	0.6-0.7m Plant Macrofossil Sample – Trench 1
10*	004	0.7-0.9m Plant Macrofossil Sample – Trench 1
11	003	0.4-0.5m Beetle Sample – Trench 1
12	003	0.5-0.6m Beetle Sample – Trench 1
13	003	0.6-0.7m Beetle Sample – Trench 1
14	003	Thin Section Sample – Trench 2
15	003	Thin Section Sample – Trench 2
16	003	Thin Section Sample – Trench 2
17	003	Thin Section Sample – Trench 2
18	003	Thin Section Sample – Trench 2
19	003	Thin Section Sample – Trench 2
20	003	Thin Section Sample – Trench 2
21	003	Thin Section Sample – Trench 2
22*	003	0-0.1m Plant Macrofossil Sample – Trench 2
23*	003	0.1-0.2m Plant Macrofossil Sample – Trench 2
24*	003	0.2-0.3m Plant Macrofossil Sample – Trench 2
25*	003	0.3-0.4m Plant Macrofossil Sample – Trench 2
26*	003	0.4-0.5m Plant Macrofossil Sample – Trench 2
27*	003	0.5-0.6m Plant Macrofossil Sample – Trench 2
28*	003	0.6-0.7m Plant Macrofossil Sample – Trench 2
29*	003	0.7-0.8m Plant Macrofossil Sample – Trench 2
30	003	0-0.1m Beetle Sample – Trench 2
31	003	0.1-0.2m Beetle Sample – Trench 2
32	003	0.2-0.3m Beetle Sample – Trench 2
33*	003	0.3-0.4m Beetle Sample – Trench 2
34	003	0.4-0.5m Beetle Sample – Trench 2
35	003	0.5-0.6m Beetle Sample – Trench 2
36	003	0.6-0.7m Beetle Sample – Trench 2
37	003	0.7-0.8m Beetle Sample – Trench 2
38	003	0.8-0.9m Plant Macrofossil Sample – Trench 2
39	003	0.8-0.9m Beetle Sample – Trench 2
40	012	Timber stake/post
41*	015	Fill of Culvert [013]
42	008	End of timber post
43	024	1 tub Beetle sample/ 1 tub Bulk sample/ 1 tub Finds
44	023	Orange-brown silt
45*	007	0.9-1m Plant Macrofossil Sample – Trench 2
46*	007	1-1.1m Plant Macrofossil Sample – Trench 2
47*	007	1.1-1.2m Plant Macrofossil Sample – Trench 2
48*	007	1.2-1.3m Plant Macrofossil Sample – Trench 2
49*	070	1.3-1.4m Plant Macrofossil Sample – Trench 2
50*	070	1.4-1.6m Plant Macrofossil Sample – Trench 2
51	007	0.9-1m Beetle Sample – Trench 2
52	007	1-1.1m Beetle Sample – Trench 2
53	007	1.1-1.2m Beetle Sample – Trench 2
54	007	1.2-1.3m Beetle Sample – Trench 2
55	070	1.3-1.4m Beetle Sample – Trench 2
56	070	1.4-1.6m Beetle Sample – Trench 2
57	024	Mid-orange/brown clayey silt
58*	072	Shell deposit in Ditch [075]
59	Void	Void
60	Void	Void
61*	077	Ditch fill upper – mid-light brown silty clay

62*	078	Ditch fill lower – orange silty clay
63*	079	Ditch fill – brown clay
64*	073	Mid-grey clayey silt, fill of [075]
65*	074	Dark-grey silt, fill of ditch [075]
66*	080	Black/dark-brown ditch fill [076]
67	089	Black/dark-brown ditch fill [076]
68*	090	Black silty clay, primary ditch fill [076]
69	073	Fill of ditch [075]
70*	086	Fill of ditch [075]
71*	092	Fill of ditch [075]
72*	096	Dark-grey silt from butt end of ditch
73*	094	Mid-brown silt, ditch fill
74	100/101	Thin section – See Drawing 6/10
75	101/080	Thin section – See Drawing 6/10
76	080	Thin section – See Drawing 6/10
77	080/077	Thin section – See Drawing 6/10
78	098/099	Thin section – See Drawing 6/10
79	103/098	Thin section and pollen – See Drawing 6/10
80	098	Thin section and pollen – See Drawing 6/10
81	090	Thin section and pollen – See Drawing 6/10
82	090	Thin section and pollen – See Drawing 6/10
83	090	Thin section and pollen – See Drawing 6/10
84	090	Thin section and pollen – See Drawing 6/10
85	090	Bulk sample – Beetle and Plant Macrofossil Sample
86	090	Bulk sample – Beetle and Plant Macrofossil Sample
87	099/089	Thin section and pollen – See Drawing 6/10
88	082	Dark-brown silt, fill of [075]
89	081	Black and grey silt, fill of [075]
90*	093	Mottled black and brown clayey silt, fill of [075]
91	070/105	Monolith Sample
92	070/105	Monolith Sample
93	100	Bulk sample – Beetle and Plant Macrofossil Sample
94	101	Lens below [100] within ditch [076]
95	080	0.1-0.45m Bulk sample – Beetle and Plant Macrofossil Sample
96	103	0.5-0.7m Bulk sample – Beetle and Plant Macrofossil Sample
97	078	0.35-0.5m Bulk sample – Beetle and Plant Macrofossil Sample
98	098	0.85-1.05m Bulk sample – Beetle and Plant Macrofossil Sample
99	131	Fill of possible posthole [130]
100*	124	Pit backfill
101*	135	Pit backfill – top
102*	135	Pit backfill – bottom
103	125	Fill of feature? Green/brown compact silt
104	138	Fill of ditch [127]
105*	139	Pit fill
106	140	Black/dark brown deposit
107*	141	Pit deposit
108*	133	Packing around outside of barrel [132]
109*	126	Brown silty clay deposit
110*	142	Bulk sample – Black organic clayey silt
111	070/142	Kubiena tin – Black organic clayey silt
112	142	Kubiena tin – Black organic clayey silt
113	142	Approx. 0.3m section of [142]
114	142	Kubiena tin – black deposit
115	070/142	Monolith Sample – between [070] and [142] – black peaty deposit
116	148	Buried soil from Crane Pit

1.5 Finds Register

Find No.	Context No.	Description
1	003	Metal object, pin/nail?
2	003	Cu alloy object, bootlace end?
3	007	Fe Nail
4	007	Fe Nail
5	007	Fe Nail
6	007	Fe Nail
7	007	Fe Object
8	080	Horn Lice Comb
9	081	Leather
10	079	Fe Object, nail?
11	080	Circular lead object, weight?
12	094	Leather
13	003	Fe Object
14	140	Fe Object, nail/rivet
15	133	Fe Object
16	003	Metal button
17	003	Copper coin

1.6 Retained wooden stakes

Context	Kept?
8	Y Sample 42
9	Y
10	Y
11	N
12	Y Sample 40
17	Y
18	Y
19	Y
20	Y
21	Y
22	Y
25	N
26	Y
27	N
28	Y
29	N
30	Y
31	Y
32	Y
33	Y
34	Y
35	Y
36	Y
37	N
38	Y
39	N

40	Y
41	N
42	Y
43	N
44	N
45	Y
46	N
47	Y
48	Y
49	Y
50	N
51	Y
52	Y
53	Y
54	Y
55	N
56	N
57	Y
58	Y
59	Y
60	Y
61	N
62	N
63	N
64	N
65	Y
66	Y
67	Y
68	N
69	Y
71	N
106	Y
107	Y
108	Y
109	Y
110	Y
111	Y
112	Y
113	Y
114	Y
115	Y
116	Y
117	Y
118	Y
119	Y
120	Y
121	Y
122	Y
123	Y

There are 4-6 unidentified stakes from 007/1.

APPENDIX 2: FINDS AND FAUNAL ASSESSMENT *Julie Franklin & Auli Tourunen*

Table 1: Finds List

Area	Ctxt	SF	Smpl	Material	Qty	Description	Spot Date
	U/S			CBM	1	Drain pipe sherd, unglazed	
	U/S			CBM	2	Floor tile, T.27mm, one with dark glaze spots on edge	
	U/S			Clay Pipe	1	Stem, narrow	L.18 th / e.20 th
	U/S	100		Cu	1	Lace tag, two pieces, squashed, L.15mm+?	15 th /17 th
	U/S			Glass	4	Bottle sherds, green, straight sided bottles?	?L.18 th / 19 th
	U/S			Pottery	6	2 WG, small abraded, one ?dummy handle 1 LWW, jug rim/strap handle 3 GW, sandy sherds, olive glazed, jug strap handle and int glazed jar sherd	16 th
	U/S			Pottery	1	Import - LCRW?, small sherd, internal orange glaze	14 th /17 th
	U/S			Pottery	3	Modern pottery 1 ModRE, brown glazed 1 ModWE, white glazed 1 ModSW, strap handle	18 th /20 th
TP8	U/S			Pottery	2	GW, joining jug sherds, olive glazed	15 th /16 th
	001		5	Glass	50	Fragments, including bottle string rim sherd (c.1670, Dumbrell)	L.17 th ?
	001		5	Mortar	12g	Small fragments	
	001		5	MWD	20g	Fe slag fragments	
	001		5	Pottery	3	Fragments, red, grey and whitewares	?15 th /16 th ?
	002		6	Mortar	1874 g	Large lumps	
	003			CBM	1	Brick, fragment	
	003	17		Cu	1	Coin, diam 22mm	19 th /20 th
	003		24	Fe	2	Nail & shank fragment	
	003		33	Fe	1	Nail shank, waterlogged?	
	003		28	Fe	1	Nail?	
	003		25	Fe	2	Nails? Small shank fragments	
	003		24	Mortar	3g	Small fragment	
	003		8	Mortar	4g	Small fragment	
	003		9	Mortar	6g	Small fragments	
	003		7	Mortar	58g	Small fragments	
	003		27	MWD	3g	Fe slag fragments	
	003		26	MWD	5g	Fe slag fragments	
	003		25	MWD	6g	Fe slag fragments	
	003		28	MWD	6g	Fe slag fragments	
	003		24	MWD	8g	Fe slag fragments	
	003		23	MWD	10g	Fe slag fragments	
	003		7	MWD	11g	Fe slag fragments	
	003		8	MWD	13g	Fe slag fragments	

Area	Ctxt	SF	Smpl	Material	Qty	Description	Spot Date
	003		22	MWD	15g	Fe slag fragments	
	003		23	MWD	3g	Prill	
	003		29	Pottery	2	1 WG, sooted 1 LWW, small sherd	14 th /16 th
	003		26	Pottery	3	2 WG, small sherds 1 GW, small sherd	14 th /15 th
	003			Pottery	10	7 WG, various, including jug rim 3 LWW, jug sherds	c.15 th
	003			Pottery	1	Import – LCRW?, redware with grey core, sooted exterior, internal orange glaze	14 th /17 th
	003		28	Pottery	1	LWW, fragment	15 th /16 th
	003		27	Pottery	1	LWW, small sherd	15 th /16 th
	003		25	Pottery	1	WG, small sherd	12 th /15 th
	003		9	Pottery	3	WG, small sherds, CP?	12 th /15 th
	003		23	Stone	4	Burnt stone fragments	
	003		9	Stone	2	Burnt stone sherds	
TP3	003			MWD	33g	Fe slag lump	
TP3	003			Pottery	8	6 WG, various small sherds 1 MedRW, white slipped, sooted 1 GW, olive glazed	14 th /16 th
TP3	003			Pottery	1	Import – LCGW?, small sherd	13 th /14 th
TP3	003			Pottery	1	Import – SeigSW, rim	14 th /15 th
TP4	003		2	Pottery	1	WG, ?jug rim, pale olive glaze	13 th /15 th
TP4	003			Pottery	1	WG, jug sherd	14 th /15 th
TP4	003 (stake 012)			Pottery	7	5 WG, various small sherds 2 GW, small sherds	15 th /16 th
TP5	003		12	Fe	1	Nail	
TP5	003		12	Pottery	1	Import – LCRW, small sherd, orange glazed	14 th /17 th
TP5	003		12	Pottery	7	WG, small sherds, various	12 th /15 th
	003/1	16		Cu	1	Button, 4 holed, ?Cu with black coating, makers mark 'Geo.Hunt.Edinburgh'	19 th /20 th
	003/1			Pottery	11	4 WG, various small sherds 3 LWW 4 GW, olive glazed jugs, one rim/strap handle	c.16 th
	003/1			Pottery	1	Import – Scar, pink, frag of face mask	13 th /m.14 th h
TP1	003/1	103		Cu	1	Disc, third of a small (c.33mm diam) disc with central hole, leaded bronze?	
TP1	003/1			Fe	3	Nails	
TP1	003/1			Fe	3	Nails	
TP1	003/1			Fe	12	Nails	
TP1	003/1	108		Fe	1	Strip, curving	
TP1	003/1			Glass	1	Bottle sherd, green	17 th /20 th
TP1	003/1			MWD	492g	Fe slag fragments	

Area	Ctxt	SF	Smpl	Material	Qty	Description	Spot Date
TP1	003/1			Pottery	41	22 WG, various small sherds, some late looking 1 RW, gritty, orange glazed 18 GW, various small sherds, 1 jug rim, 1 face mask decor	15 th /16 th
TP1	003/1			Pottery	4	Import – LCRW?, various small orange sherds	14 th /17 th
TP1	003/1			Pottery	1	Import – redware fragment, orange glazed, white ridged applied strip	13 th /16 th
TP1	003/1			Pottery	1	Import – RhenSW (Raer/Col), jug handle terminal, brown glazed	15 th /16 th
TP1	003/1			Pottery	1	Import - Scar, small sherd	13 th /m.14 th _h
TP1	003/1			Pottery	1	Import - TGE, plain	17 th /18 th
TP1	003/1			Pottery	2	Modern 1 ModRE, large piece of slip lined jar 1 ModWE, blue trans printed	L.18 th /e.20 th
TP2	003/1	101		Ag	1	Coin, cross visible	13 th /14 th
TP2	003/1	1		Fe	1	Nail, very thin shank & rounded head, pin?	
TP2	003/1			Fe	3	Nails	
TP2	003/1	106		Fe	1	Object, flat, rounded	
TP2	003/1	107		Fe	1	Object, flat, sub-oval	
TP2	003/1			Lithics	1	Flint, small ?burnt flake	
TP2	003/1			MWD	86g	Fe slag fragments	
TP2	003/1			Pottery	58	43 WG, various small sherds, including 3 rims 15 GW, mostly olive glazed	14 th -17 th
TP2	003/1			Pottery	1	Import – redware fragment, orange glazed, white ridged applied strip	13 th /16 th
TP2	003/1			Pottery	1	Import? – Scar?, poss WG	13 th /m.14 th _h
TP3	003/1			CBM	2	Tile fragments	
TP3	003/1			CBM	1	Tile/brick fragment	
TP3	003/1	2		Cu	1	Lace tag? Small rolled sheet, edges opened out	?15 th / 17 th ?
TP3	003/1	104		Cu	1	Wire pin, wound wire head (soldered), tip bent, L.41mm	L.Med
TP3	003/1	105		Cu?	1	Wire, length of thick wire (c.120mm), bent and looped at ends?	
TP3	003/1			Fe	1	Nail?	
TP3	003/1			Glass	3	Window sherds, clear, abraded	P.Med-Mod
TP3	003/1			Mortar	400g	Large lump	
TP3	003/1			MWD	18g	Fe slag fragments	
TP3	003/1			Pottery	31	17 WG, various small sherds 14 GW, various, including large strap handle	14 th -16 th
TP3	003/1			Pottery	1	Import – LCRW?, external orange glaze	14 th /17 th
TP13	003/1			CBM	1	Brick fragment	

Area	Ctxt	SF	Smpl	Material	Qty	Description	Spot Date
TP13	003/1	102		Cu	1	Coin, small legible, diam 11mm, possibly a 'copper ecclesiastical type farthing type 3' (Holmes 1998, no.24), (in need of cons asap)	L.15 th
TP13	003/1			Fe	1	Fragment	
TP13	003/1			Fe	3	Nails	
TP13	003/1			Glass	2	Window, 2 sherds & fragments, colourless, crystallising	Medi-P.Med
TP13	003/1			Mortar	40g	Small fragments	
TP13	003/1			MWD	15g	Fe slag fragments	
TP13	003/1			Pottery	27	17 WG, small sherds 1 RW, orange glazed 9 GW, including jug rim	13 th -16 th
TP13	003/1			Pottery	1	Import – SeigSW? fragment	14 th /15 th
TP13	003/1			Stone	4	Slate, small sherds	
TP14	003/1			CBM	1	Drain pipe, unglazed earthenware	
TP14	003/1			Fe	1	Nail shank fragment	
TP14	003/1			Mortar	7g	Small fragments	
TP14	003/1			Pottery	13	6 WG, including jug rim 1 RW, small sherd, orange glazed 6 GW, various olive glazed	13 th -16 th
	003/2			Pottery	4	3 WG, jug rim and base, late 1 GW, jug rim	15 th -16 th
TP2	003/2			Glass	1	Bottle sherd, green	17 th /20 th
TP4	003/2			Fe	1	Fragment	
TP4	003/2			MWD	5g	Fe slag fragment	
TP4	003/2			MWD	22g	Fe slag lump	
TP4	003/2			Pottery	40	32 WG, including sooted ?jug base, and small early CP rim form 8 GW, various small	12 th -16 th
TP5	003/2			CBM	1	Brick fragment	
TP5	003/2			Fe	2	Nails	
TP5	003/2			Lithics	1	Flint, small flake	
TP5	003/2			Pottery	44	28 WG, 3 jug bases, late looking, 2 sooty CP sherds 1 RW, olive glazed 15 GW, 1 jug base, other jug sherds	13 th -16 th
TP5	003/2			Pottery	1	Import – Scar, small sherd	13 th /m.14 th
TP6	003/2			CBM	1	Daub fragment, burnt, furnace wall?	
TP6	003/2			Fe	2	Nails	
TP6	003/2			MWD	18g	Fe slag fragments	
TP6	003/2			Pottery	52	41 WG, 2 jug rim, 1 early CP rim frag 2 LWW 9 GW, 1 jug rim	13 th -16 th
TP15	003/2			CBM	1	Brick/daub, small abraded fragment	
TP15	003/2			Fe	2	Nails	
TP15	003/2			MWD	75g	Fe slag lump	

Area	Ctxt	SF	Smpl	Material	Qty	Description	Spot Date
TP15	003/2			Pottery	21	14 WG, various small sherds 2 LWW, large jug sherd 1 RW, gritty, orange 4 GW, 1 applied prunt with ring & dot	13 th -16 th
TP15	003/2			Pottery	1	Import – RhenSW, early?	14 th /15 th
	003/3	13		Fe	1	Object, large flattish lump, in two pieces	
TP7	003/3	110		Ceramic	1	Gaming counter, made from WG pot sherd, grey core, int surface white, ext olive glazed, fairly well rounded, diam 20mm	13 th /15 th
TP7	003/3			MWD	9g	Fe slag lump	
TP7	003/3			Pottery	63	57 WG, various small sherds, 1 base, few sooty, several from same jug with patchy olive glaze, iron coloured stripe and incised decoration 6 GW, olive glazed	12 th -16 th
TP8	003/3	109		Bone Obj	1	Handle, part of one scale, square end, tapering towards broken end. Rivet hole at wide end, row of 11 closely spaced decorative rivet holes (not full thickness), set with copper alloy rivets	
TP8	003/3			CBM	1	Daub, small lump of soft coarse ceramic	
TP8	003/3			Fe	2	Nails	
TP8	003/3			Pottery	56	46 WG, 1 jug rim, 1 CP rim, 1 base 10 GW, various	12 th -16 th
TP8	003/3			Pottery	1	Import – LCRW?, fragment	14 th /17 th
TP9	003/3			MWD	23g	Fe slag lump, with organics	
TP9	003/3			Pottery	38	33 WG, 2 jug rims 5 GW, olive glazed, 1 CP rim, 1 jug strap handle with holes pierced all way through, 3 CP bases	12 th -16 th
TP9	003/3			Pottery	1	Import – SeigSW, large rilled sherd	14 th /15 th
	004		10	Mortar	3g	Small fragments	
	004		10	Pottery	1	WG, fragment	12 th /15 th
	007/1	3		Fe	1	Nail, flat round head, complete, near perfect condition, waterlogged	
	007/1			Pottery	4	2 WG 2 GW, one large jar rim, c.17 th	13 th -17 th
	007	112	48	Cu	1	Wire pin? Fragment of wire	
	007	7		Fe	1	Lump, large rounded, ?waterlogged, poss object inside	
	007	5		Fe	1	Nail shank?	
	007	4		Fe	1	Nail, complete?, waterlogged?	
	007	6		Fe	1	Nail, large, waterlogged	
	007			Fe	1	Nail, small, waterlogged	
	007		45	Mortar	4g	Fragment	
	007		46	Pottery	1	WG fragment	12 th /15 th
	007		46	Pottery	2	WG, 1 applied scale	13 th /15 th

Area	Ctxt	SF	Smpl	Material	Qty	Description	Spot Date
	007			Pottery	2	WG, jug rim	12 th /15 th
TP10	007			Pottery	44	40 WG, 2 rims, 5 bases, two of which are sooted, 2 decorated, applied strip and applied hand 4 RW, 2 white slipped, one poss later olive glazed	13 th -15 th
TP10	007			Pottery	1	Import – Scar	13 th /m.14 th h
TP11	007			Fe	2	Nails	
TP11	007	113		Fe	1	Object, oval shaped lump	
TP11	007			MWD	35g	Fe slag fragments	
TP11	007			Pottery	73	63 WG, various small sherds, 2 decorated with applied strips and scales 10 GW, one large sherd, poss handle terminal	13 th -16 th
TP11	007			Pottery	1	Import – whiteware, fine, thin walled orange & yellow glaze	12 th /17 th
TP12	007			Fe	3	Nails	
TP12	007			MWD	51g	Fe slag fragments	
TP12	007			Pottery	19	18 WG, 1 jug rim, 1 base 1 GW, olive glazed	13 th -16 th
TP16	007	111		Bone Obj	1	Bead, large ring bead, diam 10mm, length 4.5mm.	
TP16	007			CBM	1	Brick fragment	
TP16	007			Fe	2	Fragments, flat	
TP16	007			Fe	3	Nails	
TP16	007			Fe	16	Nails and shank fragments	
TP16	007			Lithics	1	Flint, small flake	
TP16	007			Lithics	1	Flint, small flake	
TP16	007			Mortar	120g	Small fragments	
TP16	007			MWD	215g	Fe slag fragments	
TP16	007			Pottery	65	47 WG, 3 rims, 1 base, a decorated with applied red strip and yellow glaze, 1 applied black strip and green glaze, 1 wavy combed 1 LWW 4 RW 13 GW, 1 large coarse strap handle	14 th -16 th
TP16	007			Pottery	1	Import – LCGW, small loop rod handle	13 th /14 th
	014			CBM	1	Tile/Brick. Large sherd, T.45mm, thin brick or thick tile, finger hole in top	
	015		41	Fe	1	Nail	
	015		41	Glass	2	Window fragments	
	015		41	Mortar	71g	Small fragments	
	015		41	MWD	11g	Fe slag fragments	
	015		41	Pottery	1	WG, small sooty sherd	12 th /15 th
	023			Pottery	2	WG, small unglazed sherds	12 th /15 th
	070		49	MWD	3g	Prill	
	070		49	Pottery	1	WG fragment	12 th /15 th
	070			Pottery	1	WG, glazed	12 th /15 th
Ditch	072		58	MWD	135g	Fe slag lumps	

Area	Ctxt	SF	Smpl	Material	Qty	Description	Spot Date
Ditch	072		58	Pottery	1	Import – LCRW, ?skillet profile, sooted exterior, orange glazed interior	14 th /17 th
Ditch	072		58	Pottery	1	WG, unglazed sherd	12 th /15 th
Ditch	073		64	Fe	1	Nail? Square shank, heavy, cast iron?, vivianite indicates waterlogged	
Ditch	073			Pottery	21	19 WG, 1 complete grooved strap ahndle2 jug rims, 1 ?frilled jug base, 1 ring & dot impressed 1 LWW large jug base sherd 1 RW, internal olive glazed sherd, CP, 16 th ?	13 th -16 th
Ditch	073		64	Pottery	2	WG, small sherds	12 th /15 th
Ditch	074		65	Fe	1	Nail shank, vivianite?	
Ditch	074		65	Mortar	4g	Small fragments	
Ditch	074		65	MWD	9g	Fe slag lump	
Ditch	074			Pottery	5	Import – LCRW?, external orange glaze	14 th /17 th
Ditch	074		65	Pottery	5	WG, 1 CP rim	13 th /14 th
Ditch	074			Pottery	22	WG, 1 green glazed strap handle, 2 ?jug bases, all jug sherds?	14 th /15 th
Ditch	077		61	Stone	1	Small stone with hole, possibly natural	
Ditch	078		62	Mortar	5g	Small fragments	
Ditch	079		63	Fe	1	Nail	
Ditch	079		63	Lithics	1	Flint, small lump	
Ditch	079		63	MWD	2g	Fe slag fragments	
Ditch	079		63	Pottery	1	Import – RhenSW, Raer/Lang? grey-brown salt glaze	15 th /16 th
Ditch	079			Pottery	4	WG, 2 joining sherds from badly glazed jug shoulder	14 th /15 th
Ditch	079		63	Pottery	8	WG, various small sherds, 1 rim	12 th /15 th
Ditch	080	8		Horn?	1	Comb, one piece, double sided, rounded ends, profile uniform thickness, slightly curving. Two wide teeth & 12 fine teeth broken, otherwise v.good condition. Material gives stripy wood grain effect with ends buff coloured, central area darker brown. Scored along both sides for tooth cutting limit. Roughly scratched decoration: two large crosses with smaller crosses, cross bars and asterix; on reverse rough lines and crosses. To mark ownership? Length 62, width 58mm, thickness 2.5mm, wide teeth 5/cm, fine teeth 9/cm	L.Med/ P.Med
Ditch	080		66	Mortar	2g	Small fragments	
Ditch	080		66	MWD	13g	Fe slag fragments	
Ditch	080		66	MWD	2g	Prill	

Area	Ctxt	SF	Smpl	Material	Qty	Description	Spot Date
Ditch	080	11		Pb	1	Disc, appears unmarked. Diam 38mm, weight 28g	
Ditch	080			Pottery	32	29 WG, large sherds, late looking, 1 jug rim, 1 jug base, 2 (diff) wide strap handles, several large sherds from olive glazed jug with iron blibs applied thumbled strip, 1 int glazed CP sherd, 3 GW, various olive glazed	c.15 th
Ditch	080			Pottery	1	Import – Scar grooved rod handle	13 th /m.14 th _h
Ditch	080		66	Pottery	2	WG, 1 sooty	12 th /14 th
Ditch	081	9		Leather	18	Various pieces of leather, largest c.32 x 16-18cm, approx rectangular, though with some torn edges. Lace holes (with in situ lace in one) along one end. Stitch holes along other end, one side and along possibly dart cut into other side. Various other pieces and scraps, some possibly joining.	
Ditch	081			Pottery	3	Import – LCRW?, joining sherds, spots of orange glaze	14 th /17 th
Ditch	081			Pottery	1	Import – RhenSW, large frilled base, grey/brown salt glaze, Raer/Lang?	15 th /16 th
Ditch	081			Pottery	1	Import – SeigSW, rilled sherd, joins 082	14 th /15 th
Ditch	081			Pottery	4	WG, large sherds, 1 wide strap handled rim sherd (diff to 080), 1 jug base	14 th /15 th
Ditch	082			Pottery	1	Import – SeigSW, rilled sherd, joins 081	14 th /15 th
Ditch	082			Pottery	1	WG, sooted ?jug base with iron blibs	14 th /15 th
Ditch	085			Pottery	3	2 WG, 1 large late jug base 1 GW, jug base	c.15 th
Ditch	086	114	70	Fe	1	Buckle, small square buckle, with pin, 18 x 15mm.	
Ditch	086		70	MWD	6g	Fe slag fragments	
Ditch	086			Pottery	3	2 WG, small sherds 1 GW, olive glazed	13 th -16 th
Ditch	086			Pottery	1	Import – Scar, applied red scale	13 th /m.14 th _h
Ditch	089			Pottery	38	27 WG, good sherd size, 1 CP rim, 2 rims, 1 jug base, some sooty sherds, some glazed 10 GW, olive glazed 1 RW, sooty base	13 th -16 th
Ditch	090			Pottery	2	WG, glazed sherds	12 th /15 th
Ditch	092		71	Fe	1	Nail, shank fragment	
Ditch	092		71	Mortar	3g	Small fragments	

Area	Ctxt	SF	Smpl	Material	Qty	Description	Spot Date
Ditch	092			Pottery	13	7 WG, 1 CP base, 1 jug base, one bad iron decoration 6 GW, one v.large sherd with applied strip	13 th -16 th
Ditch	092		71	Pottery	9	8 WG, small sherds, 1 jug rim 1 GW, sherd pierced ?post-firing	13 th -16 th
Ditch	093	115	90	Glass Obj	1	Bead, small ring bead, appears black, (poss stone?), diam 4mm, length 2mm.	
Ditch	093		90	Mortar	9g	Small fragments	
Ditch	093		90	MWD	15g	Fe slag lump	
Ditch	093		90	Pottery	1	WG, jug sherd	12 th /15 th
Ditch	093			Pottery	2	WG, olive glazed jug sherd	12 th /15 th
Ditch	094	12		Leather	3	Pieces of leather, largest c.12 x 6cm, some edges and stitch holes	
Ditch	094			Pottery	3	2 WG, small sherds 1 GW thumbled handle terminal, with vivianite spots	13 th -16 th
Ditch	094			Pottery	1	Import - Scar	13 th /m.14 th h
Ditch	094		73	Pottery	5	WG, 1 decorated with iron strip	13 th /15 th
Ditch	096			Pottery	1	GW, olive glazed	14 th /16 th
Barrel	124		100	Fe	1	Nail? Thin shank fragment	
Barrel	124		100	Fe & Wood	1	Strip of desiccated wood with iron nail	
Barrel	124		100	Glass	10	Fragments of very crystallized glass	Medi-P.Med
Barrel	124		100	Mortar	38g	Small fragments	
Barrel	124	116	100	Wood	1	Bead, small, rounded, plain, diam 8mm, length 6mm. Def. worked (ST)	
	125			Pottery	11	WG, 1 abraded strap handle with unusual applied decorative bit, 1 applied strip and incised zig-zag	13 th /15 th
	126		109	Mortar	52g	Small fragments	
	126		109	MWD	2g	Prill	
	126		109	Pottery	3	1 WG fragment 2 RW, unglazed	12 th /15 th

Area	Ctxt	SF	Smpl	Material	Qty	Description	Spot Date
Barrel	132			Wood	1	Coopered vessel. Possibly base of a barrel or large bucket/basin. Standing up to c.30cm high, max diam c.70cm, apparently re-used as pit/well/sump lining. No base, but croze groove clearly visible. Waterlogged but in fairly good condition. 20 Staves numbered clockwise, beginning on S side: A, B, C1, C2, D, E, F, G, H, I, J, K, L, M, N, O, P1, P2, Q, R. Each individually surveyed in and bagged. Remains of several hoops around exterior, all of D-shaped section, split narrow roundwood, c.2cm wide. Appear to be four hoops around bottom (No.4-7) and three hoops around top (No.1-3) (Detailed notes made by Ben on site (see context sheet & survey). Some of top triple hoop came up with the staves and wrapped in situ. Rest of top hoops and lower hoops came out separately.	
Barrel	133			CBM	1	Daub, small lump burnt and slaggy?	
Barrel	133	15		Fe	1	Nail, bent, waterlogged?	
Barrel	133		108	Mortar	2g	Small fragments	
Barrel	133		108	MWD	23g	Fe slag lumps	
Barrel	133		108	Pottery	4	WG, small glazed sherds	13 th /15 th
Barrel	135		102	Mortar	32g	Small fragments	
Barrel	135		101	Mortar	34g	Small fragments	
Ditch	138			Pottery	3	WG, 1 base	12 th /15 th
Barrel	139		105	Mortar	12g	Small fragments	
Barrel	139		105	Pottery	1	GW fragment	13 th /16 th
	140	14		Fe	1	Nail, hank broken, good condition, waterlogged	
	140			Pottery	1	Import – Saint?/Stamf, fine whiteware, mottled copper green glaze	12 th /14 th
	140			Pottery	1	WG sooty CP base	12 th /14 th
	142		110	Mortar	2g	Small fragments	
	142		110	MWD	2g	Prill	
	148		116	Mortar	17g	Small fragments	
	148		116	MWD	3g	Fe slag fragment	

Abbreviations & Notes: MWD= metalworking debris; CBM = ceramic building material; MWD weights include bag & label (c.2g) ; Dates: 14th/16th = a date between 14th and 16th centuries, 14th-16th = material covers whole range of dates; Pottery: WG = White Gritty; GW = Greyware; RW = Redware; CP = cooking pot; Cn = Conservation, C=cleaning/conservation, XR=x-ray; Ill+recommended for illustration; Loc: location, box number or F=fridge, T=tank

003	29	RT	b	x								
003	29	RT	2	x					x		amphibian	
003	29	RT	2	x					x			
003	33	RT	2	x								
003	33	RT	b	x								
003	tp 1		2	xxx	x	x			x		very fragmented	
003	tp 13		2	xx		x				x		
003	tp 13		b	x								
003	tp 3		2	xx		x			x		rabbit/hare	
003	tp 5		2	xx	x	x					very fragmented	
003	tp13		b	x								
003	tp13		2	xx	x	x		x	x	x	rodent	
003	tp15		b	x							one not burnt and one of unid material	
003	tp15		2	xx	x	x						
003	tp2		2	xx	x	x	x		x		dog?	Domestic waste
003	tp3		2	xx	x	x					rabbit/hare	
003	tp3		b	x								
003	tp3		3	x		x						
003	tp3		2	xx		x					rabbit/hare	
003	tp3		2	x								
003	tp4		2	xxx		x	x			x		
003	tp4		2	x		x						
003	tp4		2	x		x						
003	tp6		2	xx		x	x					
003	tp8		2	xx	x	x	x			x		
003	tp9		2	xx	x	x	x					
003			1	x								

003			3	x						
003			2	x						
003			2	xx		x				Pottery
003			b	xx					lm	
003			b	x						
003			2	xx	x	x		x		Domestic waste
003				x					lm	
003			2	xx	x	x	x			
003			2	xx	x	x				
003			2	xx		x	x		x	
003			2	xx		x				
003				x					mm	
003			2	xxx	x	x	x			very fragmented
003			2	x	x	x				
004	10	RT	2	x						small mammal
004	10	RT	b	x						
004	10	rt	2	x					lm	
007	45	RT	2	x					x	
007	46	RT	2	x		x				
007	tp 11		2	x						
007	tp 11		2	xxx	x	x		x		
007	tp 12		2	x					x	vert
007	tp 12		2	x	x	x				
007	tp 12		b	x						
007	tp 12		2	x		x				
007	tp 16		b	x						
007	tp12		b	x						

007	tp16		2	xx	x	x	x			small frags
007	tp16		b	x			x			
007	tp16		2	xx	x		x			very fragmented
007			1	x						
007			2	x						
007			b	x						
007			2	xx			x		lm	Domestic waste
007			1	x						
007			2	xx	x		x		x	
015	41	RT	2	xxx				x	x	mm, lm
015	41	RT	b	x					x	
015	41	rt	2	xx					x	rodents, at least 2 different types
015	41	RT	2	x				x	x	
023			2	xx			x			
023			2	xx	x		x		x	horse mt
024	3	RT	b	x						
070	47	RT	2	x						
070	48	RT	2	x				x	x	
070	48	RT	b	x						
070	49	RT	2	x					x	
070	50	RT	b	x						
070	50	RT	2	x						
070			2	x					x	
072	58	rt	2	xx	x		x			Metal object
072			2	x					x	
073	64	RT	2	xx						mm

073			1	x					mm	
073			1	xxx	x	x				one horncore
073			1	xx	x	x				
073			1	xx	x					Cattle skull with horncores
073			1	xx				x	radius	
073			2	xx			x		lm	
074	65	RT	b	x						
074	65		2	xx	x	x		x		
074			1	xxx				x		
074			1	xxx	x	x		x		pottery
074			2	x				x		tibia
074			2	x	x	x				
074			2	xxx	x	x	x			one horncore
077	61	RT	2	xx	x	x				
078	62	RT	2	x						Amphibian
078	62	RT	b	x						
079	10		2	xx	x	x		x		Domestic waste
079	63	rt	b	x						
079	63	RT	2	xx		x		x	lm	
079			1	x					mm	
079			2	xx	x	x				
079			2	xx	x					horncore
080	66	RT	1	xx		x				
080			1	xxx	x					Horncores
080			2	xx				x		Horse hind limb
080			2	xx	x	x	x		x	
080			2	xxx	x	x		x		Pathological horse

									bone
080			2	xxx	x	x			Pathological horncore?
080			1	xx	x				cattle skull with horncore
080			1	xxx	x	x			one horncore
080			2	xxx	x	x	x		two horncores
080			1	xx	x	x		x	hare/rabbit, large bird sternum
081			1	xx	x			x	Horncore & horse lumbar
081			1	xx	x				lm Horncore & complete rib
081			1	xxx	x	x			one horncore
081			1	xx	x	x		x	Mostly horncores and horse ph
082			1	xx	x			x	
082			1	xxx	x	x			large pieces
082			1	xxx	x	x		x	one really small horncore
085			2	xx		x			lm Domestic waste
086	70	RT	2	xx		x	x		
086	70	RT	b	x					
089			2	xxx	x	x			Domestic waste
089			2	xx	x	x			
090	68	RT	2	xx		x			lm
090	68	RT	1	x					Amphibian
090			2	x		x			
092	71	RT	b	x					

092	71	RT	1	x					rodent and amphibian
092	71	rt	2	x					
092	71	RT	2	x					
092			1	xx			x		Horse radius
093	90	rt	2	x				mm	
093	90	RT	2	x					Amphibian Marked as 'rodent'
093			1	xxx			x		sacrum, radius
094	73	RT	2	x					amphibian, rodent
094	73	RT	b	x					
094	73	RT	1	x				x	mm, lm
094		rt	1	xx		x			
096	72	RT	2	x					Amphibian
096	72	RT	1	x					rodent
096			1	x					mm
124	100	RT	b	x					
124	100	rt	2	x		x			x
125			2	x					
125			2	xx		x		x	
125			2	x					lm
126	109	RT	1	x					
126	109	RT	2	x					Marked as rodent bone, but possibly amphibian
126	109	RT	b	x					
131			2	x					lm
133	108	RT	2	xx					mm

135	101	RT	1	x				mm	
135	102	RT	2	x					
139	105	RT	2	x					
139	105	RT	2	x				Rabbit/hare	
140			2	x	x				
141	107	RT	b	x			x		
141	107	RT	2	x					
146	116	RT	b	x					
146	116	RT	2	x		x	x		
146	116	RT	2	x				lm	
146			2	xx	x				Homcores
003									
/1	tp14		b	x				x	
003/1	tp14		2	xx	x			x	
003/3			2	xx	x		x		Domestic waste
003/3			2	xx				lm	
unstrat			2	x	x			x	

70	48	10	+				+				+	
70	49	10	+					+			+	
70	50	8									+	
72	58	10	+					++			+++	
77	61	10				+					++	
70	62	10							+		+	
79	63	10	++		+	+	+				+	
73	64	10	+				+				++	
74	65	10	++				+	+	+		+++	+
80	66	10	+					+	+		++	++
90	68	10									+	+++
86	70	10	+				+	+			+++	
92	71	20	++				+		+		++	+++
96	72	10	+								+	
94	73	10	+								++	+++
93	90	10	+	+				+	+		+	+++
124	100	10		+			++		+++	+	+	
135	101	10							+++		+	
135	102	10							+++		+	
139	105	10	+						+++		++	+

141	107	10										+	
133	108	10	+					+	+			++	
126	109	10	+					+	++			+	+
142	110	10						+	+			+	+

Context Number	Sample Number	Mammal bone	Fish bone	Bird bone	Burnt bone indet.	Charred Corylus Nutshell	Uncharred plant remains	Charcoal Quantity	Charcoal AMS	Comments
1	5	+++			+					
2	6	+++	+							
3	7	+++	++							
3	8	+++	+		+					Mussel shell identified
3	9	+++	++		+					Oyster and mussel shell identified.
3	22	+++	+							Oyster shell identified
3	23	+++	+		+			+	*	Oyster shell identified, charcoal up to 1cm.
3	24	+++	++		+					Oyster and winkle shell identified
3	25	+++	++		+++					White gritty pottery, oyster shell identified
3	26	+++	+		++					Oyster shell identified
3	27	+++	++		+					Oyster shell identified
3	28	+++	+		++			+		
3	29	++	+		++			+++	*	Charcoal up to 1 cm.
3	33	+++			+++					
4	10	+++			+					

7	45	++	++		++			+		Oyster shell identified
15	41	+++	+++	+	+++			+		
7	46	++	+							Oyster shell identified
70	47	++	+		+					Oyster shell identified.
70	48	++	+		++			+	*	Fe pin and oyster shell identified, charcoal up to 1cm.
70	49	+						+		Oyster and winkle shell identified
70	50	+			+			+		
72	58	+++								Oyster shell identified.
77	61	++	+							Oyster shell identified.
70	62	+	+		+					Oyster shell identified.
79	63	+++	+		+			+	*	Oyster shell identified, charcoal up to 2.5cm
73	64	+++	++							Oyster and mussel shell identified.
74	65	+++	+++		++			+		Oyster and mussel shell identified.
80	66	+++	+					+		Walnut shell +
90	68	+	++							Oyster and limpet shell identified.
86	70	+++	++		+					Metal buckle recovered. Oyster, mussel and winkle shell identified
92	71	+++	+		+			++	*	Whelk, winkle, mussel, limpet and oyster shell identified. Charcoal up to 3.5cm.
96	72	+	+							Oyster shell identified.
94	73	+++	+		+			+	+	Oyster and winkle shell identified. Plum stones. Charcoal up to 2cm.
93	90	++	++							Green glazed pottery and glass bead recovered.

124	100	+++	++		+			+		Fe nail, wooden bead, oyster shell and plum stone recovered
135	101	++						+		Oyster shell identified.
135	102	+	+			+				
139	105	++	++							
141	107	+	+		+					Oyster shell identified.
133	108	+++	+					+	*	Oyster and winkle shell identified. Charcoal up to 3.5cm
126	109	+++	+		+			+		Oyster and mussel shell identified.
142	110									

Table 2: Flotation samples

Context Number	Sample Number	Total flot Vol (ml)	Cereal grain:	<i>Hordeum vulgare</i>	Cereal indet.	Other plant remains	Charcoal		Comments
							Quantity	AMS	
001	005	<10					++++		
002	006	<10							Coal +
003	007	<10				<i>Urtica dioica</i> +, <i>Ranunculus sceleratus</i> +, <i>Juncus effusus</i> +	++		Coal +++
003	008	<10					+		Coal ++
003	009	<10							Coal +, Cinder +
004	010	<10				<i>Ranunculus sceleratus</i> +			Coal ++, Cinder ++, Burnt bone +
003	022	<10							Cinder +
003	023	10					+		Cinder +
003	024	<10					+		Coal ++, Cinder ++, Unburnt bone +
003	025	<10					++		Coal fragments ++++
003	026	<10							Coal +, Cinder +
003	027	<10					+		Coal +
003	028	<10					+		
003	029	<10					+		
003	038	<10					+		
015	041	25				<i>Ranunculus sceleratus</i> +, <i>Ficus carica</i> +			Beetle remains +
007	045	<10				<i>Conium maculatum</i> +	+		Cinder +
007	046	<10				<i>Conium maculatum</i> +, <i>Chenopodium</i> sp. +, <i>Urtica dioica</i> +, <i>Stellaria media</i> +, <i>Cirsium</i> sp. +			

070	047	<10			+	<u>Sonchus asper</u> +, <u>Conium maculatum</u> +, <u>Chenopodium</u> sp. ++, <u>Urtica dioica</u> +, <u>Ranunculus sceleratus</u> +, <u>Euphorbia helioscopia</u> +	++	
070	048	<10				<u>Conium maculatum</u> +++, <u>Chenopodium</u> sp. ++, <u>Urtica dioica</u> ++, <u>Rumex</u> sp. +		
070	049	<10				<u>Chenopodium</u> sp. ++, <u>Euphorbia helioscopia</u> +, <u>Conium maculatum</u> ++, <u>Ranunculus sceleratus</u> +, <u>Carex</u> sp. +, <u>Rumex</u> sp. +		Coal +
070	050	<10				<u>Conium maculatum</u> +, <u>Urtica dioica</u> +, <u>Rumex</u> sp. +, <u>Ranunculus sceleratus</u> +, <u>Juncus effusus</u> +++		
072	058	10				<u>Ranunculus sceleratus</u> +++	+++	Coal +, marine shell fragments ++++
078	061	<10				<u>Atriplex</u> sp. +, <u>Urtica dioica</u> +++, <u>Conium maculatum</u> +, <u>Urtica urens</u> +, <u>Rumex</u> sp. +		Marine shell fragments ++++
078	062	<10				<u>Conium maculatum</u> +, <u>Urtica dioica</u> +++, <u>Ranunculus sceleratus</u> ++, <u>Sambucus nigra</u> +		Coal +
079	063	10				<u>Conium maculatum</u> ++, <u>Urtica dioica</u> ++, <u>Ranunculus sceleratus</u> ++++, <u>Sambucus nigra</u> +, <u>Ficus carica</u> +		Land snails ++
073	064	<10				<u>Conium maculatum</u> +, <u>Ranunculus sceleratus</u> ++++, <u>Urtica dioica</u> +++		Coal +, land snails ++
074	065	25				<u>Ranunculus sceleratus</u> ++++, <u>Urtica dioica</u> ++, <u>Juncus effusus</u> ++, <u>Conium maculatum</u> ++++, <u>Ficus carica</u> +	+	Land snails ++, coal ++, beetle remains +
080	066	15				<u>Urtica urens</u> ++, <u>Chenopodium</u> sp. ++, <u>Urtica dioica</u> ++, <u>Ranunculus sceleratus</u> ++++, <u>Conium maculatum</u> ++		Land snails ++, wood fragments ++, beetle remains ++
090	068	25				<u>Conium maculatum</u> +, <u>Urtica dioica</u> +, <u>Ranunculus sceleratus</u> +, <u>Sambucus nigra</u> +, <u>Stellaria media</u> +, <u>Urtica urens</u> +		Land snails ++++, wood fragments +++

086	070	10		+	<u>Conium maculatum</u> ++, <u>Urtica dioica</u> +++, <u>Rumex sp.</u> +, <u>Ranunculus sceleratus</u> +, <u>Sambucus nigra</u> +, <u>Stellaria media</u> +			Land snails ++
092	071	50			<u>Conium maculatum</u> +++, <u>Ranunculus sceleratus</u> +, +, +, <u>Urtica dioica</u> +, +, +, +			
096	072	10			<u>Urtica dioica</u> +, +, +, <u>Sonchus asper</u> +, <u>Stellaria media</u> +, <u>Ranunculus sceleratus</u> +	+		Land snails ++, beetle remains +
094	073	30			<u>Conium maculatum</u> +, +, +, +, <u>Urtica dioica</u> +, +, +, +, +, <u>Ranunculus</u> <u>sceleratus</u> +, <u>Ranunculus sp.</u> +, <u>Stellaria media</u> +, +, +, <u>Cirsium</u> <u>sp.</u> +			Land snails +, +, +, beetle remains +, wood fragments +
093	090	25			<u>Sonchus asper</u> +, +, +, +, <u>Polygonum aviculare</u> +, <u>Carex sp.</u> +, +, <u>Urtica dioica</u> +, +, +, <u>Ranunculus sceleratus</u> +, +, +, +, +			Land snails +, +, +, +, wood fragments +, beetle remains ++
124	100	<10			<u>Polygonum aviculare</u> +			Coal ++, marine shell fragments +
135	101	25			<u>Ranunculus sceleratus</u> +, <u>Raphanus sp.</u> +			Wood fragments ++, land snails +
135	102	15			-	++		Cinder ++, coal ++, wood fragments ++, beetle fragments +
139	105	15			<u>Raphanus sp.</u> +, <u>Stellaria media</u> +			Unburnt bone +, wood fragments +, beetle fragments +
141	107	10			<u>Ranunculus sp.</u> +			
133	108	<10			<u>Persicaria lapithifolia</u> +, <u>Ranunculus sceleratus</u> +, <u>Persicaria</u> <u>sp.</u> +			Coal +
126	109	<10			<u>Chenopodium sp.</u> +, <u>Betula sp.</u> +	++		
142	110	10			<u>Urtica urens</u> +, <u>Persicaria lapithifolia</u> +, <u>Polygonum aviculare</u> +, +, <u>Ranunculus sceleratus</u> +, +, +, <u>Juncus effusus</u> +, +, +, +	+		Coal ++, land snails +

Key: + =
rare, ++ =
occasional,
+++ =
common
and ++++ =
abundant
* = sufficient
sized
charcoal for
identification
and AMS
dating

Underlined = not charred

