Reports from the Environmental Archaeology Unit, York 97/25, 69 pp.

# Archaeological excavations at Layerthorpe Bridge and in Peasholme Green, York (site code: 1996-7.345): assessment of the interpretative potential of biological remains

by

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#### **Summary**

Samples and bones from deposits of Roman to modern date revealed in two trenches excavated in advance of major works at the Layerthorpe Bridge, and in Peaseholme Green, York, have been assessed for their potential in post-excavation analysis. Preservation of material by anoxic waterlogging was generally good and often excellent, especially in the Anglo-Scandinavian, medieval and 19th century levels. Providing the dating can be confirmed, the bioarchaeological material has potential in addressing a variety of questions. Plant and insect remains from Anglo-Scandinavian and medieval deposits suggest that the river edge was used for polluting activities such as retting flax and for tanning. The site may also have potential for research into differential patterns of residuality in bioarchaeological and artefactual materials.

**Keywords:** Layerthorpe Bridge; York; assessment; Roman; Anglo-Scandinavian; medieval; early modern; plant remains; invertebrates; insects; molluscs; bone; retting; tanning

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#### Introduction

Excavations and a watching brief were undertaken by Malton Archaeological Projects Ltd. at Layerthorpe Bridge, York (NGR SE 60855209) during 1996 and 1997 in association with work for City of York Council to realign the existing river bridge and create a series of new road junctions. The site has also been referred to as 'Fossbank' and 'Foss Bridge'. Two trenches were excavated: Trench 1 (two areas, Contexts 1000-2999) was opened in deposits under the present river bed immediately to the north-west of the existing bridge, and Trench 2 (Contexts 3000+) was immediately under the pavement Peaseholme Green along the street frontage of the King's Pool development site. Some handcollected bone from the 'watching brief' undertaken during this project is also considered.

A variety of General Biological Analysis samples, bulk-sieved residues, site-riddled samples (GBA, BS, and SRS respectively sensu Dobney et al. 1992), 'spot' samples, and hand-collected bone were all submitted for an assessment of their biological potential. The following material was used for this assessment:

- Bone: 17 boxes of bone (13 were 50cm x 22cm x 22cm, and four were 58cm x 33cm x 33 cm, giving a total of 504 litres)
- 8 SRS residues
- 27 BS residues
- 30 GBAs (34 were examined and subsamples from 30 of these were processed)
- 7 SPOTs examined/processed

For the deposits from Trench 1, questions to be addressed relate to the development and exploitation of the Foss and to aspects of the river regime (topics including river levels, rates of flow, water quality, waste disposal, economic exploitation of the river itself, and land use and activity on the river banks). The deposits encountered in Trench 2 were mostly of Roman date; biological remains might be expected to offer some insight into activity and land use close to the Foss at this early date.

### Methods

## Sediment samples

The selection of material for assessment was based on inspection in the laboratory and information supplied by the excavator. A description of the lithology of all the selected GBA samples was recorded using a pro forma. Subsamples of between one and three kilogrammes were processed from each sample for extraction of macrofossil remains, following procedures of Kenward et al. (1980; 1986). The flots, washovers, and residues resulting from processing were examined for their content of plant and invertebrate macrofossils. Notes were made of the quantity of fossils and principal taxa present. The spot samples were initially inspected and subsamples processed if necessary.

The BS samples were processed on site using 1 mm aperture mesh and a 500 :m aperture washover sieve, and the SRS samples were processed through 9 mm aperture mesh. The wet residues were examined in the laboratory and notes on the principal components made.

#### Vertebrate remains

Material from 72 of the 157 bone-bearing contexts was recorded in detail; subjective records were made of preservation, angularity (i.e. the nature of the broken surfaces) and colour, whilst

quantities and identifications were noted where appropriate. All fragments not identified to species or species group were recorded as 'unidentified'. These included skull, vertebra, rib and shaft fragments and various other elements. Material from the remaining 85 contexts were scanned and brief notes were made on bones of use for biometrical and age-at-death analysis. Table 3 shows the number of contexts scanned or recorded by area and by date. Bone was recorded from deposits where there were more than five identifiable recovered fragments or where interesting additional species were present.

## **Results**

Details of the nature of the sediments, and the results obtained from analyses of plant and invertebrate macrofossils, are presented in Table 1. The results of examination of the BS and SRS residues are presented in Table 2. A full list of taxa recorded from the deposits is given in Table 7, whilst Tables 8-11 present lists of plant and insect remains and some statistics for the insect groups.

#### Vertebrate remains

In the following discussion, the hand-collected vertebrate assemblage is considered by type of intervention (i.e watching brief and excavation) and by each separate area excavated (i.e. Trenches 1 and 2). The range of identified species recovered from excavations at Foss Bank is shown in Tables 4-6, together with the total numbers of fragments, numbers of measurable bones and numbers of mandibles with teeth *in situ*.

Examination of the residues from the BS and SR samples provided little additional information, as there were very low concentrations of vertebrate remains (see Table 2). Fish and bird bones were only noted in a few instances, whilst no small mammal remains were observed.

#### Trench 1, Area 1 (Table 4)

In total, 13 bone-bearing contexts from this

trench were recorded, most being dated broadly to the medieval period. Vertebrate remains were well preserved and mostly dark brown or brown in colour. A small number of fragments from Contexts 1024 and 1026 showed rounded edges, whilst a few of those from Context 1047 were rather battered in appearance. Cattle and caprovid remains predominated, with a few pig, dog, chicken and goose fragments also present. Evidence for very small cattle was provided by a single mandible (Context 1026) and a cranial fragment with horncore attached (Context 1038). Both bones represented individuals, but of a size smaller than that of the Dexter cattle in the EAU modern comparative collection. Goat remains were identified from three contexts (1027, 1038 and 1039) and included two horncores, a cranial fragment (with horncore removed) and a metacarpal.

The remains showed heavy and systematic butchery, particularly noticeable being the longitudinal splitting of cattle long bones. Cattle mandibles were also heavily chopped, both across the diastema and through the ascending ramus, the latter cut almost certainly intended to facilitate the removal of the tongue. Context 1039 (medieval) contained a number of scorched and/or burnt teeth and mandible fragments. Another common phenomenon, seen throughout the material from this area, was evidence for the deliberate removal of the occipital and parietal portion of many of the caprovid skulls, presumably for access to the brain. In addition, there were a small number of sheep and goat horncores sawn through their bases, and most of the caprovid crania showed evidence of horn removal (horncores had also been removed from several of the few cattle crania recovered). The unidentifiable fraction was mainly composed of cattle cranial and mandible fragments, although a few vertebra, rib and shaft fragments were also present.

# Trench 1, Area 2 (Table 5)

Bones from thirty-two contexts were recorded and 11 groups were scanned. Although most

were of Anglo-Scandinavian and broadly medieval date, a small assemblage which was apparently of Roman date was also recovered. Most of the material was well preserved, and very similar in character to that from Area 1. Most fragments were 'spiky' (i.e. showing sharp broken edges) but almost all the deposits for which material was recovered contained a small number of fragments which were rather rounded, whilst a few contained some battered and eroded bones (always less than 10%). Over half of the context assemblages contained dark brown fragments, and many other bones were mainly or partly dark brown in colour. Deposits from Contexts 2037 and 2038 contained bone which appeared slightly more battered and eroded than that from other contexts in this area. Additionally, bones from Context 2003 were of rather mixed appearance, showing marked variability of colour and preservation. The four Roman contexts contained bone which was similar in appearance to that of later date, showing no marked difference in preservation, colour or 'angularity'. Context 2191 (Roman), however, did contain two human bones, which may have been redeposited material.

Cattle and caprovids were again the best represented species throughout all periods. Although a range of elements was present in the assemblages from this area, it was clear that horncores, mandible fragments, teeth and limb elements predominated, distal particularly in the later periods. Other species present included horse, pig, dog, and cat, with limited numbers of chicken and goose fragments (mainly from deposits of medieval date). Small numbers of goat remains were recovered, including three metacarpals and a single metatarsal (from Contexts 2002, 2189, 2190 and 2191) and four horncores (Contexts 2002, 2011 and 2131). In addition, several very large ram horncores were also recovered (most, once again, having been chopped through the base). Fragments of red deer (Cervus elaphus) antler were identified from Contexts 2004 and 2006, one showing traces of scorching at the base of the tine.

Heavy and systematic butchery was noted throughout the material from Area 2 and, on

the whole, similar butchery practices to those inferred from the material from Area 1 were implied; cattle longbones and cattle and caprovid crania had been split longitudinally. Additionally, a single cow scapula was recorded which showed damage consistent with having been hung from a butcher's hook.

#### Trench 2 (Table 6)

Vertebrate remains from 25 contexts were recorded, whilst those from 74 further contexts were scanned. Most of the bone recovered from Trench 2 was Roman in date. The recorded material was mostly fawn in colour (in 17 of 25 contexts), and preservation was recorded as 'fair' to 'good'. Most deposits (with few exceptions) contained only small numbers of bones—less than 35 fragments per context. Dog gnawing was noted, as was butchery, but appeared to be less extensive than that recorded from Trench 1. However, split metapodials were noted in some of the Roman contexts (3006, 3082 and 3142). Although goose and chicken fragments were not numerous, they were apparently more frequent from Trench 2 than Trench 1. A single goat metacarpal was identified from Context 3004, whilst deposits from Context 3174 produced a cranial fragment from a polled variety of sheep. Of some interest are the remains of rabbit (from Context 3022) and fallow deer (Context 3033), identified from what were apparently deposits of Roman date, although the presence of fragmented and disarticulated human remains from Contexts 3174 and 3183 may suggest the presence of some intrusive material. Although it was difficult to gain an overall view of the material from Trench 2, a result of the small number of fragments from each context, the assemblage did not appear to be very similar to that from Trench 1.

# Watching brief

A small quantity of material was recovered during the period of the watching brief, exclusively from Trench 1. Context 41 (?Anglo-Scandinavian), not surprisingly,

contained material similar to that from other deposits of Anglo-Scandinavian and medieval date from Trench 1. Cattle and caprovids were again represented by mandibles, metapodials and phalanges, whilst the effects of butchery (including evidence of the removal of the back of the skulls and the presence of horncores chopped from the skull) were also evident. Material from Context 6 represented part of a skeleton of a cow of extremely modern appearance (the remains were mostly ribs and vertebrae).

## **Discussion and statement of potential**

Biological remains preserved by anoxic waterlogging were abundant in some samples and present in most, although generally sparse in the deposits of Roman date from Trench 2. Bone was widely present but usually in low concentrations. Snail and freshwater bivalve shells were sometimes noted.

Plant and invertebrate remains were often extremely well preserved and for many contexts had clear potential for the reconstruction of the depositional regime and the characterisation of dumped waste material.

The Roman/Romano-British material was of variable quality but that from Trench 1 included assemblages with the potential to provide information about dumping and conditions in the river. However, the "?Late Roman' contexts from this trench yielded some hints of a later, perhaps Anglo-Scandinavian, date (particularly the record of clubmoss from Context 2189). One context from the material from Trench 2 offered evidence for very decayed human faecal material, and any similar deposits sampled from this trench are deserving of further analysis as a source of information about diet, waste disposal and hygiene.

The Anglo-Scandinavian deposits were notable for having in many cases a high proportion of tree bark fragments (and in two cases 'several' *Trox scaber* (see below) and assemblages of fruits and seeds with a large number of weed taxa and few aquatics,

suggesting they formed on land rather than in water. The single 'Early Medieval' deposit examined via a GBA subsample gave a much stronger aquatic component amongst the invertebrates and was notable for a tentatively identified fragment of clubmoss which suggests an Anglo-Scandinavian date. Peatland taxa were often quite frequent; they perhaps originated with heather brushwood.

assemblages of Medieval plants and invertebrates suggested the continuation of dumping. In a number of cases there were abundant bark fragments, and Trox scaber was sometimes numerous. Some deposits had a much clearer component of remains from aquatic organisms and acid peatland was again represented (in one case some burnt ?peat was noted). Remains of seeds and capsule fragments of flax were frequently recorded and one group of samples contained stems which are very likely to be of this plant, probably indicating retting in the river.

In the deposits dated to the Early Modern (C19th) period, aquatic organisms were much more abundant and terrestrial plants and invertebrates mostly sparse. This phase of deposition presumably reflects the control of river level in the Foss by the lock downstream near the confluence with the Ouse.

There are strong suggestions that this part of York was used for foul activities not likely to be tolerated elsewhere and requiring a water supply. The tentatively identified stems of flax probably represent the activity of retting in which bundles of mature stems are steeped in a pond or river for some days in order to rot the soft tissues which surround the fibres. The stench produced by retting was notorious enough in the past to require control of the activity by local statutes (see, for example, the discussion by Keene 1982).

The evidence for tanning is less direct. The large quantities of bark fragments (and the sclereids representing decay of such material, Table 1) gives the suspicion that the material was being employed for some purpose, since there was usually very little wood present with it. Much the most likely process to have

required bark in bulk is tanning (taken here to represent the steeping of hides in pits or vats with tree bark). Support for this come from a somewhat surprising direction. The beetle Trox scaber was present in 30 of the samples from this site, at a frequency of 3.6 per sample present. Five samples contained 'several' individuals and one 'many', on the semi-quantitative scale used for recording. This contrasts with the record from Anglo-Scandinavian 16-22 Coppergate (Kenward and 1995 and Kenward, unpublished Hall database). Although T. scaber was present in a large proportion of the samples, there were only three cases where three individuals were noted and five where four were found, the rest being ones or twos and the mean number of individuals per sample where the beetle was present was 1.2. Thus T. scaber was significantly more abundant at the present site than at Coppergate.

T. scaber is a scavenger now typically associated with birds' nests but sometimes found in habitats created by human activity. It is possible that it sometimes built up populations in piles of old bones or skins, and at the present site, bearing in mind the presence of large quantities of comminuted bark, it may be that tanning is indicated (though any supporting evidence from vertebrate remains is lacking (see below). The area excavated might well have been far enough away from centres of (politically powerful) population to be an acceptable location for such a vile-smelling activity, too.

Examination of larger insect assemblages should clarify this; other species likely to be associated with vile material should be sought, as should their larvae. Similarly, systematic analysis of the plant remains (including a more detailed examination of the bark fragments) may shed further light on this question.

This is the first time that such direct evidence for an area devoted to tanning has been detected in York. Five sites have yielded medieval or post-medieval assemblages of sheep limb bones which have been interpreted as waste from hide preparation: 118-126 Walmgate (O'Connor 1984), 148 Lawrence

Street (Carrott *et al.* 1994), North Street (Dobney and Jaques 1993), St Andrewgate (Carrott *et al.* 1993) and The Bedern (Hamshaw-Thomas, in press). Confirmation would represent a significant contribution to our understanding of zonation in medieval York. As an aside, it is worth mentioning that although other sites, particularly that at 6-8 Pavement (Lloyds Bank; Addyman and Hall 1991; Hall *et al.* 1983), have provided ample evidence of leather working, the precursor stage (tanning) has not been located.

Other questions to be addressed by further study of the plant and invertebrate remains from this site include determining in more detail the material being dumped during the Anglo-Scandinavian and medieval periods. There is evidence from house fauna that some of it came from buildings, but of what kind and of what function? The first impression is of waste from lowly buildings or even stables, but in the earliest periods of the medieval (Anglo-Scandinavian and immediately post-Conquest) the distinction between homes and stabling and the like will be harder (but not impossible) to make from dumps.

Water quality in the Foss at some stages should be determinable where the excavated deposits are fluviatile, although it will be important to separate the local aquatic fauna and flora from that carried to the site from less polluted places upstream (the associated with clean flowing water, surely was). A brief attempt might be made to establish whether any of the ostracods are pollution- or salt-tolerant forms, the latter to test for possible tidal influence, but recommendation of a more detailed study of this group cannot perhaps be justified at this stage.

The excavations at Layerthorpe Bridge yielded moderate-sized assemblages of well preserved animal bone of Roman, Anglo-Scandinavian and medieval date. Material from Trench 1, from all three major periods, appeared extremely similar in terms of preservation and range of species and skeletal elements represented. This assemblage, with its high proportion of heads and distal limb elements,

is more likely to be primary butchery waste than hide preparation (although some possible direct evidence for tanning has been discussed, see above), and may suggest that the slaughter of domestic livestock (primarily cattle) and initial carcase preparation were being undertaken in the vicinity, the river edge being used as a convenient place for disposal.

Deposits revealed in Trench 2 produced a small quantity of bone that was mainly Roman in date. Although some of the features were described by the excavator as dumps and pit fills, no large-scale dumping of bone was apparent. Butchery was noted on the bone from this trench but was not as systematic or as extensive as that recorded from Trench 1.

The apparent homogeneity of the material from Trench 1 should perhaps cause some doubt concerning chronology of the deposits suggested by examination of the artefacts. The potential for further detailed analysis of the whole assemblage very much depends upon the production of a much more rigorous and well-defined dating framework, since detailed questions concerning the material can only be posed within such a framework. Even then, the moderate size of this assemblage, the history of its deposition, and the narrow range of material recovered, all limit the scope of the research questions that can be addressed.

Well-dated Roman, Anglo-Scandinavian and medieval material from the present site would add an additional corpus of information to that previously published and excavated. Here, comparisons should be made with data from other York sites-the Roman material from Tanner Row (O'Connor 1988) and Wellington Row (Carrott et al. 1995), and the Angloassemblages from Scandinavian Coppergate (O'Connor 1989), 22 Piccadilly (ABC Cinema site, Carrott et al. 1995), and North Street (Dobney and Jaques 1993). Medieval comparanda from York should include data from post-Conquest 16-22 and O'Connor. in Coppergate (Bond preparation), The Bedern (Hamshaw-Thomas, in press) and Norman Court (Berg, unpublished).

If the chronological framework cannot be further refined by conventional means, the vertebrate remains, in conjunction with other bioarchaeological and finds assemblages, could be used to address questions of residuality through typological and AMS dating and detailed recording of preservational condition.

#### Recommendations

One imperative for further bioarchaeological work on the deposits from this site is the need for an accurate dating framework, supported by strategic AMS dates; it will be particularly essential to establish the extent of residuality throughout the sequence and the site may be a suitable one for research into problems of residuality.

We recommend that funding be provided for a full programme of further analysis of plant and invertebrate macrofossils from all well-dated deposits, particularly to address questions concerned with water quality, the nature of dumped material and industrial use of the river margins at some periods. Dating of the last of these is important.

All well-dated hand-collected vertebrate remains should be recorded in detail from both Trenches 1 and 2. Particular attention should be paid to recording skeletal element distribution and butchery practices. All relevant biometrical and age-at-death data should be collected.

Should further, more detailed analysis of stratigraphy and artefacts indicate that the deposits from which the rabbit and fallow deer remains were recovered are definitely of Roman date, then these remains would be of some interest, since both fallow deer and rabbit are generally accepted to have been introduced into this country during the post-Conquest period. It would therefore be extremely important to establish whether or not these remains were intrusive, by the use of radiocarbon dating.

In the event of the need to address the question of residuality, detailed quantitative recording of preservational characteristics (e.g. for the bone, surface changes, fragmentation and colour) should be undertaken on material from a selection of the deposits. This would only prove beneficial if a similar approach was used for other finds assemblages from the same deposits. Some detailed geomorphological and micro-morphological analyses would also be needed, as well as obtaining a series of targeted AMS radiocarbon dates on a range of bioarchaeological remains.

# **Resources required**

A substantial programme of analysis and the commissioning of a series of AMS dates will have considerable implications for cost. An estimate of the time and resource requirements and their financial implications will be provided separately when required.

It should be borne in mind that there are numerous unprocessed GBA samples which in many cases will have as much potential as the subset of about 20% examined in this assessment.

#### **Retention and disposal**

All extracted fossils (including all vertebrate remains), as well as the flots, washovers and residues from processed samples, and all unprocessed material should be retained for the present, awaiting decisions concerning further analysis.

#### **Archive**

All material is currently stored in the Environmental Archaeology Unit, University of York, along with paper and electronic records pertaining to the work described here.

## Acknowledgements

The authors are grateful to Malton Archaeological Projects Ltd for providing the material and archaeological information and to English Heritage for enabling KD, AH and HK to work on this material.

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Table 1. Results of assessment of plant and invertebrate macrofossils from samples from Layerthorpe Bridge, York. Key: A/S: Anglo-Scandinavian; Med.: Medieval; R: Roman; R/RB: Roman/Romano-British. Under 'Priority': I = invertebrates; M = plant remains; P0 = no remains; P1..3 = high..low priority; L = indicates cases where a larger subsample would be needed for a study of the invertebrate macrofossil remains).

Period	Context type	Context	Sample	Sample type	Wt (kg)	Description	Comments	Priority
R/RB	basal pit fill	3077	156	GBA	1	Moist, mid, slightly greyish brown, crumbly (working crumbly and locally plastic), angular concretions (to 40 mm) in a silty matrix.	Most of the rather large residue comprised very decayed flaky highly calcareous concretions. There was no doubt that these were faecal in origin (although no parasite eggs were noted in a 'squash' from a subsample of concretion), and with them were mineralised casts or moulds of corncockle seed fragments (likely to have been a grain and therefore flour contaminant) and mineralised seeds and fruitstone material of <i>Prunus</i> and mineralised seeds of apple. The moderately large numbers of mineralised fragments of rat-tailed maggots ( <i>Eristalis tenax</i> ) also point to the foul nature of the pit fill during its formation.  The only invertebrates were 'several' mineralised Eristalinae larvae (rat-tailed maggots') and some earthworm egg capsules.  The small number of bone fragments recovered from this sample were rather battered and eroded. A few of the fragments showed acid etching and three of the herring ( <i>Clupea harengus</i> ) vertebrae had a 'squashed' appearance, characteristic damage consistent with passage through the gut.	I: P0 M: P2
R/RB	dump with charcoal and bone	3178	185	GBA	2	Just moist, light to mid grey/brown, crumbly, locally plastic (working plastic), slightly sandy, silty clay. Internally lightmid brown to light orange/brown layers. Locally more clayey. Some clay inclusions mottled grey/brown. Charcoal and brick/tile were abundant.	The small residue was of sand and gravel with abundant brick/tile; the small washover was of charcoal. Once again, at least one duckweed thallus was recorded, along with water-plantain 'embryos' (cf. Sample 160 from Context 3069).  Bone was represented by single fragments of bird and amphibian.	M: P3
?Late R	?	2189	296	GBA	2	Moist, mid grey/brown, crumbly and fissile, slightly humic, silty sand. Local patches of almost pure, light brown sand and ?rotted	Bark formed the largest single component of the moderate-sized residue, with some sand and gravel and a fairly rich assemblage of identifiable plant remains. Heather was represented by trace amounts of a number of parts (buds, capsules, flowers, seeds, and shoot fragments, all uncharred), and there were several mosses which may well have originated on bark or from woodland floor	I: LP1 M: P1

Period	Context type	Context	Sample	Sample type	Wt (kg)	Description	Comments	Priority
						organic matter. Vivianite present.	habitats. Seeds represented weed taxa of various kinds, and there were a few taxa likely to have come from grassland or to have grown close to water or in a damp ditch, for example. Flax seeds and capsule fragments were again recorded and there were traces of stem fragments of the clubmoss <i>Diphasium complanatum</i> .  There was a modest aquatic and waterside component amongst abundant invertebrates; a clear occupation site component, probably including house fauna; no grain pests or <i>Tipnus</i> , so perhaps post-Roman? Need larger subsample to pursue both date and ecological implications. A single <i>Valvata piscinalis</i> was recorded; this species is a catholic freshwater snail.	
?Late R	?	2191	311	GBA	1	Moist, mid-dark grey, with a yellowish cast, just consolidated (working unconsolidated), humic sand. Variations in humic and sand content on cm and mm scale. Inclusions present: stones (2-60 mm), brick/tile, vivianite, wood, twigs, horncore, oyster.	The moderately large residue was about 70% by volume organic matter, with very decayed bark and a little wood forming the bulk of this fraction. Seeds were generally sparse but quite well preserved; only annual nettle ( <i>Urtica urens</i> ) achenes were abundant, though some other weed taxa were present in modest concentrations. Many of the taxa present—rather over one third—were the same as in the sample from 2189.  A few aquatic invertebrates, probably a strong waterside component in Carabidae; clear occupation site group including house fauna; several puparia. Larger subsample required.  A further single <i>Valvata piscinalis</i> was recorded.	I: LP1 M: P2
A/S	?	2131	280	GBA	1	Moist, dark grey/brown, crumbly (working soft), moderately humic, slightly silty sand. Locally more grey and more brown. Moss, bone, and stones (6-60 mm) present.	there was about 20% by volume of sand. Wood fragments present were often	I: LP1 M: P2

Period	Context type	Context	Sample	Sample type	Wt (kg)	Description	Comments	Priority
							material and its likely origin, through larger subsample.	
A/S	?	2160	287	GBA	1	Moist, dark grey/brown, crumbly (working slightly plastic locally), humic, silty sand to sandy silt. Stones (6-60 mm) present. Rare coarse herbaceous detritus. Twigs with cut edge present.	Charcoal and sand made up the largest components of the residue (which was examined dry). Uncharred identifiable plant remains were sparse but well preserved. Amongst these were some very small charred fragments of leaf which appeared to be saw-sedge ( <i>Cladium mariscus</i> ), perhaps most likely to have been used for thatching and subsequently burnt deliberately or accidentally (charred nutlets of this plant were also present). The charred grass/cereal culm and culm-nodes present in the sample could also originate in burnt thatching material. Many of the other charred remains mixed with uncharred material in this sample might have come from the same source, incidentally (from plants accidentally collected with thatching material).  Invertebrates almost all terrestrial; some occupation site fauna and hints of open ground/waste places. Larger subsample should clarify origins.	I: LP1 M: P1
A/S	?river deposit	999 [no context number given at time of sampling]	271	GBA	1	Moist, black, crumbly, fine and woody herbaceous detritus with lenses (to 20 mm) of light-mid grey sand. A few twigs were noted.  (N.B. Context no. not assigned during excavation)	This subsample yielded a very large residue which, on standing for some days between initial processing and examination for plant remains 'bled' a reddish leachate. The residue was found to consist largely of bark fragments up to 60 mm (some may have been 'chips'), with much bast (from the layer immediately beneath the bark) and a trace of wood. the few identifiable plant remains included three mosses which may have been corticoles (bark-growing) types but otherwise the identifiable material was sparse (though well preserved) and of little interpretative value.  Invertebrate remains were quite abundant and predominantly typical occupation site fauna (only a trace of aquatic or waterside fauna). There were several <i>Trox scaber</i> and some fleas and lice, these parasites indicating dumps of material	I: LP1 M: P2
							from within structures. Larger subsample desirable.	
A/S	organic deposits from ?channel	2178	292	GBA	1	Moist, dark grey/brown (locally light-mid grey/brown), crumbly and layered internally in places, (working plastic), very humic, sandy silt. Fine herbaceous detritus locally. Charcoal (to 15 mm) and 6-60 mm stones present.	Charcoal was the largest single component of the large residue, with moderate amounts of very decayed bark and wood fragments (including 'chips') and traces of a wide range of uncharred seeds and moss shoot fragments (the mosses were very typical of early medieval assemblages in York, being a mixture of taxa from bark, woodland floor and heathland/bog habitats). Various parts of the heather plant were present, as were leaves of cross-leaved heath and a variety of weeds; seeds and capsule fragments of flax were recorded, as were traces of stem fragments of clubmoss, seeds of the salt-marsh plant sea arrow-	I: LP1 M: P1

Period	Context type	Context	Sample	Sample type	Wt (kg)	Description	Comments	Priority
							grass (Triglochin maritima) and wheat/rye 'bran'.	
							Quite large numbers of invertebrates; strong indications of house fauna, and a dumped component was certainly present. Significant numbers of aquatics. Larger subsample would clarify nature of material and depositional regime.	
							Three small fragments of bone were present including a caprovid third phalanx.	
?A/S	?dump into river	38	17	GBA	1	Moist, dark brown, crumbly, very humic, sandy silt with occasional patches (< 1 cm) of grey sand. Small stones (2-6 mm) were present.	Most of the small residue comprised very decayed bark fragments (up to 10 mm in maximum dimension) with some sand and a trace of gravel; sclereids, no doubt from the bark, were frequent in the tiny flot. The identifiable plant remains (which were dilute and often rather fragmentary) were rather mixed in their origins and no one group emerges as especially well represented.  Few invertebrate remains; a larger subsample would be unlikely to produce	I: P3 M: P2
							useful assemblage.	
?A/S	river deposit/d ump	40	19	GBA	1	Moist, mid to dark grey, crumbly (working just plastic), humic, slightly sandy silt. There were also patches of light grey/brown sand and almost pure, grey silt. Small stones (2-6 mm) and bone were present.	Much of the residue comprised charcoal and very decayed bark (up to 10 mm); seeds were sparse and their preservation moderately good. A variety of habitats was indicated by the identifiable remains: waste ground and cultivated land, aquatic environments and perhaps also grassland, heathland and woodland (though plants representing almost any of these may have originated in materials discarded into the river. Traces of wheat/rye 'bran' perhaps point to food waste or even faecal material being amongst this rubbish. Once again, flax seeds and capsule fragments were present.	I: LP1 M: P1
							Small beetle assemblage, aquatics and traces of occupation site fauna; a few plant feeders. Other invertebrates had limited potential. Much larger subsample might clarify origins; is there a dumped component?	
							For the bone, a single herring ( <i>Clupea harengus</i> ) vertebra was recorded. Twelve were unidentifiable, four of them being burnt.	
?A/S	river deposit/d ump	41	27	GBA	1	Moist, dark grey brown, very crumbly, very humic, sandy silt. Locally more brown and more grey. Charcoal, very decayed wood, mammal and fish bone	Very decayed bark formed the major component of the rather small residue (along with some wood) and the flot appeared to consist largely of tiny 'frass' from wood or bark. The moderately frequent sclereids in the finer fractions were no doubt from bark. The rather few identifiable plant remains present included traces of charred flowers and uncharred flowers and shoot fragments	I: P3 M: P2

Period	Context type	Context	_	Sample type	Wt (kg)	Description	Comments	Priority
						were all present.	of heather and of some kind of charred root or rhizome; these might all be from burnt turves, for example. There was also a trace of charred wheat grains, not identifiable beyond the appellation 'hexaploid' (i.e. probably spelt or bread wheat).	
							Invertebrate remains were rare; only a very large subsample might provide an interpretable group.	
							Bone was represented by thirteen unidentifiable fragments, a few of which were burnt.	
Early Med.	brushwoo d fill	2030	286	GBA	1+ 0.27	Moist, mid brownish/grey, crumbly (working plastic locally), slightly silty sand with patches of fine black twigs and locally silty clay sand. Twigs abundant, leather present, stones (6-20mm) present.	The small amounts of material in the flot and residue were mainly fine herbaceous detritus and gave the impression of the presence of 'grassy' material; there were certainly moderate numbers of uncharred grass caryopses. The only other remains present in more than trace amounts were shoot and root/twig fragments of heather (flowers and leaves were also present). A tentatively identified stem fragment of clubmoss was recorded from this subsample.	I: LP1 M: P1
							Substantial invertebrate assemblage, but rather mixed ecological character. Aquatic/waterside component strong; source of occupation site fauna not clear (?primary dump or redeposited by water). Larger subsample would allow useful analysis of both major components.	
							Also spot sample (0.27 kg), examined to check the nature of the fine twigs visible in the sandy matrix; they were uncharred shoots and root/twig material of heather.	
Med.		4	6	SPT	0.05	Dark grey humic sandy silt with patches of fresh-looking yellowish herbaceous plant detritus.	A very small subsample disaggregated and the residue examined briefly. The small residue consisted largely of the very fresh-looking plant detritus; it had the appearance of recently deposited dead plant material but with the seeds a mixture of very well preserved and rather thin-walled types. There was no clear indication from the identifiable remains for the nature and origin of the plant remains; there was a mixture of weeds and waste ground plants, some grassland taxa and a single fig seed.	-

Period	Context type	Context	Sample	Sample type	Wt (kg)	Description	Comments	Priority
Med.	?river silt	14	48	GBA	2	Moist, light grey to very dark brown to black, crumbly, very humic, sandy silt with patches of sand and patches of yellow mineral deposition and abundant 20-60 mm sized stones.	This subsample yielded much organic detritus, the coarse fractions mostly very decayed bark (the finer fractions contained moderate numbers of sclereids (thick-walled lignified cell clusters) no doubt derived from it). The few seeds present were moderately well preserved and mostly represented weeds of waste places and cultivated land. There were traces of charred and uncharred ?heather twig/root fragments.  The small group of invertebrates included a few aquatics (caddis cases and <i>Daphnia</i> ephippia) and terrestrial insects; of the latter, there were 'several' <i>Trox scaber</i> , making further analysis desirable.	I: LP1 M: P2
Med.	?river silt	15	49	GBA	1	Moist, varicoloured sediment: light brown, to light yellow/brown, to light-mid grey. Texture was also varied: stiff (working plastic) clay, thixotropic silty sand, and crumbly sand. Coal was present, and large stones were abundant.	Very little material from the subsample examined failed to pass the 300 :m sieve; the residue was of sand and gravel, the flot contained some bark sclereids, rootlets and a few seeds of little interpretative value.  Invertebrates were rare and of various origins; a much larger subsample might produce an interpretable group.	I: LP2 M: P3
Med.	?river silt	16	52	GBA	1	Moist, very dark brown, crumbly and slightly brittle, very humic, silty sand with burnt mammal bone and 6-20 mm sized stones present, and abundant wood fragments.	Much of the large residue comprised bark and wood fragments (including wood chips), up to 70 mm in the case of the wood, and 15 mm in the case of the bark; with these there was a moderate amount of sand. Amongst the identifiable plant remains, sedge nutlets, fat hen seeds and stinging nettle achenes were the only types present in more than trace amounts; the assemblage as a whole mainly comprised weeds of waste places and cultivated land, but there were a few plants suggestive of fen or marsh and tentatively identified charred and uncharred root/twig fragments of heather. The wood chips, whose largest dimension was about 10 mm, were well preserved, being pale in colour but very firm.  A substantial and diverse group of beetles and various other invertebrates was	M: P2
							recorded. A clear foul decomposer group was present, and there were numerous beetle larvae and 'several' <i>Trox scaber</i> . A sheep ked <i>Melophagus ovinus</i> was noted from the residue.	
Med.	?river silt	1029	79	GBA	2	Moist, mid-dark grey brown, just	Very decayed wood and charcoal formed the principal components of the small	I: LP1

Period	Context type	Context	Sample	Sample type	Wt (kg)	Description	Comments	Priority
						consolidated, and soft (working crumbly), humic, sandy silt. Very rotted wood, charcoal, stones (6- 20 mm), vivianite, and yellow flecks were present.	residue though there were reasonably large numbers of identifiable remains, especially nutlets of knotgrass, <i>Polygonum aviculare</i> (many of which had been 'holed') and several other weeds of waste places and disturbed ground. Also present in more than trace amounts were charred root/twig fragments tentatively identified as heather, and securely determined charred flowers and shoot fragments of the same plant.	M: P2
							The small group of invertebrates included 'several' Trox scaber, suggesting that a large subsample should be examined.	
Med.	?river silt	1031	84	GBA	2	Moist, dark brown, crumbly, humic, silty sand to sandy silt with abundant patches of light brown fine sand.	Much of the small residue was very decayed bark with some sand and a little gravel. Though low in concentration, identifiable plant remains were mostly well preserved. As in the sample from Context 1029, there were charred (and uncharred) remains of heather and in this case also charred leaves of cross-leaved heath ( <i>Erica tetralix</i> ). Most of the other remains were weeds or plants with little interpretative value.	I: LP1 M: P2
							Invertebrates were rare, although there were three <i>Trox scaber</i> .	
							Most of the bone (28 fragments) was unidentifiable, those identified included amphibian and herring ( <i>Clupea harangues</i> ) remains. All the fragments were small (<20 mm); 2 were burnt.	
Med.	(?river) silt below wattle	1033	68	GBA	2	Wet, light to mid grey with an almost pinky, yellowish cast, just plastic, sandy silt. Variations in sand content gave heterogeneity on a mm/cm scale. Various inclusions were present: stones (6-20 mm), ?burnt soil, ?ash, charcoal, and bone.	About two-thirds of the residue comprised sand and gravel, the remainder very decayed wood and bark (more bark than wood); there were few identifiable remains and preservation was often rather poor—some specimens being eroded and more or less decayed. They added little to the interpretation of the deposit.  A small mixed group of invertebrates included 'several' earthworm egg capsules and two <i>Trox scaber</i> .  Only 2 unidentifiable bone fragments were recovered.	I: LP1 M: P3
Med.	organic deposit	1039	90	GBA	1	Waterlogged, dark brown, crumbly (working soft to slightly plastic), very humic silt to silty amorphous organic sediment with	The small residue was mostly organic material, including very decayed bark; seeds were sparse and preservation varied from moderately good to good. The finest fractions appeared to be mostly 'frass' from the bark. There were moderate numbers of flax capsule fragments.	I: LP1 M: P3

Period	Context type	Context	Sample	Sample type	Wt (kg)	Description	Comments	Priority
						woody herbaceous detritus locally.	Beetles and abundant fly puparia in the quite large insect assemblage indicated foul conditions; there were 'several' <i>Trox scaber</i> .	
Med.	clay/clay silt E of wattle	1047	95	GBA	3	Moist, mid grey/brown, crumbly to slightly sticky (working just plastic), sandy clay to clay sand. Other colours ranged from bright red/orange to light blue grey (mmcm scale). Bone was present.	Both the residue and washover from this subsample were small and sand was the only component present in more than very small amounts. A modest range of weed taxa was present amongst the identifiable remains (which were often rather eroded) and they represented fairly diverse origins with no one group predominant. The presence of fragments of seeds of corncockle, black bindweed and knapweed/cornflower might be consistent with material derived from milled grain (these are common grain contaminants) but none was abundant.  Invertebrates were present in small numbers; a <i>much</i> larger subsample might clarify their probable origin and implications but the remaining sample may be too small.  A single pig maxillary molar was recorded.	P: LP2 M: P3
Med.	clay E of wattle	1052	117	GBA	1	Moist, dark grey/brown, locally dark brown, crumbly (working soft), humic, sandy silt to silty amorphous organic sediment. Part of the sample consisted of light grey sandy silt with vivianite flecks. Wood was also present.		I: LP1 M: P2
Med.	?river deposit	2004	132, 133	SPT	-	132: This spot sample consisted of bundle of stems which were probably flax in a matrix of sand, as in the samples from Contexts 2003 and 2005.  133: Three fragments of wood all		

Period	Context type	Context		Sample type	Wt (kg)	Description	Comments	Priority
						identified as oak (Quercus).		
Med.	?river deposit	2005	136, 137	SPT	-		of the same material—plant (probably flax) stems in a sand matrix—as in 36 also contained flax capsule fragments.	M: P1
Med.	pit fill	3169	184	GBA	2	Moist, mid grey/brown, stiff, locally crumbly (working plastic), slightly sandy, slightly silty, clay. Varicoloured buff to light orange/brown. Local patches of very plastic light grey/brown mottled clay. Stones (2-20 mm) present, brick/tile present, charcoal common.	The small residue of sand, gravel, charcoal and brick/tile contained one identifiable plant macrofossils taxon: elderberry seeds.  The only invertebrate represented was a single earthworm egg capsule.	I: P0 M: P3
Med.	?river silt	1032 1033	85	GBA	1	Moist, mid greyish-brown just consolidated, soft (working crumbly), humic, silty sand, with some ash and charcoal.	The moderate-sized residue was mostly of very decayed bark, the finest fraction being rich in 'frass' like material probably derived from this. There were very few identifiable plant remains—no seeds were noted from the residue at all.  Invertebrates were rare and of no obvious significance.	I: LP3 M: P3
?Med.	?river deposit	2003	147	SPT	0.1	Light-mid grey-brown slightly silty coarse sand with fibrous plant stem fragments visible on broken surfaces.	The small residue consisted of sand and plant stem fragments; the later were mainly devoid of their outer layers, some were branched. With them were flax seeds and capsule fragments and it seems very likely that the stems are of flax, too (some epidermis fragments were examined and strongly resembled published illustrations of this plant). Also present in the sample were identifiable remains of a modest range of plants from various likely sources; they included wheat/rye 'bran' and charred 'heather root/twig fragments.	M: P1
?Med	?ditch fill	2023	206	GBA	1	Moist, dark brown, crumbly, very humic, silty sand. Locally mid grey/brown. Patches of pure mid grey/brown sand. 20-60 mm stones present.	The rather large residue was mostly very decayed bark (to 20 mm) with some wood and charcoal, as well as grit and sand. Identifiable remains were rather sparse but preservation was mostly quite good. Heather was certainly present (as was cross-leaved heath, the two perhaps from burnt turves), and there were seeds and capsule fragments of flax; also present were traces of very decayed stems of the clubmoss <i>Diphasium complanatum</i> recorded throughout Anglo-Scandinavian York.	I: LP1 M: P1

Period	Context type	Context	Sample	Sample type	Wt (kg)	Description	Comments	Priority
							Invertebrates were present in modest numbers, with numerous fly puparia and hints of a house fauna component.	
?Med.	pit fill	3069	160	GBA	2	Moist, light to mid grey/brown, sticky (working plastic and sticky), slightly sandy, slightly silty clay. Varicoloured buff to mid brown to fawn. Patches of very plastic, light brown, grey mottled clay. Brick/tile common, charcoal present.	The residue was small and consisted of angular brick/tile and sand; there were traces of three plant taxa, all likely to have originated in aquatic or waterside habitats (water-plantain 'embryos', rush seeds and duckweed, the last represented by at least one thallus; the duckweed would have lived on the surface of a pond, lake or river).  There were no invertebrate remains.	I: P0 M: P3
Early Mod.	?river silt	18	41	GBA	2+1	Moist, mid to dark brown, brittle (working plastic), humic clay silt. Freshwater molluscs were present.	(Separate 1 kg subsample processed specifically to examine molluscs)  Both flot and residue consisted mainly of herbaceous plant detritus and the identifiable taxa were primarily aquatic and waterside or wet ditch plants: those present in more than trace amounts were fool's watercress ( <i>Apium nodiflorum</i> ), yellow water-lily ( <i>Nuphar lutea</i> ), fine-leaved water-dropwort ( <i>Oenanthe aquatica</i> ), celery-leaved crowfoot ( <i>Ranunculus sceleratus</i> ) and great yellowcress ( <i>Rorippa amphibia</i> ). Other taxa must have originated in vegetation on land near the river; they included seeds and capsule fragments of flax ( <i>Linum usitatissimum</i> ).  Invertebrates were immensely abundant and indicated a variety of habitats. Aquatics and waterside species were numerous and included insects, snails, ostracods and cladocera. Foul matter was indicated by beetles and fly puparia, and there was a trace of house fauna. Numerous earthworm egg capsules were present. The very small assemblage of freshwater and waterside molluscs included <i>Succinea</i> sp. and several opercula of <i>Bithynia</i> .	I: P1/LP1 M: P1
Early Mod.	?river silt	19	45	GBA	2	Moist, black, oxidising to mid grey brown, slightly crumbly (working plastic), sulphide rich, humic silt. Rootlets (?ancient) were common and molluscs were present.	Preservation of plant remains in the small residue and flot was good though much of it was unidentifiable herbaceous detritus; notable were fibrous remains which might have been from decayed flax stems (flax seed fragments were present and capsule fragments moderately common). All the other more frequent identifiable remains are likely to have originated in weeds of waste ground and cultivated land or plants from disturbed river banks, or in waterside or aquatic vegetation (there was a distinctive component of taxa from biennial and perennial nitrophile weed communities typically found on river banks, by	I: LP1 M: P1

Period	Context type	Context	Sample	Sample type	Wt (kg)	Description	Comments	Priority
							paths and hedges, and in other unshaded and somewhat disturbed habitats, especially <i>Reseda luteola</i> and <i>Marrubium vulgare</i> , but also <i>Conium</i> , <i>Malva</i> and <i>Arctium</i> ). Also present were a few remains likely to have come from heathland habitats: heather, cross-leaved heath and perhaps also the moss <i>Leucobryum glaucum</i> (although it also grows in woodland).  Invertebrates were abundant, with numerous fly and beetle immature stages. Aquatics were well represented and included <i>Daphnia</i> ephippia. Traces of house fauna were noted and there was a single <i>Oryzaephilus surinamensis</i> , the only grain pest from the site. There were some freshwater and waterside snails including <i>Bithynia tentaculata</i> , a single <i>Succinea putris</i> and a few fragments of planorbids.	
Early Mod.	?river silt	20	38	GBA	2	Moist, mid grey brown, crumbly (working sticky, and plastic when wet), clay silt. Flecks of yellow and orange mineral deposits, which may be oxidised organic material, were also noted.	Four fish bones were recovered, but none could be identified to species.  A very small amount of material failed to pass the sieve and most of what was retained comprised undisaggregated sediment. The rather few seeds recorded (mainly from the flot) were from plants likely to have grown in or near a wet ditch or the banks of the river but are not of much interpretative value in isolation.  There were modest numbers of invertebrates, but the assemblage was ecologically mixed. A larger subsample might permit clarification of their implication.	I: LP2 M: P3
Early Mod.	?river silt	1024	73	GBA	1+1	Moist, mid slightly greyish brown (internally black), plastic, soft, and sticky, clay silt to silty clay. Large stones (>60 mm) were present and freshwater molluscs were common.	(Separate 1 kg subsample processed specifically to examine molluscs)  There was a rather low concentration of identifiable plant remains in the small residue (which consisted largely of gravel and undisaggregated fine sediment). But the predominance of aquatic and waterside taxa was clear—both amongst the plants and the invertebrates. The former included seeds of hornworts ( <i>Ceratophyllum</i> ), duckweeds ( <i>Lemna</i> ), yellow water-lily, and pondweed ( <i>Potamogeton</i> ), the latter, abundant opercula of the freshwater gastropod <i>Bithynia tentaculata</i> , as well as shells of the brackish water gastropod <i>Hydrobia</i> sp., and bivalves <i>Pisidium</i> and a freshwater mussel, other freshwater molluscs, caddis larva cases, and the bryozoan <i>Lophopus crystallinus</i> . Terrestrial material included flax seeds and capsule fragments, a small range of weeds and waste	I: LP2 M: P1

Period	Context type	Context	Sample		Wt (kg)	Description	Comments	Priority
							ground taxa and a single fig seed. Identifiable plant remains were sparse but well preserved.  Invertebrate remains were abundant, although beetles only moderately so; aquatics were numerous. The terrestrial component probably included material from occupation deposits, but whether the fauna was dumped or of a background origin was not clear.  Three unidentifiable fragments of bone were present, one was burnt.	
?		not rec. on site	75	GBA	2	Moist, light to mid yellowish grey, sandy clay silt with mm scale yellow flecks and variation in the organic content on a cm scale. Bone, molluscs, and brick/tile were present. Stones (6-20 mm and 20-60 mm) were also noted.	A large number of plant taxa were noted during examination of the small residue; they appeared to consist of a mixture primarily of aquatics (whose seeds were rather worn) and weeds (in a much better state of preservation); the implication of this might be that the deposit was a dump of terrestrial material containing aquatics previously abstracted from the river and redeposited into it secondarily. Apart from some seeds of plants quite likely to have grown on moist (and perhaps disturbed) soils near the river, all the taxa were present in very small amounts. The biennial/perennial nitrophile weed community represented in the material from context 19 was again present here and there were a few plants which might have originated in grassland or even in cut vegetation from such a habitat. The coarser organic fraction of the residue was mostly very decayed bark and wood, both no larger than 10 mm.  There were appreciable numbers of aquatic and waterside molluscs (including <i>Bithynia tentaculata</i> , <i>Valvata piscinalis</i> , <i>Succinea ?oblonga</i> , small freshwater bivalves and fragments of shell of freshwater mussels), ostracods and aquatic and waterside beetles; some house fauna; some terrestrial outdoor species. Numerous insect immatures. Larger subsample would probably clarify if dumped component present.	I: LPI M: PI

Table 2. Results of assessment of BS and SRS residues from Layerthorpe Bridge, York

Period	Context type	Context	Sample	Total Weight processed	Comments
Roman/Romano-British	pit fill	3005	143-146	39 kg	The small residues were mostly brick/tile (to 70 mm) with a little bone, charcoal, and pottery.
Roman/Romano-British	pit fill	3006	149-152	37 kg	Four very small residues mostly of gravel with a little brick/tile; one of the small washovers was examined in more detail; it was found to contain small ?heather root/twig charcoal and elder seeds. Traces of bone (mostly burnt, including shaft of chicken), wood/twigs/roots, and ?leather were all noted from the residues.
Roman/Romano-British	pit fill	3007	169-170	21 kg	The small residues consisted of brick/tile to 80 mm, with some bone to 100 mm (mostly chopped cattle fragments) and a little charcoal and pottery; the tiny washovers contained a little more charcoal.
Roman/Romano-British	basal pit fill	3077	157-159	27.5 kg	Mostly faecal concretions. Stone, brick/tile, fishbone, and amphibian bone present. Much of the bone was very fragmented, with some bones showing acid etching (characteristic damage consistent with passage through the gut).
Roman/Romano-British	pit lining	3078	154 and 155	22 kg	The small residues were mostly brick/tile and gravel with a little amphibian, fish and mammal bone and pottery; the tiny washovers were of fine charcoal with traces of fish vertebrae.
Roman/Romano-British	dump	3082	172-176	56.5 kg	The small residues consisted mainly of brick/tile with some pottery and bone; the tiny washovers were of fine charcoal and were not examined closely.
Roman/Romano-British	dump deposit	3100	178-181	43 kg	The small residues were mostly brick/tile with a little pottery, large bone (some burnt), shellfish, pottery and gravel; the washovers were very small and comprised charcoal.
Roman/Romano-British	dump with charcoal and bone	3178	186-189	36.5 kg	The small residues were mostly of pottery and brick/tile, with some large bone (some burnt), small bone, bird bone, and ?burnt peat; the small washovers consisted mainly of charcoal. Both burnt bone and burnt oyster shell fragments were also recorded from the residues.
?Anglo-Scandinavian	?dump into river	38	11-16 and 18	total 59.5 kg	The residues from these samples were small and consisted mainly of wood (?also bark) mostly no larger than 10 mm. There were traces of oyster shell, charred grain, nutshell, brick/tile and a few pebbles. Large bone fragments were quite numerous, many showing evidence of butchery.

?Anglo-Scandinavian .	river deposit/dump	40	20 and 22	18.5 kg	The residues were mainly grit and gravel with some bone, whilst the washovers were largely very decayed bark. Large bone, brick/tile, shellfish, wood/twigs, nutshell and burnt bone were all present in small quantities. Mollusc present in washover.
?Anglo-Scandinavian	river deposit/dump	41	23, 25 and 26	25 kg	The small residues contained modest amounts of large bone and very decayed bark and wood, with a trace of oyster shell.
?Anglo-Scandinavian	?river deposit	2037	247-250	45.5 kg	The small residues were of cobbles and gravel with some bone, brick/tile and charcoal; the small washovers of plant detritus were not examined further at this stage.
?Anglo-Scandinavian	?river deposit	2037	246 (SRS)	134 kg	This sample produced a large residue of cobbles, some brick/tile, large bone (few burnt) and traces of pottery.
?Anglo-Scandinavian	silts over clay bank	2038	253-256	40.5 kg	The small residues mainly consisted of small (< 10 mm) wood fragments and gravel with some burnt bone; one of the moderately large washovers (from 253) consisted mainly of wood fragments <4 mm and a mixture of weeds of disturbed places and cultivated land (and especially land with impeded drainage, ditches and the like). Traces of heathland plant remains were also present.
Anglo-Scandinavian	clay bank make-up or river deposit	2065	259-262	42 kg	The small residues were mostly charcoal and angular gravel; the small washovers were of uncharred plant detritus, probably fine woody material. Large bone (including chopped cattle skull), trace of brick/tile, shellfish, wood/twigs, and a trace of bird bone were also present in the residues.
Anglo-Scandinavian	top part of clay bank	2087	265-268	44 kg	The small residues were mostly rounded pebbles with traces of rather abraded brick/tile and pottery, shellfish and a trace of burnt bone; the tiny washovers were of herbaceous detritus (not examined further at this stage).
Anglo-Scandinavian	top part of clay bank	2087	263 (SRS)	117 kg	Mostly large cobbles and pebbles with some bone.
?Medieval	?river deposit/dump	2006	209-212	55 kg	The small residues from these samples were mostly gravel (including cobbles) with some small wood fragments and a little large bone, bird bone, fish bone, pottery, charcoal and shell. The washover from one sample (209, weight originally processed 14 kg) was examined in more detail and yielded a rich diversity of remains in very small amounts: weeds of waste ground, cultivated land, mosses from a variety of terrestrial habitats, plants likely to have been growing on river banks and by tracks, perhaps some heathland plants, aquatics and some probable foodplants, including apple 'core' and wheat/rye 'bran'. The only taxa present in more than trace amounts were flax seeds and capsule fragments and stinging nettle achenes. Some freshwater and marine invertebrate remains were noted: <i>Cristatella</i> statoblasts, <i>Daphnia</i> ephippia,

					bivalve periostracum, oyster shell and snails.
?Medieval	?river deposit	2013	193-196	40 kg	These samples yielded small residues with some oyster and freshwater mussel shell and wood fragments. Stone, brick/tile, pottery, oyster shell and charcoal, were all present. Large bone included two split cattle metatarsals.
?Medieval	?river deposit	2013	197 (SRS)	104 kg	The residue was largely cobbles, charcoal and oyster shell. A moderate quantity of large bone (some burnt) was present, which included cattle, caprovid and pig fragments.
?Medieval	pit fill	3067	166-167	19 kg	The small residues were mostly brick/tile (to 70 mm) with a little charcoal, large bone (some burnt), small bone and pottery (including green-glazed), coal and cinder; the tiny washovers appeared to be of charcoal.
?Medieval	pit fill	3069	161-164	48.5 kg	The residues were mainly of brick/tile (with a little large bone, fish otolith, oyster shell, pottery, charcoal, coal, cinder and gravel); the tiny washovers were of fine charcoal.
Medieval	?river silt	1031	63, 65 and 66	32 kg	There were small residues and moderate-sized washovers from these samples; the latter were mainly very decayed bark with charcoal. Bone included a few bird and fish fragments, traces of burnt bone were also present.
Medieval	(?river) silt below wattle	1033	69-72	51 kg	The small residues from these samples were mostly very decayed bark with some bone and traces of shell and brick/tile. Bone includes goat horncore chopped at base, and a cow phalanx and teeth.
Medieval	organic deposit	1039	91-94	32.5 kg	The small residues were mostly of very decayed bark with a little wood, similarly very rotted; also present were traces of pebbles and large bone.
Medieval	clay/clay silt E of wattle	1047	96-99	58 5 kg	The small residues were mainly pebbles, cobbles and other gravel, with a little large bone and brick/tile.
Medieval	clay E of wattle	1052	118-121	36.5 kg	The small residues were mainly of very decayed bark with some bone and gravel; the washovers were rich in small decayed bark fragments.
Medieval	channel deposit	2018	217 (SRS)	96 kg	The residue from this sample was composed mainly of cobbles, with traces of wood, brick/tile, pottery, oyster shell and charcoal. A ?dog coprolite was also noted. Moderate quantities of large bone was present, including cattle and caprovid skull and metapodial fragments.
Medieval	channel deposit	2019	216 (SRS)	93 kg	The small residue was mostly cobbles, with traces of charcoal and brick/tile and large bone (some burnt).

Medieval	?	2020	218 (SRS)	145 kg	This moderate-sized residue was mainly cobbles, with traces of brick/tile, pottery and charcoal. The few bone fragments were rather rounded, some being burnt and/or scorched.
Medieval	?channel deposit or ditch fill	2022	220 (SRS)	27 kg	The small residue was mostly charcoal and small wood fragments, with traces of brick/tile and large bone.
Medieval	channel deposit	2025	221 (SRS)	127 kg	This sample produced a small residue, mostly composed of cobbles, with traces of charcoal, brick/tile and pottery. Large bone was present, including the remains of cattle, caprovid and pig. Some burnt fragments were noted.
Medieval	pit fill	3169	183	9 kg	There was a very small residue of brick/tile with a little pottery, gravel and bird and fish bone (gadid); the small washover was of charcoal.
Early Modern	dump behind revetment	10	6 and 7	total 18.5 kg	There were two moderate-sized residues from these samples. They were rich in oyster valves (mostly whole and unabraded); with them was some brick/tile (to 140 mm maximum dimension) and a little glass, pottery, bone, mussel shell and clay pipe fragments.
Early Modern	?river silt	1003	32, 33 and 36	23 kg	The very small residues were mostly herbaceous plant detritus with freshwater and waterside gastropod and freshwater mussel shell fragments and a few brick/tile fragments and cobbles. The washovers contained herbaceous detritus likely to have originated largely in aquatic and waterside plants, since the identifiable plant remains included a variety of taxa from such habitats. terrestrial material was also present, represented by a few probable arable or waste ground weeds but also capsule fragments of flax. Amongst the mollusc material, the following were noted: <i>Succinea putris</i> , <i>Bithynia tentaculata</i> , <i>Valvata</i> sp. and planorbids. Fly puparia and fish bone and scales were also noted.

Table 3. Number of recorded and scanned contexts (containing bone) by trench and by date from Layerthorpe Bridge, York.

Area/trench		nch 1 ng brief)	Trench 1, Area 1		Trench 1	l, Area 2	Trench 2		
Date	No. recorded	No. scanned	No. recorded	No. scanned	No. recorded	No. scanned	No. recorded	No. scanned	
?		1							
?Roman						2	2		
Roman					4		18	54	
?Anglo- Scandinavian	1				2				
Anglo- Scandinavian					5	2			
?medieval			2		3	1	4	10	
medieval		1	10		18	6		8	
?post-medieval							1	1	
post-medieval								1	
early modern			1						
modern	1								
Total	2	2	13	0	32	11	25	74	

Table 4. Hand-collected vertebrate remains from Trench 1, Area 1, from Layerthorpe Bridge, York.

			?medieval			medieval		early modern		
Species		No. fragments	No. measurable	No. mandibles	No. fragments	No. measurable	No. mandibles	No. fragments	No. measurable	No. mandibles
Canis f. domestic	dog	1	-	-	-	-	-	1	1	-
Sus f. domestic	pig	2	-	1	4	1	1	-	-	-
Bos f. domestic	cattle	40	8	4	121	17	14	2	2	-
Caprovid	sheep/goat	21	11	5	77	18	24	-	_	-
<i>Anser</i> sp.	goose	-	-	-	2	1	-	-	-	-
Gallus f. domestic	chicken	-	-	-	1	1	=	=	-	=
cf. <i>Gallus</i> f. domestic	?chicken	-	_	_	1	-	_	-	_	_
Sub-total		64	19	10	206	38	39	3	3	-
Unidentifiable		117	_	_	275	_	-	17	_	-
 Total		181	19	10	481	38	39	20	3	0

Table 5. Hand-collected vertebrate remains from Trench 1, Area 2, from Layerthorpe Bridge, York. Abbreviations: frags—fragments; mands—mandibles; meas—measurable.

			Roman	l	?A	Anglo-Sca	and	A	nglo-Sca	nd		?mediev	al		medieva	ıl
Species		No. frags	No. meas	No. mands	No. frags	No. meas	No. mands									
Canis f. domestic	dog	-	-	-	1	-	1	-		-	-		-	7	4	1
Felis f. domestic	cat	=	-	-	3	-	1	4	1	-	-	-	-	3	-	1
Equus f. domestic	horse	15	2	-	-	-	-	1	-	-	1	-	-	9	2	-
Sus f. domestic	pig	4	1	-	2	_	-	7	_	-	3	1	-	21	2	1
Cervus elaphus L.	red deer	-	-	-	-	-	-	-	-	-	1	-	-	1	-	-
Bos f. domestic	cattle	39	11	2	87	13	9	133	24	12	80	17	8	304	76	23
Caprovid	sheep/goat	20	14	3	27	5	9	83	25	25	17	9	1	143	56	33
Anser sp.	goose	-	_	_	-	-	-	-	-	-	-	-	-	4	2	-
cf. Anser sp.	?goose	-	-	-	-	_	-	-	_	-	1	_	-	-	-	-
Gallus f. domestic	chicken	2	2	-	1	1	-	1	1	-	-	-	-	2	2	<u> </u> -
Fish	fish	-	-	-	-	-	-	-	-	-	1	-	-	1	-	-
Homo sapiens	human	2	-	-	-	-	-	-	-	-	-	-	-	-	-	_
Sub-total		82	30	5	121	19	20	229	51	37	104	27	9	495	144	59
Unidentified bird		-	_	_	-	-	-	1	-	-	-	-	-	_	_	
Unidentified		83	-	-	175	-	-	295	-	-	104	-	-	663	-	-
Sub-total		83	-	-	175	-	-	296	-	-	104	-	-	663	144	59
Total		165	30	5	296	19	20	525	51	37	208	27	9	1158	144	59

Table 6. Hand-collected vertebrate remains from Trench 2 from Layerthorpe Bridge, York.

			?Roman			Roman		?medieval		
Species		No. frags	No. meas	No. mands	No. frags		No. mands	No. frags	No. meas	No. mands
Oryctolagus cuniculus (L.)	rabbit	-	-	-	1	-	-	-	-	1
Canis f. domestic	dog	-	-	-	6	1	1	-	-	-
Felis f. domestic	cat	-	-	-	1	-	-	-	-	-
Equus f. domestic	horse	-	-	-	3	2	-	-	_	-
Sus f. domestic	pig	1	-	-	13	-	1	-	_	-
Dama dama (L.)	fallow deer	-	-	-	2	1	-	-	1	i
Bos f. domestic	cattle	6	2	=	65	7	3	2	1	-
Caprovid	sheep/goat	4	1	-	36	9	5	6	-	-
Anser sp.	goose	1	1	-	7	1	-	5	3	-
cf. Gallus f. domestic	?chicken	-	-	-	0	-	-	1	_	-
Gallus f. domestic	chicken	1	1	-	12	8	-	2	2	-
Fish	fish	-	-	-	2	-	-	2	-	-
Homo sapiens	human	-	-	-	1	_	-	1	-	-
Sub-total		13	5	=	149	29	10	24	6	-
Unidentified bird		-	-	-	1	-	-	-	-	-
Unidentified		38	-	-	331	-	-	38	_	=
Sub-total		38	-	-	332	-	-	38	-	-
Total		51	5	0	481	29	10	62	6	0

Table 7. Complete list of plant and animal remains recorded from deposits at Layerthorpe Bridge, York. Order and nomenclature for plants follow Tutin et al. (1964-80 and Smith 1978, and for insects Kloet and Hincks (1964-77).

#### **PLANTS**

cf. *Diphasium* sp(p). (?clubmoss) [shoot fragment(s)]

Diphasium complanatum (L.) Rothm. (complanate clubmoss) [shoot fragment(s)]

cf. Pteridium aquilinum (L.) Kuhn (?bracken) [stalk fragment(s)]

Coniferae (conifer) [charcoal fragment(s)]

Salix sp(p). (willow) [bud(s), fruit(s)]

*Betula* sp(p). (birch) [fruit(s)]

Corylus avellana L. (hazel) [charred and uncharred nut(s) and/or nutshell fragment(s)]

Quercus sp(p). (oak) [bud(s) and/or bud-scale(s)]

Ficus carica L. (fig) [seed(s)]

cf. Cannabis sativa L. (?hemp) [mineralised achene(s)]

*Urtica dioica* L. (stinging nettle) [achene(s)]

*U. urens* L. (annual nettle) [achene(s)]

Polygonum aviculare agg. (knotgrass) [fruit(s)]

P. hydropiper L. (water-pepper) [fruit(s)]

P. persicaria L. (persicaria/red shank) [fruit(s)]

P. lapathifolium L. (pale persicaria) [fruit(s)]

P. amphibium L. (amphibious bistort) [fruit(s)]

Bilderdykia convolvulus (L.) Dumort. (black bindweed) [fruits, fruit fragment(s), mineralised fruit(s)]

Rumex acetosella agg. (sheep's sorrel) [fruit(s)]

R. cf. maritimus L. (?golden dock) [fruit(s)]

Rumex sp(p). (docks) [charred and uncharred fruit(s); perianth segment(s)]

Chenopodiaceae (goosefoot family) [seed(s)]

Chenopodium Section Pseudoblitum (red goosefoot etc.) [seed(s)]

C. polyspermum L. (all-seed) [seed(s)]

C. murale L. (nettle-leaved goosefoot) [seed(s)]

C. album L. (fat hen) [seed(s)]

Atriplex sp(p). (oraches) [seed(s)]

Stellaria media (L.) Vill. (chickweed) [seed(s)]

Cerastium sp(p). (mouse-ear chickweeds) [seed(s)]

Scleranthus annuus L. (annual knawel) [fruit(s)]

Spergula arvensis L. (corn spurrey) [seed(s)]

Agrostemma githago L. (corncockle) [charred and uncharred seeds, uncharred seed fragment(s), and mineralised casts/moulds of seed fragment(s)]

Silene vulgaris (Moench) Garcke (bladder campion) [charred and uncharred seed(s)]

Nymphaea alba L. (white water-lily) [seed(s)]

Nuphar lutea (L.) Sibth. & Sm. (yellow water-lily) [seed(s)]

Ceratophyllum demersum L. (rigid hornwort) [fruit(s)]

Ceratophyllum sp(p). (hornworts) [fruit(s)]

Ranunculus Section Ranunculus (meadow/creeping/bulbous buttercup) [achene(s)]

R. sardous Crantz (hairy buttercup) [achene(s)]

R. sceleratus L. (celery-leaved crowfoot) [achene(s)]

R. flammula L. (lesser spearwort) [achene(s)]

R. Subgenus Batrachium (water crowfoots) [achene(s)]

Fumaria sp(p). (fumitories) [seed(s)]

Descurainia sophia (L.) Webb ex Prantl (flixweed) [seed(s)]

Rorippa amphibia (L.) Besser (great yellow-cress) [seed(s)]

R. islandica (Oeder) Borbás (northern marsh yellow-cress) [seed(s)]

Capsella bursa-pastoris (L.) Medicus (shepherd's purse) [seed(s)]

Coronopus squamatus (Forskål) Ascherson (swine-cress) [fruit(s) and seed(s)]

Brassica rapa L. (turnip) [seed(s) and seed fragment(s)]

Brassica sp(p). (cabbages, etc.) [seed(s)]

Brassica sp./Sinapis arvensis (brassica/charlock) [seed(s), seed fragment(s) and mineralised cotyledon(s)]

Raphanus raphanistrum L. (wild radish) [pod segments and/or fragment(s)

Reseda luteola L. (weld/dyer's rocket) [seed(s)]

Rubus fruticosus agg. (blackberry/bramble) [seed(s)]

R. caesius L. (dewberry) [seed(s)]

Rubus/Rosa sp(p). (blackberry, etc./rose) [prickle(s)]

Agrimonia eupatoria L. (agrimony) [fruit(s)]

Potentilla anserina L. (silverweed) [achene(s)]

P. cf. erecta (L.) Rauschel (?tormentil) [achene(s)]

P. cf. reptans L. (?creeping cinquefoil) [achene(s)]

Potentilla sp(p). (cinquefoils, etc.) [achene(s)]

Malus sylvestris Miller (crab apple) [endocarp, mineralised seed(s)/embryo(s), seed(s)]

Crataegus sp./Prunus spinosa (hawthorn/sloe) [thorn(s)]

Prunus spinosa L. (sloe) [charred and uncharred fruitstone(s), thron(s)]

P. domestica ssp. institia (L.) C. K. Schneider (plums, etc.) [fruitstone(s)]

P. Section Cerasus (cherries) [fruitstone(s)]

*Prunus* sp(p). (sloe/plum/cherry, etc.) [mineralised mesocarp and endocarp]

Leguminosae (pea family) [flower(s) and/or petal(s), pod(s) and/or pod fragment(s)]

*Vicia* sp(p). (vetches, etc.) [charred seed(s)]

Linum usitatissimum L. (cultivated flax) [capsule fragment(s), seeds, seed fragment(s), stem fragments with epidermis]

Acer campestre L. (field maple) [fruit(s) (samara(e))]

Malva cf. sylvestris L. (?common mallow) [nutlet(s)]

*Malva* sp(p). (mallows, etc.) [nutlet(s)]

*Viola* sp(p). (violets/pansies, etc.) [seed(s)]

Myriophyllum verticillatum/spicatum (whorled/spiked water-milfoil) [nutlet(s)]

*Hydrocotyle vulgaris* L. (marsh pennywort) [mericarp(s)]

Scandix pecten-veneris L. (shepherd's needle) [mericarp(s)]

Oenanthe lachenalii C. G. Gmelin (parsley water-dropwort) [mericarp(s)]

O. fluviatilis (Bab.) Coleman (water-dropwort) [mericarp(s)]

O. aquatica (L.) Poiret in Lam. (fine-leaved water-dropwort) [mericarp(s)]

Aethusa cynapium L. (fool's parsley) [mericarp(s)]

Conium maculatum L. (hemlock) [mericarps, mericarp fragment(s)]

Apium nodiflorum (L.) Lag. (fool's watercress) [mericarp(s)]

Pastinaca sativa/Heracleum sphondylium (wild parsnip/hogweed) [mericarp(s)]

Heracleum sphondylium L. (hogweed) [mericarp(s)]

Daucus carota L. (wild carrot) [mericarp(s)]

Umbelliferae (carrot family) [mericarp(s)]

Erica tetralix L. (cross-leaved heath) [charred and uncharred leaf/leaves]

E. cinerea L. (bell heather) [leaf/leaves]

Calluna vulgaris (L.) Hull (heather, ling) [bud(s), capsule(s), charred and uncharred flower(s), charred and uncharred shoot fragment(s), leaves, root and/or twig fragment(s), seed(s), shoot tip(s) and twig fragment(s)]

cf. Calluna vulgaris (L.) Hull (?heather, ling) [charred and uncharred root and/or twig fragment(s)]

Anagallis arvensis L. (scarlet pimpernel) [seed(s)]

Menyanthes trifoliata L. (bogbean) [seed(s)]

Myosotis sp(p). (forget-me-nots) [nutlet(s)]

Marrubium vulgare L. (white horehound) [nutlet(s)]

Galeopsis Subgenus Galeopsis (hemp-nettles) [nutlet(s)]

Lamium Section Lamiopsis (annual dead-nettles) [nutlet(s)]

Stachys sp(p). (woundworts) [nutlet(s)]

Nepeta cataria L. (cat-mint) [nutlet(s)]

Prunella vulgaris L. (selfheal) [nutlet(s)]

Atropa bella-donna L. (deadly nightshade) [seed(s)]

Hyoscyamus niger L. (henbane) [seed(s)]

Solanum nigrum L. (black nightshade) [seed(s)]

Veronica beccabunga-type (brooklime/water/marsh speedwells) [seed(s)]

Odontites verna (Bellardi) Dumort. (red bartsia) [seed(s)]

Plantago major L. (greater plantain) [seed(s)]

Sambucus cf. ebulus L. (?danewort) [seed(s)]

Sambucus nigra L. (elder) [charred and uncharred seed(s); seed fragment(s)]

Dipsacus sativus/fullonum (fuller's/wild teasel) [fruit(s)]

*Knautia arvensis* (L.) Coulter (field scabious) [fruit(s)]

*Bidens* sp(p). (bur-marigolds) [achene(s)]

Anthemis cotula L. (stinking mayweed) [charred and uncharred achene(s)]

Chrysanthemum segetum L. (corn marigold) [achenes and achene fragment(s)]

cf. Senecio sp(p). (?groundsels/ragworts, etc.) [achene(s)]

Arctium sp(p). (burdocks) [achene(s), involucral bract(s)/hook(s)]

Carduus/Cirsium sp(p). (thistles) [achene(s)]

Onopordum acanthium L. (Scotch thistle) [achene(s)]

*Centaurea* sp(p). (knapweeds, etc.) [achenes, achene fragment(s)]

*Hypochoeris* sp(p). (cat's ears) [achene(s)]

*Leontodon* sp(p). (hawkbits) [achene(s)]

Sonchus asper (L.) Hill (prickly sow-thistle) [achene(s)]

Sonchus oleraceus L. (sow-thistle) [achene(s)]

Sonchus sp(p). (sow-thistles) [achene(s)]

*Lapsana communis* L. (nipplewort) [achene(s)]

Sagittaria sagittifolia L. (arrow-head) [carpel(s)]

Alisma sp(p). (water-plantains) [carpel(s) and/or seed(s)]

Triglochin maritima L. (sea arrowgrass) [carpel(s)]

Potamogeton sp(p). (pondweeds) [pyrene(s)]

Juncus sp(p). (rushes) [seed(s)]

Juncus inflexus/effusus/conglomeratus (hard/soft/compact rush) [seed(s)]

J. cf. gerardi Loisel. (?mud rush) [seed(s)]

J. bufonius L. (toad rush) [seed(s)]

Gramineae (grasses) [waterlogged caryopsis/es]

Gramineae/Cerealia (grasses/cereals) [charred caryopsis/es, charred culm fragment(s), charred culm node(s)]

Cerealia indet. (cereals) [charred caryopsis/es and charred chaff fragment(s), mineralised caryopsis/es]

cf. Glyceria sp(p). (?sweet-grasses) [caryopsis/es]

Triticum sp(p). (wheats) [charred caryopsis/es]

*Triticum/Secale* (wheat/rye) [waterlogged periderm fragments]

cf. Secale cereale L. (?rye) [charred caryopsis/es]

Hordeum sp(p). (barley) [charred caryopsis/es]

Avena cf. sativa L. (?cultivated oat) [charred spikelet(s)/spikelet fragment(s)]

Avena sp(p). (oats) [charred caryopsis/es]

cf. Avena sp(p). (?oats) [charred chaff]

*Lemna* sp(p). (duckweeds) [frond(s), seed(s)]

Sparganium sp(p). (bur-reeds) [fruit(s)]

Scirpus cf. maritimus L. (?sea club-rush) [nutlet(s)]

 $S. \ maritimus/lacustris \ (sea club-rush/bulrush) [nutlet(s)]$ 

S. lacustris sensu lato (bulrush) [nutlet(s)]

Eleocharis palustris sensu lato (common spike-rush) [nutlet(s)]

Cladium mariscus (L.) Pohl (great sedge/saw-sedge) [charred leaf fragment(s), charred and uncharred nutlet(s)]

Carex sp(p). (sedges) [charred and uncharred nutlet(s)]

Mosses (all leaf/leaves and/or shoot fragment(s))

Sphagnum sp(p).

*Polytrichum* sp(p).

Dicranum sp(p).

Leucobryum glaucum (Hedw.) Ångstr.

Aulacomnium palustre (Hedw.) Schwaegr.

*Ulota* sp(p).

Leucodon sciuroides (Hedw.) Schwaegr.

Antitrichia curtipendula (Hedw.) Brid.

Neckera crispa Hedw.

N. complanata (Hedw.) Hüb.

Thuidium cf. tamariscinum (Hedw.) Br. Eur.

Cratoneuron filicinum (Hedw.) Spruce

cf. Campylium sp(p).

Campylium stellatum (Hedw.) Lange & Jens.

*Drepanocladus* sp(p).

Scorpidium scorpioides (Hedw.) Limpr.

Calliergon cuspidatum (Hedw.) Kindb.

Isothecium myurum Brid.

I. myosuroides Brid.

Homalothecium sericeum/lutescens

Pseudoscleropodium purum (Hedw.) Fleisch

Eurhynchium striatum (Hedw.) Schimp.

E. praelongum (Hedw.) Br. Eur.

Eurhynchium sp(p).

Hypnum cf. cupressiforme Hedw.

Pleurozium schreberi (Brid.) Mitt.

Hylocomium splendens (Hedw.) Br. Eur.

ANIMALS		*Eristalini sp. (larva)	W
NEMATODA		*Melophagus ovinus (L.) (puparium)	u
		*Diptera sp. (larva)	u
*?Heterodera sp. (cyst)		*Daiptera sp. (puparium)	u
AnnelidA		*Pulex irritans Linnaeus	SS
*Oligochaeta sp. (egg capsule)	u	*Siphonaptera sp. indet.	u
Crustacea		*Trichoptera sp. (case)	oa-w
*Daphnia sp. (ephippium)		oa-w	ou w
*Ostracoda sp.		Carabus spu	oa
osa <b>ucodu</b> sp.		Nebria sp.	oa
INSECTA		?Loricera pilicornis (Fabricius)	oa
*Dermaptera sp.	u	Dyschirius sp.	oa
	-	Clivina fossor (Linnaeus)	oa
Drymus sp.	oa-p	Clivina sp. indet.	oa
Anthocoris sp.	oa-p	Trechus obtusus or quadristriatus	oa
Cimicidae sp.	oa-p	Trechus micros (Herbst)	u
Saldidae sp.	oa-d	Trechus sp. indet.	ob
Corixidae sp.	oa-w	Bembidion (Peryphus) sp.	oa
Heteroptera sp.	u	Bembidion (Philochthus) sp.	oa
*Aphidoidea sp.	u	Bembidion spp.	oa
*Coccoidea sp.	u	Pterostichus melanarius (Illiger)	ob
Hemiptera sp.	u	Pterostichus sp.	ob
		Agonum sp.	oa
*?Louse s.l. sp.	u	Amara spp.	oa
-		Harpalus sp.	oa
*Diptera sp. (adult)	u	?Bradycellus sp.	oa
*Bibionidae sp.	u	Chlaenius sp.	u
*Syrphidae sp. (larva)	u	Metabletus sp.	oa
*?Scatopse notata (Linnaeus)	r	Carabidae spp. and spp. indet.	ob
t*Sphaeroceridae sp. (puparium)	rt	Haliplidae sp.	oa-w
*Sepsidae sp. (puparium)	u	Hydroporinae spp.	oa-w
*Muscidae sp. (puparium)	u	Agabus or Ilybius sp.	oa-w

Colymbetes fuscus (Linnaeus)	oa-w	Gyrohypnus sp. indet.	rt
Colymbetinae spp. indet.	oa-w	Xantholinus linearis or longiventris	rt-sf
Dytiscidae sp. indet.	oa-w	Xantholininae sp.	u
?Georissus crenulatus (Rossi)	oa-w	Neobisnius sp.	u
Helophorus spp.	oa-w	Philonthus ?politus (Linnaeus)	u
Helophorus sp. (terrestrial)	oa w	Philonthus spp.	u
Sphaeridium ?bipustulatum Fabricius	rf	Gabrius sp.	rt
Cercyon analis (Paykull)	rt-sf	Creophilus maxillosus (Linnaeus)	rt
Cercyon atricapillus (Marsham)	rf-st	Staphylininae sp.	u
Cercyon haemorrhoidalis (Fabricius)	rf-sf	Mycetoporus sp.	u
Cercyon terminatus (Marsham)	rf-st	?Bobitobius sp.	u
Cercyon convexiusculus group	oa-d	Tachyporus spp.	u
Cercyon ?ustulatus (Preyssler)	oa-d	Tachinus sp.	u
Cercyon spp. indet.	u	Cordalia obscura (Gravenhorst)	rt-sf
Megasternum obscurum (Marsham)	rt	Falagria sp.	rt-sf
Hydrobius fuscipes (Linnaeus)	oa-w	Aleochara sp.	u
Anacaena sp.	oa-w	Aleocharinae spp.	u
?Laccobius sp.	oa-w	Staphylinidae sp.	u
Hydrophilinae spp. and spp. indet.	oa-w	Pselaphidae sp.	u
Acritus nigricornis (Hoffmann)	rt-st	Trox scaber (Linnaeus)	rt-sf
Histerinae sp.	rt	Aphodius granarius (Linnaeus)	ob-rf
Histeridae sp.	u	Aphodius ?prodromus (Brahm)	ob-rf
Ochthebius sp.	oa-w	Aphodius spp.	ob-rf
Hydraena sp.	oa-w	Oxyomus sylvestris (Scopoli)	rt-sf
Limnebius sp.	oa-w	Melolonthinae/Rutelinae/Cetoninae sp.	oa-p
Ptenidium sp.	rt	Clambus sp.	rt-sf
Ptiliidae sp.	u	Cyphon sp.	oa-d
Catops sp.	u	Dryops sp.	oa d oa-d
Micropeplus fulvus Erichson	rt	Oulimnius sp.	oa-w
Acidota crenata (Fabricius)	oa	Elmidae sp.	oa-w
Lesteva longoelytrata (Goeze)	oa-d	Elateridae sp.	ob
Lesteva sp.	oa-d	Anobium punctatum (Degeer)	l-sf
Omalium caesum or italicum	rt-sf	Tipnus unicolor (P. & M.)	rd-st
Omalium rivulare (Paykull)	rt-sf	Ptinus fur (Linnaeus)	rd-sf
Omalium sp.	rt	Ptinus sp.	rd-sf
Xylodromus concinnus (Marsham)	rt-st	Lyctus linearis (Goeze)	l-sf
Omaliinae sp.	rt	Brachypterus sp.	oa-p
Coprophilus striatulus (Fabricius)	rt-st	Meligethes sp.	oa-p
Carpelimus bilineatus Stephens	rt-sf	Omosita discoidea (Fabricius)	rt-sf
Carpelimus fuliginosus (Gravenhorst)	st	Rhizophagus sp.	u
Carpelimus ?rivularis (Motschulsky)	ob-d	Monotoma spp.	rt-sf
Carpelimus sp.	u	Oryzaephilus surinamensis (Linnaeus)	g-ss
Aploderus caelatus (Gravenhorst)	rt	?Telmatophilus sp.	oa-d
Platystethus arenarius (Fourcroy)	rf	Cryptophagus ?scutellatus Newman	rd-st
Platystethus cornutus group	oa-d	Cryptophagus sp.	rd-sf
Platystethus nitens (Sahlberg)	oa-d	Atomaria spp.	rd
Anotylus nitidulus (Gravenhorst)	rt-d	Orthoperus sp.	rt
Anotylus rugosus (Fabricius)	rt	Coccinellidae sp.	oa-p
Anotylus sculpturatus group	rt	Mycetaea hirta (Marsham)	rd-ss
Anotylus tetracarinatus (Block)	rt	Lathridius minutus group	rd-st
Oxytelus sculptus Gravenhorst	rt-st	?Enicmus sp.	rt-sf
Stenus spp.	u	Corticaria spp.	rt-sf
Lathrobium sp.	u	Corticarina fuscula (Gyllenhal)	rt
Lithocharis sp.	rt	Corticarina sp.	rt
Leptacinus sp.	rt-st	Aglenus brunneus (Gyllenhal)	rt-ss
Gyrohypnus fracticornis (Muller)	rt-st	?Tenebrio obscurus Fabricius	rt-ss
Gyrohypnus punctulatus (Paykull)	rt-st	Anthicus formicarius (Goeze)	rt-st
· · · · · · · · · · · · · · · · · · ·		v '	

Anthicus sp.	rt	MOLLUSCA	
Bruchinae sp.	u	Valvata piscinalis (Müller)	
?Macroplea sp.	oa-w	Bithynia tentaculata (Linnaeus)	
Donaciinae spp.	oa-w-p	Planorbis sp. (sensu lato)	
Gastrophysa viridula (Degeer)	oa-p	Succinea putris (Linnaeus)	
Phaedon sp.	oa-p	Succinea sp. indet.	
Phyllodecta sp.	oa-p	•	
Chrysomelinae spp.	oa-p	PISCES	
Phyllotreta nemorum group	oa-p	Clupea harengus L.	herring
Longitarsus sp.	oa-p	Anguilla anguilla (L.)	eel
Chaetocnema concinna (Marsham)	oa-p		
?Psylliodes sp.	oa-p	Amphibia	
Halticinae sp.	oa-p	Amphibia indet.	
Apion spp.	oa-p		
Sitona spp.	oa-p	AVES	
Tanysphyrus lemnae (Paykull)	oa-w-p	Anser sp.	goose
Bagous sp.	oa-w	Gallus f. domestic	chicken
?Notaris acridulus (Linnaeus)	oa-d-p		
Notaris sp. indet.	oa-d-p	Mammalia	
Ceutorhynchus ?contractus (Marsham)	oa-p	Oryctolagus cuniculus (L.)	rabbit
Ceutorhynchus spp.	oa-p	Canis f. domestic	dog
Ceuthorhynchinae sp.	oa-p	Felis f. domestic	cat
Curculionidae sp.	oa	Equus f. domestic	horse
Scolytidae sp.	1	Sus f. domestic	pig
Coleoptera sp.	u	Cervus elaphus L.	red deer
*Coleoptera sp. (larva)	u	Dama dama (L.)	fallow deer
		Bos f. domestic	cattle
*Formicidae sp.	u	Caprovid	sheep/goat
*Apoidea sp.	u	Capra f. domestic	goat
		Homo sapiens	human
*Insecta sp. (larva)	u		
*Insecta sp. pupa	u		
ARACHNIDA			
*Aranae sp.	u		
*Opiliones sp.	u		
*Acarina sp.	u		

Table 8. Lists of plant remains and other components of samples examined for plant macrofossils from the Layerthorpe Bridge site, York. Lists are presented in order of context and sample (except for Sample 271 which is listed at the end). The numbers following the names are abundance scores on a four-point scale (/T and /SPT samples) or a three-point scale (/BS samples) from 1 (one or a very few remains, or a very small component) to 3 or 4 (abundant remains, or a large component).

Abbreviations: af—achene fragment(s); b—bud(s); bs—bud-scales; caps—capsule(s); ch—charred; dec.—decayed; endo—endocarp; ff—fruit fragment(s); fgts—fragments; fls—flower(s); fr—fruit(s); inc—including; inv br—involucral bract(s); cot—cotyledon(s); lvs—leaves; max.—maximum; meso—mesocarp; min—mineral-replaced ('mineralised'); per—perianth(s); pet—petal(s); rt—root; s—seed(s); sht—shoot; spklts—spikelet(s); sf—seed fragment(s); tw—twig; v—very.

Context 4		grit	1	
Sample 6/SPT		mammal bone	1	max. size 80 mm
•		mussel shell fgts	1	
'coils'		oyster shell fgts	2	
Agrostemma githago (sf)		pottery	1	max. size 20 mm
Atriplex sp(p).		Context 14		
beetles 1		Sample 48/T		
Bidens sp(p).		1		
Bilderdykia convolvulus (ff) 1		Aethusa cynapium	1	
bone fgts 1	max. size 5 mm	Atriplex sp(p).	1	
Carduus/Cirsium sp(p).		bark fgts	3	max. size 15 mm
Carex sp(p).		bast fgts	1	
charcoal 1	max. size 10 mm	beetles	1	
Chenopodiaceae 1		bone fgts	1	
Chenopodium album		burnt bone fgts	1	max. size 10 mm
Chenopodium Section Pseudoblitum 1		caddis larva cases	1	max. Size to min
coal 1		Carex sp(p).	1	
Ficus carica		cf. Avena sp(p).	1	
			1	
gravel 1 herbaceous detritus 2		cf. Avena sp(p). (chaff)	1	
		cf. Calluna vulgaris (ch rt-tw fgts)	1	
B (, F)		cf. Calluna vulgaris (rt-tw fgts)	_	f
Plantago major 1		cf. Cerealia indet.	1	fragment(s) only
Polygonum aviculare agg. 1		charcoal	1	max. size 15 mm
Polygonum persicaria 1		Chenopodium album	1	. 10
Ranunculus flammula 1		Chrysanthemum segetum	1	max. size 10 mm
Ranunculus sceleratus 1		cinders	1	max. size 15 mm
Ranunculus Section Ranunculus 1	•	coal	1	max. size 10 mm
Raphanus raphanistrum (pod segs/fgts	) 1	Conium maculatum (mf)	1	
Reseda luteola 1		Coronopus squamatus (fr)	1	fragment(s) only
Rumex sp(p). (inc per)		Corylus avellana	1	max. size 5 mm
Salix $sp(p)$ . (b)	-	Corylus avellana (ch)	1	max. size 10 mm
Sambucus nigra 1	-	Daphnia (ephippia)	1	
sand 1		gravel	2	max. size 30 mm
Stellaria media		Juncus sp(p).	1	
Urtica dioica 1		Polygonum aviculare agg.	1	
		Potentilla anserina	2	
		Ranunculus Section Ranunculus	1	v. dec.
Context10		Raphanus raphanistrum (pod segs/fg	ts)	1
Sample 101010/BS		root/rootlet fgts	1	
r		Rumex sp(p).	1	
brick/tile 2	2	Sambucus nigra	2	including fgts
clay pipe fgts 1		sand	2	0 0
cobbles 1		sclereids (from bark)	2	
glass fgts 1		Urtica dioica	2	
gravel 1		Urtica urens	1	
D 31		_		

wood fgts	1	v. dec., max. size 15 mm	Urtica urens wood chips wood fgts	1 1 3	max. size 10 mm max. size 70 mm
Context 15					
Sample 49/T			Context 18		
Sample 47/1			Sample 41/T1		
bone fgts	1	max. size 35 mm	Sumple 11/11		
brick/tile	1	max. size 30 mm	Alisma sp(p).	1	
gravel	2	max. size 30 mm	Apium nodiflorum	2	
Juncus sp(p).	1		Atriplex sp(p).	1	
root/rootlet fgts	1		Bithynia opercula	1	
Rumex acetosella agg.	1		brick/tile	1	max. size 10 mm
Sambucus nigra	1		caddis larva cases	1	
sand	2		Carduus/Cirsium sp(p).	1	
sclereids (from bark)	1		Carex sp(p).	1	
Veronica beccabunga-type	1		charcoal	1	max. size 5 mm
			Conium maculatum (mf)	1	
			Daphnia (ephippia)	2	
Context 16			dicot stem fgts	1	
Sample 52/T			freshwater snails	1	
			Heracleum sphondylium	1	
?arthropod frass	1		herbaceous detritus	3	
Anthemis cotula	1		Linum usitatissimum	1	
Anthemis cotula (ch)	1		Linum usitatissimum (caps fgts)	1	
Atriplex sp(p).	1		Lophopus crystallinus	1	
Avena sp(p).	1		Myosotis sp(p).	1	
bark fgts		ax. size 15 mm	Nuphar lutea	2	including fgts
beetles	1	. 20	Oenanthe aquatica	2	
bone fgts	1	max. size 30 mm	Polygonum hydropiper	1	
Brassica sp./Sinapis arvensis	1	mov siza 5 mm	Ranunculus sceleratus Ranunculus Section Ranunculus	3	
brick/tile	1	max. size 5 mm max. size 10 mm		2	
burnt bone fgts Carex sp(p).	2	max. Size 10 mm	root/rootlet fgts Rorippa amphibia	2	
cf. Calluna vulgaris (ch rt-tw fgts)	1		Rumex acetosella agg.	1	
cf. Calluna vulgaris (cf. t-tw fgts)	1		Rumex sp(p). (inc per)	1	
charcoal	1	max. size 10 mm	Salix sp(p). (the per)	1	
Chenopodium album	2	max. Size 10 mm	sand	1	
Corylus avellana	1	max. size 10 mm	Scirpus lacustris sl	1	
Cratoneuron filicinum	1		Sparganium sp(p).	1	
Drepanocladus sp(p).	1		Sphagnum sp(p). (lvs)	1	
earthworm egg caps	1		Umbelliferae	1	
fish bone	1	max. size 15 mm	Urtica urens	1	
fly puparia	1		wood fgts	1	max. size 20 mm
Galeopsis Subgenus Galeopsis	1				
gravel	1	max. size 25 mm			
Hypnum cf. cupressiforme	1		Context 19		
Melophagus ovinus (sheep keds)	1		Sample 45/T		
Menyanthes trifoliata	1				
moss	1		'coils'	1	
Polygonum persicaria	1		?bryozoa	1	
Potentilla cf. erecta	1		Agrostemma githago (sf)	1	
Potentilla cf. reptans	1		Alisma sp(p).	1	
Potentilla sp(p).	1	1	Anthemis cotula	1	
Raphanus raphanistrum (pod segs/fg root/rootlet fgts	518 <i>)</i> 1	1	Arctium sp(p).	1	
Sambucus nigra	1		Bithynia opercula	1	mov size 10 m
Sambucus nigra (ch)	1		bone fgts	1	max. size 10 mm
sand	2		Brassica cf. rapa Brassica sp(p).	1 1	
sclereids (from bark)	1		Calluna vulgaris (tw fgts)	1	
Sonchus asper	1		Carex sp(p).	1	
Stellaria media	1		Centaurea sp(p).	1	
Urtica dioica	2		Ceratophyllum sp(p).	1	
			2	•	

charcoal	1 max. size 5 mm	Context 20		
Chrysanthemum segetum	1	Sample 38/T		
Conium maculatum	1	. 1	2	. 15
Cristatella (statoblasts)	1	cinders	2	max. size 15 mm
Daphnia (ephippia)	1 1	Conium maculatum (mf)	1	
earthworm egg caps	1	Coronopus squamatus (fr)	1 2	
Erica tetralix (lvs) fibres	2	Ranunculus sceleratus	1	
Ficus carica	1	Sambucus nigra sand	1	
fish bone	1	tile fgts	1	max. size 45 mm
fish scale	1	unwashed sediment	3	max. Size 45 mm
fly puparia	1	Urtica dioica	2	
Fumaria sp(p).	1	Office diolea	_	
Galeopsis Subgenus Galeopsis	1			
gravel	1 max. size 25 mm	Context 38		
grit	1	Sample 17/T		
Hyoscyamus niger	1	Dampie 1771		
Hypnum cf. cupressiforme	1	Aethusa cynapium	1	
Lamium Section Lamiopsis	1	Agrostemma githago (ch)	1	
Lapsana communis	1	Atriplex sp(p).	1	
Lemna sp(p).	1	bark fgts	3	v. dec., max. size
Leucobryum glaucum	1	beetles	1	ŕ
Linum usitatissimum (caps fgts)	2	bone fgts	1	max. size 40 mm
Linum usitatissimum (sf)	1	brick/tile	1	max. size 20 mm
Lophopus crystallinus	1	Calluna vulgaris (ch fls)	1	
Malva sp(p).	1	Carex sp(p).	1	
Marrubium vulgare	2	cf. Calluna vulgaris (rt-tw fgts)	1	
Myriophyllum verticillatum/		charcoal	1	max. size 5 mm
spicatum	1	Chenopodium album	2	
Nuphar lutea	1	fish scale	1	
Odontites verna	1	Gramineae	1	
Oenanthe lachenalii	1	gravel	1	max. size 20 mm
Pastinaca sativa/		grit	1	
Heracleum sphondylium	1 6 ()	Knautia arvensis	1	
D.1 ' 1	1 fragment(s) only	Potentilla cf. erecta	2	
Polygonum aviculare agg.	2	Ranunculus Section Ranunculus	1	
Polygonum lapathifolium	1	Raphanus raphanistrum		
Polygonum persicaria	1 1	(pod segs/fgts)	1	
Potamogeton sp(p). Ranunculus sceleratus	2	Sambucus nigra	1 2	
Ranunculus Section Ranunculus	1	sand		
Reseda luteola	2	sclereids (from bark)	1 1	
Rumex sp(p). (inc per)	1	Triticum sp(p). Urtica urens	1	
Sagittaria sagittifolia	1	Viola sp(p).	1	
Salix sp(p). (b)	1	wood fgts	1	v. dec., max. size
Salix sp(p). (6)	1	wood 1gts	1	v. dec., max. size
Sambucus nigra	1			10 mm
sand	1	Sample 3838/BS		10 11111
Scirpus lacustris sl	1	Sample Bobb/BB		
Sonchus asper	1	brick/tile	1	max. size 35 mm
Sonchus oleraceus	1	mammal bone	1	max. dimension
Sparganium sp(p).	2			120 mm
Stellaria media	1	oyster shell fgts	1	
Ulota sp(p).	1	pebbles	1	max. size 60 mm
Urtica dioica	1	wood fgts	1	
Urtica urens	1			
wood chips	1 max. size 5 mm			
wood fgts	1 max. size 5 mm	Context 40		
		Sample 19/T		
		?daub	1	max. size 30 mm
		Agrimonia eupatoria	1	
		Agrostemma githago (sf)	1	

Antitrichia curtipendula	1		Sample 4040/BS		
Atriplex sp(p).	1		1		
bark fgts		lec., max. size mm	bark fgts	1	v. dec., max. size 10 mm
beetles	1		brick/tile	1	max. size 20 mm
bone fgts		x. size 20 mm	burnt bone fgts	1	max. size 15 mm
Brassica rapa	1	5120 20 11111	Corylus avellana	1	max. size 10 mm
brick/tile		x. size 5 mm	gravel	1	max. size 20 mm
burnt bone fgts		x. size 3 mm	mammal bone	1	max. size 50 mm
Calluna vulgaris (ch fls)	1	x. 3120 13 IIIII	oyster shell fgts	1	max. size 20 mm
Calluna vulgaris (ch sht fgts)	1		Oyster sherrigts	1	max. Size 20 mm
Carduus/Cirsium sp(p).	1				
Centaurea sp(p). (af)	1		Context 41		
cf. Calluna vulgaris (ch rt-tw fgts)	1		Sample 27/T		
cf. Calluna vulgaris (cf. tw fgts)	1		Sample 27/1		
cf. Secale cereale	1		?arthropod frass	2	
cf. Senecio sp(p).	1		Atriplex sp(p).	1	
charcoal		x. size 10 mm	bark fgts	3	v. dec., max. size
Chenopodium album	1	x. Size 10 mm	bark igts	3	25 mm
Chenopodium Section Pseudoblitum	-		beetles	1	2.3 IIIIII
Chrysanthemum segetum (af)	1		bone fgts	1	max. size 30 mm
Coronopus squamatus (fr)	1		burnt bone fgts	1	max. size 15 mm
Corylus avellana		x. size 10 mm	Calluna vulgaris (ch fls)	1	max. Size 13 mm
Corylus avellana (ch)		x. size 10 mm	Calluna vulgaris (fls)	1	
Cristatella (statoblasts)	1	5120 10 11111	Calluna vulgaris (fis) Calluna vulgaris (sht fgts)	1	
Eleocharis palustris sl	1		Carex sp(p).	1	
fish bone	1		cf. Calluna vulgaris (ch rt-tw fgts)	1	
fly puparia	1		cf. Secale cereale	1	
Gramineae	1		charcoal	1	max. size 20 mm
Gramineae/Cerealia (ch)	1		charred herbaceous detritus	1	max. Size 20 mm
gravel	1 max	x. size 10 mm	charred rhizome/root fgts	1	
Hyoscyamus niger	1		Chenopodium album	2	
Isothecium myosuroides	1		Coronopus squamatus (fr)	1	
Lamium Section Lamiopsis	1		Corylus avellana	1	max. size 15 mm
leather fgts	1 max	x. size 30 mm	fish bone	1	max. size 5 mm
Linum usitatissimum	1		Juncus inflexus/effusus/conglomera	us	1
Linum usitatissimum (caps fgts)	1		root/rootlet fgts	1	
Malva sp(p).	1		Sambucus nigra	1	
Marrubium vulgare	1		sand	2	
Neckera complanata	1		sclereids (from bark)	2	
ostracods	1		Silene vulgaris	1	
Polygonum hydropiper	1		Triticum sp(p). (hexaploid)	1	
Polygonum lapathifolium	1		Vicia sp(p).	1	
Potamogeton sp(p).	1		wood fgts	2	v. dec., max. size
Potentilla sp(p).	1				10 mm
Prunella vulgaris	1				
Ranunculus Subgenus Batrachium	1		Sample 4141/BS		
root bark/epidermis fgts	1				
root/rhizome fgts (ch)	1		bark fgts	1	v. dec., max. size
Rubus/Rosa sp(p). (prickles)	1				10 mm
Rumex sp(p).	1		gravel	1	max. size 40 mm
Rumex sp(p). (per/segs)	1		mammal bone	1	max. dimension
Sambucus nigra	2				130 mm
sand	2		oyster shell fgts	1	max. size 30 mm
sclereids (from bark)	1		wood fgts	1	v. dec., max. size
snails	1				10 mm
Sphagnum sp(p). (lvs)	1				
Stellaria media	1		G 1003		
Triticum/Secale ('bran' fgts)	1		Context 1003		
Urtica dioica	2 2		Sample 1003/BS		
Urtica urens	<i>L</i>		Aliama an(n)	1	
			Alisma sp(p).	1	'embryos' only
			Anthemis cotula	1	

A. 1.1			
Atriplex sp(p).	1		1
brick/tile Ceratophyllum demersum	1 max. size 40 m	\ 1 & /	1 1
Ceratophyllum sp(p).	1		1 max. size 40 mm
Chrysanthemum segetum	1		1 1111111111111111111111111111111111111
cobbles	1 max. dimensio	T	1
	110 mm		2
fish scale	1	Pisidium sp(p). (valves)	1
fly puparia	1	r	2
freshwater mussel shell fgts	1	7,6	1
freshwater snails	1	/ 8	1
Gramineae	1		1
herbaceous detritus	1		1 1
Linum usitatissimum (caps fgts) Nuphar lutea	1		2
Oenanthe aquatica	1		1
percid scale	1		1 including fgts
Polygonum aviculare agg.	1		1
Polygonum lapathifolium	1	Scirpus lacustris sl	1
Potamogeton sp(p).	1	1	1
Ranunculus Section Ranunculus	1	6 6	1 max. size 20 mm
Ranunculus Subgenus Batrachium	1	•	2
Rumex sp(p). (inc per)	1		2
Sagittaria sagittifolia Scirpus maritimus/lacustris	1		1 1 max. size 5 mm
Scirpus martimus/facustris Scleranthus annuus	1	wood fgts	1 max. size 3 mm
Sonchus asper	1		
Stellaria media	1	Context 1027	
twig fgts	1 max. length 30		
	width 10 mm	r	
Urtica urens	1	?wood chips	1
wood chips	1 max. size 5 mr	8 88- ()	1
			1
C + + 1024			1
Context 1024		bark fgts	v. dec., max. size
Sample 73/T		bone fgts	1 max. size 20 mm
Agrostemma githago (sf)	1		1 max. size 20 mm
Atriplex sp(p).	1	- · · · · · · · · · · · · · · · · · · ·	1 max. size 25 mm
beetles	1		1
Bithynia opercula	3	Calluna vulgaris (fls)	1
Brassica sp(p).	1	T (I)	1
brick/tile	1 max. size 10 m		1
burnt bone fgts	1 max. size 5 mr	ε \ ε /	1
caddis larva cases	1		1 max. size 5 mm
Carduus/Cirsium sp(p). Carex sp(p).	1		1 1
Ceratophyllum demersum	1	1 1 ,	1 max. size 5 mm
Ceratophyllum sp(p).	1		1
cf. Acer campestre	1		1
cf. Glyceria sp(p).	1	——————————————————————————————————————	1
coal	1 max. size 10 m		1 max. size 10 mm
Conium maculatum	1	8	1 max. size 30 mm
Coronopus squamatus (fr)	1		1
Ficus carica	1 a single	8	1 max. size 25 mm
fish scale	specimen 1 max. size 2 mr		1 1
fly puparia	1 max. size 2 mi		1
freshwater mussel shell fgts	2 max. size 45 m		1
freshwater snails	2		1
Gramineae/Cerealia (ch)	1	-	1
gravel	1 max. size 25 m	nm Linum usitatissimum	1 including fgts
Lemna sp(p).	2	Linum usitatissimum (caps fgts)	1

Malus sylvestris	1	Corylus avellana	1	max. size 10 mm
Malva cf. sylvestris	1	fish bone	1	max. size 5 mm
Marrubium vulgare	1	Gramineae	1	
Menyanthes trifoliata	1	gravel	1	max. size 10 mm
Myriophyllum verticillatum/spicatur	n 1	grit	2	
Nepeta cataria	1	Hydrocotyle vulgaris	1	
Nuphar lutea	1	Lamium Section Lamiopsis	1	
ostracods	1	oyster shell fgts	1	max. size 60 mm
Pisidium sp(p). (valves)	1	Plantago major	1	
Plantago major	1	Polygonum aviculare agg.	3	
Polygonum amphibium	1 specimen(s)	Polygonum persicaria	1	
18	picked out and	Potentilla anserina	1	
	tubed	Potentilla sp(p).	1	
Polygonum aviculare agg.	2	Raphanus raphanistrum (pod segs/fgt		1
Polygonum hydropiper	2	Rubus fruticosus agg.	1	1
Polygonum lapathifolium	1	Rumex sp(p). (inc per)	1	
Potamogeton sp(p).	1	Sambucus nigra	1	
Potentilla cf. erecta	1	sand	2	
pottery	1 max. size 10 mm	sclereids (from bark)	1	
		. ,		
Prunella vulgaris Ranunculus flammula	1	Silene cf. vulgaris	1	
	1	Solanum nigrum		
Ranunculus sardous	1	Stellaria media	2	
Ranunculus Section Ranunculus	1	Urtica dioica	2	
Ranunculus Subgenus Batrachium	1	Urtica urens	1	
Rorippa islandica	1	Veronica beccabunga-type	1	
Rumex acetosella agg.	1	wood fgts	2	v. dec., max. size
Rumex sp(p). (inc per)	1			10 mm
Sagittaria sagittifolia	1			
Salix sp(p). (b)	1			
Sambucus nigra	1	Context 1031		
sand	2	Sample 84/T		
Scorpidium scorpioides	1			
Solanum nigrum	1	?arthropod frass	1	
Sonchus sp(p). (non asper)	1	?daub	1	max. size 30 mm
Stellaria media	1	Aethusa cynapium	1	
Urtica dioica	2	amphibian bone	1	
Urtica urens	2	Atriplex sp(p).	1	
wood fgts	2 v. dec., max. size	Avena sp(p).	1	
	10 mm	bark fgts	2	v. dec., max. size
				20 mm
		bone fgts	1	max. size 20 mm
Context 1029		brick/tile		max. size 10 mm
Sample 79/T		burnt bone fgts		max. size 10 mm
Sumple 7571		Calluna vulgaris (ch fls)	1	max. Size to min
Anthemis cotula	2	Calluna vulgaris (sht fgts)	1	
Atriplex sp(p).	1	Carex sp(p).	1	
Author sp(p). Avena sp(p).	1	Cenococcum (sclerotia)	1	
beetles	1	cf. Calluna vulgaris (ch rt-tw fgts)	1	
	1 max. size 60 mm	cf. Secale cereale	1	
bone fgts Brassica sp./Sinapis arvensis		charcoal		max. size 15 mm
	1 : 10			max. size 15 mm
burnt bone fgts	1 max. size 10 mm	Chenopodium album	1	
Calluna vulgaris (ch fls)	1	Corylus avellana	1	v. dec., max. size
Calluna vulgaris (ch sht fgts)	1	T1 1 1 1 1 1		10 mm
Capsella bursa-pastoris	1	Eleocharis palustris sl	1	
Carex sp(p).	1	Erica tetralix (ch lvs)	1	
Carex sp(p). (ch)	1	fish bone	1	max. size 5 mm
Cerealia indet. (chaff)	1	fly puparia	1	
cf. Calluna vulgaris (ch rt-tw fgts)	2	Galeopsis Subgenus Galeopsis	1	
charcoal	2 max. size 10 mm	gravel	1	
charred moss	1	grit	1	
Chenopodium album	1	Juncus cf. gerardi	1	
Chenopodium polyspermum	1	Lophopus crystallinus	1	
Coronopus squamatus (fr)	1	Polygonum aviculare agg.	2	

Potentilla anserina	1		bird bone	1	. 25
Potentilla cf. erecta Ranunculus cf. sardous	1		charcoal	1	max. size 35 mm
	1	1	gravel	1	max. size 80 mm
Raphanus raphanistrum (pod segs/fg	gts)	1	mammal bone	1	max. dimension 120 mm
Rumex sp(p).	1		pottery	1	max. size 50 mm
Rumex sp(p). Rumex sp(p). (ch)	1		pottery	1	max. Size 30 mm
Sambucus cf. ebulus	1				
Sambucus nigra	2		Context 1039		
sand	2		Sample 90/T		
sclereids (from bark)	2		Sumple 50/1		
Umbelliferae	1		Agrostemma githago (sf)	1	
Urtica dioica	2		Anthemis cotula	1	
Urtica urens	2		Atriplex sp(p).	1	
wood fgts	1	max. size 5 mm	bark fgts	3	v. dec., max. size
C			2		20 mm
			beetles	1	
Sample 1031/BS			bone fgts	1	max. size 20 mm
			Brassica sp./Sinapis arvensis	1	
bark fgts	1	v. dec., max. size	burnt bone fgts	1	max. size 40 mm
		10 mm	Carex sp(p).	1	
brick/tile	1	max. size 5 mm	charcoal	1	max. size 10 mm
burnt bone fgts	1	max. size 15 mm	fish bone	1	max. size 5 mm
charcoal	1	max. size 10 mm	fly puparia	1	
gravel	1	max. size 30 mm	gravel	1	max. size 10 mm
mammal bone	1	max. size 60 mm	Linum usitatissimum (caps fgts)	2	
			Potentilla anserina	1	
			Ranunculus Section Ranunculus	1	
Context 1033			Raphanus raphanistrum (pod segs/fg		1
Sample 68/T			Rubus fruticosus agg.	1	
			Rumex sp(p).	1	
Aethusa cynapium	1		Sambucus nigra	1	
Atriplex sp(p).	1	,	sand	1	
bark fgts	2	v. dec., max. size	Urtica dioica	1	
L41	1	25 mm	Urtica urens	1	. 4:
beetles	1	: 15	wood fgts	1	v. dec., max. size
bone fgts Brassica sp./Sinapis arvensis	1 1	max. size 15 mm			10 mm
brick/tile	1	max. size 10 mm	Sample 1039/BS		
Carex sp(p).	1	max. Size 10 mm	Sample 1039/BS		
cf. Calluna vulgaris (ch rt-tw fgts)	1		bark fgts	2	
cf. Calluna vulgaris (cf. t-tw fgts)	1		gravel	1	max. size 30 mm
charcoal	2	max. size 40 mm	mammal bone	1	max. size 60 mm
Chenopodium album	1	max. Size 40 mm	wood fgts	1	max. Size 00 mm
Corylus avellana	1	v. dec., max. size	······································	-	
		10 mm			
fish bone	1	max. size 5 mm	Context 1047		
gravel	2	max. size 25 mm	Sample 95/T		
grit	2		r		
oyster shell fgts	1	max. size 15 mm	Agrostemma githago (sf)	1	
Ranunculus sardous	1		Anthemis cotula	1	
Rumex sp(p).	1		Atriplex sp(p).	1	
Sambucus nigra	1		Avena cf. sativa (spklts/fgts)	1	
sand	3		bark fgts	1	v. dec., max. size
sclereids (from bark)	2				5 mm
Stachys sp(p).	1		Bilderdykia convolvulus (ff)	1	
Urtica dioica	2		Brassica rapa (sf)	1	
wood fgts	1	v. dec., max. size	Brassica sp./Sinapis arvensis (sf)	1	
		10 mm	Carduus/Cirsium sp(p).	1	
g 1 1000 77 7			Centaurea sp(p). (af)	1	
Sample 1033/BS			Cerealia indet.	1	a single
1 1 6 4	4	. 10			specimen
bark fgts	1	max. size 10 mm	cf. Calluna vulgaris (ch rt-tw fgts)	1	

charcoal	1	max. size 5 mm	pottery	1	max. size 30 mm
Chenopodium album	1		root/rootlet fgts	1	
Chenopodium Section Pseudoblitum	n 1		sand	1	
coal	1		sclereids (from bark)	2	
Coronopus squamatus (fr)	1		Urtica dioica	2	
Corylus avellana	1	max. size 5 mm			
Eleocharis palustris sl	1				
gravel	1	max. size 60 mm	Sample 1052/BS		
Heterodera (cysts)	1				
Hyoscyamus niger	1		bark fgts	1	v. dec.
Polygonum aviculare agg.	1		brick/tile	1	max. size 5 mm
Polygonum hydropiper	1		gravel	1	max. size 20 mm
Polygonum persicaria	1		mammal bone	1	max. size 80 mm
Potentilla sp(p).	1				
Ranunculus sceleratus	1				
Rumex sp(p).	1		Context 2003		
Sambucus nigra (sf)	1		Sample 147/SPT		
sand	2				
Silene vulgaris	1		Agrostemma githago (sf)	1	
Sphagnum sp(p). (lvs)	1		Arctium sp(p).	1	
Stellaria media	1		bone fgts	1	max. size 5 mm
teeth	1		burnt bone fgts	1	max. size 5 mm
Urtica dioica	1		cf. Calluna vulgaris (ch rt-tw fgts)	1	max. size 3 mm
vivianite	1		gravel	1	max. size 5 mm
viviante	1		Homalothecium sericeum/lutescens		max. Size 3 mm
			Leucodon sciuroides	1	
Sample 1047/BS				1	
Sample 1047/BS			Linum usitatissimum	-	
brick/tile	1	max. size 25 mm	Linum usitatissimum (caps fgts)	1	
	1	max. dimension	Linum usitatissimum (sf)	1	
cobbles	1		Linum usitatissimum (stem/	_	
amazyal	1	150 mm	epid fgts)	2	
gravel	1	: 40	Marrubium vulgare	1	
mammal bone	1	max. size 40 mm	Polygonum hydropiper	1	
			Polygonum lapathifolium	1	
			Ranunculus flammula	1	
Context 1052			Rumex sp(p). (inc per)	1	
Sample 117/T			Sambucus nigra	1	
	_		sand	2	
'ash beads'	1		Spergula arvensis	1	
?burnt peat fgts	1		Stellaria media	1	
Atriplex sp(p).	1		Triticum sp(p).	1	
Atropa bella-donna	1		Triticum/Secale ('bran' fgts)	1	
bark fgts	3	v. dec., max.,	Urtica dioica	1	
		size 55 mm	Urtica urens	1	
Brassica rapa (sf)	1		wood fgts	1	max. size 10 mm
Brassica sp./Sinapis arvensis	1				
brick/tile	1	max. size 5 mm			
Calluna vulgaris (caps)	1		Context 2004		
Calluna vulgaris (ch sht fgts)	1		Sample 132/SPT		
Calluna vulgaris (sht tips)	1				
Carex sp(p).	1		Linum usitatissimum (stem/epid fgts	(;)	3
cf. Avena sp(p). (chaff)	1				
cf. Calluna vulgaris (ch rt-tw fgts)	1				
charcoal	1	max. size 15 mm	Context 2005		
charred rhizome/root fgts	1		Sample 136/SPT		
Chenopodium album	1		_		
Conium maculatum (mf)	1		Linum usitatissimum (caps fgts)		1
Corylus avellana	1	max. size 10 mm	Linum usitatissimum (stem/epid fgts	s)	3
Corylus avellana (ch)	1	max. size 10 mm	Linum usitatissimum (stem/epid fgts		3
fish bone	1		(		
gravel	1	max. size 15 mm	Sample 137/SPT		
Polygonum aviculare agg.	1				
Potentilla cf. erecta	1		Linum usitatissimum (stem/epid fgts	3)	3
				,	

Context 2006		Polygonum hydropiper	1	
Sample 2006/BS		Polygonum persicaria	1	
		Potamogeton sp(p).	1	
Agrimonia eupatoria	1	Potentilla anserina	1	
Agrostemma githago (sf)	1	Potentilla cf. erecta	1	
Alisma sp(p).	1	pottery	1	max. size 40 mm
Anthemis cotula	1	Prunus domestica ssp. insititia	1	
Antitrichia curtipendula	1	Prunus spinosa	1	
Apium nodiflorum	1	Prunus spinosa (ch)	1	
Arctium sp(p).	1	Ranunculus flammula	1	
Arctium sp(p). (inv br/hooks)	1	Ranunculus sceleratus	1	
Bilderdykia convolvulus	1	Ranunculus Section Ranunculus	1	
bivalve periostracum	1	Ranunculus Subgenus Batrachium	1	
Brassica sp(p).	1	root/rhizome fgts (ch)	1	
	1 max. size 35 mm	Rumex acetosella agg.	1	
oriek/the	1 max. size 33 mm	Rumex cf. maritimus	1	
Calluna vulgaris (caps)	1	Rumex sp(p).	1	
Calluna vulgaris (caps) Calluna vulgaris (sht fgts)	1		1	
		Rumex sp(p). (inc per)	1	
Carduus/Cirsium sp(p).	1	Sagittaria sagittifolia	-	
Carex sp(p).	1	Sambucus nigra	1	
8	1	Scandix pecten-veneris	1	
	1 max. size 30 mm	snails	1	fragment(s) only
Chenopodium album	1	Spergula arvensis	1	
Chenopodium murale	1	Stellaria media	1	
- 3	1	Triticum/Secale ('bran' fgts)	1	
cobbles	1 max. size 100	Urtica dioica	2	
	mm	Urtica urens	1	
Conium maculatum	1	wood chips	1	max. size 10 mm
Coronopus squamatus (fr)	1	wood fgts	1	max. size 30 mm
Corylus avellana	1 max. size 10 mm			
Cristatella (statoblasts)	1	Context 2013		
Daphnia (ephippia)	1	Sample 2013/BS		
dicot lf fgts	1	Sample 2013/BS		
	1	brials/tila	1	mov siza 25 mm
dicot stem fgts	1	brick/tile	1	max. size 35 mm
dicot stem fgts Dicranum sp(p).	1 1	charcoal	1	max. size 35 mm max. size 5 mm
dicot stem fgts Dicranum sp(p). Dipsacus sativus/fullonum	1 1 1 fragment(s) only	charcoal freshwater mussel shell fgts	1	max. size 5 mm
dicot stem fgts Dicranum sp(p). Dipsacus sativus/fullonum Eleocharis palustris sl	1 1 1 fragment(s) only 1	charcoal freshwater mussel shell fgts gravel	1 1 1	max. size 5 mm max. size 30 mm
dicot stem fgts Dicranum sp(p). Dipsacus sativus/fullonum Eleocharis palustris sl Eurhynchium sp(p).	1 1 1 fragment(s) only	charcoal freshwater mussel shell fgts	1	max. size 5 mm max. size 30 mm max. size 200
dicot stem fgts Dicranum sp(p). Dipsacus sativus/fullonum Eleocharis palustris sl Eurhynchium sp(p). fish scale	1 1 1 fragment(s) only 1	charcoal freshwater mussel shell fgts gravel mammal bone	1 1 1 1	max. size 5 mm max. size 30 mm
dicot stem fgts Dicranum sp(p). Dipsacus sativus/fullonum Eleocharis palustris sl Eurhynchium sp(p). fish scale Gramineae	1 1 1 fragment(s) only 1	charcoal freshwater mussel shell fgts gravel mammal bone oyster shell fgts	1 1 1 1	max. size 5 mm max. size 30 mm max. size 200 mm
dicot stem fgts Dicranum sp(p). Dipsacus sativus/fullonum Eleocharis palustris sl Eurhynchium sp(p). fish scale Gramineae Hylocomium splendens	1 1 1 fragment(s) only 1 1 1 1	charcoal freshwater mussel shell fgts gravel mammal bone  oyster shell fgts pottery	1 1 1 1 1	max. size 5 mm max. size 30 mm max. size 200 mm max. size 60 mm
dicot stem fgts Dicranum sp(p). Dipsacus sativus/fullonum Eleocharis palustris sl Eurhynchium sp(p). fish scale Gramineae Hylocomium splendens Hyoscyamus niger	1 1 1 fragment(s) only 1 1 1 1	charcoal freshwater mussel shell fgts gravel mammal bone oyster shell fgts	1 1 1 1	max. size 5 mm max. size 30 mm max. size 200 mm max. size 60 mm v. dec., max. size
dicot stem fgts Dicranum sp(p). Dipsacus sativus/fullonum Eleocharis palustris sl Eurhynchium sp(p). fish scale Gramineae Hylocomium splendens Hyoscyamus niger Hypnum cf. cupressiforme	1	charcoal freshwater mussel shell fgts gravel mammal bone  oyster shell fgts pottery	1 1 1 1 1	max. size 5 mm max. size 30 mm max. size 200 mm max. size 60 mm
dicot stem fgts Dicranum sp(p). Dipsacus sativus/fullonum Eleocharis palustris sl Eurhynchium sp(p). fish scale Gramineae Hylocomium splendens Hyoscyamus niger Hypnum cf. cupressiforme Juncus bufonius	1	charcoal freshwater mussel shell fgts gravel mammal bone  oyster shell fgts pottery	1 1 1 1 1	max. size 5 mm max. size 30 mm max. size 200 mm max. size 60 mm v. dec., max. size
dicot stem fgts Dicranum sp(p). Dipsacus sativus/fullonum Eleocharis palustris sl Eurhynchium sp(p). fish scale Gramineae Hylocomium splendens Hyoscyamus niger Hypnum cf. cupressiforme Juncus bufonius Juncus sp(p).	1	charcoal freshwater mussel shell fgts gravel mammal bone  oyster shell fgts pottery	1 1 1 1 1	max. size 5 mm max. size 30 mm max. size 200 mm max. size 60 mm v. dec., max. size
dicot stem fgts Dicranum sp(p). Dipsacus sativus/fullonum Eleocharis palustris sl Eurhynchium sp(p). fish scale Gramineae Hylocomium splendens Hyoscyamus niger Hypnum cf. cupressiforme Juncus bufonius Juncus sp(p). Lamium Section Lamiopsis	1	charcoal freshwater mussel shell fgts gravel mammal bone  oyster shell fgts pottery	1 1 1 1 1	max. size 5 mm max. size 30 mm max. size 200 mm max. size 60 mm v. dec., max. size
dicot stem fgts Dicranum sp(p). Dipsacus sativus/fullonum Eleocharis palustris sl Eurhynchium sp(p). fish scale Gramineae Hylocomium splendens Hyoscyamus niger Hypnum cf. cupressiforme Juncus bufonius Juncus sp(p). Lamium Section Lamiopsis Leguminosae (fls/pet)	1	charcoal freshwater mussel shell fgts gravel mammal bone  oyster shell fgts pottery wood fgts  Context 2023	1 1 1 1 1	max. size 5 mm max. size 30 mm max. size 200 mm max. size 60 mm v. dec., max. size
dicot stem fgts Dicranum sp(p). Dipsacus sativus/fullonum Eleocharis palustris sl Eurhynchium sp(p). fish scale Gramineae Hylocomium splendens Hyoscyamus niger Hypnum cf. cupressiforme Juncus bufonius Juncus sp(p). Lamium Section Lamiopsis Leguminosae (fls/pet) Leucobryum glaucum	1	charcoal freshwater mussel shell fgts gravel mammal bone  oyster shell fgts pottery wood fgts	1 1 1 1 1	max. size 5 mm max. size 30 mm max. size 200 mm max. size 60 mm v. dec., max. size
dicot stem fgts Dicranum sp(p). Dipsacus sativus/fullonum Eleocharis palustris sl Eurhynchium sp(p). fish scale Gramineae Hylocomium splendens Hyoscyamus niger Hypnum cf. cupressiforme Juncus bufonius Juncus sp(p). Lamium Section Lamiopsis Leguminosae (fls/pet) Leucobryum glaucum Linum usitatissimum	1	charcoal freshwater mussel shell fgts gravel mammal bone  oyster shell fgts pottery wood fgts  Context 2023 Sample 206/T	1 1 1 1 1	max. size 5 mm max. size 30 mm max. size 200 mm max. size 60 mm v. dec., max. size
dicot stem fgts Dicranum sp(p). Dipsacus sativus/fullonum Eleocharis palustris sl Eurhynchium sp(p). fish scale Gramineae Hylocomium splendens Hyoscyamus niger Hypnum cf. cupressiforme Juncus bufonius Juncus sp(p). Lamium Section Lamiopsis Leguminosae (fls/pet) Leucobryum glaucum Linum usitatissimum (caps fgts)	1	charcoal freshwater mussel shell fgts gravel mammal bone  oyster shell fgts pottery wood fgts  Context 2023 Sample 206/T ?burnt peat fgts	1 1 1 1 1 1 1 1 1 1	max. size 5 mm  max. size 30 mm  max. size 200  mm  max. size 60 mm  v. dec., max. size  10 mm
dicot stem fgts Dicranum sp(p). Dipsacus sativus/fullonum Eleocharis palustris sl Eurhynchium sp(p). fish scale Gramineae Hylocomium splendens Hyoscyamus niger Hypnum cf. cupressiforme Juncus bufonius Juncus sp(p). Lamium Section Lamiopsis Leguminosae (fls/pet) Leucobryum glaucum Linum usitatissimum Linum usitatissimum (caps fgts) Malus sylvestris (endo)	1	charcoal freshwater mussel shell fgts gravel mammal bone  oyster shell fgts pottery wood fgts  Context 2023 Sample 206/T ?burnt peat fgts Anthemis cotula	1 1 1 1 1 1 1 1	max. size 5 mm  max. size 30 mm  max. size 200  mm  max. size 60 mm  v. dec., max. size  10 mm
dicot stem fgts Dicranum sp(p). Dipsacus sativus/fullonum Eleocharis palustris sl Eurhynchium sp(p). fish scale Gramineae Hylocomium splendens Hyoscyamus niger Hypnum cf. cupressiforme Juncus bufonius Juncus sp(p). Lamium Section Lamiopsis Leguminosae (fls/pet) Leucobryum glaucum Linum usitatissimum (caps fgts) Malus sylvestris (endo) Malva cf. sylvestris	1	charcoal freshwater mussel shell fgts gravel mammal bone  oyster shell fgts pottery wood fgts  Context 2023 Sample 206/T  ?burnt peat fgts Anthemis cotula Atriplex sp(p).	1 1 1 1 1 1 1 1 1	max. size 5 mm  max. size 30 mm  max. size 200  mm  max. size 60 mm  v. dec., max. size 10 mm
dicot stem fgts Dicranum sp(p). Dipsacus sativus/fullonum Eleocharis palustris sl Eurhynchium sp(p). fish scale Gramineae Hylocomium splendens Hyoscyamus niger Hypnum cf. cupressiforme Juncus bufonius Juncus sp(p). Lamium Section Lamiopsis Leguminosae (fls/pet) Leucobryum glaucum Linum usitatissimum Linum usitatissimum (caps fgts) Malus sylvestris (endo) Malva cf. sylvestris mammal bone	1	charcoal freshwater mussel shell fgts gravel mammal bone  oyster shell fgts pottery wood fgts  Context 2023 Sample 206/T  ?burnt peat fgts Anthemis cotula Atriplex sp(p). bark fgts	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	max. size 5 mm  max. size 30 mm  max. size 200  mm  max. size 60 mm  v. dec., max. size  10 mm
dicot stem fgts Dicranum sp(p). Dipsacus sativus/fullonum Eleocharis palustris sl Eurhynchium sp(p). fish scale Gramineae Hylocomium splendens Hyoscyamus niger Hypnum cf. cupressiforme Juncus bufonius Juncus sp(p). Lamium Section Lamiopsis Leguminosae (fls/pet) Leucobryum glaucum Linum usitatissimum Linum usitatissimum (caps fgts) Malus sylvestris (endo) Malva cf. sylvestris mammal bone Marrubium vulgare	1	charcoal freshwater mussel shell fgts gravel mammal bone  oyster shell fgts pottery wood fgts  Context 2023 Sample 206/T  ?burnt peat fgts Anthemis cotula Atriplex sp(p). bark fgts beetles	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	max. size 5 mm  max. size 30 mm  max. size 200  mm  max. size 60 mm  v. dec., max. size 10 mm
dicot stem fgts Dicranum sp(p). Dipsacus sativus/fullonum Eleocharis palustris sl Eurhynchium sp(p). fish scale Gramineae Hylocomium splendens Hyoscyamus niger Hypnum cf. cupressiforme Juncus bufonius Juncus sp(p). Lamium Section Lamiopsis Leguminosae (fls/pet) Leucobryum glaucum Linum usitatissimum Linum usitatissimum (caps fgts) Malus sylvestris (endo) Malva cf. sylvestris mammal bone	1	charcoal freshwater mussel shell fgts gravel mammal bone  oyster shell fgts pottery wood fgts  Context 2023 Sample 206/T  ?burnt peat fgts Anthemis cotula Atriplex sp(p). bark fgts beetles Bilderdykia convolvulus	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	max. size 5 mm  max. size 30 mm  max. size 200  mm  max. size 60 mm  v. dec., max. size 10 mm  max. size 2 mm
dicot stem fgts Dicranum sp(p). Dipsacus sativus/fullonum Eleocharis palustris sl Eurhynchium sp(p). fish scale Gramineae Hylocomium splendens Hyoscyamus niger Hypnum cf. cupressiforme Juncus bufonius Juncus sp(p). Lamium Section Lamiopsis Leguminosae (fls/pet) Leucobryum glaucum Linum usitatissimum Linum usitatissimum (caps fgts) Malus sylvestris (endo) Malva cf. sylvestris mammal bone Marrubium vulgare Neckera complanata Nepeta cataria	1	charcoal freshwater mussel shell fgts gravel mammal bone  oyster shell fgts pottery wood fgts  Context 2023 Sample 206/T  ?burnt peat fgts Anthemis cotula Atriplex sp(p). bark fgts beetles Bilderdykia convolvulus bone fgts	1 1 1 1 1 1 1 1 1 1 3 1 1 1	max. size 5 mm  max. size 30 mm  max. size 200  mm  max. size 60 mm  v. dec., max. size 10 mm  max. size 2 mm  max. size 20 mm
dicot stem fgts Dicranum sp(p). Dipsacus sativus/fullonum Eleocharis palustris sl Eurhynchium sp(p). fish scale Gramineae Hylocomium splendens Hyoscyamus niger Hypnum cf. cupressiforme Juncus bufonius Juncus sp(p). Lamium Section Lamiopsis Leguminosae (fls/pet) Leucobryum glaucum Linum usitatissimum Linum usitatissimum (caps fgts) Malus sylvestris (endo) Malva cf. sylvestris mammal bone Marrubium vulgare Neckera complanata	1	charcoal freshwater mussel shell fgts gravel mammal bone  oyster shell fgts pottery wood fgts  Context 2023 Sample 206/T  ?burnt peat fgts Anthemis cotula Atriplex sp(p). bark fgts beetles Bilderdykia convolvulus bone fgts brick/tile	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	max. size 5 mm  max. size 30 mm  max. size 200  mm  max. size 60 mm  v. dec., max. size 10 mm  max. size 2 mm
dicot stem fgts Dicranum sp(p). Dipsacus sativus/fullonum Eleocharis palustris sl Eurhynchium sp(p). fish scale Gramineae Hylocomium splendens Hyoscyamus niger Hypnum cf. cupressiforme Juncus bufonius Juncus sp(p). Lamium Section Lamiopsis Leguminosae (fls/pet) Leucobryum glaucum Linum usitatissimum Linum usitatissimum (caps fgts) Malus sylvestris (endo) Malva cf. sylvestris mammal bone Marrubium vulgare Neckera complanata Nepeta cataria	1	charcoal freshwater mussel shell fgts gravel mammal bone  oyster shell fgts pottery wood fgts  Context 2023 Sample 206/T  ?burnt peat fgts Anthemis cotula Atriplex sp(p). bark fgts beetles Bilderdykia convolvulus bone fgts brick/tile Calluna vulgaris (fls)	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	max. size 5 mm  max. size 30 mm  max. size 200  mm  max. size 60 mm  v. dec., max. size 10 mm  max. size 2 mm  max. size 20 mm
dicot stem fgts Dicranum sp(p). Dipsacus sativus/fullonum Eleocharis palustris sl Eurhynchium sp(p). fish scale Gramineae Hylocomium splendens Hyoscyamus niger Hypnum cf. cupressiforme Juncus bufonius Juncus sp(p). Lamium Section Lamiopsis Leguminosae (fls/pet) Leucobryum glaucum Linum usitatissimum Linum usitatissimum (caps fgts) Malus sylvestris (endo) Malva cf. sylvestris mammal bone Marrubium vulgare Neckera complanata Nepeta cataria Nuphar lutea	1	charcoal freshwater mussel shell fgts gravel mammal bone  oyster shell fgts pottery wood fgts  Context 2023 Sample 206/T  ?burnt peat fgts Anthemis cotula Atriplex sp(p). bark fgts beetles Bilderdykia convolvulus bone fgts brick/tile Calluna vulgaris (fls) Carex sp(p).	1 1 1 1 1 1 1 1 1 1 1 3 1 1 1 1 1 1 1	max. size 5 mm  max. size 30 mm  max. size 200  mm  max. size 60 mm  v. dec., max. size 10 mm  max. size 2 mm  max. size 20 mm
dicot stem fgts Dicranum sp(p). Dipsacus sativus/fullonum Eleocharis palustris sl Eurhynchium sp(p). fish scale Gramineae Hylocomium splendens Hyoscyamus niger Hypnum cf. cupressiforme Juncus bufonius Juncus sp(p). Lamium Section Lamiopsis Leguminosae (fls/pet) Leucobryum glaucum Linum usitatissimum Linum usitatissimum (caps fgts) Malus sylvestris (endo) Malva cf. sylvestris mammal bone Marrubium vulgare Neckera complanata Nepeta cataria Nuphar lutea Nymphaea alba Oenanthe fluviatilis	1	charcoal freshwater mussel shell fgts gravel mammal bone  oyster shell fgts pottery wood fgts  Context 2023 Sample 206/T  ?burnt peat fgts Anthemis cotula Atriplex sp(p). bark fgts beetles Bilderdykia convolvulus bone fgts brick/tile Calluna vulgaris (fls) Carex sp(p). cf. Calluna vulgaris (ch rt-tw fgts)	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	max. size 5 mm  max. size 30 mm  max. size 200  mm  max. size 60 mm  v. dec., max. size 10 mm  max. size 2 mm  max. size 20 mm
dicot stem fgts Dicranum sp(p). Dipsacus sativus/fullonum Eleocharis palustris sl Eurhynchium sp(p). fish scale Gramineae Hylocomium splendens Hyoscyamus niger Hypnum cf. cupressiforme Juncus bufonius Juncus sp(p). Lamium Section Lamiopsis Leguminosae (fls/pet) Leucobryum glaucum Linum usitatissimum Linum usitatissimum (caps fgts) Malus sylvestris (endo) Malva cf. sylvestris mammal bone Marrubium vulgare Neckera complanata Nepeta cataria Nuphar lutea Nymphaea alba Oenanthe fluviatilis Onopordum acanthium	1	charcoal freshwater mussel shell fgts gravel mammal bone  oyster shell fgts pottery wood fgts  Context 2023 Sample 206/T  ?burnt peat fgts Anthemis cotula Atriplex sp(p). bark fgts beetles Bilderdykia convolvulus bone fgts brick/tile Calluna vulgaris (fls) Carex sp(p). cf. Calluna vulgaris (ch rt-tw fgts) cf. Calluna vulgaris (rt-tw fgts)	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	max. size 5 mm  max. size 30 mm  max. size 200  mm  max. size 60 mm  v. dec., max. size 10 mm  max. size 2 mm  max. size 20 mm
dicot stem fgts Dicranum sp(p). Dipsacus sativus/fullonum Eleocharis palustris sl Eurhynchium sp(p). fish scale Gramineae Hylocomium splendens Hyoscyamus niger Hypnum cf. cupressiforme Juncus bufonius Juncus sp(p). Lamium Section Lamiopsis Leguminosae (fls/pet) Leucobryum glaucum Linum usitatissimum Linum usitatissimum (caps fgts) Malus sylvestris (endo) Malva cf. sylvestris mammal bone Marrubium vulgare Neckera complanata Nepeta cataria Nuphar lutea Nymphaea alba Oenanthe fluviatilis Onopordum acanthium oyster shell fgts	1	charcoal freshwater mussel shell fgts gravel mammal bone  oyster shell fgts pottery wood fgts  Context 2023 Sample 206/T  ?burnt peat fgts Anthemis cotula Atriplex sp(p). bark fgts beetles Bilderdykia convolvulus bone fgts brick/tile Calluna vulgaris (fls) Carex sp(p). cf. Calluna vulgaris (ch rt-tw fgts) cf. Calluna vulgaris (rt-tw fgts) cf. Calluna vulgaris (rt-tw fgts) cf. Pteridium aquilinum (stalk fgts)	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	max. size 5 mm  max. size 30 mm  max. size 200  mm  max. size 60 mm  v. dec., max. size  10 mm  max. size 2 mm  max. size 20 mm  max. size 20 mm  max. size 2 mm
dicot stem fgts Dicranum sp(p). Dipsacus sativus/fullonum Eleocharis palustris sl Eurhynchium sp(p). fish scale Gramineae Hylocomium splendens Hyoscyamus niger Hypnum cf. cupressiforme Juncus bufonius Juncus sp(p). Lamium Section Lamiopsis Leguminosae (fls/pet) Leucobryum glaucum Linum usitatissimum Linum usitatissimum (caps fgts) Malus sylvestris (endo) Malva cf. sylvestris mammal bone Marrubium vulgare Neckera complanata Nepeta cataria Nuphar lutea Nymphaea alba Oenanthe fluviatilis Onopordum acanthium oyster shell fgts Plantago major	1	charcoal freshwater mussel shell fgts gravel mammal bone  oyster shell fgts pottery wood fgts  Context 2023 Sample 206/T  ?burnt peat fgts Anthemis cotula Atriplex sp(p). bark fgts beetles Bilderdykia convolvulus bone fgts brick/tile Calluna vulgaris (fls) Carex sp(p). cf. Calluna vulgaris (ch rt-tw fgts) cf. Calluna vulgaris (rt-tw fgts)	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	max. size 5 mm  max. size 30 mm  max. size 200  mm  max. size 60 mm  v. dec., max. size 10 mm  max. size 2 mm  max. size 20 mm

charred moss	1		fly puparia	1	
Chenopodium album	1		Gramineae	2	
Corylus avellana	1	max. size 5 mm	gravel	1	max. size 15 mm
Daphnia (ephippia)	1		Hyoscyamus niger	1	
Diphasium complanatum	1	v. dec.	Juncus sp(p).	1	
Erica tetralix (ch lvs)	1		Lapsana communis	1	
fish bone	1	max. size 15 mm	Linum usitatissimum (caps fgts)	1	
fly puparia	1		Neckera complanata	1	
gravel	1	max. size 10 mm	Polygonum aviculare agg.	1	
grit	2		Polygonum hydropiper	1	
Juncus sp(p).	1		Quercus sp(p). (b/bs)	1	
Linum usitatissimum	1		Ranunculus sardous	1	
Linum usitatissimum (caps fgts)	1		Ranunculus sceleratus	1	
Plantago major	1		Ranunculus Section Ranunculus	1	
Polygonum aviculare agg.	1		Rumex sp(p).	1	
Potentilla anserina	1		Sambucus nigra (ch)	1	
Quercus sp(p). (b/bs)	1		sand	1	
Ranunculus sardous	2		Scirpus maritimus/lacustris	1	
Ranunculus Section Ranunculus	1		Scorpidium scorpioides	1	
Raphanus raphanistrum			snails	1	
(pod segs/fgts)	1		Solanum nigrum	1	
root/rootlet fgts	2		Sonchus oleraceus	1	
Rumex $sp(p)$ .	1		twig fgts	1	
Sambucus nigra	1		Urtica dioica	1	
sand	2		Urtica urens	1	
Scirpus cf. maritimus	1		Veronica beccabunga-type	1	
Scleranthus annuus	1		Context 2037		
sclereids (from bark)	1		Sample 2037/BS		
Sonchus asper	1				
Urtica dioica	1		brick/tile	1	max. size 30 mm
Urtica urens	1		charcoal	1	max. size 15 mm
wood fgts	2	max. size 30 mm	cobbles	2	max. dimension
				_	
				_	130 mm
			gravel	2	
Context 2030			gravel mammal bone	2	
Context 2030 Sample 286/SPT					
Sample 286/SPT			mammal bone		
	2	max. length 40	mammal bone  Context 2038		
Sample 286/SPT	2	mm x width 10	mammal bone		
Sample 286/SPT  Calluna vulgaris (rt-tw fgts)		C	Context 2038 Sample 2038/BS	1	
Sample 286/SPT  Calluna vulgaris (rt-tw fgts)  Calluna vulgaris (sht fgts)	2	mm x width 10	Context 2038 Sample 2038/BS Agrostemma githago (sf)	1	
Sample 286/SPT  Calluna vulgaris (rt-tw fgts)		mm x width 10	Context 2038 Sample 2038/BS Agrostemma githago (sf) Atriplex sp(p).	1 1 1	
Sample 286/SPT  Calluna vulgaris (rt-tw fgts)  Calluna vulgaris (sht fgts)	2	mm x width 10	mammal bone  Context 2038 Sample 2038/BS  Agrostemma githago (sf) Atriplex sp(p). beetles	1 1 1 1	130 mm
Sample 286/SPT  Calluna vulgaris (rt-tw fgts)  Calluna vulgaris (sht fgts) vivianite	2	mm x width 10	mammal bone  Context 2038 Sample 2038/BS  Agrostemma githago (sf) Atriplex sp(p). beetles bone fgts	1 1 1 1	130 mm max. size 40 mm
Sample 286/SPT  Calluna vulgaris (rt-tw fgts)  Calluna vulgaris (sht fgts)	2	mm x width 10	mammal bone  Context 2038 Sample 2038/BS  Agrostemma githago (sf) Atriplex sp(p). beetles bone fgts brick/tile	1 1 1 1 1	max. size 40 mm max. size 35 mm
Sample 286/SPT  Calluna vulgaris (rt-tw fgts)  Calluna vulgaris (sht fgts) vivianite  Sample 286/T	2 1	mm x width 10	mammal bone  Context 2038 Sample 2038/BS  Agrostemma githago (sf) Atriplex sp(p). beetles bone fgts brick/tile burnt bone fgts	1 1 1 1 1 1	130 mm max. size 40 mm
Sample 286/SPT  Calluna vulgaris (rt-tw fgts)  Calluna vulgaris (sht fgts) vivianite  Sample 286/T  Anthemis cotula	2 1	mm x width 10	mammal bone  Context 2038 Sample 2038/BS  Agrostemma githago (sf) Atriplex sp(p). beetles bone fgts brick/tile burnt bone fgts Calluna vulgaris (b)	1 1 1 1 1 1 1	max. size 40 mm max. size 35 mm
Sample 286/SPT  Calluna vulgaris (rt-tw fgts)  Calluna vulgaris (sht fgts) vivianite  Sample 286/T  Anthemis cotula bast fgts	2 1 1 1	mm x width 10 mm	Context 2038 Sample 2038/BS  Agrostemma githago (sf) Atriplex sp(p). beetles bone fgts brick/tile burnt bone fgts Calluna vulgaris (b) Carduus/Cirsium sp(p).	1 1 1 1 1 1 1 1	max. size 40 mm max. size 35 mm
Sample 286/SPT  Calluna vulgaris (rt-tw fgts)  Calluna vulgaris (sht fgts) vivianite  Sample 286/T  Anthemis cotula bast fgts brick/tile	2 1 1 1 1	mm x width 10	mammal bone  Context 2038 Sample 2038/BS  Agrostemma githago (sf) Atriplex sp(p). beetles bone fgts brick/tile burnt bone fgts Calluna vulgaris (b) Carduus/Cirsium sp(p). cf. Calluna vulgaris (rt-tw fgts)	1 1 1 1 1 1 1 1	max. size 40 mm max. size 35 mm
Sample 286/SPT  Calluna vulgaris (rt-tw fgts)  Calluna vulgaris (sht fgts) vivianite  Sample 286/T  Anthemis cotula bast fgts brick/tile Calluna vulgaris (fls)	2 1 1 1 1 1	mm x width 10 mm	mammal bone  Context 2038 Sample 2038/BS  Agrostemma githago (sf) Atriplex sp(p). beetles bone fgts brick/tile burnt bone fgts Calluna vulgaris (b) Carduus/Cirsium sp(p). cf. Calluna vulgaris (rt-tw fgts) Chenopodium album	1 1 1 1 1 1 1 1 1 1 1 1	max. size 40 mm max. size 35 mm
Sample 286/SPT  Calluna vulgaris (rt-tw fgts)  Calluna vulgaris (sht fgts) vivianite  Sample 286/T  Anthemis cotula bast fgts brick/tile Calluna vulgaris (fls) Calluna vulgaris (lvs)	2 1 1 1 1 1	mm x width 10 mm	mammal bone  Context 2038 Sample 2038/BS  Agrostemma githago (sf) Atriplex sp(p). beetles bone fgts brick/tile burnt bone fgts Calluna vulgaris (b) Carduus/Cirsium sp(p). cf. Calluna vulgaris (rt-tw fgts) Chenopodium album Chenopodium murale	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	max. size 40 mm max. size 35 mm max. size 10 mm
Sample 286/SPT  Calluna vulgaris (rt-tw fgts)  Calluna vulgaris (sht fgts) vivianite  Sample 286/T  Anthemis cotula bast fgts brick/tile Calluna vulgaris (fls) Calluna vulgaris (lvs) Calluna vulgaris (rt-tw fgts)	2 1 1 1 1 1 1 2	mm x width 10 mm	Context 2038 Sample 2038/BS  Agrostemma githago (sf) Atriplex sp(p). beetles bone fgts brick/tile burnt bone fgts Calluna vulgaris (b) Carduus/Cirsium sp(p). cf. Calluna vulgaris (rt-tw fgts) Chenopodium album Chenopodium murale Corylus avellana	1 1 1 1 1 1 1 1 1 1 1 1	max. size 40 mm max. size 35 mm
Sample 286/SPT  Calluna vulgaris (rt-tw fgts)  Calluna vulgaris (sht fgts) vivianite  Sample 286/T  Anthemis cotula bast fgts brick/tile Calluna vulgaris (fls) Calluna vulgaris (lvs) Calluna vulgaris (rt-tw fgts) Calluna vulgaris (sht fgts)	2 1 1 1 1 1 1 2 2	mm x width 10 mm	mammal bone  Context 2038 Sample 2038/BS  Agrostemma githago (sf) Atriplex sp(p). beetles bone fgts brick/tile burnt bone fgts Calluna vulgaris (b) Carduus/Cirsium sp(p). cf. Calluna vulgaris (rt-tw fgts) Chenopodium album Chenopodium murale Corylus avellana Erica tetralix (lvs)	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	max. size 40 mm max. size 35 mm max. size 10 mm
Sample 286/SPT  Calluna vulgaris (rt-tw fgts)  Calluna vulgaris (sht fgts) vivianite  Sample 286/T  Anthemis cotula bast fgts brick/tile Calluna vulgaris (fls) Calluna vulgaris (lvs) Calluna vulgaris (rt-tw fgts) Calluna vulgaris (sht fgts) Carex sp(p).	2 1 1 1 1 1 1 2 2	mm x width 10 mm	mammal bone  Context 2038 Sample 2038/BS  Agrostemma githago (sf) Atriplex sp(p). beetles bone fgts brick/tile burnt bone fgts Calluna vulgaris (b) Carduus/Cirsium sp(p). cf. Calluna vulgaris (rt-tw fgts) Chenopodium album Chenopodium murale Corylus avellana Erica tetralix (lvs) fly puparia	1 1 1 1 1 1 1 1 1 1 1 1 1	max. size 40 mm max. size 35 mm max. size 10 mm
Calluna vulgaris (rt-tw fgts)  Calluna vulgaris (sht fgts) vivianite  Sample 286/T  Anthemis cotula bast fgts brick/tile Calluna vulgaris (fls) Calluna vulgaris (fls) Calluna vulgaris (rt-tw fgts) Calluna vulgaris (sht fgts) Calluna vulgaris (sht fgts) Carex sp(p). Cerastium sp(p).	2 1 1 1 1 1 2 2 1 1	mm x width 10 mm	Context 2038 Sample 2038/BS  Agrostemma githago (sf) Atriplex sp(p). beetles bone fgts brick/tile burnt bone fgts Calluna vulgaris (b) Carduus/Cirsium sp(p). cf. Calluna vulgaris (rt-tw fgts) Chenopodium album Chenopodium murale Corylus avellana Erica tetralix (lvs) fly puparia Galeopsis Subgenus Galeopsis	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	max. size 40 mm max. size 35 mm max. size 10 mm
Calluna vulgaris (rt-tw fgts)  Calluna vulgaris (sht fgts) vivianite  Sample 286/T  Anthemis cotula bast fgts brick/tile Calluna vulgaris (fls) Calluna vulgaris (fls) Calluna vulgaris (rt-tw fgts) Calluna vulgaris (rt-tw fgts) Calluna vulgaris (sht fgts) Carex sp(p). Cerastium sp(p). cf. Campylium sp(p).	2 1 1 1 1 1 2 2 1 1 1	mm x width 10 mm	mammal bone  Context 2038 Sample 2038/BS  Agrostemma githago (sf) Atriplex sp(p). beetles bone fgts brick/tile burnt bone fgts Calluna vulgaris (b) Carduus/Cirsium sp(p). cf. Calluna vulgaris (rt-tw fgts) Chenopodium album Chenopodium murale Corylus avellana Erica tetralix (lvs) fly puparia Galeopsis Subgenus Galeopsis gravel	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	max. size 40 mm max. size 35 mm max. size 10 mm
Calluna vulgaris (rt-tw fgts)  Calluna vulgaris (sht fgts) vivianite  Sample 286/T  Anthemis cotula bast fgts brick/tile Calluna vulgaris (fls) Calluna vulgaris (fls) Calluna vulgaris (rt-tw fgts) Calluna vulgaris (rt-tw fgts) Calluna vulgaris (sht fgts) Carex sp(p). Cerastium sp(p). cf. Campylium sp(p). cf. Diphasium sp(p).	2 1 1 1 1 1 2 2 1 1 1 1 1	mm x width 10 mm	mammal bone  Context 2038 Sample 2038/BS  Agrostemma githago (sf) Atriplex sp(p). beetles bone fgts brick/tile burnt bone fgts Calluna vulgaris (b) Carduus/Cirsium sp(p). cf. Calluna vulgaris (rt-tw fgts) Chenopodium album Chenopodium murale Corylus avellana Erica tetralix (lvs) fly puparia Galeopsis Subgenus Galeopsis gravel herbaceous detritus	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	max. size 40 mm max. size 35 mm max. size 10 mm
Calluna vulgaris (rt-tw fgts)  Calluna vulgaris (sht fgts) vivianite  Sample 286/T  Anthemis cotula bast fgts brick/tile Calluna vulgaris (fls) Calluna vulgaris (fls) Calluna vulgaris (rt-tw fgts) Calluna vulgaris (rt-tw fgts) Calluna vulgaris (sht fgts) Carex sp(p). Cerastium sp(p). cf. Campylium sp(p). cf. Diphasium sp(p). cf. Pseudoscleropodium purum	2 1 1 1 1 1 2 2 1 1 1 1 1 1	mm x width 10 mm	mammal bone  Context 2038 Sample 2038/BS  Agrostemma githago (sf) Atriplex sp(p). beetles bone fgts brick/tile burnt bone fgts Calluna vulgaris (b) Carduus/Cirsium sp(p). cf. Calluna vulgaris (rt-tw fgts) Chenopodium album Chenopodium murale Corylus avellana Erica tetralix (lvs) fly puparia Galeopsis Subgenus Galeopsis gravel herbaceous detritus Hypochoeris sp(p).	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	max. size 40 mm max. size 35 mm max. size 10 mm
Calluna vulgaris (rt-tw fgts)  Calluna vulgaris (sht fgts) vivianite  Sample 286/T  Anthemis cotula bast fgts brick/tile Calluna vulgaris (fls) Calluna vulgaris (fls) Calluna vulgaris (rt-tw fgts) Calluna vulgaris (rt-tw fgts) Calluna vulgaris (sht fgts) Carex sp(p). Cerastium sp(p). cf. Campylium sp(p). cf. Diphasium sp(p). cf. Pseudoscleropodium purum Chenopodium album	2 1 1 1 1 1 2 2 1 1 1 1 1 1 1 1 1	mm x width 10 mm	mammal bone  Context 2038 Sample 2038/BS  Agrostemma githago (sf) Atriplex sp(p). beetles bone fgts brick/tile burnt bone fgts Calluna vulgaris (b) Carduus/Cirsium sp(p). cf. Calluna vulgaris (rt-tw fgts) Chenopodium album Chenopodium murale Corylus avellana Erica tetralix (lvs) fly puparia Galeopsis Subgenus Galeopsis gravel herbaceous detritus Hypochoeris sp(p). Neckera complanata	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	max. size 40 mm max. size 35 mm max. size 10 mm
Calluna vulgaris (rt-tw fgts)  Calluna vulgaris (sht fgts) vivianite  Sample 286/T  Anthemis cotula bast fgts brick/tile Calluna vulgaris (fls) Calluna vulgaris (fls) Calluna vulgaris (rt-tw fgts) Calluna vulgaris (rt-tw fgts) Calluna vulgaris (sht fgts) Carex sp(p). Cerastium sp(p). cf. Campylium sp(p). cf. Diphasium sp(p). cf. Pseudoscleropodium purum Chenopodium album concretions	2 1 1 1 1 1 2 2 1 1 1 1 1 1 1 1 1 1 1 1	mm x width 10 mm	mammal bone  Context 2038 Sample 2038/BS  Agrostemma githago (sf) Atriplex sp(p). beetles bone fgts brick/tile burnt bone fgts Calluna vulgaris (b) Carduus/Cirsium sp(p). cf. Calluna vulgaris (rt-tw fgts) Chenopodium album Chenopodium murale Corylus avellana Erica tetralix (lvs) fly puparia Galeopsis Subgenus Galeopsis gravel herbaceous detritus Hypochoeris sp(p). Neckera complanata Polygonum hydropiper	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	max. size 40 mm max. size 35 mm max. size 10 mm
Calluna vulgaris (rt-tw fgts)  Calluna vulgaris (sht fgts) vivianite  Sample 286/T  Anthemis cotula bast fgts brick/tile Calluna vulgaris (fls) Calluna vulgaris (fls) Calluna vulgaris (rt-tw fgts) Calluna vulgaris (rt-tw fgts) Calluna vulgaris (sht fgts) Carex sp(p). Cerastium sp(p). cf. Campylium sp(p). cf. Diphasium sp(p). cf. Pseudoscleropodium purum Chenopodium album concretions Coronopus squamatus (fr)	2 1 1 1 1 1 2 2 1 1 1 1 1 1 1 1 1 1 1 1	mm x width 10 mm	mammal bone  Context 2038 Sample 2038/BS  Agrostemma githago (sf) Atriplex sp(p). beetles bone fgts brick/tile burnt bone fgts Calluna vulgaris (b) Carduus/Cirsium sp(p). cf. Calluna vulgaris (rt-tw fgts) Chenopodium album Chenopodium murale Corylus avellana Erica tetralix (lvs) fly puparia Galeopsis Subgenus Galeopsis gravel herbaceous detritus Hypochoeris sp(p). Neckera complanata Polygonum hydropiper Polygonum lapathifolium	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	max. size 40 mm max. size 35 mm max. size 10 mm
Calluna vulgaris (rt-tw fgts)  Calluna vulgaris (sht fgts) vivianite  Sample 286/T  Anthemis cotula bast fgts brick/tile Calluna vulgaris (fls) Calluna vulgaris (fls) Calluna vulgaris (rt-tw fgts) Calluna vulgaris (rt-tw fgts) Calluna vulgaris (sht fgts) Carex sp(p). Cerastium sp(p). cf. Campylium sp(p). cf. Diphasium sp(p). cf. Pseudoscleropodium purum Chenopodium album concretions	2 1 1 1 1 1 2 2 1 1 1 1 1 1 1 1 1 1 1 1	mm x width 10 mm	mammal bone  Context 2038 Sample 2038/BS  Agrostemma githago (sf) Atriplex sp(p). beetles bone fgts brick/tile burnt bone fgts Calluna vulgaris (b) Carduus/Cirsium sp(p). cf. Calluna vulgaris (rt-tw fgts) Chenopodium album Chenopodium murale Corylus avellana Erica tetralix (lvs) fly puparia Galeopsis Subgenus Galeopsis gravel herbaceous detritus Hypochoeris sp(p). Neckera complanata Polygonum hydropiper	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	max. size 40 mm max. size 35 mm max. size 10 mm

D C .: C	1		C (6)		
Prunus Section Cerasus	1		Coronopus squamatus (fr)		. 15
Ranunculus sardous	1 2		Corylus avellana 1		max. size 15 mm
Ranunculus sceleratus Ranunculus Section Ranunculus			Crataegus sp./Prunus spinosa (thorns) Daucus carota		1
	1 1		Daucus carota 1 dicot lf fgts 1		
Rumex sp(p). Salix sp(p). (b)	2		dicot stem fgts 1		
Sambucus nigra	1		Diphasium complanatum 2		v. dec.
Stellaria media	2		Erica tetralix (lvs)		v. uec.
twig fgts	1		Eurhynchium praelongum 1		
Urtica dioica	2		Eurhynchium striatum 1		
Urtica urens	2		gravel 1		max. size 15 mm
Viola sp(p).	1		grit 2		max. Size 13 mm
wood chips	1		Homalothecium sericeum/lutescens 1		
wood fgts	1	max. size 10 mm	Hordeum sp(p).		a single
					specimen
			Hylocomium splendens 1	1	
Context 2065			Hypnum cf. cupressiforme 1	1	
Sample 2065/BS			Isothecium myosuroides 1	1	
1			Isothecium myurum 1	1	
bird bone	1	max. size 40 mm	Juncus sp(p).	1	
brick/tile	1	max. size 15 mm	Lamium Section Lamiopsis 1	1	
charcoal	1	max. size 15 mm	Lapsana communis 1	1	
gravel	1	max. size 50 mm	leather fgts 1	1	max. size 2 mm
mammal bone	1	max. dimension	Leguminosae (fls/pet) 1	1	
		130 mm	Leucobryum glaucum 1	1	
oyster shell fgts	1	max. size 30 mm	Linum usitatissimum (caps fgts) 1	1	
wood fgts	1	max. size 50 mm	Linum usitatissimum (sf) 1	1	
			Malus sylvestris (endo)	1	
Context 2087			Neckera complanata	_	
Sample 2087/BS			Neckera crispa 1	_	
			Polygonum aviculare agg. 1	_	
bone fgts	1	max. size 30 mm	Polygonum hydropiper 1		
brick/tile	1	max. size 60 mm	Polygonum lapathifolium 1		
burnt bone fgts	1	max. size 15 mm	Polygonum persicaria 1		
herbaceous detritus	1		Potentilla anserina 1		
oyster shell fgts	1	max. size 15 mm	Ranunculus sardous 2		
pebbles	1	max. size 80 mm	Rubus fruticosus agg. 1		
pottery	1	max. size 20 mm	Rumex sp(p). (inc per)		
			Salix sp(p). (b) 1	-	
			Sambucus nigra 1	_	
Context 2131			sand 1 Scandix pecten-veneris 1		
Sample 280/T			r		
			sclereids (from bark) 3 Scorpidium scorpioides 1		
Aethusa cynapium	1		Sonchus asper 1		
Agrostemma githago (sf)	1		Sphagnum sp(p).	-	
Anthemis cotula	1		Stellaria media	-	
Atriplex sp(p).	1		Triticum/Secale ('bran' fgts)	-	
Aulacomnium palustre	1	: 20	Ulota sp(p).		
bark fgts	4	max. size 20 mm	Urtica dioica 2		
beetles  Petulo an(n)	1		Urtica urens 2		
Betula sp(p).	1	may siza 20 mm	wood chips 1		max. size 10 mm
bone fgts Brassica sp./Sinapis arvensis	1	max. size 20 mm	wood fgts 1		max. size 10 mm
Calluna vulgaris (b)	1				
Calluna vulgaris (caps)	1				
Calluna vulgaris (caps)	2		Context 2160		
Calluna vulgaris (sht fgts)	1		Sample 287/T		
Carduus/Cirsium sp(p).	1				
Carex sp(p).	1		Agrimonia eupatoria (ch)	1	
cf. Calluna vulgaris (ch rt-tw fgts)	1		Agrostemma githago (ch sf) 1		
charcoal	1	max. size 10 mm	Anthemis cotula (ch)	1	
Chenopodium album	1		Atriplex sp(p).	1	
Chenopodium murale	1		Aulacomnium palustre 1	1	
*					

8	1 max. size 10 mm	cf. Glyceria sp(p).	1
8	1 max. size 10 mm	charcoal	3 max. size 20 mm
	1 max. size 10 mm	charred herbaceous detritus	1
8	1 max. size 10 mm	charred moss	1
T d y	1	charred rhizome/root fgts	1
147 ( )	1	Coronopus squamatus	1
cf. Calluna vulgaris (ch rt-tw fgts)	1	Corylus avellana	1 v. dec., max. size
charcoal	3 max. size 30 mm		5 mm
charred herbaceous detritus	1	Descurainia sophia	1
Chenopodium album	2	dicot stem fgts	1
Chenopodium murale	1	Dicranum sp(p).	1
Cladium mariscus (ch lf fgts)	2	Diphasium complanatum	1 v. dec.
	1	Erica tetralix (lvs)	1
Coronopus squamatus (fr)	1	Eurhynchium sp(p).	1
	1 max. size 10 mm	Eurhynchium striatum	1
•	1	fly puparia	1
	1 max. size 4 mm	Galeopsis Subgenus Galeopsis	1
	1	Gramineae/Cerealia (ch c/n)	1
	1	gravel	1 max. size 15 mm
	2 max. size 15 mm	Homalothecium sericeum/lutescens	1
8	1	Hylocomium splendens	1
	1		1
Hypnum cf. cupressiforme		Hypnum cf. cupressiforme	
Neckera complanata	1	Isothecium myurum	1
J. J. T.	1	Juneus cf. bufonius	1
Polygonum persicaria	1	Lapsana communis	1
1 otenuma en ereeta	1	Leguminosae (pods/fgts)	1
Raphanus raphanistrum (pod segs/fgt	s) 1	Linum usitatissimum	1
Sambucus nigra	1	Linum usitatissimum (caps fgts)	1
	2	Neckera complanata	1
8	1	Pleurozium schreberi	1
Sonchus asper	1		
Sonchus oleraceus	1	Polygonum aviculare agg.	1
Thuidium cf. tamariscinum	1	Polygonum hydropiper	1
Urtica dioica	2	Polygonum lapathifolium	1
Urtica urens	2	Potentilla cf. reptans	1
		Pseudoscleropodium purum	1
		Quercus (charcoal)	1
Context 2178		Quercus sp(p). (b/bs)	1
Sample 292/T		Ranunculus sardous	1
		Raphanus raphanistrum	
Aethusa cynapium	1	(pod segs/fgts)	1
	1	root bark/epidermis fgts	1
	1	Rubus fruticosus agg.	1
	1	Rumex sp(p). (inc per)	1
	1	Sambucus nigra	1
•	2	sand	1
	1	Scandix pecten-veneris	1
		sclereids (from bark)	2
bark fgts	2 v. dec., max.	Scorpidium scorpioides	1
1 4	size 15 mm		
	1	Sonchus asper	1
E	1 max. size 25 mm	Sonchus oleraceus	1
T	1	Thuidium cf. tamariscinum	1
1 (1)	1	Triglochin maritima	1
	1 max. size 2 mm	Triticum/Secale ('bran' fgts)	1
Calliergon cuspidatum	1	Ulota sp(p).	1
Calluna vulgaris (fls)	1	Urtica dioica	2
Calluna vulgaris (rt-tw fgts)	1	Urtica urens	2
Calluna vulgaris (sht fgts)	1	wood chips	1
Campylium stellatum	1	wood fgts	2 v. dec., max. size
	1		20 mm
	1		
	1		
	1		

Context 2189		Raphanus raphanistrum (pod segs/fgts)	1
Sample 296/T		Rubus fruticosus agg. 1	
	1	Rumex sp(p). 1	
		Sambucus nigra 1	
Anagallis arvensis Atriplex sp(p).		Sambucus nigra (ch) 1 sand 2	
1 1 1 1 1			
bark fgts	v. dec., max. size 25 mm	sclereids (from bark) 1 Scorpidium scorpioides 1	
beetles		Scorpidium scorpioides 1 snails 1	
bone fgts		Sonchus asper 1	
brick/tile		Sonchus oleraceus 1	
Calluna vulgaris (b)		Sphagnum sp(p). (lvs)	
<b>S</b> 1. 7	1	Stellaria media	
Calluna vulgaris (fls)		Thuidium cf. tamariscinum 1	
<del>-</del>	1	Urtica dioica 2	
- · · · · · · · · · · · · · · · · · · ·	1	Urtica urens 2	
	1	Veronica beccabunga-type 2	
Carex sp(p).		Viola sp(p).	
cf. Anagallis arvensis		wood chips 1	max. size 3 mm
cf. Calluna vulgaris (rt-tw fgts)	1	wood fgts 1	max. size 5 mm
charcoal			
Chenopodium album	1		
-	1	Context 2191	
-	1	Sample 311/T	
Coronopus squamatus	1	•	
Coronopus squamatus (fr)	1	bark fgts 2	v. dec., max. size
Corylus avellana	l max. size 10 mm		20 mm
dicot lf fgts		beetles 1	
dicot stem fgts		brick/tile 1	max. size 10 mm
Diphasium complanatum	l v. dec.	burnt bone fgts 1	max. size 5 mm
eggshell fgts	1 max. size 5 mm	Carduus/Cirsium sp(p). 1	
Eleocharis palustris sl	1	Carex $sp(p)$ .	
Erica cinerea (lvs)	1	cf. Calluna vulgaris (rt-tw fgts) 1	
Eurhynchium striatum		cf. Rorippa islandica 1	
fish bone		charcoal 1	max. size 5 mm
	2	Coronopus squamatus (fr) 1	
gravel		Corylus avellana 1	max. size 10 mm
grit		eggshell membrane fgts 1	
Homalothecium sericeum/lutescens		fish bone 1	max. size 10 mm
Hylocomium splendens		freshwater snails 1	
Isothecium myosuroides		Galeopsis Subgenus Galeopsis 1	. 20
Isothecium myurum		gravel 1	max. size 20 mm
Juncus sp(p).		grit 1	
leaf ab pads		Isothecium myurum 1	
leather fgts Leontodon sp(p).		leather fgts 1	max. size 5 mm
=	1 [	Neckera complanata 1 oyster shell fgts 1	
		oyster shell fgts 1 Polygonum hydropiper 1	
Neckera complanata	=	Polygonum lapathifolium 2	
Plantago major		Polygonum persicaria 2	
Polygonum aviculare agg.		Ranunculus sceleratus 1	
• •	2	Raphanus raphanistrum (pod segs/fgts)	1
Polygonum lapathifolium		Rubus fruticosus agg. 1	1
	2	Rumex sp(p).	
Polytrichum sp(p).		Sambucus nigra 1	
	1	sand 2	
	1	sclereids (from bark)	
Prunella vulgaris		Scorpidium scorpioides 1	
Prunus spinosa (thorns)	1	snails 1	a single
Quercus sp(p). (b/bs)	1		specimen
Ranunculus sardous	1	Sonchus asper 1	•
Ranunculus sceleratus	1	Sonchus oleraceus 1	
Ranunculus Section Ranunculus	1	Stellaria media 1	

Thuidium cf. tamariscinum	1		fish bone	1	
Urtica dioica	2		fish scale	1	
Urtica urens	3		Juncus sp(p).	1	
Veronica beccabunga-type	1		Lemna sp(p). (fronds)	1	
wood chips	1	max. size 10 mm	pottery	1	max. size 15 mm
wood fgts	1	v. dec., max. size	sand	2	
		10 mm			
Context 3005			Sample 3069/BS		
Sample 3005/BS			bone fgts	1	
Sample 3003/DS			brick/tile	1	max. size 100
bone fgts	1	max. size 70 mm	offen, the	•	mm
brick/tile	2	max. size 70 mm	charcoal	1	max. size 10 mm
charcoal	1	max. size 5 mm	cobbles	1	max. size 80 mm
gravel	1	max. size 50 mm	gravel	1	max. size 30 mm
pottery	1	max. size 50 mm	otoliths	1	
			oyster shell fgts	1	
			pottery	1	max. size 40 mm
Context 3006					
Sample 3006/BS					
			Context 3077		
bone fgts	1	max. size 25 mm	Sample 156/T		
brick/tile	1	max. size 35 mm			
burnt bone fgts	1	max. size 30 mm	'char'	1	max. size 1 mm
cf. Calluna vulgaris (ch rt-tw fgts)	1	max. size 15 mm	Agrostemma githago		
gravel	1	max. size 45 mm	(min casts/moulds)	1	
Sambucus nigra	1		Bilderdykia convolvulus (min)	1	
			bone fgts	1	1
G 2005			Brassica sp./Sinapis arvensis (min co brick/tile	οι) 1	1 max. size 50 mm
Context 3007			Cerealia indet. (min)	1	max. Size 30 mm
Sample 3007/BS			cf. Cannabis sativa (min)	1	a single
brick/tile	1	max. size 80 mm	cr. cumuois survu (mm)	1	specimen
charcoal	1	max. size 15 mm	cf. Prunus sp(p). (min s)	1	<b>Бресинен</b>
gravel	1	max. size 50 mm	charcoal	1	max. size 5 mm
mammal bone	1	max. size 100	faecal concretions	3	max. size 30 mm
mammar bone	•	man. size 100	fish bone	1	m
			fly puparia (min)	1	m
pottery	1	max. size 30 mm	Heterodera (cysts)	1	
			Malus sylvestris (min)	1	
			Prunus sp(p). (min meso+endo)	1	
Context 3067			rat-tailed maggot (min fgts)	2	
Sample 3067/BS			sand	1	
brick/tile	1	max. size 70 mm	Sample 3077/BS		
burnt bone fgts	1	max. size 10 mm			
charcoal	1	max. size 5 mm	amphibian bone	1	
cinders	1	max. size 20 mm	brick/tile	1	max. size 65 mm
coal	1	max. size 25 mm	faecal concretions	2	max. size 30 mm
gravel	1	max. size 25 mm			
mammal bone	1	max. size 30 mm			
pottery	1	max. size 80 mm	Context 3078		
			Sample 3078/BS		
Context 3069			amphibian bone	1	
Sample 160/T			brick/tile	1	max. size 40 mm
Sample 100/1			charcoal	1	max. size 5 mm
Alisma sp(p).	1	'embryos' only	fish bone	1	
brick/tile	2	max. size 40 mm	gravel	1	max. size 50 mm
charcoal	2	max. size 15 mm	mammal bone	1	
cinders	1	max. size 5 mm	pottery	1	max. size 25 mm
coal	1	max. size 5 mm			

Context 3082 Sample 3082/BS			Sample 3178/BS		
1			?burnt peat fgts	1	max. size 10 mm
bone fgts	1	max. size 80 mm	bird bone	1	max. size 50 mm
brick/tile	2	max. dimension	brick/tile	1	
		130 mm	burnt bone fgts	1	max. size 15 mm
charcoal	1	max. size 5 mm	burnt oyster shell fgts	1	max. size 15 mm
gravel	1	max. size 70 mm	charcoal	1	max. size 10 mm
pottery	1	max. size 60 mm	gravel	1	
			mammal bone	1	
G + +2100			pottery	1	max. size 60 mm
Context 3100					
Sample 3100/BS			C + 41022/1022		
hone fats	1	max. size 80 mm	Context1032/1033		
bone fgts brick/tile	1	max. size 40 mm	Sample 85/T		
burnt bone fgts	1	max. size 25 mm	'ash beads'	1	
charcoal	1	max. size 10 mm	bark fgts	3	max. size 25 mm
gravel	1	max. size 50 mm	bast fgts	1	max. Size 25 mm
pottery	1	max. size 60 mm	bone fgts	1	max. size 30 mm
pottery	•	max. size oo min	brick/tile	1	max. size 15 mm
			burnt bone fgts	1	max. size 10 mm
Context 3169			Carex sp(p).	1	max. Size 10 mm
Sample 183/T			cf. Calluna vulgaris (ch rt-tw fgts)	1	
Sumple 103/1			charcoal	1	max. size 20 mm
bird bone	1		Chenopodium cf. polyspermum	1	
brick/tile	1		grit	1	
charcoal	1	max. size 5 mm	sand	1	
fish bone	1				
gravel	1	max. size 50 mm			
mammal bone	1	max. size 50 mm	Context 999		
pottery	1	max. size 40 mm	Sample 271/T		
			Anthemis cotula	1	
Sample 184/T			Anthemis cotula (ch)	1	
			bark fgts	4	max. size 60 mm
bone fgts	1	max. size 15 mm	bast fgts	3	max. size 5 mm
brick/tile	2	max. size 25 mm	buds	1	
charcoal	2	max. size 15 mm	Calluna vulgaris (caps)	1	fragment(s) only
concreted sediment	2	: 10	cf. Calluna vulgaris (ch rt-tw fgts)	1	: 10
gravel	2	max. size 40 mm max. size 15 mm	charcoal		max. size 10 mm
pottery			T1 1 1 1 1 1	1	
Cambuaus nigra		max. size 15 mm	Eleocharis palustris sl	1	
Sambucus nigra	1	max. size 15 mm	Gramineae/Cerealia (ch culm fgts)	1	
Sambucus nigra sand		max. size 15 mm	Gramineae/Cerealia (ch culm fgts) grit	1 1 1	
	1	max. size 15 mm	Gramineae/Cerealia (ch culm fgts) grit Isothecium myosuroides	1 1 1 1	
sand	1	max. size 15 mm	Gramineae/Cerealia (ch culm fgts) grit Isothecium myosuroides Isothecium myurum	1 1 1 1	
sand Context 3178	1	max. size 15 mm	Gramineae/Cerealia (ch culm fgts) grit Isothecium myosuroides Isothecium myurum monocot lf/stem fgts	1 1 1 1 1	
sand	1	max. size 15 mm	Gramineae/Cerealia (ch culm fgts) grit Isothecium myosuroides Isothecium myurum monocot lf/stem fgts Neckera crispa	1 1 1 1 1 1	
context 3178 Sample185/T	1		Gramineae/Cerealia (ch culm fgts) grit Isothecium myosuroides Isothecium myurum monocot lf/stem fgts Neckera crispa root/rootlet fgts	1 1 1 1 1	
Context 3178 Sample185/T Alisma sp(p).	1 2	'embryos' only max. size 50 mm	Gramineae/Cerealia (ch culm fgts) grit Isothecium myosuroides Isothecium myurum monocot lf/stem fgts Neckera crispa root/rootlet fgts Rumex sp(p).	1 1 1 1 1 1 1	
context 3178 Sample185/T	1 2	'embryos' only	Gramineae/Cerealia (ch culm fgts) grit Isothecium myosuroides Isothecium myurum monocot lf/stem fgts Neckera crispa root/rootlet fgts	1 1 1 1 1 1 1 1	
Context 3178 Sample185/T Alisma sp(p). bone fgts	1 2 1 1	'embryos' only max. size 50 mm	Gramineae/Cerealia (ch culm fgts) grit Isothecium myosuroides Isothecium myurum monocot lf/stem fgts Neckera crispa root/rootlet fgts Rumex sp(p). sclereids (from bark)	1 1 1 1 1 1 1 1 1	
Context 3178 Sample185/T Alisma sp(p). bone fgts brick/tile	1 2 1 1 3	'embryos' only max. size 50 mm max. size 30 mm	Gramineae/Cerealia (ch culm fgts) grit Isothecium myosuroides Isothecium myurum monocot lf/stem fgts Neckera crispa root/rootlet fgts Rumex sp(p). sclereids (from bark) Urtica dioica	1 1 1 1 1 1 1 1 1 2	max. size 30 mm
Context 3178 Sample185/T  Alisma sp(p). bone fgts brick/tile burnt bone fgts	1 2 1 1 3 1	'embryos' only max. size 50 mm max. size 30 mm max. size 10 mm	Gramineae/Cerealia (ch culm fgts) grit Isothecium myosuroides Isothecium myurum monocot lf/stem fgts Neckera crispa root/rootlet fgts Rumex sp(p). sclereids (from bark) Urtica dioica Urtica urens	1 1 1 1 1 1 1 1 1 2 1	
context 3178 Sample185/T Alisma sp(p). bone fgts brick/tile burnt bone fgts charcoal coal Coniferae (charcoal)	1 1 1 3 1 2	'embryos' only max. size 50 mm max. size 30 mm max. size 10 mm max. size 30 mm	Gramineae/Cerealia (ch culm fgts) grit Isothecium myosuroides Isothecium myurum monocot lf/stem fgts Neckera crispa root/rootlet fgts Rumex sp(p). sclereids (from bark) Urtica dioica Urtica urens	1 1 1 1 1 1 1 1 1 2 1	
Context 3178 Sample185/T  Alisma sp(p). bone fgts brick/tile burnt bone fgts charcoal coal	1 1 1 3 1 2 1	'embryos' only max. size 50 mm max. size 30 mm max. size 10 mm max. size 30 mm max. size 10 mm max. size 10 mm	Gramineae/Cerealia (ch culm fgts) grit Isothecium myosuroides Isothecium myurum monocot lf/stem fgts Neckera crispa root/rootlet fgts Rumex sp(p). sclereids (from bark) Urtica dioica Urtica urens	1 1 1 1 1 1 1 1 1 2 1	
context 3178 Sample185/T  Alisma sp(p). bone fgts brick/tile burnt bone fgts charcoal coal Coniferae (charcoal) Fe object(s) gravel	1 1 1 3 1 2 1 1	'embryos' only max. size 50 mm max. size 30 mm max. size 10 mm max. size 30 mm max. size 10 mm	Gramineae/Cerealia (ch culm fgts) grit Isothecium myosuroides Isothecium myurum monocot lf/stem fgts Neckera crispa root/rootlet fgts Rumex sp(p). sclereids (from bark) Urtica dioica Urtica urens	1 1 1 1 1 1 1 1 1 2 1	
context 3178 Sample185/T  Alisma sp(p). bone fgts brick/tile burnt bone fgts charcoal coal Coniferae (charcoal) Fe object(s) gravel Lemna sp(p). (fronds)	1 1 1 3 1 2 1 1 1 1 2 1	'embryos' only max. size 50 mm max. size 30 mm max. size 10 mm max. size 30 mm max. size 10 mm max. size 10 mm max. size 30 mm	Gramineae/Cerealia (ch culm fgts) grit Isothecium myosuroides Isothecium myurum monocot lf/stem fgts Neckera crispa root/rootlet fgts Rumex sp(p). sclereids (from bark) Urtica dioica Urtica urens	1 1 1 1 1 1 1 1 1 2 1	
context 3178 Sample185/T  Alisma sp(p). bone fgts brick/tile burnt bone fgts charcoal coal Coniferae (charcoal) Fe object(s) gravel Lemna sp(p). (fronds) pottery	1 1 1 3 1 2 1 1 1 2 1 1	'embryos' only max. size 50 mm max. size 30 mm max. size 10 mm max. size 30 mm max. size 10 mm max. size 10 mm	Gramineae/Cerealia (ch culm fgts) grit Isothecium myosuroides Isothecium myurum monocot lf/stem fgts Neckera crispa root/rootlet fgts Rumex sp(p). sclereids (from bark) Urtica dioica Urtica urens	1 1 1 1 1 1 1 1 1 2 1	
context 3178 Sample185/T  Alisma sp(p). bone fgts brick/tile burnt bone fgts charcoal coal Coniferae (charcoal) Fe object(s) gravel Lemna sp(p). (fronds)	1 1 1 3 1 2 1 1 1 1 2 1	'embryos' only max. size 50 mm max. size 30 mm max. size 10 mm max. size 30 mm max. size 10 mm max. size 10 mm max. size 30 mm	Gramineae/Cerealia (ch culm fgts) grit Isothecium myosuroides Isothecium myurum monocot lf/stem fgts Neckera crispa root/rootlet fgts Rumex sp(p). sclereids (from bark) Urtica dioica Urtica urens	1 1 1 1 1 1 1 1 1 2 1	

Table 9. Lists of macroinvertebrates recovered from deposits at Layerthorpe Bridge, York. ReM—recording method (N = non-quantitative; R = rapid-scan, sensu Kenward 1992). The data columns are, firstly number of individuals, secondly a code for quantification (- = count, s = several, m = many, sensu Kenward et al. 1986). Ecological codes are those listed in Table 11. In each list adult Coleoptera and Hemiptera are listed in rank order, followed by other invertebrate groups.

Contact: 6 Sample: 4/SDT CA: 2 DaM	I. NI			Vulodromus concinnus	1	_	ert at
Context: 6 Sample: 4/SPT CA: ? ReM	I. IN			Xylodromus concinnus	1	_	rt-st rf
Weight: 0.00 E: 0.00 F: 0.00				Platystethus arenarius			
				Anotylus nitidulus	1	-	rt-d
Agonum sp.	1	-	oa	Anotylus sculpturatus group	1	-	rt
				Anotylus tetracarinatus	1	-	rt
				Oxytelus sculptus	1	-	rt-st
Context: 14 Sample: 48/T ReM: R				Lathrobium sp.	1	-	u
Weight: 2.00 E: 0.00 F: 0.00				Neobisnius sp.	1	-	u
				Philonthus sp. A	1	-	u
Trox scaber	6	S	rt-sf	Philonthus sp. B	1	-	u
Pterostichus sp.	1	-	ob	Cordalia obscura	1	-	rt-sf
Cercyon sp.	1	-	u	Aleocharinae sp.	1	-	u
Elateridae sp.	1	_	ob	Aphodius ?prodromus	1	_	ob-rf
Anobium punctatum	1	_	l-sf	Oxyomus sylvestris	1	_	rt-sf
Chrysomelinae sp.	1	_	oa-p	?Elateridae sp.	1	_	ob
Curculionidae sp.	1	_	oa	Elateridae sp.	1	_	ob
*Daphnia sp. (ephippium)	1	_	oa-w	Anobium punctatum	1	_	l-sf
*Diptera sp. (puparium)	1	_	u u	Cryptophagus sp.	1	_	rd-sf
Діріста sp. (рарапані)	1	_	u	Atomaria sp.	1	_	rd
				-			
C				Corticarina sp.	1	-	rt
Context: 15 Sample: 49/T ReM: R				Apion sp.	1	-	oa-p
Weight: 1.00 E: 0.00 F: 0.00				Curculionidae sp.	1	-	oa
	_			*Coleoptera sp. (larva)	15	m	u
Aphodius sp.	2	-	ob-rf	*Acarina sp.	6	S	u
Helophorus sp.	1	-	oa-w	*Daphnia sp. (ephippium)	6	S	oa-w
Cercyon sp.	1	-	u	*Insecta sp. pupa	6	S	u
Aleocharinae sp.	1	-	u	*Insecta sp. (larva)	3	-	u
*?Heterodera sp. (cyst)	2	-	u	*Sepsidae sp. (puparium)	1	-	u
*Coleoptera sp. (larva)	1	-	u	*Sphaeroceridae sp. (puparium)	1	-	rt
*Acarina sp.	1	-	u	*Diptera sp. (puparium)	1	-	u
•				, , ,			
Context: 16 Sample: 52/T ReM: R				Context: 18 Sample: 41/T ReM: R			
Weight: 1.00 E: 0.00 F: 0.00				Weight: 2.00 E: 0.00 F: 0.00			
Trox scaber	6	S	rt-sf	Ochthebius sp.	15	m	oa-w
Lathridius minutus group	3	-	rd-st	Aleocharinae sp.	15	m	u
Cercyon analis	2	-	rt-sf	Hydroporinae sp.	6	S	oa-w
Cercyon haemorrhoidalis	2	-	rf-sf	Cercyon haemorrhoidalis	6	S	rf-sf
Acritus nigricornis	2	-	rt-st	Cercyon sp. C	6	S	u
Coprophilus striatulus	2	_	rt-st	Megasternum obscurum	6	S	rt
Gyrohypnus ?fracticornis	2	_	rt-st	Phaedon sp.	6	s	oa-p
Aphodius sp.	2	_	ob-rf	Helophorus sp. A	2	_	oa-w
Heteroptera sp.	1	_	u	Helophorus sp. B	2	_	oa-w
Hemiptera sp.	1	_	u	Hydrobius fuscipes	2	_	oa-w
Trechus obtusus or quadristriatus	1	_	oa	Limnebius sp.	2	_	oa-w
Trechus micros	1	_	u	Ptiliidae sp.	2	_	u
Bembidion sp.	1	-		Anotylus nitidulus	2	_	u rt-d
*	1	-	oa		2	_	
Agonum sp.			oa ob	Anotylus rugosus	2		rt rd
Carabidae sp.	1	-	ob f	Atomaria sp. B		-	rd
Sphaeridium ?bipustulatum	1	-	rf	Drymus sp.	1	-	oa-p
Cercyon atricapillus	1	-	rf-st	Anthocoris sp.	1	-	oa-p
Megasternum obscurum	1	-	rt	Saldidae sp.	1	-	oa-d

?Loricera pilicornis	1	-	oa	*Acarina sp.	15	m	u
Clivina fossor	1	-	oa	*Daphnia sp. (ephippium)	15	m	oa-w
Bembidion (Philochthus) sp.	1	-	oa	*Oligochaeta sp. (egg capsule)	15	m	u
Bembidion sp. A	1	-	oa	*Diptera sp. (larva)	15	m	u
Bembidion sp. B	1	-	oa	*Diptera sp. (puparium)	15	m	u
Pterostichus sp.	1	-	ob	*Insecta sp. pupa	15	m	u
Amara sp. A	1	-	oa	*Aranae sp.	6	S	u
Amara sp. B	1	_	oa	*Ostracoda sp.	6	s	u
?Bradycellus sp.	1	_	oa	*Aphidoidea sp.	1	_	u
Chlaenius sp.	1	_	u	*Formicidae sp.	1	_	u
Colymbetes fuscus	1	_	oa-w	r.			
Dytiscidae sp.	1	_	oa-w				
Cercyon ?terminatus	1	_	rf-st	Context: 19 Sample: 45/T ReM: R			
Cercyon sp. A	1	_	u	Weight: 2.00 E: 0.00 F: 0.00			
Cercyon sp. B	1	_	u	Weight: 2.00 E. 0.00 T. 0.00			
Anacaena sp.	1	_	oa-w	Aleocharinae sp.	15	m	u
Hydrophilinae sp.	1	_	oa-w	Hemiptera sp.	6	S	u
Acidota crenata	1	_		Helophorus sp. A	6	S	
	1	_	oa ob-d				oa-w
Carpelimus ?rivularis				Helophorus sp. B	6	S	oa-w
Carpelimus sp.	1	-	u 1	Staphylininae sp.	6	S	u
Platystethus cornutus group	1	-	oa-d	Ochthebius sp.	2	-	oa-w
Platystethus nitens	1	-	oa-d	Carpelimus sp.	2	-	u .
Anotylus sculpturatus group	1	-	rt	Lathridius minutus group	2	-	rd-st
Stenus sp. A	1	-	u	Saldidae sp.	1	-	oa-d
Stenus sp. B	1	-	u	Clivina sp.	1	-	oa
Gyrohypnus fracticornis	1	-	rt-st	Trechus obtusus or quadristriatus	1	-	oa
Gyrohypnus punctulatus	1	-	rt-st	Bembidion (Philochthus) sp.	1	-	oa
Xantholinus linearis or longiventris	1	-	rt-sf	Bembidion sp.	1	-	oa
Philonthus sp. A	1	-	u	Bembidion sp. B	1	-	oa
Philonthus sp. B	1	-	u	Pterostichus melanarius	1	-	ob
Philonthus sp. C	1	-	u	Agonum sp.	1	-	oa
Gabrius sp.	1	-	rt	Amara sp.	1	-	oa
Tachyporus sp. A	1	-	u	?Harpalus sp.	1	-	oa
Tachyporus sp. B	1	-	u	Metabletus sp.	1	-	oa
Pselaphidae sp.	1	_	u	Haliplidae sp.	1	_	oa-w
Aphodius ?prodromus	1	_	ob-rf	Agabus or Ilybius sp.	1	_	oa-w
Aphodius sp.	1	_	ob-rf	Helophorus sp. C	1	_	oa-w
Anobium punctatum	1	_	l-sf	Cercyon analis	1	_	rt-sf
Meligethes sp.	1	_	oa-p	Cercyon atricapillus	1	_	rf-st
Cryptophagus ?scutellatus	1	_	rd-st	Cercyon sp.	1	_	u
Cryptophagus sp.	1	_	rd-sf	Hydrobius fuscipes	1	_	oa-w
Atomaria sp. A	1	_	rd	Lesteva sp.	1	_	oa-d
Orthoperus sp.	1	-	rt	Omalium sp.	1	_	rt
Coccinellidae sp.	1	_		Xylodromus concinnus	1	_	
Lathridius minutus group	1	_	oa-p rd-st	Aploderus caelatus	1	_	rt-st
		-				_	rt oo d
Corticaria sp.	1	-	rt-sf	Platystethus nitens	1		oa-d
Corticarina sp.	1	-	rt	Anotylus nitidulus	1	-	rt-d
Bruchinae sp.	1	-	u	Anotylus rugosus	1	-	rt
Donaciinae sp.	1	-	oa-w-	Anotylus sculpturatus group	1	-	rt
p				Anotylus tetracarinatus	1	-	rt
Chrysomelinae sp.	1	-	oa-p	Stenus sp.	1	-	u
Phyllotreta nemorum group	1	-	oa-p	Gyrohypnus fracticornis	1	-	rt-st
Halticinae sp.	1	-	oa-p	Philonthus sp.	1	-	u
Apion sp.	1	-	oa-p	Tachyporus sp.	1	-	u
Tanysphyrus lemnae	1	-	oa-w-	Tachyporus sp. B	1	-	u
p				Tachyporus sp. C	1	-	u
Bagous sp.	1	-	oa-w	Tachinus sp.	1	-	u
?Notaris acridulus	1	-	oa-d-	Aleochara sp.	1	-	u
p				Aphodius ?granarius	1	-	ob-rf
Ceutorhynchus ?contractus	1	-	oa-p	Aphodius sp. A	1	-	ob-rf
Scolytidae sp.	1	-	1	Aphodius sp. B	1	-	ob-rf
*Opiliones sp.	15	m	u	Cyphon sp.	1	-	oa-d
*Coleoptera sp. (larva)	15	m	u	Anobium punctatum	1	-	l-sf
* * * /				*			

Tipnus unicolor	1	-	rd-st	Coleoptera sp.	1	-	u
Ptinus fur	1	-	rd-sf				
Meligethes sp.	1	-	oa-p				
Oryzaephilus surinamensis	1	-	g-ss	Context: 40 Sample: 19/T ReM: R			
Atomaria sp.	1	-	rd	Weight: 1.00 E: 0.00 F: 0.00			
Corticaria sp.	1	-	rt-sf	-			
Corticarina fuscula	1	_	rt	Hemiptera sp.	6	s	u
Donaciinae sp.	1	_	oa-w-	Hydroporinae sp.	6	s	oa-w
p				Aleocharinae sp.	6	S	u
Phaedon sp.	1	_	oa-p	Colymbetinae sp. A	1	-	oa-w
Chaetocnema concinna	1	_	oa-p	Colymbetinae sp. 14	1	_	oa-w
?Psylliodes sp.	1	_	-	Helophorus sp.	1	_	
	1	_	oa-p	Cercyon sp.	1	_	oa-w
Apion sp.			oa-p				u
Sitona sp.	1	-	oa-p	Hydrobius fuscipes	1	-	oa-w
Ceuthorhynchinae sp.	1	-	oa-p	?Laccobius sp.	1	-	oa-w
*Coleoptera sp. (larva)	15	m		Stenus sp.	1	-	u
*Acarina sp.	15	m	u	Xantholinus linearis or longiventris	1	-	rt-sf
*Daphnia sp. (ephippium)	15	m	oa-w	Trox scaber	1	-	rt-sf
*Diptera sp. (larva)	15	m	u	Aphodius sp.	1	-	ob-rf
*Insecta sp. pupa	15	m	u	Elmidae sp.	1	-	oa-w
*Diptera sp. (adult)	6	s	u	Anobium punctatum	1	-	l-sf
*Insecta sp. (larva)	6	s	u	Ptinus sp.	1	_	rd-sf
*Diptera sp. (puparium)	6	s	u	Atomaria sp.	1	_	rd
*Opiliones sp.	2	_	u	Lathridius minutus group	1	_	rd-st
орионез эр.	_		u	Donaciinae sp.	1	_	oa-w-
				-	1		Ou-w-
Contaxt: 20 Sample: 39/T DaM: D				p Halticinae sp.	1		00.0
Context: 20 Sample: 38/T ReM: R					1	-	oa-p
Weight: 2.00 E: 0.00 F: 0.00				Apion sp.		-	oa-p
	_			*Diptera sp. (larva)	15	m	u
Aleocharinae sp.	6	S	u .	*Acarina sp.	6	S	u
Platystethus cornutus group	2	-	oa-d	*Diptera sp. (puparium)	6	S	u
Oxytelus sculptus	2	-	rt-st	*Apoidea sp.	1	-	u
Cercyon haemorrhoidalis	1	-	rf-sf	*Aranae sp.	1	-	u
Cercyon sp.	1	-	u	*Ostracoda sp.	1	-	u
Megasternum obscurum	1	-	rt	*Insecta sp. pupa	1	-	u
Hydrobius fuscipes	1	-	oa-w				
Lesteva sp.	1	_	oa-d				
Platystethus nitens	1	_	oa-d	Context: 41 Sample: 27/T ReM: R			
Anotylus rugosus	1	_	rt	Weight: 1.00 E: 0.00 F: 0.00			
Gyrohypnus sp.	1	_	rt	8			
Philonthus sp. A	1	_	u	Hemiptera sp.	1	_	u
Philonthus sp. B	1	_	u	Dyschirius sp.	1	_	oa
Philonthus sp. C	1	_	u	Xantholinus linearis or longiventris		_	rt-sf
	1		u ob-rf		1		
Aphodius sp.		-		Trox scaber		-	rt-sf
Ptinus sp.	1	-	rd-sf	Aphodius sp.	1	-	ob-rf
Atomaria sp.	1	-	rd	Cryptophagus sp.	1	-	rd-sf
?Chrysomelinae sp.	1	-	oa-p	Phyllotreta nemorum group	1	-	oa-p
Ceutorhynchus sp.	1	-	oa-p	*Insecta sp. (larva)	1	-	u
*Coleoptera sp. (larva)	6	S	u				
*Insecta sp. pupa	6	S	u				
*Daphnia sp. (ephippium)	1	-	oa-w	Context: 1003 Sample: 36/BS ReM: N			
*Diptera sp. (puparium)	1	-	u	Weight: 0.00 E: 0.00 F: 0.00			
				Hydrobius fuscipes	1	-	oa-w
				Donaciinae sp.	1	_	oa-w-
Context: 38 Sample: 17/T ReM: R				р			
Weight: 1.00 E: 0.00 F: 0.00				Chrysomelinae sp.	1	_	oa-p
				*Diptera sp. (puparium)	2	_	u
Dyticcidae en	1		00.117				
Dytiscidae sp.	1	-	oa-w	*Sphaeroceridae sp. (puparium)	1	-	rt
Catops sp.	1	-	u	*Insecta sp. pupa	1	-	u
Trox sp.	1	-	rt				
Melolonthinae/Rutelinae/Cetoninae sp.	1	-	oa-p				
Anobium punctatum	1	-	l-sf				
Lathridius minutus group	1	-	rd-st				

Context: 1024 Sample: 73/T ReM: R				Cryptophagus sp.	2	-	rd-sf
Weight: 1.00 E: 0.00 F: 0.00				Lathridius minutus group	2	-	rd-st
				Aglenus brunneus	2	-	rt-ss
Hydroporinae sp.	6	S	oa-w	Apion sp. C	2	-	oa-p
Aleocharinae sp.	6	S	u	Nebria sp.	1	-	oa
Hemiptera sp.	3	-	u	Trechus obtusus or quadristriatus	1	-	oa
Helophorus sp.	2	-	oa-w	Bembidion sp.	1	-	oa
Helophorus sp. B	2	-	oa-w	Harpalus sp.	1	-	oa
Corixidae sp.	1	-	oa-w	Carabidae sp. A	1	-	ob
Bembidion sp.	1	-	oa	Carabidae sp. B	1	-	ob
Carabidae sp.	1	-	ob	Hydroporinae sp. A	1	-	oa-w
Haliplidae sp.	1	-	oa-w	Hydroporinae sp. B	1	-	oa-w
Dytiscidae sp.	1	-	oa-w	Cercyon convexiusculus group	1	-	oa-d
Cercyon terminatus	1	-	rf-st	Megasternum obscurum	1	-	rt
Cercyon ?ustulatus	1	-	oa-d	Hydrobius fuscipes	1	-	oa-w
Ochthebius sp.	1	-	oa-w	Hydrophilinae sp. A	1	-	oa-w
Omalium rivulare	1	-	rt-sf	Hydrophilinae sp. B	1	-	oa-w
Carpelimus sp.	1 1	-	u rf	Hydrophilinae sp. C	1 1	-	oa-w
Platystethus arenarius Anotylus rugosus		-		Hydrophilinae sp. D	1	-	oa-w
	1 1	-	rt	Acritus nigricornis	1	-	rt-st
Anotylus sculpturatus group	1	-	rt	Ochthebius sp. Ptenidium sp.	1	-	oa-w
Anotylus tetracarinatus	1	-	rt	Omaliinae sp.	1	_	rt
Stenus sp. Lathrobium sp.	1	-	u u	Carpelimus ?fuliginosus	1	_	rt st
•	1	-	u rt	Platystethus arenarius	1	_	rf
Gabrius sp. Mycetoporus sp.	1	-	u	Anotylus nitidulus	1	-	rt-d
Aphodius granarius	1	_	ob-rf	Stenus sp.	1	_	u
Aphodius sp.	1	_	ob-rf	Gyrohypnus sp.	1	_	rt
Dryops sp.	1	_	oa-d	Gabrius sp.	1	_	rt
Elmidae sp.	1	_	oa-w	?Bobitobius sp.	1	_	u
Elateridae sp.	1	_	ob-w	Tachinus sp.	1	_	u U
Meligethes sp.	1	_	oa-p	Aphodius sp. A	1	_	ob-rf
Atomaria sp.	1	_	rd	Aphodius sp. B	1	_	ob-rf
Coccinellidae sp.	1	_	oa-p	Elateridae sp.	1	_	ob
Corticaria sp.	1	_	rt-sf	Brachypterus sp.	1	_	oa-p
Corticarina sp.	1	_	rt	?Telmatophilus sp.	1	_	oa-d
Donaciinae sp. A	1	_	oa-w-	Corticaria sp.	1	_	rt-sf
p	•		ou 11	Anthicus sp.	1	_	rt
Donaciinae sp. B	1	_	oa-w-	?Macroplea sp.	1	_	oa-w
p	•		<i>-</i>	Donaciinae sp.	1	_	oa-w-
Halticinae sp.	1	_	oa-p	p	-		o <b>u</b>
Sitona sp.	1	_	oa-p	Apion sp.	1	_	oa-p
Coleoptera sp.	1	_	u	Apion sp. B	1	_	oa-p
*Coleoptera sp. (larva)	15	m		Notaris sp.	1	_	oa-d-
*Acarina sp.	15	m		p			
*Daphnia sp. (ephippium)	15		oa-w	Ceutorhynchus sp. A	1	_	oa-p
*Diptera sp. (adult)	15	m		Ceutorhynchus sp. B	1	_	oa-p
*Oligochaeta sp. (egg capsule)	15	m	u	Scolytidae sp.	1	_	1
*Ostracoda sp.	15	m	u	*Coleoptera sp. (larva)	15	m	u
*Diptera sp. (larva)	15	m		*Diptera sp. (adult)	15	m	u
*Insecta sp. pupa	15	m		*Diptera sp. (larva)	15	m	u
*Opiliones sp.	6	S	u	*Acarina sp.	6	s	u
*Diptera sp. (puparium)	6	s	u	*Oligochaeta sp. (egg capsule)	6	S	u
*Aranae sp.	1	-	u	*Ostracoda sp.	6	S	u
*Trichoptera sp. (case)	1	-	oa-w	*Insecta sp. pupa	6	S	u
				*Diptera sp. (puparium)	3	-	u
				*Formicidae sp.	1	-	u
Context: 1027 Sample: 75/T CA: ? Re	M: R			*Trichoptera sp. (case)	1	-	oa-w
Weight: 2.00 E: 0.00 F: 0.00							
Aleocharinae sp.	6	S	u				
Helophorus sp.	2	-	oa-w				
Anobium punctatum	2	-	l-sf				

Context: 1029 Sample: 79/T ReM: R				Aleochara sp.	1	_	u
Weight: 2.00 E: 0.00 F: 0.00				Cyphon sp.	1	-	oa-d
Trox scaber	6	s	rt-sf	Anobium punctatum Lyctus linearis	1 1	-	l-sf l-sf
Hemiptera sp.	1	-	u	Atomaria sp.	1	-	rd
Cercyon sp.	1	_	u	Lathridius minutus group	1	_	rd-st
Staphylinidae sp.	1	_	u	Anthicus sp.	1	_	rt
Aphodius sp.	1	_	ob-rf	Bruchinae sp.	1	_	u
Cyphon sp.	1	_	oa-d	Chrysomelinae sp.	1	_	oa-p
Anobium punctatum	1	_	l-sf	Apion sp.	1	_	oa-p
Lathridius minutus group	1	-	rd-st	Coleoptera sp.	1	-	u
Chrysomelinae sp. A	1	-	oa-p	*Diptera sp. (larva)	15	m	u
Chrysomelinae sp. B	1	-	oa-p	*Diptera sp. (puparium)	15	m	u
*Diptera sp. (puparium)	3	-	u	*Muscidae sp. (puparium)	6	S	u
*Coleoptera sp. (larva)	1	-	u	*Sphaeroceridae sp. (puparium)	6	S	rt
*?Heterodera sp. (cyst)	1	-	u	*Insecta sp. pupa	6	S	u
				*Coleoptera sp. (larva)	1	-	u
				*?Scatopse notata	1	-	rt
Context: 1031 Sample: 84/T ReM: R				*Daphnia sp. (ephippium)	1	-	oa-w
Weight: 2.00 E: 0.00 F: 0.00				*Sepsidae sp. (puparium)	1	-	u
	_		2				
Trox scaber	3	-	rt-sf				
Hemiptera sp.	1	-	u	Context: 1047 Sample: 95/T ReM: R			
Cercyon sp.	1	-	u	Weight: 3.00 E: 0.00 F: 0.00			
Anotylus rugosus	1	-	rt	A41	1		4
Anobium punctatum	1 1	_	l-sf	Anotylus rugosus	1 1	-	rt
*Coleoptera sp. (larva) *?Heterodera sp. (cyst)	1	-	u u	Staphylinidae sp. Anobium punctatum	1	-	u l-sf
Heterodera sp. (cyst)	1	-	u	Rhizophagus sp.	1	-	1-81 U
				Atomaria sp.	1	-	u rd
Context: 1033 Sample: 68/T ReM: R				Lathridius minutus group	1	_	rd-st
Weight: 2.00 E: 0.00 F: 0.00				?Gastrophysa viridula	1	_	oa-p
Weight. 2.00 E. 0.00 1. 0.00				Sitona sp.	1	_	oa-p
Trox scaber	2	_	rt-sf	Curculionidae sp.	1	_	oa p
Cercyon sp.	1	_	u	*Insecta sp. (larva)	3	_	u
Gyrohypnus sp.	1	_	rt	*Diptera sp. (adult)	1	_	u
Aleocharinae sp.	1	_	u	*Oligochaeta sp. (egg capsule)	1	-	u
Staphylinidae sp.	1	-	u	*Sepsidae sp. (puparium)	1	-	u
Lathridius minutus group	1	-	rd-st	*Syrphidae sp. (larva)	1	-	u
Chrysomelinae sp.	1	-	oa-p	*Diptera sp. (puparium)	1	-	u
Halticinae sp.	1	-	oa-p				
*Oligochaeta sp. (egg capsule)	6	S	u				
*Diptera sp. (puparium)	2	-	u	Context: 1052 Sample: 117/T ReM: R			
*Acarina sp.	1	-	u	Weight: 1.00 E: 0.00 F: 0.00			
				m 1			
C				Trox scaber	15		rt-sf
Context: 1039 Sample: 90/T ReM: R				Cercyon sp.	1	-	u
Weight: 1.00 E: 0.00 F: 0.00				Histerinae sp.	1 1	-	rt
Carayan analis	6	c	rt of	Omalium sp.	1	-	rt on d
Cercyon analis Cercyon ?terminatus	6	S S	rt-sf rf-st	Cyphon sp. Chrysomelinae sp.	1	-	oa-d
Oxytelus sculptus	6	S	rt-st	Curculionidae sp.	1	_	oa-p oa
Aleocharinae sp.	6	S	u	*Diptera sp. (puparium)	2	_	u
Trox scaber	6	S	rt-sf	*Daphnia sp. (ephippium)	1	_	oa-w
Histeridae sp.	3	-	u	2 upimiu spr (epimppium)	-		o <b>u</b>
Trechus sp.	1	_	ob				
Bembidion sp.	1	_	oa	Context: 2023 Sample: 206/T ReM: R			
Helophorus sp.	1	_	oa-w	Weight: 1.00 E: 0.00 F: 0.00			
Ptenidium sp.	1	-	rt	_			
Anotylus nitidulus	1	-	rt-d	Cercyon analis	6	S	rt-sf
Anotylus rugosus	1	-	rt	Anobium punctatum	3	-	l-sf
Xantholininae sp.	1	-	u	Trox scaber	2	-	rt-sf
Philonthus sp.	1	-	u	Helophorus sp.	1	-	oa-w

III:-ti	1		4	*C-1	_		
Histerinae sp.	1	-	rt	*Coleoptera sp. (larva)	6	S	u
Xylodromus concinnus	1	-	rt-st	*Diptera sp. (larva)	6	S	u
Carpelimus sp.	1	-	u 	*Bibionidae sp.	1	-	u
Anotylus nitidulus	1	-	rt-d	*Dermaptera sp.	1	-	u
Anotylus tetracarinatus	1	-	rt	*Diptera sp. (adult)	1	-	u
Gyrohypnus ?fracticornis	1	-	rt-st	*Oligochaeta sp. (egg capsule)	1	-	u
Aleocharinae sp.	1	-	u				
Staphylinidae sp.	1	-	u				
Aphodius sp.	1	-	ob-rf	Context: 2131 Sample: 280/T ReM: R			
Cryptophagus sp.	1	-	rd-sf	Weight: 1.00 E: 0.00 F: 0.00			
Atomaria sp.	1	-	rd				
Lathridius minutus group	1	-	rd-st	Platystethus arenarius	6	S	rf
Corticaria sp.	1	-	rt-sf	Platystethus cornutus group	6	S	oa-d
*Acarina sp.	15	m	u	Anotylus nitidulus	6	S	rt-d
*Diptera sp. (puparium)	15	m	u	Aleocharinae sp.	6	S	u
*Coleoptera sp. (larva)	6	S	u	Trox scaber	6	S	rt-sf
*Diptera sp. (larva)	6	S	u	Anotylus rugosus	2	-	rt
*Insecta sp. pupa	6	S	u	Anobium punctatum	2	-	l-sf
*Daphnia sp. (ephippium)	1	-	oa-w	Carabus sp.	1	-	oa
				Bembidion sp.	1	-	oa
				?Bradycellus sp.	1	-	oa
Context: 2030 Sample: 286/T ReM: R				Helophorus sp.	1	-	oa-w
Weight: 1.00 E: 0.00 F: 0.00				Cercyon analis	1	-	rt-sf
				Cercyon ?haemorrhoidalis	1	-	rf-sf
Aleocharinae sp.	6	S	u	Acritus nigricornis	1	-	rt-st
Platystethus cornutus group	3	-	oa-d	Carpelimus sp.	1	-	u
Lyctus linearis	3	-	l-sf	Platystethus sp.	1	-	oa-d
Lathridius minutus group	3	-	rd-st	Oxytelus sculptus	1	-	rt-st
Ochthebius sp.	2	-	oa-w	Stenus sp.	1	_	u
Hydraena sp.	2	_	oa-w	Leptacinus sp.	1	_	rt-st
Anotylus nitidulus	2	_	rt-d	Philonthus sp.	1	_	u
Trechus micros	1	_	u	Aphodius sp.	1	_	ob-rf
Bembidion sp. C	1	_	oa	Oxyomus sylvestris	1	_	rt-sf
Bembidion (Peryphus) sp.	1	_	oa	Cyphon sp.	1	_	oa-d
Bembidion sp. A	1	_	oa	Ptinus fur	1	_	rd-sf
Bembidion sp. B	1	_	oa	?Rhizophagus sp.	1	_	u
?Amara sp.	1	_	oa	Monotoma sp. A	1	_	rt-sf
Carabidae sp.	1	_	ob	Monotoma sp. B	1	_	rt-sf
Dytiscidae sp.	1	_	oa-w	Atomaria sp.	1	_	rd
Helophorus sp. A	1	_	oa-w	Mycetaea hirta	1	_	rd-ss
Helophorus sp. B	1	_	oa-w	Lathridius minutus group	1	_	rd-st
Cercyon analis	1	_	rt-sf	?Enicmus sp.	1	_	rt-sf
Cercyon sp. A	1	_	u	Corticaria sp. A	1	_	rt-sf
Cercyon sp. B	1	_	u	Corticaria sp. B	1	_	rt-sf
Hydrobius fuscipes	1	_	oa-w	Aglenus brunneus	1	_	rt-ss
Limnebius sp.	1	_	oa-w	Chaetocnema concinna	1	_	oa-p
Micropeplus fulvus	1	_	rt	Halticinae sp.	1	_	oa-p
Omalium sp.	1	_	rt	Curculionidae sp.	1	_	oa
Xylodromus concinnus	1	_	rt-st	*Acarina sp.	15	m	u
Carpelimus bilineatus	1	_	rt-sf	*Coleoptera sp. (larva)	6	S	u
Anotylus rugosus	1	_	rt	*Diptera sp. (adult)	6	S	u
Xantholinus linearis or longiventris	1	_	rt-sf	*Diptera sp. (puparium)	6	s	u
Philonthus ?politus	1	_	u	*Insecta sp. (papariam)	6	S	u
?Gabrius sp.	1	_	rt	*Coccoidea sp.	1	-	u
Trox sp.	1	_	rt	*Opiliones sp.	1	_	u
Aphodius sp.	1	-	ob-rf	*Apoidea sp.	1	_	u U
Anobium punctatum	1	_	l-sf	ripolica sp.	1	_	u
	1	-	rt-sf				
Corticaria sp. Corticarina sp.	1	_	rt	Context: 2160 Sample: 287/T ReM: R			
Halticinae sp.	1	_		Weight: 1.00 E: 0.00 F: 0.00			
-	1	-	oa-p	weight, 1.00 E. 0.00 F. 0.00			
Coleoptera sp.	15		u	Anotylus rugosus	6	c	rt
*Acarina sp.		m	u	Anotylus rugosus	6	S	rt
*Coccoidea sp.	6	S	u	Aleocharinae sp.	6	S	u

Climbus sp.	Cliving on	1			Clambus on	1		mt of
Carabidae sp.	-							
Dysticidae sp.   1								
Helophorus sp. A	-							
Helophorus sp. B								
Cercyon analis								
Cercyon sp.   1								
Pallidae sp.								
Demailmar cassum or italicum								
Note								
Carpelmus fuliginosus								_
Platystethus arenarius								_
Stenus sp.								-
Mantholinus linearis or longiventris   1	-							
Philonthus sp.								
Gabrius sp.   1								
Falagria sp.   1	-							
Falagria sp.								
Trox scaber					· insecta sp. pupa	O	8	u
Aphodius sp.   1								
Anobium punctatum					Contaxt: 2180 Sample: 206/T DaM: D			
Rhizophagus sp.								
Atomaria sp.	-				Weight. 2.00 E. 0.00 F. 0.00			
Corticaria sp.   1					Aleocharinae sn	15	m	11
Gastrophysa viridula	•				-			
Halticinae sp.   1	Gastrophysa viridula							
Apion sp.								
Ceutorhynchus sp.         1         -         oa-p         Anotylus nitidulus         2         -         rt-d           **Coleoptera sp. (larva)         6         s         u         Aphodius sp.         2         -         ob-f*           *Diptera sp. (puparium)         6         s         u         Anobium punctatum         2         -         l-sf*           *Diptera sp. (adult)         2         -         u         Cryptophagus sp.         2         -         rd-sf*           *Aranae sp.         1         -         u         Corticarina sp.         2         -         rt-sf           Context: 2178 Sample: 292/T ReM: R         - <th< td=""><td></td><td></td><td></td><td>-</td><td></td><td></td><td></td><td></td></th<>				-				
**Coleoptera sp. (larva)								
*Diptera sp. (puparium) 66 s s u Anobium punctatum 2 c - l-sf *Diptera sp. (adult) 2 c - u Cryptophagus sp. 2 c - rd-sf *Aranae sp. 1 c - u Cryptophagus sp. 2 c - rd-sf *Aranae sp. 1 c - u Cryptophagus sp. 2 c - rd-sf *Aranae sp. 1 c - u Cryptophagus sp. 2 c - rd-sf  *Aranae sp. 1 c - u Cryptophagus sp. 2 c - rd-sf  *Aranae sp. 1 c - oa  Weight: 1.00 E: 0.00 F: 0.00  **Weight: 1.00 E: 0.00 F: 0.00  **Hydroporinae sp. 1 c - oa-w  **Weight: 1.00 E: 0.00 F: 0.00  **Weight: 1.00 E: 0.0								
*PDiptera sp. (adult)								
*Aranae sp.   1							_	
Trechus micros   1			_				_	
Context: 2178 Sample: 292/T ReM: R   Sembidion sp.   1   -   0a		_					_	
Context: 2178 Sample: 292/T ReM: R         Redight: 1.00 E: 0.00 F: 0.00         F: 200         Hydroporinae sp.         1         -         oa-w           Aleocharinae sp.         6         s         u         ?Georissus crenulatus         1         -         oa-w           Lathridius minutus group         6         s         rd-st         Helophorus sp. B         1         -         oa-w           Xylodromus concinnus         2         -         rf-st         Megasternum obscurum         1         -         oa-w           Xylodromus concinnus         2         -         rf         Acritus nigricornis         1         -         oa-w           Platystethus arenarius         2         -         rf         Acritus nigricornis         1         -         oa-w           Platystethus arenarius         2         -         rf         Acritus nigricornis         1         -         oa-w           Cimicidae sp.         1         -         oa-p         Omalium sp.         1         -         oa-w           Hemiptera sp. A         1         -         u         Anotylus rugosus         1         -         rt           Hydroporinae sp.         1         -         oa-w         Oxyelus scul					Bembidion sp.	1	_	oa
Weight: 1.00 E: 0.00 F: 0.00         Hydroporinae sp. Dytiscidae sp.         1         -         oa-w Oa-w Oa-w Oa-w Oarw Oarw Oarw Oarw Oarw Oarw Oarw Oar	Context: 2178 Sample: 292/T ReM: R				*	1	_	oa
Aleocharinae sp. 6 s u ?Georissus crenulatus 1 - oa-w Lathridius minutus group 6 s rd-st Helophorus sp. B 1 - oa-w Xylodromus concinnus 2 - rt-st Megasternum obscurum 1 - rt Platystethus arenarius 2 - rt-sf Megasternum obscurum 1 - rt-st Trox scaber 2 - rt-sf Ochthebius sp. 1 - oa-w Cimicidae sp. 1 - oa-p Omalium sp. 1 - rt Hemiptera sp. A 1 - u Platystethus cornutus group 1 - oa-d Hemiptera sp. B 1 - u Anotylus rugosus 1 - rt Hydroporinae sp. 1 - oa-w Anotylus rugosus 1 - rt Hydroporinae sp. 1 - oa-w Anotylus sculpturatus group 1 - rt Helophorus sp. A 1 - oa-w Leptacinus sp. 1 - rt Helophorus sp. A 1 - oa-w Leptacinus sp. 1 - rt Helophorus sp. A 1 - oa-w Leptacinus sp. 1 - rt Helophorus sp. A 1 - oa-w Leptacinus sp. 1 - rt Helophorus sp. A 1 - oa-w Leptacinus sp. 1 - rt-st Helophorus sp. A 1 - oa-w Tachyporus sp. 1 - rt-st Helophorus sp. A 1 - oa-w Leptacinus sp. 1 - rt-st Helophorus sp. A 1 - oa-w Leptacinus sp. 1 - rt-st Helophorus sp. A 1 - oa-w Falagria sp. 1 - rt-st Helophorus sp. A 1 - oa-w Palagria sp. 1 - rt-st Ochthebius sp. 1 - rt-sf Philonthus sp. 1 - rt-sf Platystethus nitens 1 - oa-d Falagria sp. 1 - rt-sf Anotylus sculpturatus group 1 - rt-sf Neobisnius sp. A 1 - u Atomaria sp. 1 - rt-sf Neobisnius sp. A 1 - u Atomaria sp. 1 - rt-sf Neobisnius sp. A 1 - u Atomaria sp. 1 - rt-sf Neobisnius sp. A 1 - u Atomaria sp. 1 - rt-sf Neobisnius sp. A 1 - u Atomaria sp. 1 - rt-sf Neobisnius sp. A 1 - u Atomaria sp. 1 - rt-sf Neobisnius sp. A 1 - u Atomaria sp. 1 - rt-sf Neobisnius sp. A 1 - u Atomaria sp. 1 - rt-sf Neobisnius sp. A 1 - u Atomaria sp. 1 - rt-sf Neobisnius sp. A 1 - u Atomaria sp. 1 - rt-sf Neobisnius sp. A 1 - u Atomaria sp. 1 - rt-sf Neobisnius sp. A 1 - u Atomaria sp. 1 - rt-sf						1	_	oa-w
Aleocharinae sp. 6 s u ?Georissus crenulatus 1 - oa-w Lathridius minutus group 6 s rd-st Helophorus sp. B 1 - oa-w Xylodromus concinnus 2 - rt-st Megasternum obscurum 1 - rt Platystethus arenarius 2 - rt-sf Ochthebius sp. 1 - oa-w Cimicidae sp. 1 - oa-p Omalium sp. 1 - oa-w Cimicidae sp. 1 - oa-p Omalium sp. 1 - oa-d Hemiptera sp. A 1 - u Platystethus cornutus group 1 - oa-d Hemiptera sp. B 1 - u Anotylus rugosus 1 - rt Hydroporinae sp. 1 - oa-w Anotylus sculpturatus group 1 - rt-st Helophorus sp. A 1 - oa-w Oxytelus sculpturatus group 1 - rt-st Helophorus sp. A 1 - oa-w Lithocharis sp. 1 - rt-st Helophorus sp. B 1 - oa-w Leptacinus sp. 1 - rt-st Cercyon analis 1 - rt-sf Philonthus sp. 1 - rt Limnebius sp. 1 - oa-w ?Gabrius sp. 1 - rt Limnebius sp. 1 - oa-w Tachyporus sp. 1 - rt Limnebius sp. 1 - oa-w Tachyporus sp. 1 - rt-sf Platystethus nitens 1 - oa-d Trox scaber 1 - rt-sf Anotylus nitidulus 1 - rt-sf Anotylus sculpturatus group 1 - rt-sf Anotylus sculpturatus group 1 - rt-sf Anotylus sculpturatus group 1 - rt-sf Stenus sp. A 1 - oa-d Trox scaber 1 - rt-sf Anotylus nitidulus 1 - rt-sf Anotylus sculpturatus group 1 - rt-sf Anotylus sculpturatus group 1 - rt-sf Anotylus ilinearis or longiventris 1 - u Atomaria sp. 1 - oa-w Stenus sp. B 1 - u Atomaria sp. 1 - oa-w Stenus sp. A 1 - v - oa-w						1	_	oa-w
Xylodromus concinnus2-rt-stMegasternum obscurum1-rtPlatystethus arenarius2-rfAcritus nigricornis1-rt-stTrox scaber2-rt-sfOchthebius sp.1-oa-wCimicidae sp.1-oa-pOmalium sp.1-rtHemiptera sp. A1-uPlatystethus cornutus group1-rtHemiptera sp. B1-uAnotylus rugosus1-rtHydroporinae sp.1-oa-wAnotylus sculpturatus group1-rtDytiscidae sp.1-oa-wOxytelus sculptus1-rt-stHelophorus sp. A1-oa-wLeptacinus sp.1-rt-stCercyon analis1-oa-wLeptacinus sp.1-rt-stCercyon analis1-rt-sfPhilonthus sp.1-rtChthebius sp.1-oa-w?Gabrius sp.1-rtLimnebius sp.1-oa-wTachyporus sp.1-rt-sfPlatystethus nitens1-oa-dFalagria sp.1-rt-sfAnotylus sculpturatus group1-rt-dOxyomus sylvestris1-rt-sfAnotylus sculpturatus group1-rt-dOxyomus sylvestris1-rt-sfAnotylus sculptur	Aleocharinae sp.	6	S	u		1	-	oa-w
Platystethus arenarius 2 - rf Acritus nigricornis 1 - rt-st Trox scaber 2 - rt-sf Ochthebius sp. 1 - oa-w Cimicidae sp. 1 - oa-p Omalium sp. 1 - rt Hemiptera sp. A 1 - u Platystethus cornutus group 1 - oa-d Hemiptera sp. B 1 - oa-w Anotylus rugosus 1 - rt Hydroporinae sp. 1 - oa-w Anotylus sculpturatus group 1 - rt Dytiscidae sp. 1 - oa-w Oxytelus sculpturatus group 1 - rt Helophorus sp. A 1 - oa-w Oxytelus sculptus 1 - rt-st Helophorus sp. B 1 - oa-w Lithocharis sp. 1 - rt-st Helophorus sp. B 1 - oa-w Leptacinus sp. 1 - rt-st Cercyon analis 1 - rt-sf Philonthus sp. 1 - rt Cercyon analis 1 - rt-sf Philonthus sp. 1 - rt Chthebius sp. 1 - oa-w Tachyporus sp. 1 - rt Limnebius sp. 1 - oa-w Tachyporus sp. 1 - rt Lesteva longoelytrata 1 - oa-d Falagria sp. 1 - rt-sf Platystethus nitens 1 - rt-d Oxyomus sylvestris 1 - rt-sf Anotylus sculpturatus group 1 - rt Anotylus sculpturatus group 1 - rt Stenus sp. A 1 - u Elateridae sp. 1 - oa-w Stenus sp. B 1 - u Atomaria sp. 1 - rt-sf Neobisnius sp. 1 - rt-sf Neobisnius sp. 1 - u Apion sp. 1 - rt-sf Neobisnius sp. 1 - u Ceuthorhynchinae sp. 1 - rt-sf Neobisnius sp. 1 - u Ceuthorhynchinae sp. 1 - oa-p	Lathridius minutus group	6	S	rd-st	Helophorus sp. B	1	-	oa-w
Trox scaber 2 - rt-sf Ochthebius sp. 1 - oa-w Cimicidae sp. 1 - oa-p Omalium sp. 1 - rt Hemiptera sp. A 1 - u Platystethus cornutus group 1 - oa-d Hemiptera sp. B 1 - u Anotylus rugosus 1 - rt Hydroporinae sp. B 1 - oa-w Anotylus sculpturatus group 1 - rt Dytiscidae sp. 1 - oa-w Oxytelus sculpturatus group 1 - rt-st Helophorus sp. A 1 - oa-w Lithocharis sp. 1 - rt-st Helophorus sp. A 1 - oa-w Lithocharis sp. 1 - rt-st Cercyon analis 1 - rt-sf Philonthus sp. 1 - rt-st Ochthebius sp. 1 - rt-sf Philonthus sp. 1 - u Limnebius sp. 1 - oa-w Tachyporus sp. 1 - rt Limnebius sp. 1 - oa-d Falagria sp. 1 - rt-sf Platystethus nitens 1 - oa-d Falagria sp. 1 - rt-sf Anotylus nitidulus 1 - rt-d Oxyomus sylvestris 1 - rt-sf Anotylus sculpturatus group 1 - rt Oulimnius sp. 1 - oa-w Stenus sp. A 1 - rt-sf Anotylus sculpturatus group 1 - rt Oulimnius sp. 1 - oa-w Stenus sp. A 1 - rt-sf Anotylus sculpturatus group 1 - rt Oulimnius sp. 1 - oa-w Stenus sp. A 1 - rt-sf Anotylus sculpturatus group 1 - rt Oulimnius sp. 1 - oa-w Stenus sp. A 1 - rt-sf Corticaria sp. 1 - rt-sf Neobisnius sp. 1 - rt-sf Corticaria sp. 1 - rt-sf Neobisnius sp. 1 - rt-sf Corticaria sp. 1 - rt-sf Neobisnius sp. 1 - rt-sf Corticaria sp. 1 - rt-sf Neobisnius sp. 1 - rt-sf Corticaria sp. 1 - rt-sf Neobisnius sp. 1 - rt-sf Corticaria sp. 1 - rt-sf Neobisnius sp. 1 - rt-sf Corticaria sp. 1 - rt-sf Neobisnius sp. 1 - rt-sf Corticaria sp. 1 - rt-sf Neobisnius sp. 1 - rt-sf Corticaria sp. 1 - rt-sf Neobisnius sp. 1 - rt-sf Neobisnius sp. 1 - rt-sf Neobisnius sp. 1 - oa-p Staphylinidae sp. 1 - oa-p Oa-p Staphylinidae sp. 1 - oa-p	Xylodromus concinnus	2	-	rt-st	Megasternum obscurum	1	-	rt
Cimicidae sp.	Platystethus arenarius	2	-	rf	Acritus nigricornis	1	-	rt-st
Hemiptera sp. A1-uPlatystethus cornutus group1-oa-dHemiptera sp. B1-uAnotylus rugosus1-rtHydroporinae sp.1-oa-wAnotylus sculpturatus group1-rtDytiscidae sp.1-oa-wOxytelus sculptus1-rt-stHelophorus sp. A1-oa-wLithocharis sp.1-rt-stHelophorus sp. B1-oa-wLeptacinus sp.1-rt-stCercyon analis1-rt-sfPhilonthus sp.1-rt-stOchthebius sp.1-oa-w'Gabrius sp.1-rtLimnebius sp.1-oa-wTachyporus sp.1-rtLesteva longoelytrata1-oa-dFalagria sp.1-rt-sfPlatystethus nitens1-oa-dTrox scaber1-rt-sfAnotylus nitidulus1-rt-dOxyomus sylvestris1-rt-sfAnotylus sculpturatus group1-rtOulimnius sp.1-rd-sfStenus sp. A1-uAtomaria sp.1-rt-sfNeobisnius sp.1-rt-sfCorticaria sp.1-rt-sfNeobisnius sp.1-uApion sp.1-oa-pStaphylinidae sp.1-u </td <td>Trox scaber</td> <td>2</td> <td>-</td> <td>rt-sf</td> <td>Ochthebius sp.</td> <td>1</td> <td>-</td> <td>oa-w</td>	Trox scaber	2	-	rt-sf	Ochthebius sp.	1	-	oa-w
Hemiptera sp. B1-uAnotylus rugosus1-rtHydroporinae sp.1-oa-wAnotylus sculpturatus group1-rtDytiscidae sp.1-oa-wOxytelus sculptus1-rt-stHelophorus sp. A1-oa-wLithocharis sp.1-rtHelophorus sp. B1-oa-wLeptacinus sp.1-rt-stCercyon analis1-rt-sfPhilonthus sp.1-uOchthebius sp.1-oa-w?Gabrius sp.1-rtLimnebius sp.1-oa-wTachyporus sp.1-rtLesteva longoelytrata1-oa-dFalagria sp.1-rt-sfPlatystethus nitens1-oa-dTrox scaber1-rt-sfAnotylus nitidulus1-rt-dOxyomus sylvestris1-rt-sfAnotylus sculpturatus group1-rtOulimnius sp.1-rt-sfStenus sp. A1-uElateridae sp.1-rdStenus sp. B1-uAtomaria sp.1-rt-sfNeobisnius sp.1-rt-sfCorticaria sp.1-rt-sfNeobisnius sp.1-uApion sp.1-oa-pStaphylinidae sp.1-uCeuthorhynchinae s	Cimicidae sp.	1	-	oa-p	Omalium sp.	1	-	rt
Hydroporinae sp.1-oa-wAnotylus sculpturatus group1-rtDytiscidae sp.1-oa-wOxytelus sculptus1-rt-stHelophorus sp. A1-oa-wLithocharis sp.1-rtHelophorus sp. B1-oa-wLeptacinus sp.1-rt-stCercyon analis1-rt-sfPhilonthus sp.1-uOchthebius sp.1-oa-w?Gabrius sp.1-rtLimnebius sp.1-oa-wTachyporus sp.1-rt-sfLesteva longoelytrata1-oa-dFalagria sp.1-rt-sfPlatystethus nitens1-oa-dTrox scaber1-rt-sfAnotylus nitidulus1-rt-dOxyomus sylvestris1-rt-sfAnotylus sculpturatus group1-rtOulimnius sp.1-rd-stStenus sp. A1-uElateridae sp.1-rdStenus sp. B1-uAtomaria sp.1-rt-sfNeobisnius sp.1-rt-sfCorticaria sp.1-rt-sfNeobisnius sp.1-uApion sp.1-oa-pStaphylinidae sp.1-uCeuthorhynchinae sp.1-oa-p	Hemiptera sp. A	1	-	u	Platystethus cornutus group	1	-	oa-d
Dytiscidae sp. 1 - oa-w Oxytelus sculptus 1 - rt-st Helophorus sp. A 1 - oa-w Lithocharis sp. 1 - rt Helophorus sp. B 1 - oa-w Leptacinus sp. 1 - rt-st Cercyon analis 1 - rt-sf Philonthus sp. 1 - rt U Certyon analis 1 - oa-w Repaired sp. 1 - oa-w Repaired sp. 1 - rt U Certyon analis Sp. 1 - oa-w Repaired sp. 1 - rt U Resteva longoelytrata 1 - oa-w Repaired sp. 1 - rt-sf Platystethus nitens 1 - oa-d Falagria sp. 1 - rt-sf Platystethus nitidulus 1 - rt-d Oxyomus sylvestris 1 - rt-sf Anotylus sculpturatus group 1 - rt Oulimnius sp. 1 - oa-w Stenus sp. A 1 - u Elateridae sp. 1 - ob Stenus sp. B 1 - u Atomaria sp. 1 - rd Xantholinus linearis or longiventris 1 - rt-sf Corticaria sp. 1 - rt-sf Neobisnius sp. 1 - u Repaired sp. 1 - oa-p Staphylinidae sp. 1 - u Ceuthorhynchinae sp. 1 - oa-p	Hemiptera sp. B	1	-	u		1	-	rt
Helophorus sp. A 1 - oa-w Lithocharis sp. 1 - rt Helophorus sp. B 1 - oa-w Leptacinus sp. 1 - rt-st Cercyon analis 1 - rt-sf Philonthus sp. 1 - u Ochthebius sp. 1 - oa-w ?Gabrius sp. 1 - rt Limnebius sp. 1 - oa-w Tachyporus sp. 1 - u Lesteva longoelytrata 1 - oa-d Falagria sp. 1 - rt-sf Platystethus nitens 1 - oa-d Trox scaber 1 - rt-sf Anotylus nitidulus 1 - rt-d Oxyomus sylvestris 1 - rt-sf Anotylus sculpturatus group 1 - rt Oulimnius sp. 1 - oa-w Stenus sp. A 1 - u Elateridae sp. 1 - ob Stenus sp. B 1 - u Atomaria sp. 1 - rt-sf Neobisnius sp. 1 - rt-sf Corticaria sp. 1 - rt-sf Corticaria sp. 1 - rt-sf Neobisnius sp. 1 - u Apion sp. 1 - oa-p Staphylinidae sp. 1 - oa-p	Hydroporinae sp.	1	-	oa-w		1	-	rt
Helophorus sp. B  Cercyon analis  1 - oa-w  Leptacinus sp.  Philonthus sp.  1 - u  Ochthebius sp.  1 - oa-w  ?Gabrius sp.  1 - rt  Limnebius sp.  1 - oa-w  Tachyporus sp.  1 - rt-sf  Platystethus nitens  1 - oa-d  Falagria sp.  1 - rt-sf  Platystethus nitidulus  1 - oa-d  Trox scaber  1 - rt-sf  Anotylus nitidulus  1 - rt-d  Oxyomus sylvestris  1 - rt-sf  Anotylus sculpturatus group  1 - rt  Oulimnius sp.  1 - oa-w  Stenus sp. A  Stenus sp. A  1 - u  Elateridae sp.  1 - ob  Stenus sp. B  Xantholinus linearis or longiventris  1 - rt-sf  Corticaria sp.  1 - rt-sf  Neobisnius sp.  1 - u  Apion sp.  Ceuthorhynchinae sp.  1 - oa-p  Staphylinidae sp.  1 - oa-w  Ceuthorhynchinae sp.  1 - oa-p		1	-	oa-w		1	-	rt-st
Cercyon analis1-rt-sfPhilonthus sp.1-uOchthebius sp.1-oa-w?Gabrius sp.1-rtLimnebius sp.1-oa-wTachyporus sp.1-uLesteva longoelytrata1-oa-dFalagria sp.1-rt-sfPlatystethus nitens1-oa-dTrox scaber1-rt-sfAnotylus nitidulus1-rt-dOxyomus sylvestris1-rt-sfAnotylus sculpturatus group1-rtOulimnius sp.1-oa-wStenus sp. A1-uElateridae sp.1-obStenus sp. B1-uAtomaria sp.1-rt-sfXantholinus linearis or longiventris1-rt-sfCorticaria sp.1-rt-sfNeobisnius sp.1-uApion sp.1-oa-pStaphylinidae sp.1-uCeuthorhynchinae sp.1-oa-p		1	-	oa-w	Lithocharis sp.	1	-	rt
Ochthebius sp.1-oa-w?Gabrius sp.1-rtLimnebius sp.1-oa-wTachyporus sp.1-uLesteva longoelytrata1-oa-dFalagria sp.1-rt-sfPlatystethus nitens1-oa-dTrox scaber1-rt-sfAnotylus nitidulus1-rt-dOxyomus sylvestris1-rt-sfAnotylus sculpturatus group1-rtOulimnius sp.1-oa-wStenus sp. A1-uElateridae sp.1-obStenus sp. B1-uAtomaria sp.1-rt-sfXantholinus linearis or longiventris1-rt-sfCorticaria sp.1-rt-sfNeobisnius sp.1-uApion sp.1-oa-pStaphylinidae sp.1-uCeuthorhynchinae sp.1-oa-p		1	-	oa-w		1	-	rt-st
Limnebius sp. 1 - oa-w Tachyporus sp. 1 - u  Lesteva longoelytrata 1 - oa-d Falagria sp. 1 - rt-sf  Platystethus nitens 1 - oa-d Trox scaber 1 - rt-sf  Anotylus nitidulus 1 - rt-d Oxyomus sylvestris 1 - rt-sf  Anotylus sculpturatus group 1 - rt Oulimnius sp. 1 - oa-w  Stenus sp. A 1 - u Elateridae sp. 1 - ob  Stenus sp. B 1 - u Atomaria sp. 1 - rt  Xantholinus linearis or longiventris 1 - rt-sf  Neobisnius sp. 1 - u Apion sp. 1 - oa-p  Staphylinidae sp. 1 - u Ceuthorhynchinae sp. 1 - oa-p	Cercyon analis	1	-	rt-sf		1	-	u
Lesteva longoelytrata 1 - oa-d Falagria sp. 1 - rt-sf Platystethus nitens 1 - oa-d Trox scaber 1 - rt-sf Anotylus nitidulus 1 - rt-d Oxyomus sylvestris 1 - rt-sf Anotylus sculpturatus group 1 - rt Oulimnius sp. 1 - oa-w Stenus sp. A 1 - u Elateridae sp. 1 - ob Stenus sp. B 1 - u Atomaria sp. 1 - rt-sf Xantholinus linearis or longiventris 1 - rt-sf Corticaria sp. 1 - rt-sf Neobisnius sp. 1 - u Apion sp. 1 - oa-p Staphylinidae sp. 1 - u Ceuthorhynchinae sp. 1 - oa-p	Ochthebius sp.	1	-	oa-w	?Gabrius sp.		-	rt
Platystethus nitens 1 - oa-d Trox scaber 1 - rt-sf Anotylus nitidulus 1 - rt-d Oxyomus sylvestris 1 - rt-sf Anotylus sculpturatus group 1 - rt Oulimnius sp. 1 - oa-w Stenus sp. A 1 - u Elateridae sp. 1 - ob Stenus sp. B 1 - u Atomaria sp. 1 - rd Xantholinus linearis or longiventris 1 - rt-sf Corticaria sp. 1 - rt-sf Neobisnius sp. 1 - u Apion sp. 1 - oa-p Staphylinidae sp. 1 - u Ceuthorhynchinae sp. 1 - oa-p		1	-	oa-w			-	u
Anotylus nitidulus 1 - rt-d Oxyomus sylvestris 1 - rt-sf Anotylus sculpturatus group 1 - rt Oulimnius sp. 1 - oa-w Stenus sp. A 1 - u Elateridae sp. 1 - ob Stenus sp. B 1 - u Atomaria sp. 1 - rd Xantholinus linearis or longiventris 1 - rt-sf Corticaria sp. 1 - rt-sf Neobisnius sp. 1 - u Apion sp. 1 - oa-p Staphylinidae sp. 1 - u Ceuthorhynchinae sp. 1 - oa-p		1	-	oa-d		1	-	rt-sf
Anotylus sculpturatus group 1 - rt Oulimnius sp. 1 - oa-w Stenus sp. A 1 - u Elateridae sp. 1 - ob Stenus sp. B 1 - u Atomaria sp. 1 - rd Xantholinus linearis or longiventris 1 - rt-sf Corticaria sp. 1 - rt-sf Neobisnius sp. 1 - u Apion sp. 1 - oa-p Staphylinidae sp. 1 - u Ceuthorhynchinae sp. 1 - oa-p		1	-				-	rt-sf
Stenus sp. A1-uElateridae sp.1-obStenus sp. B1-uAtomaria sp.1-rdXantholinus linearis or longiventris1-rt-sfCorticaria sp.1-rt-sfNeobisnius sp.1-uApion sp.1-oa-pStaphylinidae sp.1-uCeuthorhynchinae sp.1-oa-p		-					-	
Stenus sp. B1-uAtomaria sp.1-rdXantholinus linearis or longiventris1-rt-sfCorticaria sp.1-rt-sfNeobisnius sp.1-uApion sp.1-oa-pStaphylinidae sp.1-uCeuthorhynchinae sp.1-oa-p		1	-		-		-	
Xantholinus linearis or longiventris1-rt-sfCorticaria sp.1-rt-sfNeobisnius sp.1-uApion sp.1-oa-pStaphylinidae sp.1-uCeuthorhynchinae sp.1-oa-p		-	-				-	
Neobisnius sp. 1 - u Apion sp. 1 - oa-p Staphylinidae sp. 1 - u Ceuthorhynchinae sp. 1 - oa-p		-			-		-	
Staphylinidae sp. 1 - u Ceuthorhynchinae sp. 1 - oa-p					-		-	
	-						-	_
Apnodius sp. 1 - ob-rf *Acarina sp. 15 m u			-				-	-
	Apnodius sp.	1	-	oo-rr	"Асаппа sp.	15	m	u

*Diptera sp. (larva)	15	m	u	*Acarina sp.	15	m	u
*?Heterodera sp. (cyst)	6	S	u	*Diptera sp. (puparium)	6	S	u
*Diptera sp. (puparium)	6	S	u	*Opiliones sp.	1	-	u
*Coccoidea sp.	1	-	u	*Siphonaptera sp.	1	-	u
*Coleoptera sp. (larva)	1	-	u				
*Aranae sp.	1	-	u				
				Context: 3069 Sample: 160/T ReM: R Weight: 2.00 E: 0.00 F: 0.00			
Context: 2191 Sample: 311/T ReM: R Weight: 1.00 E: 0.00 F: 0.00				null	0	-	u
Anotylus nitidulus	6	S	rt-d				
Aleocharinae sp.	6	S	u	Context: 3077 Sample: 156/T ReM: R			
Corticaria sp.	2	-	rt-sf	Weight: 1.00 E: 0.00 F: 0.00			
Hemiptera sp.	1	-	u				
Dyschirius sp.	1	-	oa	*Oligochaeta sp. (egg capsule)	6	S	u
Bembidion sp. C	1	-	oa	*Eristalini sp. (larva)	6	S	w
Bembidion sp. A	1	-	oa				
Bembidion sp. B	1	-	oa				
Carabidae sp. A	1	-	ob	Context: 3169 Sample: 184/T ReM: R			
Carabidae sp. B	1	-	ob	Weight: 2.00 E: 0.00 F: 0.00			
Carabidae sp. C	1	-	ob				
Carabidae sp. D	1	-	ob	*Oligochaeta sp. (egg capsule)	1	-	u
Hydroporinae sp.	1	-	oa-w	*Trichoptera sp. (case)	1	-	oa-w
Dytiscidae sp.	1	-	oa-w	*Melophagus ovinus (puparium)	1	-	u
Helophorus sp. A	1	-	oa-w				
Helophorus sp. B	1	-	oa-w				
Helophorus sp. R	1	-	oa	Context: 999 Sample: 271/T CA: ? ReN	1: R		
Cercyon sp.	1	-	u	Weight: 1.00 E: 0.00 F: 0.00			
Megasternum obscurum	1	-	rt				
Ochthebius sp.	1	-	oa-w	Neobisnius sp.	6	S	u
Omalium sp.	1	-	rt	Aleocharinae sp.	6	S	u
Xylodromus concinnus	1	-	rt-st	Trox scaber	4	-	rt-sf
Carpelimus sp.	1	-	u	Lathridius minutus group	3	-	rd-st
Platystethus arenarius	1	-	rf	Clivina sp.	1	-	oa
Platystethus cornutus group	1	-	oa-d	?Carabidae sp.	1	-	ob
Anotylus rugosus	1	-	rt	Helophorus sp.	1	-	oa-w
Anotylus tetracarinatus	1	-	rt	Omalium rivulare	1	-	rt-sf
Stenus sp. A	1	-	u	?Xylodromus sp.	1	-	rt-st
Stenus sp. B	1	-	u	Carpelimus sp.	1	-	u
?Leptacinus sp.	1	-	rt-st	Anotylus rugosus	1	-	rt
Gyrohypnus sp.	1	-	rt	Gyrohypnus sp.	1	-	rt
Xantholinus linearis or longiventris	1	-	rt-sf	Falagria sp.	1	-	rt-sf
Tachyporus sp.	1	-	u	Aphodius sp. A	1	-	ob-rf
Falagria sp.	1	-	rt-sf	Aphodius sp. B	1	-	ob-rf
Staphylinidae sp.	1	-	u	Omosita discoidea	1	-	rt-sf
Trox scaber	1	-	rt-sf	Cryptophagus sp.	1	-	rd-sf
Aphodius granarius	1	-	ob-rf	Longitarsus sp.	1	-	oa-p
Aphodius sp.	1	-	ob-rf	Halticinae sp.	1	-	oa-p
Oulimnius sp.	1	-	oa-w	Ceutorhynchus sp.	1	-	oa-p
Anobium punctatum	1	-	l-sf	*Acarina sp.	15	m	
Ptinus sp.	1	-	rd-sf	*Diptera sp. (larva)	15	m	u
Atomaria sp.	1	-	rd	*Diptera sp. (puparium)	6	S	u
Lathridius minutus group	1	-	rd-st	*Pulex irritans	2	-	SS
Anthicus formicarius	1	-	rt-st	*?Louse s.l. sp.	2	-	u
Phyllodecta sp.	1	-	oa-p	*Diptera sp. (adult)	2	-	u
Chaetocnema concinna	1	-	oa-p	*Coleoptera sp. (larva)	1	-	u
Halticinae sp.	1	-	oa-p	*Muscidae sp. (puparium)	1	-	u
Apion sp.	1	-	oa-p	*Aranae sp.	1	-	u
Sitona sp. A	1	-	oa-p				
Sitona sp. B	1	-	oa-p				
Curculionidae sp.	1	-	oa				
Coleoptera sp.	1	-	u				

Table 10. Main statistics for the assemblages of adult Coleoptera and Hemiptera from Layerthorpe Bridge, York. Abbreviations—Table 11.

								I	
Context	6		15	16	18	19	20		
Sample	4	48	49	52	41	45	38		19
Ext	/SPT	/T	/T	/T	/T	/T	/T	/T	/T
ConalphaN	?	6	1	39	69	57	10	7	18
S N	1	6	5	47	77	57 60	18	1	
ALPHA	0		0		316	541	82	0	
SEALPHA	0		0	106	116	306	57	0	
SOB	1	4	2	10	37	300	7	2	10
PSOB	100	67	50	26	54	53	39		56
NOB	100	4	30	11	41	31	8		10
PNOB	100	67	60	23	53	52	40		56
ALPHAOB	0	0	0	0	178	416	0		0
SEALPHAOB	0		0	0	90	370	0		
SW	0	0	1	0	11	6	1	1	7
PSW	0		25	0	16	11	6		39
NW	0	0	1	0	15	7	1	1	7
PNW	0		20	0	19	12	5	-	39
ALPHAW	0		0	0	0	0	0		
SEALPHAW	0		0	0	0	0	0		
SD	0	0	0	1	6	5	3		
PSD	0		0	3	9	9	17	0	
ND	0		0	1	7	5	4	0	
PND	0	0	0	2	9	8	20	0	0
ALPHAD	0	0	0	0	0	0	0	0	0
SEALPHAD	0	0	0	0	0	0	0	0	0
SP	0	1	0	1	12	8	2	1	3
PSP	0	17	0	3	17	14	11	14	17
NP	0	1	0	1	12	8	2	1	3
PNP	0	17	0	2	16	13	10	14	17
ALPHAP	0	0	0	0	0	0	0	0	0
SEALPHAP	0	0	0	0	0	0	0	0	0
SM	0	0	0	0	0	0	0	0	0
PSM	0	0	0	0	0	0	0	0	0
NM	0	0	0	0	0	0	0	0	0
PNM	0	0	0	0	0	0	0	0	0
ALPHAM	0	0	0	0	0	0	0	0	0
SEALPHAM	0	0	0	0	0	0	0	0	0
SL	0	1	0	1	2	1	0	1	1
PSL	0		0			2	0		6
NL	0		0		2	1	0		1
PNL	0		0		3	2	0		
ALPHAL	0		0		0	0	0		
SEALPHAL	0		0	0	0	0	0		
SRT	0			22	18	19	8		
PSRT	0			56		33	44	1	
NRT	0			30		20	9		
PNRT	0			64	27	33	45		
ALPHART	0				58	169	0		
SEALPHART	0				34	151	0		
SRD	0		0		5	4	2		3
PSRD	0		0			7	11		
NRD	0		0		6		2		3
PNRD	0				8		10		
ALPHARD	0	0	0	0	0	0	0	0	0

SEALPHARD	0	0	0	0	0	0	0	0	0
SRF	0	0	1	6	3	4	2	0	1
PSRF	0	0	25	15	4	7	11	0	6
NRF	0	0	2	8	3	4	2	0	1
PNRF	0	0	40	17	4	7	10	0	6
ALPHARF	0	0	0	0	0	0	0	0	0
SEALPHARF	0	0	0	0	0	0	0	0	0
SSA	0	1	0	13	9	10	3	2	5
PSSA	0	17	0	33	13	18	17	29	28
NSA	0	1	0	20	9	11	4	2	5
PNSA	0	17	0	43	12	18	20	29	28
ALPHASA	0	0	0	17	0	0	0	0	0
SEALPHASA	0	0	0	7	0	0	0	0	0
SSF	0	1	0	6	4	4	2	1	4
PSSF	0	17	0	15	6	7	11	14	22
NSF	0	1	0	8	4	4	2	1	4
PNSF	0	17	0	17	5	7	10	14	22
ALPHASF	0	0	0	0	0	0	0	0	0
SEALPHASF	0	0	0	0	0	0	0	0	0
SST	0	0	0	7	5	5	1	1	1
PSST	0	0	0	18	7	9	6	14	6
NST	0	0	0	12	5	6	2	1	1
PNST	0	0	0	26	6	10	10	14	6
ALPHAST	0	0	0	0	0	0	0	0	0
SEALPHAST	0	0	0	0	0	0	0	0	0
SSS	0	0	0	0	0	1	0	0	0
PSSS	0	0	0	0	0	2	0	0	0
NSS	0	0	0	0	0	1	0	0	0
PNSS	0	0	0	0	0	2	0	0	0
ALPHASS	0	0	0	0	0	0	0	0	0
SEALPHASS	0	0	0	0	0	0	0	0	0
SG	0	0	0	0	0	1	0	0	0
PSG	0	0	0	0	0	2	0	0	0
NG	0	0	0	0	0	1	0	0	0
PNG	0	0	0	0	0	2	0	0	0
ALPHAG	0	0	0	0	0	0	0	0	0
SEALPHAG	0	0	0	0	0	0	0	0	0

Context	41	1003	1024	1027	1029	1031	1032	1033	1039
Sample	27	36	73	75	79	84	85		90
Ext	/T	/BS	/T	/T	/T	/T	/T	/T	/T
ConalphaN	7.1	7.00	, 1	9	, 1	, 1	/1033	, 1	, 1
S	7	3	36	48	9	5	5	8	20
N	7		40	54	9	7	5		22
ALPHA	0		169	204	0	0	0		101
SEALPHA	0		86	86		0	0		70
SOB	3		20	29	4	0	2		6
PSOB	43	100	56	60	44	0	40		30
NOB	3		22	31	4	0	2		6
PNOB	43	100	55	57	44	0	40	1	27
ALPHAOB	0		101	208	0	0	0		0
SEALPHAOB	0		70	142	0	0	0		0
SW	0		9	11	0	0	0		1
PSW	0		25	23	0	0	0		5
NW	0		11	12	0	0	0		1
PNW	0		28	22	0	0	0		5
ALPHAW	0		0	0	0	0	0		0
SEALPHAW	0		0	0		0	0		0
SD	0		2	4		0	0		2
PSD	0		6	8		0	0		10
ND	0		2	4	1	0	0		2
PND	0		5	7	11	0	0		9
ALPHAD	0		0	0		0	0	1	0
SEALPHAD	0		0	0		0	0	1	0
SP	1	2	6	8		0	1	2	2
PSP		67	17	17	22	0	20		10
NP	14	2	6	9	22	0	1	23	
PNP	14		15	17	22	0	20		2 9
ALPHAP	0		0	0	0	0	0		0
SEALPHAP	0		0	0	0	0	0	1	0
SM	0		0	0		0	0		0
PSM	0		0	0		0	0	1	0
NM	0		0	0		0	0		0
PNM	0		0	0		0	0		0
ALPHAM	0		0	0		0	0		0
SEALPHAM	0	0	0	0	0	0	0		0
SL	0		0	2	1	1	1		2
PSL								_	10
NL	0		0	3		20	20	0	2
PNL	0		0	6		14	20		9
ALPHAL	0		0	0		0			0
SEALPHAL	0		0	0		0			0
SRT	4		12	15		2	2		6
PSRT	57		33	31	22	40	40		30
NRT	4		12	18		40	2		6
PNRT	57	0	30	33		57	40		27
ALPHART	0		0	0		0			0
SEALPHART	0		0	0		0	0		0
SRD PSRD	1	0	3	2		0			10
	14			-					
NRD	1	0	1	4		0	0		2
PNRD	14		3	7		0			9
ALPHARD	0		0	0		0			0
SEALPHARD	0		0	0		0			0
SRF	1	0	4	3		0	1	0	0
PSRF	14		11	6		0			0
NRF	1	0	4	3	1	0	1	0	0

PNRF	14	0	10	6	11	0	20	0	0
ALPHARF	0	0	0	0	0	0	0	0	0
SEALPHARF	0	0	0	0	0	0	0	0	0
SSA	3	0	3	7	2	2	0	2	3
PSSA	43	0	8	15	22	40	0	25	15
NSA	3	0	3	11	2	4	0	3	3
PNSA	43	0	8	20	22	57	0	33	14
ALPHASA	0	0	0	0	0	0	0	0	0
SEALPHASA	0	0	0	0	0	0	0	0	0
SSF	3	0	2	3	1	2	0	1	2
PSSF	43	0	6	6	11	40	0	13	10
NSF	3	0	2	5	1	4	0	2	2
PNSF	43	0	5	9	11	57	0	22	9
ALPHASF	0	0	0	0	0	0	0	0	0
SEALPHASF	0	0	0	0	0	0	0	0	0
SST	0	0	1	3	1	0	0	1	1
PSST	0	0	3	6	11	0	0	13	5
NST	0	0	1	4	1	0	0	1	1
PNST	0	0	3	7	11	0	0	11	5
ALPHAST	0	0	0	0	0	0	0	0	0
SEALPHAST	0	0	0	0	0	0	0	0	0
SSS	0	0	0	1	0	0	0	0	0
PSSS	0	0	0	2	0	0	0	0	0
NSS	0	0	0	2	0	0	0	0	0
PNSS	0	0	0	4	0	0	0	0	0
ALPHASS	0	0	0	0	0	0	0	0	0
SEALPHASS	0	0	0	0	0	0	0	0	0
SG	0	0	0	0	0	0	0	0	0
PSG	0	0	0	0	0	0	0	0	0
NG	0	0	0	0	0	0	0	0	0
PNG	0	0	0	0	0	0	0	0	0
ALPHAG	0	0	0	0	0	0	0	0	0
SEALPHAG	0	0	0	0	0	0	0	0	0

Context	1047	1052	2023	2030	2131	2160	2178	2189	2191
Sample	95	117	206	286		287	292		311
Ext	/T	/T	/T	/T		/T	/T	/T	/T
ConalphaN					-				
S	9	6	16	36	32	29	36	34	50
N	9		19	45	34	29	39		51
ALPHA	0		0	82	253	0			1148
SEALPHA	0		0	30		0	126		1015
SOB	3	3	2	16	10	11	14	13	25
PSOB	33	50	13	44	31	38	39		50
NOB	3	3	2	20	10	11	14	14	25
PNOB	33	50	11	44	29	38	36	36	49
ALPHAOB	0	0	0	38	0	0	0	0	0
SEALPHAOB	0	0	0	22	0	0	0	0	0
SW	0	0	1	7	1	3	6	6	6
PSW	0	0	6	19	3	10	17	18	12
NW	0	0	1	9	1	3	6	6	6
PNW	0	0	5	20	3	10	15	15	12
ALPHAW	0	0	0	0	0	0	0	0	0
SEALPHAW	0	0	0	0		0	0	0	0
SD	0	1	1	2	2	0	3	2	1
PSD	0	17	6	6	6	0	8	6	2
ND	0		1	5	2	0	3	3	1
PND	0		5	11	6	0	8	8	2
ALPHAD	0	0	0	0	0	0	0	0	0
SEALPHAD	0	0	0	0		0	0		0
SP	2	1	0	1	2	4	4	2	6
PSP	22	17	0	3		14	11	6	12
NP	2	1	0	1	2	4	4	2	6
PNP	22	17	0	2	6	14	10	5	12
ALPHAP	0		0	0	0	0	0	0	0
SEALPHAP	0	0	0	0	0	0	0	0	0
SM	0		0	0	0	0	0	0	0
PSM	0	0	0	0	0	0	0	0	0
NM	0	0	0	0	0	0	0	0	0
PNM	0	0	0	0		0	0	0	0
ALPHAM	0	0	0	0	0	0	0	0	0
SEALPHAM	0		0	0		0	0	0	0
SL	1	0	1	2		1	1		1
PSL	11	0	6	6		3	3		2
NL	1	0	3	4	2	1	1	2	1
PNL	11	0	16	9		3	3		2
ALPHAL	0		0	0		0	0		0
SEALPHAL	0		0	0		0	0		0
SRT	3		11	14		12	15		18
PSRT	33		69	39		41	42		36
NRT	3		12	17	19	12	18		19
PNRT	33	33	63	38		41	46		37
ALPHART	0			0		0		_	0
SEALPHART	0		0	0		0		1	0
SRD	2		3	1	4	1	2		3
PSRD	22	0		3		3			6
NRD	2	0	3	3		1	2		3
PNRD	22	0	16	7		3	5		6
ALPHARD	0		0	0		0	0		0
SEALPHARD	0		0	0		0	0		0
SRF	0		1	1	2	2	2		3
PSRF	0		6	3			6		6
NRF	0	0	1	1	2	2	3	2	3

PNRF	0	0	5	2	6	7	8	5	6
ALPHARF	0	0	0	0	0	0	0	0	0
SEALPHARF	0	0	0	0	0	0	0	0	0
SSA	2	0	7	8	16	9	10	9	10
PSSA	22	0	44	22	50	31	28	26	20
NSA	2	0	10	12	17	9	12	11	11
PNSA	22	0	53	27	50	31	31	28	22
ALPHASA	0	0	0	0	0	0	0	0	0
SEALPHASA	0	0	0	0	0	0	0	0	0
SSF	1	0	4	6	10	7	7	6	6
PSSF	11	0	25	17	31	24	19	18	12
NSF	1	0	7	8	11	7	8	8	7
PNSF	11	0	37	18	32	24	21	21	14
ALPHASF	0	0	0	0	0	0	0	0	0
SEALPHASF	0	0	0	0	0	0	0	0	0
SST	1	0	3	2	4	2	2	3	4
PSST	11	0	19	6	13	7	6	9	8
NST	1	0	3	4	4	2	3	3	4
PNST	11	0	16	9	12	7	8	8	8
ALPHAST	0	0	0	0	0	0	0	0	0
SEALPHAST	0	0	0	0	0	0	0	0	0
SSS	0	0	0	0	2	0	1	0	0
PSSS	0	0	0	0	6	0	3	0	0
NSS	0	0	0	0	2	0	1	0	0
PNSS	0	0	0	0	6	0	3	0	0
ALPHASS	0	0	0	0	0	0	0	0	0
SEALPHASS	0	0	0	0	0	0	0	0	0
SG	0	0	0	0	0	0	0	0	0
PSG	0	0	0	0	0	0	0	0	0
NG	0	0	0	0	0	0	0	0	0
PNG	0	0	0	0	0	0	0	0	0
ALPHAG	0	0	0	0	0	0	0	0	0
SEALPHAG	0	0	0	0	0	0	0	0	0

G	20.00	000	m . 1				
Context	3069	999	Totals				
Sample	160	271					
Ext	/T	/T					
ConalphaN		?					
S	0	18	238				
N	0	23	691				
ALPHA	0	39	128				
SEALPHA	0	20	8				
SOB	0	8	123				
PSOB	0	44	52				
NOB	0	8	294				
PNOB	0	35	43				
ALPHAOB	0	0	79				
SEALPHAOB	0	0	8				
SW	0	1	34				
PSW	0	6	14				
NW	0	1	91				
PNW	0	4	13				
ALPHAW	0	0	20		1	1	
SEALPHAW	0	0	3				
	0		15				
SD		0					
PSD	0	0	6				
ND	0	0	42				
PND	0	0	6				
ALPHAD	0	0	9				
SEALPHAD	0	0	2				
SP	0	3	37				
PSP	0	17	16				
NP	0	3	78				
PNP	0	13	11				
ALPHAP	0	0	28				
SEALPHAP	0	0	5				
SM	0	0	0				
PSM	0	0	0				
NM	0	0	0				
PNM	0	0	0				
ALPHAM	0	0	0				
SEALPHAM	0	0	0				
SL	0	0	4				
PSL	0		2				
NL	0		30				
PNL	0	0	4				
	0	0					
ALPHAL	0	0	1 0				
SEALPHAL							
SRT	0		217				
PSRT	0	61	91				
NRT	0	16	282				
PNRT	0	70	41				
ALPHART	0	0	431				
SEALPHART	0	0	59				
SRD	0	2	46				
PSRD	0	11	19				
NRD	0	4	57				
PNRD	0		8				
ALPHARD	0	0	110				
SEALPHARD	0	0	36	·			
SRF	0		41				
PSRF	0		17				
NRF	0		46				
			~ _				

		1				
PNRF	0	9	7			
ALPHARF	0	0	177			
SEALPHARF	0	0	81			
SSA	0	7	47			
PSSA	0	39	20			
NSA	0	12	177			
PNSA	0	52	26			
ALPHASA	0	0	21			
SEALPHASA	0	0	3			
SSF	0	5	24			
PSSF	0	28	10			
NSF	0	8	108			
PNSF	0	35	16			
ALPHASF	0	0	10			
SEALPHASF	0	0	2			
SST	0	2	19			
PSST	0	11	8			
NST	0	4	63			
PNST	0	17	9			
ALPHAST	0	0	9			
SEALPHAST	0	0	2			
SSS	0	0	4			
PSSS	0	0	2			
NSS	0	0	6			
PNSS	0	0	1			
ALPHASS	0	0	0			
SEALPHASS	0	0	0			
SG	0	0	1			
PSG	0	0	0			
NG	0	0	1			
PNG	0	0	0			
ALPHAG	0	0	0			
SEALPHAG	0	0	0			
•				J		

Table 11. Abbreviations for ecological codes and statistics used for interpretation of insect remains in text and tables. Lower case codes in parentheses are those assigned to taxa and used to calculate the group values (the codes in capitals). See Table 7 for codes assigned to individual taxa from this site. Indivs - individuals (based on MNI); No - number.

No taxa	S	Percentage of indivs of grain pests	PNG
Estimated number of indivs (MNI)	N	No decomposer taxa (rt + rd + rf)	SRT
Index of diversity $(\forall)$	alpha	Percentage of RT taxa	PSRT
Standard error of alpha	SE alpha	No RT indivs	NRT
No 'certain' outdoor taxa (oa)	SOA	Percentage of RT indivs	PNRT
Percentage of 'certain' outdoor taxa	PSOA	Index of diversity of RT component	alpha RT
No 'certain' outdoor indivs	NOA	Standard error	SEalphaRT
Percentage of 'certain' outdoor indivs	PNOA	No 'dry' decomposer taxa (rd)	SRD
No OA and probable outdoor taxa (oa+ot		Percentage of RD taxa	PSRD
Percentage of OB taxa	PSOB	No RD indivs	NRD
No OB indivs	NOB	Percentage of RD indivs	PNRD
Percentage OB indivs	PNOB	Index of diversity of the RD component	alphaRD
Index of diversity of the OB component	alphaOB	Standard error	SEalphaRD
Standard error	SEalphaOB	No 'foul' decomposer taxa (rf)	SRF
No aquatic taxa (w)	SW	Percentage of RF taxa	PSRF
Percentage of aquatic taxa	PSW	No RF indivs	NRF
No aquatic indivs	NW	Percentage of RF indivs	PNRF
Percentage of W indivs	PNW	Index of diversity of the RF component	alphaRF
Index of diversity of the W component	alphaW	Standard error	SEalphaRF
Standard error	SEalphaW	No synanthropic taxa (sf+st+ss)	SSA
No damp ground/waterside taxa (d)	SD	Percentage of synanthropic taxa	PSSA
Percentage D taxa	PSD	No synanthropic indivs	NSA
No damp D indivs	ND	Percentage of SA indivs	PNSA
Percentage of D indivs	PND	Index of diversity of SA component	ALPHASA
Index of diversity of the D component	alphaD	Standard error	SEALPHASA
Standard error	SEalphaD	No facultatively synanthropic indivs	SSF
No strongly plant-associated taxa (p)	SP	Percentage of SF taxa	PSSF
Percentage of P taxa	PSP	No SF indivs	NSF
No strongly P indivs	NP	Percentage of SF indivs	PNSF
Percentage of P indivs	PNP	Index of diversity of SF component	ALPHASF
Index of diversity of the P component	alphaP	Standard error	SEALPHASF
Standard error	SEalphaP	No typical synanthropic indivs	SST
No heathland/moorland taxa (m)	SM	Percentage of ST taxa	PSST
Percentage of M taxa	PSM	No ST indivs	NST
No M indivs	NM	Percentage of ST indivs	PNST
Percentage of M indivs	PNM	Index of diversity of ST component	ALPHAST
Index of diversity of the M component	alphaM	Standard error	SEALPHAST
Standard error	SEalphaM	No strongly synanthropic taxa	SSS
No wood-associated taxa (1)	SL	Percentage of SS taxa	PSSS
Percentage of L taxa	PSL	No SS indivs	NSS
No L indivs	NL	Percentage of SS indivs	PNSS
Percentage of L indivs	PNL	Index of diversity of SS component	ALPHASS
Index of diversity of the L component	alphaL	Standard error	SEALPHASS
Standard error	SEalphaL	No uncoded taxa (u)	SU
No indivs of grain pests (g)	NG	Percentage of uncoded indivs	PNU

## Wood identification samples

## Context 23

Sample 5: very decayed oak (*Quercus*); squarish section about 30 mm maximum width, with soft pale outer wood an a fibrous, tough core

## Context 27

Sample 8: very decayed soft oak.

## Context 41

Sample 29: a 65 mm diameter stem with bark (now mostly loose) of birch (*Betula*)

Sample 30: a 70 mm diameter stem with intact bark of willow (*Salix*)