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Technical Report: Environment and industry at Layerthorpe Bridge, York (site code YORYM 1996.345)

by

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Summary

The results are reported of analyses of plant and animal remains from a series of samples of often highly organic sediment, and of a modest corpus of hand-collected bone, from deposits of Roman to 19th century date from excavations in two areas at Layerthorpe Bridge and in Peasholme Green.

Deposits close to the line of the bridge included Anglo-Scandinavian and medieval deposits rich in bark, perhaps from tanning, and some late Anglo-Scandinavian/early medieval sands containing abundant remains of flax stems (which may indicate retting). One early medieval deposit seems to have contained evidence for flax scutching (fibre extraction). Many deposits appeared to contain charred and uncharred peatland materials and biological remains, likely to represent imported turves, and there may even have been some evidence for debris from thatching. Later deposits (dating to the 19th century) were essentially clean river silts.

KEYWORDS: LAYERTHORPE BRIDGE; PEASHOLME GREEN; YORK; ROMAN; ANGLO-SCANDINAVIAN; MEDIEVAL; 19^{th} CENTURY; PLANT REMAINS; BARK; FLAX; INSECTS; MOLLUSCS; BONES; TANNING; RETTING; TURVES; RIVER DEPOSITS

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Introduction

Excavations in the Layerthorpe Bridge/Peasholme Green area of York were undertaken by MAP Archaeological Consultancy Ltd. in 1996-7 during works to replace the existing bridge and remodel the approach roads to it. Samples for biological analysis and hand-collected bones were recovered, sometimes under extremely difficult field conditions, during three stages of the archaeological work: (i) in an initial watching brief on the excavation of a coffer dam in the area to the north of the bridge (along the bank of the River Foss in Jewbury); (ii) in Trench 1, opened behind the dam; and (iii) in Trench 2, opened in Peasholme Green. It was hoped that these excavations would shed light on the development and exploitation of the Foss, and on the line of the medieval street frontage and the nature of Roman activity in Peasholme Green. No samples were taken during other phases of the work; sampling was precluded because of limited access to deposits or the difficulty of working conditions.

An assessment of the biological samples and bones was undertaken by Palaeoecology Research Services in 1997 (Carrott et al. 1997b) with funding from City of York Council. It was followed by a programme of radiocarbon dating. On the basis of recommendations for further work and following discussion with the excavators and City Archaeologist, and with additional funding from City of York Council, a second group of samples was examined for plant and invertebrate macrofossils. These comprised larger subsamples from contexts examined during the assessment, or subsamples from contexts not previously examined but for which it was felt an investigation would be rewarding. This main phase of analysis was tightly focused on two questions in particular: the nature of industrial activity in the vicinity in the Anglo-Scandinavian to early medieval period and the history of environmental change in the River Foss.

Assessment and associated radiocarbon dating had shown that some of the deposits included residual or intrusive material, and this has constrained further work on bone and limited the temporal resolution of environmental reconstruction. The deposits yielding evidence relevant to industrial activity included many which were sufficiently closely dated, however, for further analysis to be of value.

This report presents all bioarchaeological data collected during assessment and subsequent detailed analysis of various samples and the corpus of hand-collected bone. Radiocarbon dates are also presented here.

Methods

Samples for investigation of plant and animal macrofossils were examined using methods given by Kenward *et al.* (1980; 1986) following routine description of the sediment in the laboratory.

The bulk-sieved (BS, sensu Dobney et al. 1992) samples were processed on site using 1 mm aperture mesh and a 500 m aperture washover sieve, and the site-riddled (SR) samples were processed through 9 mm aperture mesh. The wet residues were examined in the laboratory and notes on the principal components made.

For plant remains from the general biological analysis (GBA) samples, parts of all the residues and flots were 'scanned', with a more thorough examination of the material being undertaken for the 'main phase' work than for the assessment. As well as plant remains, other components of the residues and flots were recorded at the same time, using a 4-point scale of abundance from 1 (1-5 individuals or a few fragments) to 4 (many hundreds of individuals or an abundant component in the sample), the higher scores being related to the original size of the sample, *not* the amount of residue or flot remaining after processing.

Data relating to plants and other components recorded with them were entered directly to a computer database, together with notes about the material. Only specimens required for future reference or further work were retained; these are stored in an appropriate medium in the Environmental Archaeology Unit, University of York.

Interpretation has been facilitated by the use of 'abundance-indicator values' (AIVs), calculated from the abundance scores and a score for the indicator value of each taxon within a series of ecological, use, and other groups (for details, see Hall and Kenward 1990, but note that the abundance scores have here been translated as 1 = 1, 2 = 5 and 3 or 4 = 25 in order to provide a more realistic statistic).

Several of the beetle and bug assemblages were nominally 'scan' recorded (sensu Kenward 1992), but a particularly careful record was made and the lists approximate to 'detailed' recording (ibid.). Other assemblages were rapid scan recorded (ibid.) by HK. Assessment was carried out by Frances Large, who made rough semi-quantitative lists for some assemblages (at a less accurate level than rapid scanning), and more general descriptions for others. Invertebrates were recorded onto data sheets and the records subsequently entered to a Paradox-based computer system for data storage and processing.

A record of the preservational condition was made for most of the assemblages recorded during the main phase, following Kenward and Large (1998). In this system, the range of decay or other change shown by individual fossils, and both the modal amount of change and the strength of the mode, are estimated. Three parameters are used: 'erosion' (in broad terms, chemical change, detected as changes in texture and colour, thinning and surface etching), 'fragmentation' (amount of breakage), and the degree and direction of colour change.

Hand-collected vertebrate remains from 72 of the 157 bone-bearing contexts at this site were 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 was scanned and brief notes were made on bones suitable for biometrical and age-at-death analysis. Bone was recorded from deposits where there were more than five identifiable recovered fragments, or where interesting additional species were present. Examination of the residues from the BS and SR samples provided little additional information, as there were very low concentrations of vertebrate remains. Fish and bird bones were only noted in a few instances, whilst no small mammal remains were observed.

Results

A list of contexts and samples for which plant and invertebrate remains were examined is given in Table 1 and contexts examined for vertebrate remains are listed in Table 2. The results of radiocarbon dating are presented in Table 3. Complete lists of plant and animal taxa recorded from these excavations are given in Table 4 and lists of taxa by context and sample in Tables 5 (plant remains and other components), and 10 (insects and other invertebrates). Selected statistics for the assemblages of plant remains appear in Table 6, and for the insects in Table 8. The range of identified verte brate species recovered is shown in Tables 13-15, together with the total numbers of fragments, numbers of measurable bones and numbers of mandibles with teeth in situ.

In the text, authorities for Latin names are not given; they may be found in Table 4.

Radiocarbon dating

A total of 20 samples were submitted for radiocarbon dating and all gave a result (Table 3). The central calibrated date for most fell in the Anglo-Scandinavian period, but a few samples

may have been earlier, and two (both of bone) were of post-Conquest date.

Of the three samples dated archaeologically as post-Roman/pre-Anglo-Scandinavian, two (bark and bone from Context 2189) were clearly Anglo-Scandinavian, while the third (bone from 2191) may have been of Anglian date, although the upper limit of the 2-Sigma range overlapped the early Anglo-Scandinavian period.

Of the samples dated archaeologically as Anglo-Scandinavian, most gave dates firmly within this period, but two (both bone, from Contexts 2018 and 2037) appeared to be rather later. The most likely explanation for this is that the bone had sunk into soft unconsolidated sediment. The samples dated archaeologically to the medieval period—two of bone and two of flax (*Linum usitatissimum*) stems—were probably earlier, though the 2-Sigma ranges of three of them overlapped with the early post-Conquest period.

In the following account, the material is dealt with in the following order:

- (i) Trench 1 (contexts in 1000s and 2000s)
- (ii) Watching Brief for Trench 1 (contexts less than 100)
- (iii) Trench 2 (contexts in 3000s)

Contexts for which no samples were examined or for which no hand-collected bone was available are not included.

Vertebrate remains

N.B. Vertebrate remains are considered for the two areas of Trench 1 separately.

Trench 1

Area 1 (Table13)

In total, 13 bone-bearing contexts from this trench were recorded, most being dated stratigraphically broadly to the medieval period (though

radiocarbon dating of selected material suggested a broader date range). 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 adult 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 some 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.

Area 2 (Table 14)

Bones from 32 contexts were recorded and a further 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 yielded a small number of fragments which were rather rounded, whilst a few produced some battered and eroded bones (always less than 10%). Over half of the context assemblages included dark brown fragments, and many other bones were mainly or partly dark brown in colour. Deposits from Contexts 2037 and 2038 produced 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 contexts dated archaeologically as Roman yielded bone which was similar in appearance to that from later deposits, showing no marked variability in preservation, colour or 'angularity'. Context 2191 (Roman), however, yielded two human bones, which may have been redeposited material.

Cattle and caprovids were again the best represented species throughout all periods in the deposits from this area. Although a range of elements was present in the assemblages, it was clear that horncores, mandible fragments, teeth distal limb elements predominated, 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 (from 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 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 are implied; cattle long bones 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 15)

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 the latter appeared to be less extensive than for the material 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 than for Trench 1. A single goat metacarpal was identified from Context 3004, whilst 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 combined 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. 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).

Samples analysed for plant and invertebrate macrofossils

Trench 1

Period 1 (Roman)

No samples of deposits dated to this period were examined.

Period 2 (Post-Roman/Pre-Anglo-Scandinavian)

Context 2191 (?dumping into river)

Sample 311 (GBA) (from 'Column E'; 1 kg): 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 examined during the assessment 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 (*Urtica urens*) achenes were abundant, though some other weed taxa were present in modest concentrations. Many of the taxa—rather over one third—were the same as in the sample from 2189 (see below)

Invertebrates were assessment-recorded, but a rough semi-quantitative list was made. Among the adult beetles and bugs there were over 60 individuals of more than 50 taxa, together with numerous mites, some fly puparia, and a trace of other remains. A large proportion of the remains were of 'outdoor' taxa (perhaps 40% of the

individuals), including appreciable numbers of aquatic and waterside forms. Among the decomposers only *Anotylus nitidulus* and an aleocharine were at all abundant (several of each). Taxa typical of urban deposits were poorly represented, and may have had a background origin or have arrived in miscellaneous dumps.

A single *Valvata pisc inalis* was recorded; this is a catholic freshwater snail.

A radiocarbon date of 1260±60 BP (Beta-129587) = cal. AD 655 to 895 was achieved for a sample of bone from this context. This is consistent with a pre-Anglo-Scandinavian date on archaeological grounds, as is the nature of the biota.

Context 2189 (?waterlain deposit, sealed by earliest wattle structure)

Sample 296 (GBA) (1 kg): Moist, mid greybrown, crumbly and fissile, slightly humic, silty sand. Local patches of almost pure, light brown sand and ?rotted organic matter. Vivianite present.

Bark (not discernible in the unprocessed sediment) formed the largest single component of the moderate-sized residue examined during the assessment, 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 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 recorded and there were traces of stem fragments of the clubmoss Diphasium complanatum.

Although invertebrates were assessment-recorded, an approximate semi-quantitative record was created, around 80 individuals of 40 taxa of adult beetles and bugs being present. Over a quarter were 'outdoor' forms, a substantial proportion of these being aquatics (seven species were noted).

Fly larvae and mites were numerous, with a few other remains. Most abundant among the beetles was an aleocharine staphylinid (recorded as 'many' on the semi-quantitative scale); these cannot be placed ecologically as either urban or from riverside habitats. There was a clear component which probably came from occupation deposits, however, notably several *Lathridius minutus* group, two *Anobium punctatum* and *Cryptophagus* sp., and single individuals of several other taxa. This part of the fauna almost certainly originated in dumps from occupation.

A single Valvata piscinalis was again recorded.

The biological evidence suggests that this deposit is probably Anglo-Scandinavian in date, or at least contains material from this period.

Two radiocarbon dates were obtained for material from this context: 1020 ± 60 BP (Beta-129585) = cal. AD 895 to 1160 from a sample of bark and 960 ± 60 BP (Beta-129586) = cal. AD 980 to 1210 for a sample of bone. Both are consistent with the biological evidence for a date in the Anglo-Scandinavian period and suggest either that the archaeological dating is incorrect or, very much less likely, that some or all of the biological material was intrusive.

Period 3 (Anglo-Scandinavian Phase 1)

Context 2178 (organic fill of timber-lined ?sluice/overflow to W of wattle 2168)

Sample 292 (GBA) (3 kg): Moist, dark greybrown (locally light-mid grey-brown), crumbly and layered internally in places (working plastic), very humic, sandy silt, with fine herbaceous detritus locally. Charcoal (to 15 mm) and 6-60 mm stones present. A 1 kg subsample was examined during the assessment; the remains in it were essentially similar to those from the large subsample.

The 3 kg subsample produced a very large residue of about 1400 cm³ of granular bark (at least two types present, the fragments up to 35 mm) and charcoal (to 20 mm) with a little wood and some

wood chips (both to 15 mm), with quite a lot of sand and some gravel; all fractions were large, especially the <2 mm, which included abundant sclereids (in the sample as a whole these were up to 4 mm in maximum dimension). The nature and significance of the sclereids are discussed below.

Prominent amongst the very large range of plant taxa recorded (a total of 91, the fourth largest assemblage for the corpus of samples examined for this site as a whole) were a variety of mosses of diverse habitats, including peatland, woodland, fen and marshland. Taxa which achie ved moderate abundance scores were Aulacomnium palustre, Dicranum scoparium, Hypnum cf. cupressiforme, Leucobryum glaucum, and Pleurozium schreberi, which together suggest an origin in peatland, perhaps via imported turves. There was also a variety of remains of heather, traces of unidentified charred root/rhizome fragments, traces of charred moss (in the subsample examined during the assessment) and perhaps also some fragments of mor humus, all consistent with an origin in turves. Other mosses, such as Antitrichia curtipendula, were more typical of tree bark and may well have arrived attached to the bark which was so abundant in the deposit. A possible roof or litter component may be represented by charred and uncharred saw-sedge (Cladium) leaf fragments, and some very well preserved cereal chaff and spikelets, and charred and uncharred grass/cereal culm (stem) fragments.

Some food waste may well also have formed part of this deposit, for there was 'bran' of both oats and wheat/rye and some apple endocarp ('core') fragments and hazel nutshell. Two other 'useful' plants were indicative of dyeing: traces of pod fragments of woad (Isatis tinctoria) and stems fragments of a clubmoss, probably Diphasium complanatum. These—and especially the clubmoss, which was also recorded from the subsample examined during the assessment—are highly characteristic of Anglo-Scandinavian deposits in York (Kenward and Hall 1995; Hall 1998). Seeds and capsule fragments of flax were also present and the assessment sample produced a trace of fruits of the salt-marsh plant sea arrowgrass (Triglochin maritima), whose presence in Roman and early medieval deposits in York has

been noted before. It is discussed by Hall *et al.* (1983), Hall and Kenward (1990) and Kenward and Hall (1995) and it seems most likely to have arrived in herbivore dung.

Recording of adult beetles and bugs from the 3 kg subsample was at the 'detailed scan' level (see above), although the high degree of fragmentation of a substantial proportion of the remains (up to F 5.0 on the scale of Kenward and Large 1998) limited identification. There were 240 individuals of 121 taxa of adult beetles and bugs, together with numerous other remains. The latter included large numbers of fly puparia and mites, numerous fly adults and pupae, a wide range of other insects, and some Cladocera (water fleas). Diversity of the beetle and bug assemblage was high (alpha = 97, SE = 11), indicating diverse origins.

Inspection of the species list suggested that three main habitat groups were present. The first was a component associated with intensive occupation, probably from within buildings (Lathridius minutus group, with 13 individuals the most abundant species, Carpelinus fuliginosus (7), Anobium punctatum (6), Acritus nigricornis, Xylodromus concinnus and Trox scaber (all 4), and small numbers of numerous other taxa). To these may be added a single sheep ked (Melophagus ovinus), presumably from wool cleaning and perhaps brought with the dyeplant remains. These were presumably all imported in dumped material, together with a range of other remains including Ulopa reticulata and Olophrum ?piceum, which presumably originated with the peatland mosses listed above. The second component was of species associated with weed vegetation (six Phyllotreta nemorum group, indicating crucifers, three Chaetocnema concinna, from docks or knotgrasses, and single individuals of various others). The third ecological group was of aquatic and waterside species (together 15% of the assemblage and including Helophorus sp. (11), Ochthebius minimus (4), Helophorus aquaticus or grandis, and two Limnebius species (2 of each), and single individuals of a few others).

Notable among the less well-represented components were the longhorn *Pogonocherus hispidulus*, the larva of which bores in slender,

dead twigs of various trees and woody shrubs, including elder, *Sambucus* (Duffy 1953), and the bark beetle *Hylesinus oleiperda*, primarily associated with ash, *Fraxinus* (Balachowsky 1949). Much the most likely origin for these in the present deposit would be as corpses in woodland mosses.

There were four *Trox scaber* to accompany the abundant bark fragments (see discussion below). Traces of taxa which may have originated in hay or redeposited dung were present, and there were seven *Aphodius prodromus*, associated with dung and perhaps either brought with dumped material or from dung on surfaces near the river.

Overall, this deposit appears to be primarily occupation material, perhaps largely bark from tanning (there were traces of very decayed leather fragments up to 35 mm, though this is not in itself necessarily good evidence for the tanning process, cf. Hall and Kenward, in press) but also with a range of other materials including perhaps turves and litter (both from thatching?) and some food waste, or even faecal material. That the deposit included components originating in a structure of this kind might indicate its use as a drain, though it may simply represent material discarded at or after abandonment.

Three small fragments of bone were present including a caprovid third phalanx.

Context 2160 (first waterlain deposit, after construction of wattle revetment; silting in channel west of bank)

Samples 287 and 291 (GBA), 288 and 290 (BS)

Material from both GBA samples was examined because the sediments were found, on inspection in the laboratory, to be rather different. This difference was borne out when the disaggregated residues were examined.

Sample 287 (3 kg): Dark grey (mottled mid brown on mm scale), crumbly and soft humic sand with stones 2-20 mm and traces of brick/tile and charcoal and inclusions of light grey-brown silt.

The very large residue of about 1100 cm3 was largely (about 900 cm³) organic material, and this in turn was mainly bark and charcoal fragments (both to 20 mm) with very abundant bark sclereids (up to 5 mm) and abundant well- preserved charred *Cladium* leaf fragments (the characteristically coarsely-toothed margin was visible on one or both edges of the fragments; there may also have been some leaf tips). A range of other charred material, perhaps more particularly in the subsample examined during assessment, is suggestive of the presence of debris from burnt turves (as in the material from Context 2178, discussed above).

Also notable in this sample were moderate amounts of what appeared to be fragments of flax stems of the kind resulting from breaking of retted stems during fibre extraction (the waste known as 'shives'), as well as traces of very decayed clubmoss stem, and one tentatively identified stem fragment of dyer's greenweed (Genista tinctoria), these two taxa representing plants likely to have been used in dyeing. Two other plants may have served as dyeplants but are equally likely to have arrived for other reason—agrimony (Agrimonia eupatoria) and hop (Humulus lupulus)—and these, together with a wide range of other plants, contributed to the high overall AIV score for the 'useful' groups of plants (Table 6)—at 677 by far the largest value for this parameter for these deposits.

The total of 83 identifiable plant taxa makes this one of the larger assemblages for the site as a whole, the most frequent remains being mosses (especially from peatland and bark or other woodland habitats) or plants representing disturbed habitats, especially trampled places and cornfields. The presence of a number of plants broadly indicative of damp grassland accounts for the high AIVs for PHRA (reedswamp and fen) and MOAR (mesotrophic grassland) groups (the latter high for this group for the site as a whole, but too small to be included in Table 6); these are plants which seem as likely to have grown near the river as to have arrived in, for example cut vegetation. There was no component of truly aquatic plants, however, suggesting that if the deposit formed in water it formed quickly by the dumping of terrestrial material without inclusion of remains from the river water itself, or that it formed by sedimentation of debris in suspension in water originating on land, for example as effluent from a pit.

Invertebrate remains were rather numerous in the flot; there were 163 individuals of 95 adult beetle and bug taxa, numerous fly puparia and mites, and traces of other remains. Outdoor forms were abundant, forming 34% of the assemblage, and diversity was high (alpha = 95, SE = 13), these observations together indicating deposition in the open and mixed origins. Aquatics were quite abundant (18 individuals, %NW = 11) and there were appreciable numbers of waterside taxa. Modest numbers of numerous taxa typical of urban occupation deposits suggested dumping, and this was supported by a component from heath/moor (two Macrodema micropterum, and a single Bradycellus ruficollis), and from wool preparation (Melophagus ovinus). Trox scaber was moderately abundant (four individuals).

Invertebrates in the 1 kg subsample were recorded as assessment level, although a rough semi-quantitative list was made. Allowing for the difference in numbers, the list was essentially similar to that for the larger subsample.

Sample 291 (3 kg): Dark brown, slightly brittle and very weakly laminated (working crumbly), fine woody and herbaceous detritus and amorphous organic sediment.

Though of the same initial weight as the subsample from 287, this subsample yielded an extremely large residue of about 2300 cm³ mostly of granular bark (to 35 mm) and bark sclereids (to 5 mm), with only traces of charcoal but with a large component of fine wood fragments up to no more than about 1-2 mm, perhaps sawdust. The total number of identifiable taxa (54) was quite high but only a wetland moss (*Scorpidium scorpioides*) and stinging nettle (*Urtica dioica*) were present in more than trace amounts—perhaps a result of dilution by the large bark and ?sawdust components. The only high AIVs were for mosses in four groups representing bogs, fens, marshland

and bark habitats. *Diphasium* was present, as in the subsample from 287, together with seeds and capsule fragments of flax and perhaps also stem fragments (shives?) of this plant.

The invertebrates were abundant (for adult beetles and bugs, N = 213, S = 92, with various representatives of 'other orders'), and showed a broad similarity to those in the material from Sample 287, but there was a much clearer component which seems most likely to have originated in dumped urban waste, including very foul material. There were indications of 'house fauna' from Lathridius minutus group (19 individuals, at rank 1), Anobium punctatum (5), and small numbers of some others, but these were accompanied by foul decomposers such as Platystethus arenarius (12) and Cercyon haemorrhoidalis (5). The abundant (14) Cercyon analis probably lived with this latter component. The presence of these well-represented ecological groups was reflected in rather lower diversity than seen in some other deposits at this site: alpha = 61, SE =7. The assemblage was ecologically mixed, however, with appreciable numbers of aquatics (%NW = 5) and plant feeders. The phytophages included some taxa which are believed often to have been imported in cut hay or to have entered via dung, and it is possible that the very foul matter indicated by a substantial part of the fauna was indeed dung, either waste or (perhaps more probably) an ingredient in tanning. There were four Trox scaber.

Context 2139

A sample of bone from this context was submitted for radiocarbon dating; it gave a date of 950 ± 60 BP (Beta-129584) = cal. AD 990 to 1220, rather late for the early part of the Anglo-Scandinavian period.

Period 4 (Anglo-Scandinavian Phase 2)

Context 2131 (peaty material, ?river deposit—substantial layer covering whole of timber structure and area of earlier channel and area to E)

Samples 280 (GBA), 281-284 (BS)

Sample 280 (1 kg): Moist, dark grey (locally more grey and more brown), crumbly, soft, moderately humic, slightly silty sand with traces of stones 6-60 mm, moss and large mammal bone.

The large residue examined during the assessment was mainly very decayed bark, especially in the >4 mm and <1 mm fractions (the latter being also very rich in sclereids derived from bark); there was about 20% by volume of sand. The wood fragments were often very fresh-looking and pale in colour, unlike the very dark and decayed bark, suggesting a different origin. There were also moderate numbers of very decayed stem fragments of club moss and a range of plants from a diversity of habitats (mostly in trace amounts): weeds of various kinds, heathland plants (perhaps from turves), mosses likely to have grown on bark, a few possible food plants, and seed fragments and capsule fragments of flax.

Invertebrate remains from this sample were recorded during assessment, a rough semiquantitative list being made. There were quite large numbers of adult beetles and bugs, and other invertebrates were present in moderate quantities. The more abundant taxa formed a group reminiscent of those in some cesspit fills in Anglo-Scandinavian deposits at 16-22 Coppergate, York (Kenward and Hall 1995). Most notably, there were 'several' individuals of Platystethus arenarius, P. cornutus group, and Anotylus nitidulus. If they lived together, these species suggest foul, richly organic mud. The remaining fauna was rather mixed, with a weak component indicating urban occupation, possibly of background origin or from washed out dumps (aquatics were rare, however, so there is no clear evidence that this deposit was waterlain).

Sample 281 (3 kg taken from unprocessed BS sample): Moist, mid to dark grey-brown, slightly brittle (?slightly concreted), working crumbly and just plastic, silty sand with a varying sand and humic content, with stones 2-60 mm, brick/tile, ?bark, twigs and mammal bone.

This subsample yielded a large residue of about 1400 cm³, the washover of organic material accounting for about 1200 cm³, the rest being bone, sand and gravel. The large organic fraction consisted mainly of granular bark (to 40 mm) and bark sclereids (to 5 mm) with a large assemblage of identifiable taxa (64). The range of mosses was much as before: a mixture of corticole (barkliving) and wetland types. There was also a variety of weeds and some wetland herbs, and two plants from the characteristic Anglo-Scandinavian dyeplant group discussed above: clubmoss (Diphasium complanatum) and madder (Rubia tinctorum), the former in more than merely trace amounts, though very decayed. Wood fragments, including chips, were present in very small amounts.

Invertebrate remains were quite abundant in the flot, semi-quantitative rapid scanning yielding a list of well over 100 individuals of around 70 beetle and bug taxa and various other remains. Aquatics were better represented than in Sample 280, and gave rather more support to a waterlain origin for the deposit. There was more evidence for a house fauna component, too, for there were several Lathridius minutus group, three Anobium punctatum, two human fleas (Pulex irritans), and a sheep ked (Melophagus ovinus). Otherwise the fauna showed no special character, although 'many' Anotylus nitidulus and several each of Carpelinus bilineatus and Cercyon analis, and various rarer taxa, are indicative of rather foul matter.

A single *Teretrius fabricii* was recorded: this histerid beetle preys on the immature stages of wood- (and presumably bark-) boring beetles (Halstead 1963). The click beetle *Melanotus ?erythropus* was also noted. Its larvae bore in decaying wood. Both adults and larvae were fairly common at 16-22 Coppergate, so it may have been able to colonise decaying timber, perhaps in the ground, on occupation sites.

Two samples from this context were submitted for radiocarbon dating: a sample of bark gave a date of 870 ± 60 BP (Beta-129582) = cal. AD 1025 to 1275 and a sample of bone 1060 ± 70 BP (Beta-129583) = cal. AD 815 to 840 and 855 to 1055

and 1085 to 1150, consistent with a late Anglo-Scandinavian/early post-Conquest date.

Period 5 (Anglo-Scandinavian Phase 3)

Context 2087 (top part of clay bank W of N-S wattle)

Samples 264 (GBA), **265-8** (BS) and **263** (SRS)

Samples 265-8 (total 44 kg) and 263 (117 kg): The small residues from 265-8 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). The residue from 263 was mostly large cobbles and pebbles with some bone.

Context 1038 (reddish grey clay filling cut into 2131)

Sample 89 (GBA) (3 kg): Mid brown, plastic and soft clayey sandy silt with traces of stones 2-6 mm.

There was only a small residue of about 150 cm³ of which about 10-15% formed a washover of organic material, the rest being rather clean sand and gravel. The organic fraction included some decayed wood and bark but mostly consisted of very decayed small uncharred twiggy fragments which were tentatively identified as heather, supported by a secure determination for uncharred shoot fragments of this plant. For the rest, there was a small assemblage of rather worn seeds of weeds of various kinds (with no particular group predominating), and a trace of dill (*Anethum graveolens*) 'seed', the single cultivated plant represented. Only stinging nettle (*Urtica dioica*) was recorded at more than trace levels.

Invertebrates were rare, rapid scanning producing simply a list of eleven beetles. Although too small for reliable interpretation, this group was dominated by outdoor forms.

Context 2030 (reddish grey clay filling cut into 2131)

Sample 286 (GBA) (3 kg): Moist, mid brownishgrey, 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.

This deposit was quite unlike any other seen during these analyses (and the laboratory description of the lithology as a sand may be contrasted with the field description of it as a clay). The large residue of about 750 cm³ consisted of about 70% by volume of heather twigs, from the basal parts right up to finest, mainly leafless, tips, the rest being sand-grade mineral (the 1-2 mm fraction mainly comprising fragments of calcareous concretions) and some gravel. The concreted material consisted of vesicular fragments apparently forming as the cast of a structure like a root or small twig, with other material being thin, more thallus-like, with organic detritus embedded in it (which proved on closer inspection to be Calluna leaves and shoot fragments); there were also some small twigs encased in concretion. This material gives the impression of a residue from some industrial process in which quantities of heather were steeped in, for example, lime. The presence of traces of small (to 10 mm) leather fragments perhaps argues for this being leather tanning or dyeing (or both: a trace of very decayed clubmoss stem was noted during the assessment of material from this context).

For the rest, there was a mixture of plants, mainly weeds of waste places, including (not surprisingly) disturbed wet habitats like ditches and river margins in the vicinity of occupation, with traces of possible food plants and capsule fragments of flax.

Invertebrates from the 3 kg subsample were rapidly assessed. Beetles were fairly abundant, with 'many' *Cercyon analis* and traces of *Trox scaber*. There were some aquatics and an abundant fauna of intensive occupation.

Recording of the original 1 kg assessment subsample included the production of a rough semi-quantitative list of a small group of invertebrates. Only about 50 individuals of less than 40 beetle and bug taxa were noted, outdoor taxa being the predominant ecological group. The assemblage probably had mixed origins, with components from water, water margins and occupation deposits; it thus matches the recorded miscellaneous plants of waste places and waterside.

Overall, invertebrates from Context 2030 showed no exceptional features to parallel the unusual lithology and botanical character.

Context 2038 (silts over clay bank)

Samples 252 (GBA), 253-6 (BS)

Samples 253-6 (total 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.

Context 1039 (organic deposit, ?dump [overlying later wattle revetments])

Samples 90 (GBA), 91-4 (BS)

Sample 90 (3 kg): Waterlogged, dark brown, crumbly (working soft to slightly plastic), very humic silt to silty amorphous organic sediment with woody herbaceous detritus locally.

There was a very large residue of about 1200 cm³ with a distinctly granular appearance, of which less than 100 cm³ consisted of mineral material left after removing the washover. The bulk of the organic fraction of the residue was bark (up to 35 mm in maximum dimension) with small (mostly <1 mm) sclereids also extremely common. The residue also contained quite a lot of small bone

fragments (up to 80 mm, some of them burnt to some degree), with a characteristically mottled and flaky appearance.

The more abundant of the identifiable plant taxa included seeds or fruits of a number which are common in occupation deposits and whose interpretative significance—beyond indicating disturbance or neglected waste ground—is rather limited. Among these were oraches (Atriplex), fathen (Chenopodium album, elder (Sambucus nigra) and nettles (Urtica dioica and U. urens). Two taxa in this group (elder and blackberry, Rubus fruticosus agg.) partly account for the rather high abundance-indicator value for the foodplants group (FOOS, Table 6), as well as that for woodland (QUFA), and are perhaps more likely to represent scrub than food waste or faecal material in this context. The presence of seed or fruits fragments of the cornfield weeds corncockle (Agrostemma githago) and black bindweed (Bilderdykia convolvulus), and perhaps also the pod segment fragments of wild radish, Raphanus raphanistrum, are consistent with an origin in straw used for thatching or litter, for example. One other 'useful' plant was flax (Linum usitatissimum), of which traces of seeds and capsule fragments were recorded.

Charred shoot fragments of heather and charred twig fragments possibly also of this plant, together with unidentified charred herbaceous root or rhizome fragments, may represent material originating in burnt turves. Material tentatively identified as 'charred bread' (at least one fragment up to 10 mm) needs further research.

This subsample produced a remarkable insect assemblage, both in composition and in preservational characteristics. Recorded in detail, there were 196 individuals of 51 adult beetle and bug taxa. Aquatics were rare (a single individual of the highly migratory *Helophorus*), suggesting terrestrial deposition or bulk dumping into water without mixing. Diversity was low (alpha = 23, SE = 3), and one ecological group, species associated with foul, mouldering, open-textured organic matter, predominated. In this group there were 56 *Oxytelus sculptus* and 33 *Cercyon analis*, together with *Ptenidium* sp. and *Neobisnius* sp. (4

each), Cercyon atricapillus, Anotylus rugosus and Leptacinus pusillus (3 each), and smaller numbers of a considerable range of taxa likely to have bred in the same environment, notable among them being Gauropterus fulgidus and Gyrohypnus fracticornis (2 each). This might normally be interpreted as the fauna of stable manure or of some other waste (e.g. dyebath refuse) very similar to it.

A further species was very abundant: Trox scaber. Its remains were highly comminuted and fell apart when touched even with a fine paintbrush, suggesting that they had undergone decay of an unusual kind not experienced by the remaining fauna. It is suggested that this decay was brought about by substances used in a bark-based tanning mixture, indicated by the bark and sclereids mentioned above. The fauna of foul mouldering matter may have invaded after the tan pit waste was dumped and the corrosive component had leached somewhat; although many of the remains were fragmentary (making identification difficult) there was no sign that more than a few other insects had passed through the tanning process with the *Trox*.

A 1 kg subsample examined during the assessment was 'assessment recorded', but a rough semiquantitative list made: its implications were as for the 3 kg subsample.

Samples 91-4 (total 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.

Context 1052 (clay/clay silt E of wattle forming N-ward extension of bank)

Samples 117 (GBA), **Samples 118-121** (BS)

Sample 117 (1 kg): 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.

Bark-derived sclereids were frequent in the very small flot and not surprisingly very decayed bark formed the bulk of the very small residue. There were a few rather worn identifiable plant remains of various kinds, including charted shoot fragments and uncharred capsules and shoot tips of heather, ?burnt peat fragments, and charted root or rhizome material—perhaps together indicating burnt and unburnt turves; also present were traces of charted and uncharred hazel nutshell.

The invertebrate assemblage, which was assessment recorded, was dominated by large numbers of *Trox scaber*.

The bone present included 2 herring vertebrae and 6 unidentifiable fragments.

Two samples from this context were submitted for radiocarbon dating. The results were: $1000\pm50\,\mathrm{BP}$ (Beta-129571) = cal. AD 980 to 1175 for a selection or remains of *Trox scaber* and 1170±50 BP (Beta-129572) = cal. AD 720 to 745 and AD 760 to 990 for a sample of bark. This discrepancy can be explained by the presence in the outer layers of the bark of older radiocarbon, perhaps almost as old as the tree from which it was taken, if it was oak.

Samples 118-121 (total 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.

Context 1047 (clay/clay silt E of wattle forming N-ward extension of bank; above 1052)

Samples 95 (GBA) and **96-9** (BS)

Sample 95 (3 kg): 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 (mm-cm 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 assessment recorded. They were not very abundant and had no special character in the context of the present site, other than that *T. scaber* was not noted.

A single pig maxillary molar was recorded.

Samples 96-99 (total 58.5 kg): The small residues were mainly pebbles, cobbles and other gravel, with a little large bone and brick/tile.

Context 2065 (river deposit)

Samples 258 (GBA), 259-62 (BS)

Sample 258 (3 kg): Mid to dark grey-brown, soft (working just plastic) silty sand with traces of stones 2-20 mm, brick/tile, bark and yellow mmscale flecks.

The moderate-sized to large residue of about 800 cm³ included a single piece of worked ?oak wood (perhaps a stake end) of about 180 cm³ and about 60 cm³ of sawn horncore fragments. The remainder consisted of organic detritus (mainly bark, wood and charcoal) with a range of weeds and woody plants but with the largest group being potential foodplants. There was also about 250 cm³ of sand and gravel. Closer inspection showed the foodplants to include modest amounts of wheat/rye bran, perhaps originating in faecal material (though by no means certainly from this source—the presence of some grassland plants may suggest an alternative origin in litter or stable manure). Much of the plant material was well rotted, suggesting some decay had occurred prior to deposition or that this was largely reworked from another place.

A fairly substantial assemblage of insects was recovered in the flot, including 105 individuals of 70 adult beetle and bug taxa, numerous fly puparia and mites, some water flea resting eggs, and assorted others. Although recording was nominally at the scan level, a detailed record of the beetles and bugs was made. Preservation was often very good. None of the beetles were particularly abundant, and this is reflected in the estimate of diversity (alpha = 91, SE = 18), suggesting mixed origins for the fauna. There were only a few water beetles (5% of the assemblage) but, together with the records of Cladocera ephippia ('several' Daphnia sp. and a total of three of two other kinds) and a statoblast of the bryozoan Lophopus crystallinus, they offer reasonable evidence for aquatic deposition. However, it is clear either that the water was too polluted to support a rich aquatic fauna, or that dumping proceeded very rapidly. The excellent preservation of the cuticular surface of many of the remains suggests rapid burial rather than reworking, too. Species which may have lived on river banks or on wet mud or litter were present in modest numbers. The decomposer beetles included a large proportion of individuals of species likely to have occurred together in fairly to very foul matter, lending some support to the suggestion that a faecal component was present, though not necessarily human.

Samples 259-62 (total 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 a chopped cattle skull), traces of brick/tile, shellfish, wood/twigs, and a trace of bird bone were also present in the residues.

Context 2037 (sandy ?river deposit)

Samples 251 (GBA), 247-50 (BS) and 246 (SR)

Samples 247-250 (total 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.

Sample 246 (134 kg): This sample produced a large residue of cobbles, some brick/tile, large bone (few burnt) and traces of pottery.

A sample of bone from Context 2037 gave a radiocarbon date of 780 ± 60 BP (Beta-129580) = cal. AD 1160 to 1300. That this is clearly a post-Conquest date suggests that the bone was intrusive, assuming that the archaeological date is sound.

Period 6 (Anglo-Scandinavian Phase 4)

Context 2025 (erosion deposit at foot of clay bank deposit)

Sample 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.

Context 2023 (waterlain silt)

Sample 206 (GBA) (1 kg): 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 crossleaved heath, both being charred and perhaps from burnt turves. There were also uncharred seeds and capsule fragments of flax and traces of very decayed stems of the clubmoss *Diphasium complanatum* (typical of deposits of Anglo-Scandinavian date in York).

Invertebrates in the flot were assessment-recorded, though a rough semi-quantitative list was made. Beetles were not very common, but there were modest numbers of fly puparia and mites; they constituted a dilute urban group.

Context 2022 (silt laid down within channel 2033)

Samples 205 (GBA/SPOT), 220 (SR)

Sample 205 (0.5 kg):grey-brown silty sand with patches of crisp, fine-grained, black (charred?) plant material, rather like turves.

The small subsample was soaked and more gently disaggregated than was usual for this group of samples. Sieving produced a residue consisting of sand and some lumps of what appear to be charred (plus a little uncharred) sandy *Callunetum* mor humus (the humic surface layer forming on heather-dominated moorland and heath land), with many loose charred fragments of root/basal twig of heather, and also some uncharred roots which might be supposed to have come from unburnt parts of turves, although they might also represent growth of roots from above into the layer after it formed.

There seems little doubt that this deposit contained a considerable quantity of material from partlyburnt turves, presumably dumped into the channel.

Sample 220 (27 kg): The small residue was mostly charcoal and small wood fragments, with traces of brick/tile and large bone.

Context 2020 (silt laid down within channel 2033)

Sample 218 (SR) (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.

A sample of bone from this context was radiocarbon dated and gave a date of 1250 ± 40 BP (Beta-129579) = cal. AD 700 to 900. Such an early date suggests the bone may have been redeposited.

Context 2019 (silt laid down within channel 2033)

Sample 216 (SR) (93 kg): The small residue was mostly cobbles, with traces of charcoal and brick/tile and large bone (some burnt).

Context 2018 (silt laid down within channel 2033)

Sample 217 (SR) (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 were present, including cattle and caprovid skull and metapodial fragments.

A sample of bone from this context gave a radiocarbon date of 760±70 BP (Beta-129578) = cal. AD 1160 to 1310 and 1360 to 1385, clearly post-Conquest and presumably a result of intrusion from above (unless the archaeological dating is not sound).

Context 1033 (silt laid down within channel 2033)

Samples 68 (GBA) and **69-72** (BS): These residues were only examined during the assessment.

Sample 68 (2 kg): Wet, light to mid grey with an almost pinkish to 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 plant 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.

Assessment of the flot revealed small quantities of invertebrate remains of no special character, although there were two *Trox scaber* to accompany the bark.

Only two unidentifiable bone fragments were recovered.

Samples 69-72 (total 51 kg): The small residues from these samples were mostly very decayed bark with some bone and traces of shell and brick/tile. Bone included a goat horncore chopped at the base, and a cow phalanx and teeth.

The radiocarbon date for a sample of bone from this context was 960±70 BP (Beta-129570) = cal AD 970 to 1225, compatible with a late Anglo-Scandinavian date but perhaps another example of intrusive material.

Context 1032/1033

Sample 85 (GBA) (1 kg): 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 (probably sclereids, to judge from evidence from other samples). There were very few identifiable plant remains—no seeds were noted from the residue at all. A few invertebrates were noted in the flot during assessment.

Context 1031 (?river silt)

Samples 62 and 84 (GBA) and 63-67 (BS).

Sample 84 (2 kg): 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. There were some charred (and uncharred) remains of heather and also charred leaves of cross-leaved heath. Most of the other remains were weeds or plants with little interpretative value.

The flot contained only a few invertebrates, but among them were parts of three *Trox scaber*.

Most of the bone (28 fragments) was unidentifiable, those identified including amphibian and herring remains. All the fragments were small (<20 mm); two were burnt.

Samples 63, 65 and 66 (total 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.

Two samples from Context 1031 were submitted for radiocarbon dating. A sample of bark gave a date of 970±50 BP (Beta-129568) = cal. AD 980 to 1175, whilst a sample of bone was dated 1170±60 BP (Beta-129569) = cal AD 700 to 1000, suggesting that the latter may have been residual.

Content 1029 (?river silt)

Samples 77-81 (GBA)

Sample 80 (3 kg): Dark grey-brown (locally paler) crumbly and soft humic, slightly sandy silt, perhaps ashy, with large fragments of large mammal bone (the last also seen in other samples from this context).

The moderately large residue of about 450 cm³ consisted mainly of granular (and very decayed) organic material, much of it charcoal (to 20 mm) and other charred plant material. There was barely 100 cm³ of sand and angular bone.

The identifiable charred plant remains consisted especially of ?heather root/basal twig fragments with burnt ?peat or mor humus (presumably from burnt peat or turves), with a little uncharred wood and bark (the latter represented also by moderate amounts of sclereids). Small fragments of unburnt peat or mor humus were also present, as were traces of charred and uncharred remains of aerial parts of heather—flowers, shoot fragments and capsules. Other records which lend some support to the suggestion that turves were present are those for charred moss and a seed of heath rush, *Juncus squarrosus*; although not identified further,

charred moss (which appears to be rarely recorded in archaeological deposits, not least because it is very fragile) has been linked with a group of plants thought to be indicative of material derived from turves in medieval occupation deposits at North Bridge, Low Fisher Gate, Doncaster (Carrott et al. 1997a). In this connection, the record for Sample 80 of a single fragment of charred monocotyledonous leaf tentatively identified as saw-sedge, Cladium mariscus, may be significant; if this is the plant concerned the fragment may have originated in sedge used for roofing or for fuel, as might the turves.

Some of the wood fragments present were pale in colour and looked as though they had either recently decayed or perhaps decayed and become dried before incorporation into the deposit. Decay in the tub during storage cannot, of course, be ruled out and this may be supported by the presence in the flot of wood fragments with channels filled with arthropod 'frass' which appeared rather fresh.

Other occupation material clearly found its way into this deposit as it formed, for there were some well preserved but sometimes distorted charred cereals (including barley, *Hordeum* sp., bread/club wheat, *Triticum aestivo-compactum*, and ?rye, cf. *Secale cereale*); the distortion is likely to have been a result of charring whilst the grains were still somewhat moist, and the fact that at least one barley grain showed evidence for sprouting is consistent with this. A further specimen indicative of a probable food component in this deposit was a single large, but very slender, charred *Allium* bulb, presumably a clove of garlic, *A. sativum*, and a single fragment thought to be 'tunic' (papery outer tissue) of the same plant.

Though not especially important in the subsample from Sample 80, the prominent component of trampled ground plants in the subsample of Sample 79 from the same context, examined during the assessment, indicates heavy disturbance in the area at the time the deposit formed; the taxa concerned are shepherd's purse (Capsella bursa-pastoris), swine-cress (Coronopus squamatus), greater plantain (Plantago major), knotgrass (Polygonum aviculare agg.) and

silverweed (*Potentilla anserina*). Some of these plants are also scored with comfield weeds (group SECA, Table 6), and account for the large AIV for this group, too.

The invertebrates in the flot were rapid-scan recorded. Numbers were fairly small, but *Trox scaber* was represented by seven individuals and there was a (tentatively, but probably correctly) identified specimen of *Dryocoetinus villosus*, a species found under bark, very frequently of oak (Balachowsky 1949). There was no component among the few invertebrates to match the botanical evidence for turf, perhaps because of the burning it appears to have undergone.

Context 2013 (?river deposit)

Samples 192, 203 (GBA), **193-6** (BS) and **197** (SRS)

Samples 193-6 (total 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.

Sample 197 (SR) (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.

A sample of bone from Context 2013 gave a radiocarbon date of 1000 ± 70 BP (Beta-129577) = cal. AD 895 to 1195, consistent with the archaeological dating as late Anglo-Scandinavian.

Period 7 (Medieval)

Context 2007 (dump of stony sandy silt into river (?consolidation of bank))

Sample 213 (GBA) (3 kg): Mid grey-brown, slightly brittle and slightly 'cheesy' to crumbly (working slightly plastic) sandy silt with traces of

stones 20-60 mm and of freshwater molluses (both bivalves and snails).

There was a moderate-sized to large residue of about 800 cm³, of which less than 100 cm³ comprised sand and gravel, the rest being flaky to granular bark fragments (to 50 mm), small herbaceous stem fragments (probably mostly flax) and woody and herbaceous detritus, including charcoal. There was a very large assemblage of well-preserved remains (100 taxa, the third largest group from the site) of which aquatics and waterside plants were well represented, especially pondweeds (*Potamogeton* spp., of which at least three species were determined), water milfoil (*Myriophyllum* spp.), and both white and yellow water-lilies (*Nymphaea alba* and *Nuphar lutea*).

There was also a wide range of plants which might have been used for some purpose: as well as flax capsule and stem fragments and seeds, there were remains of leaf fragments of bog myrtle (Myrica gale), a peatland plant with many uses, and seeds or fruits of cat-mint (Nepeta cataria), deadly nightshade (Atropa bella-donna) and agrimony, all potentially with herbal uses, and the last also a possible dyeplant. Small numbers of charred cereals were recorded: oats and rye, and perhaps also barley and wheat. It was noted that many of the flax seeds were small and rather rounded in shape, perhaps indicating a crop grown for fibre rather than for linseed.

One plant which may well have been a weed of flax fields was gold-of-pleasure, Camelina sativa, of which seed pod fragments were present in very small numbers. Though its seeds may have been used as a source of oil in C Europe as far back as the neolithic (Körber-Grohne 1988 and references therein, p. 392), its early history in England has probably been as weed of flax fields rather than as a crop in its own right. Besides the evidence for fibre extraction suggested by the quantities of flax remains, the presence of traces of hemp (Canna bis sativa) seed and keds of the sheep ectoparasite Melophagus ovinus should be mentioned as further probable indications of activities related to textile-working in the vicinity.

The rest of the assemblage comprised a variety of weeds, with nitrophile biennial and perennial plants in the 'ARTE' group especially prominent (and see Table 6); these seem most likely to have been growing on the river bank, perhaps at some distance from the site (though the excellent state of preservation of most of the propagules suggests they did not travel far before being incorporated into the sediment).

Invertebrates were assessment recorded. Aquatics were well represented, the most numerous beetles and bugs being *Helophorus* sp. and Corixidae, respectively. There were also three kinds of Cladocera ephippia, an ostracod, some statoblasts of the bryozoan *Cristatella mucedo*, and a caddis larva case. Deposition was thus clearly aquatic, probably into water which locally, or not far upstream, was able to support a rich invertebrate fauna. This corresponds well with the botanical evidence. There was no clear evidence from the invertebrates for dumping.

The overall impression gained from this sample, then, was of an aquatic deposit with flax stem debris (from retting?) and bark (from tanning?) but incorporating a wide range of plants representing natural and semi-natural habitats although with areas of human occupation nearby.

Context 2006 (sandy river deposit)

Samples 208 and 214 (GBA), 209-212 (BS)

Sample 214 (5 kg): This large subsample yielded a moderate-sized to large residue of about 1000 cm³ of sand, gravel, stone and organic debris, the washover of plant material being about 600 cm³ in volume. Amongst the mineral material was a large lump of red-fired daub (with imprints of wattle) and some pottery, the largest fragment of which bore an organic crust on the inside surface. This crust was up to about 1 mm thick, charred towards the pot surface, uncharred on outer surface, with rather regular small vesicles (bubbles) in a matrix of brown (charred black) organic material; no identification of the material was possible using simple light microscopy on tiny subsamples mounted in dilute acid on glass slides.

The washover consisted of granular bark (to 25 mm) with many short (up to 10 mm) plant stem fragments, perhaps mostly flax. As a result, the coarser fractions had an especially unusual appearance, with dark-coloured granular bark and charcoal mixed with pale and twiggy flax fragments. As well as the stem material, there were abundant flax seeds and capsule fragments. The latter were often broken 'equatorially' rather than along normal lines of dehiscence which is perhaps consistent with damage to capsules which were not fully ripe (i.e. from plants being used for fibre rather than seed). As in the subsample from 2007, Camelina pods were recorded, this time in moderate numbers, though no seeds were recovered (these were probably shed very quickly from the gaping pods at maturity and the stems bearing empty pods were simply collected incidentally with the flax crop).

The presence of modest amounts of the moss *Leucobryum glaucum* with heather remains perhaps points to the continued deposition of material from turves at this period.

Two plants recorded in trace amounts as seeds from this sample have known uses in the past as cathartics: white bryony (Bryonia cretica ssp. dioica) and caper spurge (Euphorbia lathyris), though both are as likely to have been part of the local flora which, to judge from the wide range of weed taxa present, included plants from more and less highly disturbed places, including many typical of stands of vegetation along river banks and roadsides. Notable amongst this 'wayside and riverside' group were hedge-parsley (Anthriscus caucalis), cow parsley (A. sylvestris), burdocks (Arctium spp., of which there were both fruits and 'hooks' from the involucral bracts), hemlock (Conium maculatum), wild carrot (Daucus carota), hemp agrimony (Eupatorium cannabinum), henbane (Hyoscyamus niger), white horehound (Marrubium vulgare), cat-mint, scotch thistle (Onopordum acanthium), and weld (Reseda luteola). Some of these may have found some use as herbs or dyeplants, but they seem to form a rather coherent group that is more likely to represent local herbaceous vegetation.

Lastly, the small component of charred cereals (oats, bread/club wheat and perhaps also barley and rye) and uncharred wheat/rye 'bran' should be mentioned as material clearly derived from occupation, though whether as food or (in the case of the charred material) from fuel or thatch, cannot easily be determined.

Despite all the evidence for terrestrial plants, that the deposit was formed in water is beyond doubt: apart from freshwater molluscs, caddis larval cases and *Cristatella* statoblasts, the presence of moderate numbers of pondweed fruits (at least four *Potamogeton* species were identified) and remains of two types of water milfoil, as well as plants such as arrow-head (*Sagittaria*) and various water-dropworts (*Oenanthe* spp.), gives a clear picture of a river with clean water and a well-developed aquatic vegetation.

Unusually, the plant remains included three burred fruits: agrimony, bur-marigold (*Bidens*) and burdock. It may be no coincidence that one of rather few sheep keds from the site was also recorded in this subsample, both this and the burrs perhaps having been cleaned from wool.

The very high tally of plant taxa from this sample (107, the highest for the site as a whole) must partly reflect the subsample size, which was rather larger than the others examined.

Assessment of the flot showed that invertebrate remains were fairly abundant but fragmentary. Deposition was probably aquatic (there were caddis cases), and there was a weak fauna of human occupation, though no evidence of dumps *per se*. A broad similarity to the fauna from Sample 138 (Context 2005) was noted.

Samples 209-12 (total 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: *Cristatella* statoblasts, *Daphnia* ephippia, bivalve periostracum, oyster shell and snails.

Taken together, the biological evidence seems to point to aquatic deposition of terrestrial material from occupation, but perhaps not primary dumps

Context 2005 (sandy river deposit)

Samples 136 and **137** (SPOT) and **138** and **139** (GBA)

Sample 138 (13 kg): The sediment was not described before processing. A very large subsample was used to concentrate plant material for an AMS date.

The residue was of moderate size, about 2000 cm³ of which about 1400 cm³ was sand and gravel with some pottery (to 30 mm) and brick/tile (to 50 mm) and the rest a washover of organic debris, including chunks of wood (chips and other worked fragments up to 40 mm), and charcoal (to 20 mm), but with only traces of bark (to 25 mm) and sclereids. Remains of flax (both seeds and capsule fragments) were sparse in this sample, though there were fragments of teasel (Dipsacus sp.) which—were it to have been identifiable as fuller's teasel, D. sativus (L). Honckeny—could have been added to the list of plants associated with textile-working (there were sheep ked remains, too). As it was, potential dyeplants were as well represented here as in any of the samples, with moderate numbers of weld seeds and traces of madder root and sweet gale leaf fragments; the trace of tentatively identified clubmoss may, if it really is this plant, support an Anglo-Scandinavian date (cf. the radiocarbon date, discussed below), though this was a shoot tip rather than a stem fragment and may therefore be another species.

As in the subsamples from Context 2006 there was a small peatland component (particularly heather and the mosses Aulacomnium palustre and Leucobryum glaucum), perhaps from turves. There was again a prominent group of plants representing relatively undisturbed river bank or wayside habitats: burdock, hemlock, carrot, henbane, white horehound, cat-mint, scotch thistle (of which there were several extremely well preserved specimens), hedge parsley and weld, and with these probably also the remains of two milk thistle (Silybum marianum) achenes. Camelina pods were again recorded and there was a modest aquatic plant component, including water milfoil, pondweeds and both white and yellow water-lilies.

As an aside, milk thistle, which has been assumed to be an introduction to Britain from S.W. Europe and the Mediterranean region, was not, until recently, known as a fossil in the British archaeological record. Together with the present, there are now unpublished records (made by ARH) for the plant from medieval York (58-9 Skeldergate) and Hull (Blanket Row and Magistrates' Court sites). Though probably initially imported as a plant with herbal properties, S. marianum no doubt quickly established itself in weedy vegetation of the kind represented by a large proportion of the plants in the sample under discussion.

The flot was rapid scan recorded for invertebrates, which were generally rather well preserved. Beetles were moderately abundant and there were a few bugs (N about 111; S about 79). Diversity was estimated to be high (alpha = 122, SE = 24), and the implication that this was a mixed assemblage was supported by the ecological diversity of the recorded taxa. Outdoor forms were very abundant (%NOB = 43). Thirteen individuals of eleven aquatic beetle and bug taxa were noted, and aquatic deposition appears likely. This component was neither so rich or so large as to indicate a well-developed clean water ecosystem in situ, so it may have been carried from upstream. There was a group of species from disturbed ground vegetation, including nettles (there were two Cidnorhinus quadrimaculatus, for example), which seems likely to have grown at the riverside. Species probably associated with clovers and their relatives were well represented: two *Sitona* and several *Apion* species, one of the latter with 'several' individuals.

Insects which were probably imported with peatland turf included *Ulopa reticulata* and *Dyschirius ?globosus*. There was a group of species which were probably introduced in dumped refuse or redeposited urban build-up, and these included a clearly recognisable (though quite small) house fauna component, particularly strongly signalled by seven human fleas (*Pulex irritans*). There were two *Trox scaber*, as likely to be part of the house fauna as to be associated with tanning in this case, and the sheep ked puparium presumably arrived by the same route.

The record of *Pterostichus madidus* is notable: this large black ground beetle is very common today, but rare as a fossil (there were no records from Anglo-Scandinavian 16-22 Coppergate, for example), suggesting a recent and substantial change in abundance.

Samples 136 and 137

During the assessment the two spot samples were found to consist of the same material—plant (probably flax) stems in a sand matrix—as in Contexts 2003 and 2004 (see below). Spot sample 136 also contained flax capsule fragments.

A sample of flax stems from Context 2005 was radiocarbon dated, giving a result of 920 ± 60 BP (Beta-129576) = cal. AD 900 to 1170.

Context 2004 (sandy river deposit)

Samples 132 and 133 (SPOT): Sample 132 consisted of bundle of stems (which were probably flax) in a matrix of sand, as in the spot samples from Contexts 2003 and 2005. Sample 133 comprised three fragments of wood, all identified as oak (*Quercus*).

A sample of bone from this context gave a radiocarbon date of 1220 ± 60 BP (Beta-129575) =

cal. AD 670 to 970, suggesting that it was residual (though the date range overlaps with that for flax stems from Context 2005).

Context 2003 (sandy river deposit)

Sample 147 (SPOT) (0.1 kg): 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 latter 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 were of flax, too (some epidermis fragments were examined and strongly resembled illustrations of this plant published by Körber-Grohne, 1967). 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/basal twig fragments.

Two samples from Context 2003 were submitted for radiocarbon dating: a sample of flax stems gave 950 ± 50 BP (Beta-129573) = cal. AD 900 to 1050 and 1095 to 1140 and a sample of bone 1030 ± 60 BP (Beta-129574) = cal. AD 890 to 1155. Both are compatible with the archaeological dating as medieval, though they are early in this period. The former is also very close to the date obtained from flax stems from Context 2005.

Context 1014 (?river deposit)

Sample 59 (GBA) (3 kg): Mid to dark slightly yellowish grey-brown, soft (working somewhat plastic and thixotropic) sandy silt with traces of charcoal.

The small residue consisted of about 200 cm³ of which a little under half was sand and a single large (to 55 mm) piece of daub (bearing the casts of wattle rods); the rest was mainly charcoal and bark fragments (both only moderately common) with some charred and uncharred ?heather root/basal twig (and securely identified heather shoot fragments and flowers). All the components

looked a little worn or rounded—perhaps abraded by river action before deposition. 'U seful' plants were very sparse in the sample: there were traces of charred oat (Avena) spikelets and of charred ?oat chaff. Although presumably waterlain, there was nothing to indicate an aquatic environment amongst the plant remains and it appears to be material dumped into water if not actually a semiterrestrial or terre strial deposit

There were few invertebrates in the flot, and rapid scan recording produced a nondescript list of only eleven taxa and twelve individual adult beetles and bugs; even so there was a single *Trox scaber*.

Context 1012 (?river deposit)

Sample 56 (GBA) (3 kg): Dark grey, soft (working just plastic), slightly humic, ?ashy sandy silt, with traces of charcoal and bone.

The moderate-sized residue was about 700 cm³ in volume, of which about 150 cm³ was mineral material, mainly gravel (up to 30 mm), grit and sand. The rest consisted of granular, very decayed bark (to 20 mm, with large amounts of bark sclereids up to 2 mm in size) and charcoal (to 15 mm), and other charred plant material. The last of these included moderate amounts of ?heather root/basal twig fragments (there were also traces of charred heather capsules and shoot fragments, and of uncharred shoot tips) and there were some fragments (to 5 mm) of ?burnt mor humus (fine grained, undense, amorphous material); all of these might have originated in burnt turves. Other charred remains included traces of ?oat chaff, cultivated oat (Avena sativa) spikelets, ?rye and bread/club wheat grains, grass/cereal culm-nodes ('knees') and tentatively identified saw-sedge leaf fragments. It is tempting to see these as material originating in thatch, though other possibilities (such as that they were from litter for floors or byres or even from ash which had been used for some industrial process such as tanning) are perfectly possible.

Identifiable plant remains were rather limited in number and diversity, most of them being weeds of waste ground and trampled places. Again, there were no aquatic or marsh plants to indicate deposition in or near the river.

A small group of invertebrates was recovered (N = 47; S = 14), but it was dominated by exceptionally large numbers of remains of *Trox scaber* (27 individuals), many of which were very badly rotted, patchily decayed, and sometimes holed. The only other species present in appreciable numbers was *Trechus micros* (7), perhaps a post-depositional invader but, as a subterranean species, a likely candidate to accidentally meet its death in a feature such as a tan pit. Two *Pterostichus melanarius* and a *Clivina fossor* perhaps hint at a 'pitfall' effect somewhere along the taphonomic chain. A fragment of wood or bark with insect bores was noted.

Context 1027 (?river deposit)

Sample 75 (GBA) (2 kg): 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, as were stones (6-20 mm and 20-60 mm).

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 (Group ARTE in Table 6) was quite well represented 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 as fragments no larger than 10 mm.

There were appreciable numbers of aquatic and waterside molluses (including Bithynia

tentaculata, Valvata piscinalis, Succinea ?oblonga, small freshwater bivalves and fragments of shell of freshwater mussels), ostracods and aquatic and waterside beetles, some house fauna and some terrestrial outdoor species. Numerous insect immatures were present and were probably of aquatic species.

Period 8 (19th century)

Context 1024 (river silt/sand)

Sample 73 (GBA) (1 kg, plus a separate 1 kg processed for molluscs): 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.

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 hornwort (Ceratophyllum), duckweed (Lemna), yellow water-lily, and pondweed (Potamogeton). The invertebrates included abundant opercula of the freshwater gastropod Bithynia tentaculata, as well as shells which may have been of the gastropod *Potamopyrgus jenkinsi*, a 19th century introduction to Britain. There were also bivalves (Pisidium and a freshwater mussel), other freshwater molluscs, caddis larva cases, and the bryozoan Lophopus crystallinus. Terrestrial material included flax seeds and capsule fragments, a small range of weeds and waste ground taxa, and a single fig seed. Identifiable plant remains were sparse but well preserved.

Invertebrates in the flot were assessment-recorded, but a rough semi-quantitative list was made. Outdoor forms predominated among the adult beetles and bugs (over half of the individuals as recorded), with aquatics numerous. The latter were complemented by large numbers of *Daphnia* ephippia and ostracods. There were a few terrestrial decomposers, but no distinctive

community was present. This was clearly a waterlain deposit with no evidence of dumps.

Three unidentifiable fragments of bone were present, one of which was burnt.

Context 1003 (river silt/sand)

Samples 34-5 (GBA), **32-3**, **36** (BS)

Samples 32-3, 36 (total 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 freshwater taxa were noted: Succinea putris, Bithynia tentaculata, Valvata sp. and planorbids. Fly puparia and fish bone and scales were also found.

A few invertebrates picked from the washover from Sample 36 during botanical recording were identified: the three beetles included two aquatics and a third species which was probably from waterside vegetation.

Not currently located (sample from unlabelled context from Column D, 3.98-3.81 m)

Context 9271

Although the position of the column from which this sample was taken is known, it was not possible to relate it archaeologically to the recorded contexts. A subsample was examined during the assessment before this lack of archaeological information was apparent, but when it emerged that the deposit seemed to contain some unusual material (see below), a further subsample was processed, despite the unclear provenance.

Sample 271 (GBA) (3 kg): Moist, black, crumbly, fine and woody herbaceous detritus with lenses (to 20 mm) of light-mid grey sand. A few twigs were noted.

There was a large residue of about 2200 cm³ consisted almost wholly of granular decayed bark (to 40 mm) in all fractions with abundant sclereids up to 2 mm, and with a trace (probably <1% by volume) of sand and gravel. The coarser fractions (>2 mm) consisted of almost nothing but bark and a trace of charcoal with only a few small fragments of wood. The presence of root fragments and earthworm egg capsules perhaps points to the presence of inwashed soil or of material from turves unless they signify that this deposit was colonised by plants at some stage and that a living soil developed. A potsherd (to 30 mm) from this sample was found to have a black organic (?charred) crust but was not investigated further.

It may be worth noting an observation made during the assessment of another subsample of Sample 271: it 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 again 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 corticolous (bark-growing) types but otherwise such remains were sparse (though well preserved) and of little interpretative value.

The invertebrates in the flot from the 3 kg subsample were rapid scan recorded. They appeared to be from intensive occupation, and in all probability were introduced in dumps of Anglo-Scandinavian date. Aquatics were not very abundant, so the material probably did not disperse, but rather entered the water as a mass or was dumped at the water's edge.

Recording of the 1 kg assessment subsample indicated the presence of moderately large numbers of invertebrate remains in the flot. A rough semi-quantitative record was made.

Components from water and from intensive human occupation (including two *Pulex irritans*) were present, together with a few plant feeders.

Watching Brief, Trench 1

?Anglo-Scandinavian

Context 38 (?dump into river)

Samples 10 and **17** (GBA) and **11-16**, **18** (BS)

Sample 17 (1 kg): Moist, dark brown, crumbly, very humic, sandy silt with occasional patches (<10 mm) 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 flot. The identifiable plant remains (which were dilute and often rather fragmentary) were rather mixed in their origins and no one group emerged as especially well represented.

The flot was very small and contained only a few traces of invertebrates, noted during assessment. Even so, *Trox scaber* was present.

Samples 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.

Context 40 (river deposit/dump)

Samples 19 (GBA) and 20 and 22 (BS)

Sample 19 (1 kg): Moist, mid to dark grey, crumbly (working just plastic), humic, slightly sandy silt. There were also patches of light greybrown 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 but 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 simply 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.

Invertebrates from the flot were roughly semiquantitatively listed during assessment. Aquatics were numerous, and there were traces of fauna from intensive occupation, including a single *Trox* scaber.

For the bone, a single herring vertebra was recorded. Twelve more fragments were unidentifiable, four of them being burnt.

Samples 20 and 22 (total 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 remains were present in the washover.

Context 41 (river deposit/dump)

Samples 24 and **27-8** (GBA) and **23** and **25-6** (BS)

Sample 27 (1 kg): Moist, dark grey-brown, very crumbly, very humic, sandy silt. Locally more brown and more grey. Charcoal, very decayed wood, and mammal and fish bone were all present.

Very decayed bark formed the major component of the rather small residue (along with some wood) and the flot appeared to consist largely of fine 'frass' from wood or bark (this, with hindsight, was probably an abundance of bark sclereids. The moderately frequent sclereids in the finer fractions of the residue were no doubt from bark. The rather few identifiable plant remains present included traces of charred flowers and uncharred flowers and shoot fragments 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).

Assessment showed that the minute flot contained very few invertebrates, but *Trox scaber* numbered among them.

Bone was represented by thirteen unidentifiable fragments, a few of which were burnt.

Samples 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.

Medieval

Context 16 (?river silt)

Sample 52 (GBA) (3 kg): 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 (these were actually probably largely bark).

There was an extremely large residue of about 1800 cm³ of granular bark which included a large fragment in the form of a strip approximately 150 x 30 mm, and abundant sclereids. There were also some wood fragments and sand, perhaps about 30% of the residue being mineral material. There were also fragments of horncore and a little rounded brick/tile (to 30 mm) in the coarsest fraction. The count of identifiable remains was quite low (23), mainly weeds of various kinds, with a few possible foodplants and a trace of clubmoss, *Diphasium complanatum*, probably indicative of reworking of Anglo-Scandinavian material, if this deposit is not in fact of this earlier date.

An assemblage of adult beetles and bugs of modest size was recovered (N = 123; S = 72). Although there were numerous Daphnia ephippia, aquatic insects were rare (single individuals of two common taxa). Much the most abundant beetle was Trox scaber (19 individuals), whose preservation was, like some of the other remains, very poor. The second most abundant beetle was Acritus nigricornis (9) which, although very common in archaeological occupation deposits, rarely occurs in such numbers. According to Kryzhanovskii and Reichardt (1976), A. nigricornis has sometimes been recorded in quantity under tan bark. It is also found in various kinds of decaying matter, and may have been attracted to skins, in the way postulated for T. scaber (see discussion). The same may be true of the maggot-predator ? Creophilus maxillosus. A further species which may have connections with tanning is the histerid Teretrius fabricii, perhaps imported with bark.

The remaining beetles were a mixed group, with small quantities of house fauna, various decomposers associated with moderately to very foul conditions (perhaps attracted, like the species discussed above), and some from heath or moor habitats, presumably imported. Fly puparia were conspicuously rare.

The assemblage from the 1 kg subsample examined during the assessment was 'assessment-recorded'; it was broadly similar to that from the 3 kg subsample.

Context 15 (?river silt)

Sample 49 (GBA) (1 kg): Moist, varicoloured sediment: light brown, to light yellow-brown, to light to mid grey. The texture also varied, from stiff (working plastic) clay, through thixotropic silty sand, to 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, whilst the flot contained some bark sclereids, rootlets and a few seeds of little interpretative value.

Assessment showed that invertebrates were rare and also of no real interpretative value.

Context 14 (?river silt)

Sample 48 (GBA) (5 kg): 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.

The very large residue of about 1600 cm³ was mainly sand and gravel (to 65 mm) with a very characteristic appearance of a river deposit, the washover consisting of about 700 cm³ of granular decayed bark (to 30 mm) with abundant sclereids, mostly < 1 mm, the plant material mostly being somewhat rounded and abraded—clearly waterworn. The tally of identifiable plant remains was modest (20), but amongst them there were abundance scores of '2' for Atriplex, Chenopodium album, Sambucus nigra and Urtica dioica, all probably from weed and scrub vegetation nearby or at some distance upstream of the site. There may have been a small component derived from burnt turves, given the presence of traces of charred cross-leaved heath leaves, uncharred heather shoot fragments, and charred and uncharred ?heather root/basal twig fragments. One small potsherd (maximum dimension 20 mm) was found; it had a patch of blue pigment on it.

The beetle and bug remains were recorded in detail: numbers were fairly small (N = 34 S = 21), but included 10 *Trox scaber*. Preservation was generally poor, especially of the *Trox*, and many remains showed a colour change towards 'pale'; the fossils broke easily on handling. The remaining fauna was rather mixed ecologically, with hints of water from two beetles and two caddis cases.

The 1 kg subsample examined during the assessment revealed small numbers of invertebrates, including 'several' *Trox scaber*.

?Medieval

Context 6 (sample from animal (?horse) carcase) [N.B. appears in table 1 of Carrott *et al.* 1997b as Context 4, Sample 6]

Sample 4 (SPOT) (0.05 kg): Dark grey humic sandy silt with patches of fresh-looking yellowish herbaceous plant detritus.

A very small sub sample was 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 thinwalled types. There was no clear indication from the identifiable remains for the nature and origin of the plant remains, which were a mixture of weeds and waste ground plants, some grassland taxa, and a single fig seed.

Early Modern

Context 19 (?river silt)

Samples 45 and 46 (GBA)

Sample 45 (2 kg): 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 the material 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, in 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 paths and hedges, and in other unshaded and somewhat disturbed habitats, especially weld and white horehound, but also hemlock, burdock and

mallow (Malva). Also present were a few remains likely to have come from heathland habitats: heather, cross-leaved heath and perhaps the moss Leucobryum glaucum (although it grows in woodland as well as on heaths and bogs).

The assessment record of the flot showed that invertebrates, including beetles, were abundant, with a substantial aquatic component and little evidence of human occupation. An exception was a single *Oryzaep hilus surina mensis*, the only grain beetle from any of the deposits of whate ver date at the site. The overall implications were as for the subsample of Sample 41 (Context 18), described below.

There were some freshwater and waterside snails including *Bithynia tentaculata*, a single *Succinea putris*, and a few fragments of planorbids.

Four fish bones were recovered, but none could be identified to species.

Context 18 (?river silt)

Samples 41-3 (GBA)

Sample 41 (2 kg, plus a further 1 kg subsample for molluscs)

Moist, mid to dark brown, brittle (working plastic), humic clay silt. Freshwater molluscs were present.

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 (Apium nodiflorum), yellow water-lily, fine-leaved water-dropwort (Oenanthe aquatica), celery-leaved crowfoot (Ranunculus sceleratus) and great yellow-cress (Rorippa amphibia). Other taxa must have originated in vegetation on land near the river; they included seeds and capsule fragments of flax.

Invertebrates from the very large flot were recorded during assessment: a rough semiquantitative list was made. Aquatics dominated (there were, for example, 'many' Ochthebius sp. and Daphnia ephippia), and some other taxa would have lived at the water's edge. Outdoor forms were dominant, and there was only a limited component suggesting human occupation. Most of the decomposers may have lived in natural waterside litter or in dung in fields adjacent to the river upstream. Unless all the aquatics were carried downstream (not impossible), it appears that the river was by this stage reasonably clean, without dumping.

The very small assemblage of freshwater and waterside molluscs included *Succinea* sp. and several opercula of *Bithynia*.

Context 20 (?river silt)

Samples 2, 37-40 (GBA)

Sample 38 (GBA) (2 kg): 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.

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.

Only recorded during assessment, the rather small group of invertebrates included aquatics and decomposers which may have included some from human occupation: they offered no evidence of dumping, however.

Context 10 (dump behind revetment)

Samples 6-7 (BS)

Samples 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.

Trench 2, Peasholme Green

Roman: 2nd/early 3rd century

Context 3082 (dump deposit)

Samples 171 (GBA) and **172-6** (BS)

Samples 172-6 (total 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 more closely.

Context 3100 (dump deposit)

Samples 177 (GBA) and **178-81** (BS)

Samples 178-81 (total 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.

Context 3178 (dump with charcoal and bone)

Samples 185 (GBA) and 186-8 (BS)

Sample 185 (2 kg): Just moist, light to mid greybrown, crumbly, locally plastic (working plastic), slightly sandy, silty clay. Internally light to mid 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. At least one uncharred duckweed thallus was recorded, along with water-plantain (*Alisma*) 'embryos' (cf. Sample 160 from Context 3069, below).

Bone was represented by single fragments of bird and amphibian.

Samples 186-8 (total 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.

Roman: late 2nd-early 3rd century

Context 3078 (pit lining in cut 3081)

Samples 153 (GBA) and 154-5 (BS)

Samples 154-5 (total 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.

Context 3077 (basal pit fill in cut 3081)

Samples 156 (GBA) and **157-9** (BS)

Sample 156 (1 kg): 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', sensu Dainton (1992), 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 Prunus and mineralised seeds of apple. The moderately large numbers of mineralised fragments of rat-tailed maggots (Eristalis tenax) also point to the foul nature of the pit fill during its formation. The only other invertebrates were 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 vertebrae had a 'squashed' appearance, characteristic damage consistent with passage through the gut.

Samples 157-9 (total 27.5 kg): The residues mostly consisted of faecal concretions with some stone, brick/tile, fishbone, and amphibian bone present. Much of the bone was very fragmented, with some specimens showing acid etching, consistent with passage through the gut.

Context 3007 (pit fill in cut 3081)

Samples 168 (GBA) and **169-70** (BS)

Samples 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.

Context 3006 (pit fill in cut 3081)

Samples 148 (GBA) and 149-52 (BS)

Samples 149-152 (total 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/basal twig charcoal and elder seeds. Traces of bone (mostly burnt, including part of the shaft of a long bone of chicken), charred ?heather basal twigs/roots, and ?leather were all noted from the residues.

Context 3005 (pit fill (cut 3081))

Samples 142 (GBA) and **143-6** (BS)

Samples 143-6 (total 39 kg): The small residues were mostly brick/tile (to 70 mm) with a little bone, charcoal, and pottery.

Medieval

Context 3069 (pit fill in [?barrel-lined] cut 3072)

Samples 160 (GBA) and **161-4** (BS)

Sample 160 (2 kg): Moist, light to mid greybrown, sticky (working plastic and sticky), slightly sandy, slightly silty clay, with inclusions of varicoloured (buff to mid brown to fawn) material and patches of very plastic, light brown (mottled grey) clay. Brick/tile common, charco al 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, and all these remains may have arrived with wet mud or water from the nearby river). There were no invertebrate remains.

Sample 161-4 (total 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.

Context 3067 (pit fill in [?barrel-lined] cut 3072)

Samples 165 (GBA) and 166-7 (BS)

Samples 166-7 (total 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 sherds), coal and cinder; the tiny washovers appeared to be of charcoal.

Context 3169 (pit fill in cut 3085)

Samples 184 (GBA) and 183 (BS)

Sample 184 (2 kg): 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 macrofossil taxon: elderberry seeds.

The only invertebrate represented was a single earthworm egg capsule.

Sample 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.

Discussion

Dating

The 20 radiocarbon dates obtained for various samples from this site (Table 3) are not wholly consistent, either with each other or with the archaeological phasing. Some of the bone samples, for example, were clearly residual (e.g. those from Contexts 2004 and 2020), while others (such as those from Contexts 2018 and 2189) gave dates later than expected and may therefore have been intrusive. This is understandable in the case of soft river deposits. In view of this, it was felt that detailed analysis of the bone assemblages from these excavations was unjustified.

The results of the programme of radiocarbon dating suggest that the bulk of the macrofossil remains analysed from what were defined archaeologically as 'post-Roman/pre-Anglo-Scandinavian' to 'medieval' periods were in fact of broadly Anglo-Scandinavian date. This dating is very much in accord with the biological evidence. On the one hand, there was an almost complete lack of grain pests, which were very rare or absent in the Anglo-Scandinavian period in York but soon became common after the Norman Conquest. On the other, there were records for dyeplants, particularly the clubmoss Diphasium complanatum, a very characteristic Anglo-Scandinavian 'marker fossil'. The rarity of Tipnus unicolor, normally the dominant spider beetle in

medieval assemblages, is also explained if these 'medieval' deposits are in fact of earlier date.

General nature of the biota

Plant and invertebrate macrofossils preserved by anoxic waterlogging were abundant in some samples from Trench 1, and present in most. Some samples also yielded modest amounts of charred plant material, including saw-sedge (Cladium) and heather (Calluna) and sometimes material interpreted as burnt and unburnt peat or mor humus (see below). Preservation of plant remains and insects was often excellent, but in some samples was much poorer, the remains of Trox scaber (among the insects) often being conspicuously more highly decayed. The presence in many samples of sclereids from bark indicates how far this material had sometimes decayed, too. Macro fossils were generally sparse in the deposits of Roman date from Trench 2. Bone was widely present in both trenches but usually in low concentrations. Snail and freshwater bivalve shells were sometimes noted.

Although there were rather few biological remains from the Roman deposits, one context from Trench 2 (3077, basal fill of a pit) offered evidence for very decayed human fae cal material. Some deposits from Trench 1 assigned to the late Roman period seem to be of Anglo-Scandinavian date to judge from the radiocarbon date and the presence of fragments of club moss (see below).

The Anglo-Scandinavian deposits were notable for having in many cases a high proportion of tree bark fragments, and in several cases numerous *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 (probably by dumping) rather than in water. Peatland taxa were often quite frequent; they perhaps originated largely with turves, though in some cases the records of the upper parts of heather and some other peatland plants may indicate the use of brushwood.

The assemblages of plants and invertebrates from deposits dated archaeologically as medieval

(though probably largely of Anglo-Scandinavian date) 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 a few cases some charred material which was probably peat or mor humus, presumably from turves, was noted). Remains of seeds and capsule fragments of flax were frequently recorded and one group of samples from related waterlain contexts yielded stem fragments of this plant, probably indicating retting in the river.

In the deposits dated to the Early Modern (19th century) period, aquatic organisms were much more abundant and terrestrial plants and invertebrates mostly sparse; these deposits therefore represent river silts, as suggested by the excavator. This phase of deposition presumably reflects the raised river level of the Foss brought about by the installation of a lock downstream, near the confluence with the Ouse.

Evidence for tanning

Numerous deposits at this site produced concentrations of very decayed bark with the characteristic sclereids (stone cell clusters) which seem to be present in the bark of many trees. Accompanying these were unusually large numbers of the unmistakable scarabaeid beetle Trox scaber (it was present in 30 of the samples from this site, at a mean frequency of 3.6 per sample when present, and at concentrations of 10 or more per kilogramme of sediment in some cases). The records of bark, sclereids and Trox (Table 11) were strongly positively correlated (Table 12), in contrast with records from the largest data-set available for a single site, that for 16-22 Coppergate, York. There, 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 being 1.2. At Coppergate, there was no significant correlation between records of bark and *Trox*, though it should be borne in mind that records for bark from those samples are not so complete as for the Layerthorpe material (and sclereids were not recognised when the Coppergate material was examined).

Trox scaber is a scavenger generally found in dry animal remains or in wood mould, but perhaps most typically associated with birds' nests (Leatherdale 1955; Britton 1956, 6; Palm 1959; Jessop 1986). It is sometimes found in habitats created by human activity, and occurs very frequently in archaeological deposits, Hall et al. (1983, 183) suggesting that it exploited a wide range of habitats. On the basis of records from a very large number of occupation sites, we can say that T. scaber usually occurs in small numbers, typically only one per kilogramme of sediment, as at Coppergate, so that when it is more abundant it is reasonable to look for some characteristic cause. We suggest that at the Layerthorpe Bridge site it was attracted either to skins awaiting tanning or to the tanning pits themselves, and that the archaeological deposits contained material discarded from tanning carried out in the immediate vicinity.

Most of the remains of *Trox scaber* from Layerthorpe Bridge were in a poor preservational condition, and many were so decayed as to break up when manipulated with a fine paintbrush. In some cases the remains could be seen to have decayed substantially, having a characteristic surface texture and local patches of erosion. It is suggested that these remains had passed through the tan bath, and that the decay was the result of substances added to produce the active liquor, ash or lime perhaps being likely candidates.

It may be no coincidence that Fellows-Jensen (in prep.) has established that 'the street name Barker Hill (now St Maurice's Road [which runs southeast from Monkgate, becoming Jewbury before Layerthorpe Bridge]) is first recorded in its Scandinavian form, Barkergate, c. AD1230. It was originally a compound of the Scandinavian occupational term barkari or tanner (from the verb, barka 'to tan with an infusion of bark', Middle English barkere), and the Scandinavian word gata, 'town street'; 'barker' later became the

name for workers who secured tan bark from woodland as suppliers of a vital raw material for the tanning industry.

As an aside, it may be mentioned that a very large proportion of the remains of *Trox scaber* were recovered during botanical analysis from the residues from paraffin flotation, perhaps having failed to float because hydrophobic layers in the cuticle (to which paraffin normally attaches) had been modified or destroyed during the unusual decay experienced in the tan pit.

Evidence for fibre processing

Some Anglo-Scandinavian/medieval deposits at this site yielded concentrations of flax stem fragments together with seeds and capsule fragments of this plant and also remains of pods of a weed formerly characteristic of flax fields, goldof-pleasure. Bearing in mind the riverine location, the nature of the sedimentary matrix (well-sorted sand) and the size of the stem fragments (up to a few centimetres in length), there seems little doubt that such material represents debris from retting, in which bundles of the mature crop were steeped in the river to release the fibres from the stems. As such, this is the first record for material of this kind from York, though flax seeds and capsule fragments are often frequent in archaeological deposits of Roman, Anglo-Scandinavian and medieval date from the city (see, for example, Kenward and Hall 1995). Examples of scutching waste (debris from breaking the stems during fibre extraction) are recorded from 16-22 Coppergate (see Walton 1989; Walton Rogers 1997) and may have been present in Context 2160.

Pollution

Both tanning and retting are processes which cause pollution and are especially malodorous. Both involve the decay of plant material and, in the case of tanning, also of flesh—at least in the earlier stages of hide preparation. The Layerthorpe Bridge area might well have been far enough away from centres of (politically powerful) population to be an acceptable location for such vile-smelling

activities. Tanneries in this part of the city would certainly have been downwind of most of York's medieval inhabitants on most days of the year, and though the effluent they caused would have polluted a river (the Foss), the large area of marsh into which it subsequently flowed may have acted as a filter. Although a substantial number of the aquatic invertebrates suggested at least moderately clean water, they are likely to have been washed downstream from less polluted reaches and they do not in themselves argue against heavy pollution at Layerthorpe Bridge.

Climate

This site produced four definite and one probable record of the nettle bug *Heterogaster urticae* from Anglo-Scandinavian and medieval deposits. It has been argued elsewhere that this species, which is abundant in Anglo-Scandinavian deposits in York, indicates at least summer temperatures significantly above those of the present day (summarised by Hall and Kenward 2000).

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Table 1. Layerthorpe Bridge, York: contexts from which GBA subsamples and SPOT samples were examined for plant and invertebrate macrofossils.

Key: C—Context; S—Sample number; ST—sample type; Sub.—subsample; Wt—Weight (kg); RMI—recording method for insects (A: assessment; D: detail; R: rapid scan; RS: semi-quantitative rapid scan; S: scan, all sensu Kenward 1992). For the sample marked 'BS', a subsample of unprocessed sediment was examined, the original material not having been sieved as a BS sample.

C	Date	Context type	S	ST	Sub.	Wt	RMI
14	Medie val	?river silt	48	GBA	/T	2	A
					/T1	5	D
15	Medie val	?river silt	49	GBA	/T	1	A
16	Medie val	?river silt	52	GBA	/T	1	A
					/T1	3	D
18	Early Modern	?river silt	41	GBA	/T	2	A
19	Early Modern	?river silt	45	GBA	/T	2	A
20	Early Modern	?river silt	38	GBA	/T	2	A
38	?Anglo-Scandinavian	?dump into river	17	GBA	/T	1	A
40	?Anglo-Scandinavian	river deposit/dump	19	GBA	/T	1	A
41	?Anglo-Scandinavian	river deposit/dump	27	GBA	/T	1	A
1012	Medie val	?river deposit	56	GBA	/T1	3	D
1014	Medie val	?river deposit	59	GBA	/T1	3	R
1024	Early Modern (C19th)	river silt/sand	73	GBA	/T	1	A
1027	Medie val	?river deposit	75	GBA	/T	2	A
1029	Anglo-Scandinavian	waterlain silt	79	GBA	/T	2	A
	(4)		80	GBA	/T1	3	R
1031	Anglo-Scan dinavian (4)	waterlain silt	84	GBA	/T	2	A
1033	Anglo-Scan dinavian (4)	silt laid down within channel 2033	68	GBA	/T	2	A
1038	Anglo-Scan dinavian (3)	reddish grey clay filling cut into 2131	89	GBA	/T1	3	R
1039	Anglo-Scan dinavian (3)	organic deposit, ?dump [overlying later wattle	90	GBA	/T	1	A
		revetments]			/T1	3	D

C	Date	Context type	s	ST	Sub.	Wt	RMI
1047	Anglo-Scan dinavian (3)	clay/clay silt E of wattle forming N-ward extension of bank	95	GBA	/T	3	A
1052	Anglo-Scandinavian (3)	clay/clay silt E of wattle forming N-ward extension of bank	117	GBA	/T	1	A
2003	Medie val	sandy river deposit	147	SPOT	/T	1	S
2004	Medie val	sandy river deposit	132	SPOT	/T	1	S
2005	Medie val	sandy river deposit	136	SPOT	/T	1	S
			137	SPOT	/T	1	S
			138	GBA	/T1	13	RS
2006	Medie val	sandy river deposit	214	GBA	/T1	5	A
2007	Medie val	dump of stony sandy silt into river (?consolidation of bank)	213	GBA	/T1	3	A
2022	Anglo-Scan dinavian (4)	silt laid down within channel 2033	205	GBA	/T	1	S
2023	Anglo-Scan dinavian (4)	waterlain silt	206	GBA	/T	1	A
2030	Anglo-Scan dinavian	reddish grey clay filling cut	286	GBA	/T	1	A
	(3)	into 2131			/T1	3	A
2065	Anglo-Scandinavian (3)	river deposit	258	GBA	/T1	3	D
2131	Anglo-Scan dinavian (2)	peaty material, ?river deposit - substantial layer covering whole of timber	280	GBA	/T	1	A
		structure and area of earlier channel and area to E	281	BS*	/T1	3	RS
2160	Anglo-Scan dinavian	first waterlain deposit, after	287	GBA	/T	1	A
	(1)	construction of wattle revetment: silt in channel	287	GBA	/T1	3	D
		west of bank	291	GBA	/T1	3	S
2178	Anglo-Scandinavian	organic fill of timber-lined	292	GBA	/T	1	A
	(1)	?sluice/overflow	292	GBA	/T1	3	D

C	Date	Context type	s	ST	Sub.	Wt	RMI
2189	Post-Roman/ Pre-Anglo- Scandinavian	?waterlain deposit, sealed by earliest wattle structure	296	GBA	/T	2	A
2191	Post-Roman/ Pre-Anglo- Scandinavian	?dumping into river	311	GBA	/T	1	A
3067	Medie val	pit fill ([?barrel-lined] cut 3072)	3067		/T	1	S
3069	Medie val	pit fill ([?barrel-lined] cut 3072)	160	GBA	/T	2	A
3077	Roman/ Romano-British (LC2/EC3)	basal pit fill (cut 3081)	156	GBA	/T	1	A
3169	Medie val	pit fill (cut 3085)	184	?GBA	/T	2	A
3178	Roman/ Romano-British (LC2/EC3)	dump with charcoal and bone	185	GBA	/T	1	S
9271	[not dated	bark-rich organic deposit	271	GBA	/T	1	A
	arch aeol ogic ally]				/T1	3	RS

Table 2. Layerthorpe Bridge, York: numbers of contexts for which bone was recorded (recd.) or scanned, by trench and date.

Area/trench	Tren (watchir	ich 1 ig brief)	Trench 1	l, Area 1	Trench	l, Area 2	Trer	nch 2
Date	No. recd	No.	No. recd	No. scanned	No. recd	No. scanned	No. recd	No. scanned
?		1						
?Roman						2	2	
Roman					4		18	54
?Anglo- Scandinavian	1				2			
Anglo- Scandin avian					5	2		
?medieval			2		3	1	4	10
medieval		1	10		18	6		8
?post-med ieval							1	1
post-med ieval								1
early modern			1					
modern	1							
Total	2	2	13	0	32	11	25	74

Table 3. Layerthorpe Bridge, York: details of radiocarbon dates for samples of bark, Trox beetles, and bone. Samples are listed in context order. Key: CN—context number; DM—dating method (A—dating by AMS; S—dating by standard radiocarbon assay); LN—laboratory number.

CN	Archaeo- logical phase	Material dated	DM	LN	Conventional radiocarbon age	Calibrated date (2 Sigma, 95% probability)
1031	Anglo- Scandinavian	bark	A	Beta- 129568	970±50 BP	cal. AD 980 to 1175
	Ph 4	bone	S	Beta- 129569	1170±60 BP	cal. AD 700 to 1000
1033	Anglo- Scandinavian Ph 4	bone	S	Beta- 129570	960±70 BP	cal AD 970 to 1225
1052	Anglo- Scandinavian	bark	S	Beta- 129572	1170±50 BP	cal. AD 720 to 745 and AD 760 to 990
	Ph 3	Trox	A	Beta- 129571	1000±50 BP	cal. AD 980 to 1175
2003	medieval	flax stems	A	Beta- 129573	950±50 BP	cal. AD 900 to 1050 and 1095 to 1140
		bone	S	Beta- 129574	1030±60 BP	cal. AD 890 to 1155
2004	medieval	bone	S	Beta- 129575	1220±60 BP	cal. AD 670 to 970
2005	medieval	flax stems	A	Beta- 129576	920±60 BP	cal. AD 900 to 1170
2013	Anglo- Scandinavian Ph 4	bone	S	Beta- 129577	1000±70 BP	cal. AD 895 to 1195
2018	Anglo- Scandinavian Ph 4	bone	S	Beta- 129578	760±70 BP	cal. AD 1160 to 1310 and 1360 to 1385
2020	Anglo- Scandinavian Ph 4	bone	A	Beta- 129579	1250±40 BP	cal. AD 700 to 900
2037	Anglo- Scandinavian Ph 3	bone	S	Beta- 129580	780±60 BP	cal. AD 1160 to 1300

CN	Archaeo- logical phase	Material dated	DM	LN	Conventional radiocarbon age	Calibrated date (2 Sigma, 95% probability)
2118	Anglo- Scandinavian Ph 3	bone	S	Beta- 129581	960±70 BP	cal. AD 970 to 1225
2131	Anglo- Scandinavian	bark	S	Beta- 129582	870±60 BP	cal. AD 1025 to 1275
	Ph 2	bone	S	Beta- 129583	1060±70 BP	cal. AD 815 to 840 and 855 to 1055 and 1085 to 1150
2139	Anglo- Scandinavian Ph 1	bone	S	Beta- 129584	950±60 BP	cal. AD 990 to 1220
2189	Post-Roman/ Pre-Anglo-	bark	S	Beta- 129585	1020±60 BP	cal. AD 895 to 1160
	Scandinavian	bone	S	Beta- 129586	960±60 BP	cal. AD 980 to 1210
2191	Post-Roman/ Pre-Anglo- Scandinavian	bone	S	Beta- 129587	1260±60 BP	cal. AD 655 to 895

Table 4. Layerthorpe Bridge, York: complete list of plant and animal remains recovered from deposits of Roman to 19th century date.

For records by period, consult the individual sample lists (Tables5 and 10). Plant material was uncharred unless specifically stated otherwise; tentative records are not included if secure ones were also made. Order and nomenclature follow Tutin et al. (1964-90) for vascular plants, Smith (1976) for mosses, and Kloet and Hincks (1964-77) for insects. Plant material not specifically noted as being preserved by charring or mineral replacement can be taken to be uncharred and unmineralised (i.e. 'waterlogged', but sometimes denoted simply as 'uncharred'). Where both secure and tentative identifications for a given taxon were recorded, onlythe former are listed here. For invertebrates, * = not used in calculating assemblage statistics (Table 8); ecode—ecological code used in generating main statistics (Table 8); sp(p).—species not previously listed; sp(p). indet.—may be a species already listed

N.B. Some of the high-level identifications for insects originate from the assessment records, no attempt having been made to make full identifications of all remains at that stage, and others are the result of the presence of highly fragmented remains. Some dubious records from assessment have been omitted from this list.

Musci (parts were uncharred leaf/leaves and/or shoot fragment(s) throughout)

Sphagnum papillosum Lindb.

 $Sphagnum\ sp(p).$

P. commune Hedw.

Polytrichum sp(p).

Dicranum scoparium Hedw.

Dicranum sp(p).

Campylopus sp(p).

Leucobryum glaucum (Hedw.) Ån gstr.

cf. Pohlia nutans (Hedw.) Lindb.

Bryum sp(p).

Plagiomnium sp(p).

Aulacomnium palustre (Hedw.) Schwaegr.

Ulota sp(p).

Leucodon sciuroides (Hedw.) Schwaegr.

Antitrichia curtipendula (Hedw.) Brid.

Neckera crispa Hedw.

N. complan ata (Hedw.) Hüb.

Thuidium 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 cf. giganteum (Schimp.) Kindb.

C. cuspidatum (Hedw.) Kindb.

Isothecium myurum Brid.

I. myosuroides Brid.

Homalothecium sericeum (Hedw.) Brid/H. lutescens (Hedw.) Robins.

Pseudoscleropodium purum (Hedw.) Fleisch.

Eurhynchium sp(p).

Eurhynchium striatum (Hedw.) Schimp.

Eurhynchium praelongum (Hedw.) Br. Eur.

Hypnum cf. cupressiforme Hedw.

Rhytidiadelphus sp(p).

Pleurozium schreberi (Brid.) Mitt.

Hylocomium cf. brevirostre (Brid.) Br. Eur.

H. splendens (Hedw.) Br. Eur.

Hylocomium sp(p).

Pteridophy ta

cf. Diphasium sp(p). (?clubmoss: shoot fragment(s))

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

Pteridium aquilinum (L.) Kuhn (bracken: pinnule fragment(s))

cf. P. aquilinum (stalk fragment(s))

Coniferae (conifer: charcoal fragment(s))

Angiospermae

Salix sp(p). (willows: bud(s), fruit(s), twig epidermis fragment(s), and twig fragment(s))

cf. Salix sp(p). (leafy shoot fragment(s)

Salix/Populus sp(p). (willow/poplar/aspen: charcoal fragment(s))

Populus sp(p). (poplar/aspen: bud(s) and/or bud-scale(s))

Myrica gale L. (bog myrtle/sweet gale: leaf fragment(s))

Betula sp(p). (birch: bud(s) and/or bud-scale(s), female catkin scale(s), fruit(s), and male catkin fragment(s))

Alnus glutinosa (L.) Gaertner (alder. bud(s) and/or bud-scale(s), and twig fragment(s))

Corylus avellana L. (hazel: charred and uncharred wattle/wicker element(s), charred and uncharred nut(s) and/or nutshell fragment(s)

Quercus sp(p). (oak: bud(s) and/or bud-scale(s), charcoal fragment(s), uncharred wood chip(s) and wood fragment(s))

cf. Quercus sp(p). (acorn fragment(s))

Ficus carica L. (fig: seed(s))

Humulus lupulus L. (hop: achen e(s))

Cannabis sativa L. (hemp: achene(s))

cf. C. sativa L. (?hemp: min eralised achen e(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: charred, mineralised and uncharred fruit(s) and uncharred fruit fragment(s))

Rumex ace to sella agg. (sheep's sorrel: fruit(s))

R. maritimus L. (golden dock: fruit(s))

Rumex sp(p). (docks: charred and uncharred fruit(s) and perianth segment(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: charred and uncharred seed(s))

Chenopodiaceae (goosefoot family: seed(s))

Stellaria media (L.) Vill. (chickweed: seed(s))

Cerastium sp(p). (mous e-ear chickweeds: seed(s))

Scleranthus annuus L. (annual knaw el: fruit(s))

Spergula arvensis L. (corn spurrey: seed(s))

Agrostemmagithago L. (corncockle:uncharred seed(s), charred and uncharred seed fragment(s) and mineralised casts/moulds of seed fragment(s))

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

Silene sp(p). (campions, etc.: seed(s))

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

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

Ceratophyllum demersum L. (rigid hornw ort: fruit(s))
Ceratophyllum sp(p). (hornw orts: fruit(s))

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

R. sardous Crantz (hairy but tercup achene(s))

R. cf. sardous Crantz (charred achene(s))

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

R. flammula L. (lesser spearwort: achene(s))

R. Subgenus Batrachium (water crowfoots: achene(s))

Thalictrum flavum L. (common meadow rue: achene(s))

Fumaria sp(p). (fumitories: seed(s))

Cruciferae (cabbage family: pedicel(s))

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

Isatis tinctoria L. (woad: pod fragment(s))

cf. Rorippa sp(p). (?yellow-cresses: seed(s))

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

R. palustris (L.) Besser (marsh yellow-cress: seed(s))

Camelina sativa (L.) Crantz (gold-of-pleasure: pod(s))

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

Thlaspi arvense L. (field penny-cress: seed(s))

Coronopus squamatus (Forskål) Ascherson (swine-cress: charred and uncharred fruit(s) and uncharred seeds)

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

Brassica rapa L. (turnip: seeds and seed fragment(s))

Brassica sp./Sinapis arvensis (brassica/charlock: charred seed(s), mineralised cotyledon(s), uncharred seed(s) and seed fragment(s))

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

Reseda luteo la L. (weld/dyer's rocket: seed(s))

Filipendula ulmaria (L.) Maxim. (meadowsweet: achene(s))

Rubus idaeus L. (raspberry: seed(s))

R. fruticosus agg. (blackberry/bramble: seed(s))

R. caesius L. (dewberry: seed(s))

Rubus sp(p). blackberries, etc. seed(s)

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

Rosa sp(p). (roses: achene(s))

Agrimonia eupatoria L. (agrimony: charred and uncharred fruit(s))

Potentilla palustris (L.) Scop. (marsh cinquefoil: achene(s))

P. anserina L. (silverweed: chared and uncharred achene(s))

P. cf. erecta (L.) Räuschel (?tormentil: charred and uncharred achene(s))

P. cf. reptans L. (?creeping cinquefoil:mchared and uncharred achene(s))

Potentilla sp(p). (cinquefoils, etc.: achene(s))

Malus sylvestris Miller (crab apple: endocarp, mineralised seed(s)/embryo(s) and unmineralised, uncharred seed(s))

Crataegus sp(p). (hawthorns: thorn(s) and twig fragment(s) with thorn(s))

Crataegus sp./Prunus spinosa (hawthorn/sloe: thorn(s))
Prunus spinosa L. (sloe: charred and uncharred

fruitstone(s) and uncharred thorn(s))

- P. domestica ssp. institita (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)

cf. Prunus sp(p). (mineralised seed(s)) Leguminosae pea family flower(s) and/or petal(s)

Leguminosae (pea family: pod(s) and/or pod fragment(s), tracheid bar(s) underneath hilum)

cf. Genista tinctoria L. (?dyer's greenweed: stem fragment(s))

Vicia sp(p). (vetches, etc.: charred seed(s))

Linum usitatissimum L. (cultivated flax: capsule fragment(s), capsule septum fragment(s), seed fragment(s), seed(s) and stem fragment(s) with epidermis)

cf. L. usitatissimum L. (scutching waste (stem debris), stem fragment(s))

cf. Mercurialis perennis L. (?dog's mercury: seed fragment(s))

Euphorbia helioscopia L. (sun spurge: seed(s))

E. lathyris L. (caper spurge: seed(s))

cf. Acer campestre L. (?field maple: fruit(s) (samara(e)))

Ilex aquifolium L. (holly leaf: epidermis fragment(s)
 and prickle(s))

Malva cf. sylvestris L. (?common mallo w: nutlet(s))

Malva sp(p). (mallows, etc.: nutlet(s))

Viola sp(p). (violets/pansies, etc.: capsule segment(s),
 seed(s))

Bryonia cretica ssp. dioica (Jacq.) Tutin (white bryon y: seed(s))

Myriophyllum verticillatum L./M. spicatum L. (whorled/spiked water-milfoil: nutlet(s))

M. alterniflorum DC. in Lam. & DC. (alternate-flowered water-milfoil: nutlet(s))

 $\begin{tabular}{lll} {\it Hydrocotyle} & {\it vulgaris} & L. & (marsh & pennywort: \\ & mericarp(s)) \end{tabular}$

Anthriscus sylvestris (L.) Hoffm. (cow parsley: mericarp(s))

A. caucalis Bieb. (bur chervil: mericarp(s))

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

cf. Aegopodium podagraria L. (?ground elder mericarp(s))

Oenanthe lachenalii C. G. Gmelin (parsley water-dropw ort: mericarp(s))

Oe. fluviatilis (Bab.) Coleman (water-dropwort: mericarp(s))

Oe. aquatica (L.) Poiret in Lam. (fine-leaved water-dropwort: mericarp(s))

Aethusa cynapium L. (fool's parsley: mericarp(s))
Anethum graveolens L. (dill: mericarp(s))

Conium maculatum L. (hemlock: mericarp(s) and fragment(s))

Bupleurum rotundifolium L. (hare's-ear/thorow-wax: mericarp(s))

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

Pastinaca sativa L. (wild parsnip: mericarp(s))

Heracleum sphondylium L. (hogweed: mericarp(s))

Torilis japonica (Houtt.) DC. (upright hed ge-parsley: mericarp(s))

Daucus caro ta 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), charred and uncharred capsule(s), charred and uncharred flower(s), charred and uncharred shoot fragment(s), charred and uncharred shoot tip(s), leaf/leaves, charred and uncharred root and/or twig fragment(s), uncharred seed(s), charred twig fragment(s))

Vaccinium sp(p). (bilberries: seed(s))

Primula cf. veris L. (?cowslip: seed(s))

Anagallis arvensis L. (scarlet pimpernel:) seed(s)

Fraxinus sp(p). (ash: charcoal fragment(s))

Menyanthes trifoliata L. (bogbean charred and uncharred seed(s))

Rubia tinctorum L. (dyer's madder: root fragment(s))

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

Marrubium vulgare L. (white horehound: nutlet(s))

Galeopsis Subgenus Galeopsis (hemp-nettles: charred and uncharred 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))

Mentha sp(p). (mints: nutlet(s))

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

Hyoscyamus niger L. (henbane: charred and uncharred seed(s))

Solanum nigrum L. (black nightshade: seed(s))

Solanum sp(p). (nightshades, etc.: seed(s))

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

Odontites verna (Bellardi) Dumort. (red bartsia: seed(s))

Pedicularis palustris L. (marsh lousewort: seed(s))

Plantago major L. (greater plantain: seed(s))

Sambucus cf. ebulus L. (?danewort: seed(s))

S. nigra L. (elder: charred and uncharred seed(s) and uncharred seed fragment(s))

Valerianella dentata (L.) Pollich (narrow-fruited cornsalad: fruit(s))

Dipsacus sativus (L.) Honckeny/D. fullonum L. (fuller's/wild teasel: fruit(s) and fruit fragment(s))

Knautia arvensis (L.) Coulter (field scabious: fruit(s) and fruit fragment(s))

Eupatorium cannabinum L. (hemp agrimony: achene(s))

Bidens sp(p). (bur-marigolds: achene(s))

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

Achillea millefolium L. (yarrow: achene(s))

Chrysanthemum segetum L. (corn marigold: chared and uncharred achene(s) and uncharred achene fragment(s))

Senecio sp(p). (ground sels/ragworts, etc.: achen e(s))

Arctium sp(p). (burdocks: achene(s) and involucral bract(s)/hook(s))

Carduus/Cirsium sp(p). (thistles: achen e(s))

Onopordum acanthium L. (scotch thistle: achene(s))

cf. Silybum marianum (L.) Gaertner (?milk-thistle: achene(s))

Centaurea cf. nigra L. (?lesser knapweed: involucre(s)/fragment(s))

Centaurea cf. nigra L. (?lesser knapweed: involucral bract(s), achene(s), achene fragment(s) and involucre(s)/fragment(s))

Hypocho eris sp(p). (cat's ears: achene(s))

Leontodon sp(p). (hawkbits: ache ne(s))

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

S. oleraceus L. (sow-thistle: achene(s))

S. palustris/arvensis (marsh/corn sow-thistle: achene(s))

Sonchus sp(p). (sow-thistle s: achene(s))

Lapsana communis L. (nipplew ort: achene(s))

Compositae (daisy family: involucre(s)/fragment(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 natans L. (broad-leaved pondweed pyrene(s)

P. cf. perfoliatus L. (?perfoliate pondweed: pyrene(s))

P. crispus L. (curled pondweed: pyrene(s))

P. cf. filiformis Pers. (?slender-leaved pondweed: pyrene(s))

P. pectinatus L. (fennel-leaved pondweed: pyrene(s))

Potamogeton sp(p). (pondweeds: pyrene(s) and stem/leaf fragment(s))

Zannichellia palustris L. (horned pondweed: fruit(s))

cf. Allium sativum L. (?garlic: charred tunic fragment(s))

Allium cf. sativum L. (?garlic: charred clove(s))

Juncus inflexus L./J. effusus L./J. conglomeratus L.(hard/soft/compact rush: seed(s))

J. squarrosus L. (heath rush: seed(s))

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

J. bufonius L. (toad rush: seed(s))

Juncus sp(p). (rushes: charred capsule(s) and seed(s)

cf. Juncus sp(p). (?rushes: capsule(s))

Luzula sp(p). woodrushes seed(s)

Gramineae (grasses: charred caryopsis/es, charred spikelet(s)/spikelet fragment(s), uncharred stem/leaf epidermis fragment(s), and uncharred caryopsis/es)

cf. Gramineae (?grasses: culm node(s))

Gramineae/Cerealia (grasses/cereals: charred caryopsis/es, charred and uncharred culm fragment(s), charred and uncharred culm node(s))

Cerealia (cereals: charred caryopsis/es, chaff fragment(s), and rach is fragment(s), and mineralised caryopsis/es)

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

Bromus sp(p). (bromes, etc.: charred caryopsis/es)

Triticum aestivo-compactum (bread/club wheat: charred caryopsis/es)

Triticum sp(p). (wheats: charred caryopsis/es)

Triticum/Secale (wheat/rye: waterlogged periderm fragment(s)—'bran')

Secale cereale L. (rye: charred caryopsis/es)

Hordeum vulgare L. (six-row barley: charred caryopsis/es (some twisted grains) and rachis fragment(s))

Hordeum sp(p).(barley: charred caryopsis/es, including some sprouting specimens, and spikelet(s)/spikelet fragment(s)

Avena sativa L. (cultivated oat: charred spikelet(s)/spikelet fragment(s))

Avena sp(p). (oats: charred caryopsis/es, spikelet(s)/spikelet fragment(s) and uncharred periderm ('bran') fragment(s))

cf. Avena sp(p). (?oats: charred chaff, including glumes)

cf. Alopecurus sp(p). (?foxtails: caryopsis/es)

Lemna sp(p). (duckweeds: frond(s) and seed(s))

Sparganium sp(p). (bur-reed sI fruit(s))

Scirpus maritimus L. (sea club-rush: nutlet(s))

S. lacustris s.l. (bulrush: nutlet(s))

Eleocharis palustris s.l. (common spike-rush: charred and uncharred nutlet(s))

Eleocharis sp(p). spike-rush es nutlet(s)

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

cf. Schoenus nigricans L. (?bog-rush: nutlet(s))

Invertebrates		*Bibio nidae sp.	u
TH VCT CONTACCS		*Eristalini sp. (larva)	W
Nematoda		*Syrphidae sp. (larva)	u
*?Heterodera sp. (cyst)	u	*Sphaeroce ridae sp. (pup arium)	rt
	-	*? Scatopse notata (Linnaeus) (puparium)	rt
Annelida		*Sepsidae sp. (puparium)	u
*Oligochaeta sp. (egg capsule)	u	*Muscidae sp. (puparium)	u
8 1 1 1 1 (1 68 1 1 7 1 1 1 1		*Melophagus ovinus (Linnaeus) (puparium)	u
Crustacea		*Melophagus ovinus (Linnaeus) (adult)	u
*Daphnia sp. (ephipp ium)	oa-w	*Diptera sp. (adult)	u
*Cladocera spp. (ephipp ium)	oa-w	*Diptera sp. (larva)	u
*Ostracod a sp.	u	*Diptera sp. (pup arium)	u
•		*Diptera sp. (pup a)	u
CHILOPODA		*Diptera sp. (larva and/or pupa)	u
*Chilopoda sp.	u		
•		SIPHONAPTERA	
Insecta		*Pulex irritans Linnaeus	SS
Dermaptera		*Siphonaptera sp. indet.	u
*Dermap tera sp.	u		
		Coleoptera	
MALLOPHAGA OR ANOPLURA		Carabus sp.	oa
*?Mallop haga or An oplura sp.	u	Nebria sp.	oa
		Elaphrus cupreus Duftschmid	oa-d
HEMIPTERA		Elaphrus riparius (Linnaeus)	oa-d
Sehirus bicolor (Linnaeus)	oa-p	?Loricera pilicornis (Fabricius)	oa
Heterogaster urticae (Fabricius)	oa-p	Dyschirius globosus (Herbst)	oa
Macrodema micropterum (Curtis)	oa-p-m	Dyschirius sp. indet.	oa
Drymus sp.	oa-p	Clivina fossor (Linnaeus)	oa
Scolopostethus sp.	oa-p	Patrobus atrorufus (Strom)	oa
Lygaeidae sp.	oa-p	Trechus obtusus or quadristriatus	oa
Anthocoris sp.	oa-p	Trechus discus (Fabricius)	u
Cimicidae sp. indet.	oa-p	Trechus micros (Herbst)	u
?Miridae sp.	oa-p	Trechus sp. indet.	ob
Saldula sp.	oa-d	Bembidion lampros (Herbst)	oa
Saldidae sp. indet.	oa-d	Bembidion lampros or properans	oa
Gerris sp.	oa-w	Bembidion (Peryphus) sp.	oa
Corixid ae sp.	oa-w	Bembidion ?doris (Panzer)	oa-d
Heteroptera sp.	u	Bembidion guttula or mannerheimi	oa
*Heteroptera sp. indet. (nymph)	u	Bembidion (Philochthus) sp. indet.	oa
Aphrophora alni (Fallen)	oa-p	Bembidion spp. and spp. indet.	oa -14
Ulopa reticulata (Fabricius)	oa-p-m	Pterostichus madidus (Fabricius)	ob-st
Delphacidae sp.	oa-p	Pterostichus melanarius (Illiger)	ob ob
Auche norhyn cha spp. indet.	oa-p	Pterostichus sp. Laemostenus ?terricola (Herbst)	ob
*Auchenorhyncha sp. (nymph)	oa-p	Agonum dorsale (Pontoppidan)	SS
*Aphido idea sp.	u		oa
*Coccoidea sp.	u	Agonum sp. Amara spp.	oa
Thygyongen		Harpalus sp.	oa
TRICHOPTERA		Bradycellus rufico llis (Stephens)	0a 0a-m
*Trichoptera sp. (case)	oa-w	?Bradycellus sp. indet.	oa-m
I ENIDORTERA		Chlaenius sp.	oa u
LEPIDOPTERA *Lepidoptera sp. (pupa)	11	Metabletus sp.	oa
*Lepidop tera sp. (pupa)	u	Carabid ae spp. in det.	oa ob
Diptera		Haliplid ae sp.	oa-w
DIFTERA		Tampila av op.	0a W

Hadaa airee aa		Omalium rivula re (Paykull)	rt-sf
Hydroporinae spp.	oa-w	Omalium sp. indet.	rt
Agabus or Ilybius sp.	oa-w	Xylodromus concinnus (Marsham)	rt-st
?Rhantus sp. Colymbetes fuscus (Linnaeus)	oa-w	Omaliin ae sp.	rt
Colymbetinae spp.	oa-w	Coprophilus striatulus (Fabricius)	rt-st
Gyrinus sp.	oa-w oa-w	Carpelimus bilineatus Stephens	rt-sf
?Georissus crenulatus (Rossi)	oa-w	Carpelimus fuliginosus (Gravenhorst)	st
Hydrochus sp.	oa-w	Carpelimus pusillus group	u
Helophorus grandis Illiger	oa-w	Carpelimus rivularis (Motschulsky)	ob-d
Helophorus aquaticus or grandis	oa-w	Carpelimus sp.	u
Helophorus spp.	oa-w	Aploderus caelatus (Gravenhorst)	rt
Sphaeridium ?bipustulatum Fabricius	rf	Platystethus arenarius (Fourcroy)	rf
Sphaeridium sp. indet.	rf	Platystethus ?cornutus (Gravenhorst)	oa-d
Cercyon analis (Paykull)	rt-sf	Platystethus degener Mulsant & Rey	oa-d
Cercyon atricapillus (Marsham)	rf-st	Platystethus nitens (Sahlberg)	oa-d
Cercyon haemorrhoidalis (Fabricius)	rf-sf	Platystethus nodifrons (Mannerheim)	oa-d
Cercyon terminatus (Marsham)	rf-st	Anotylus complanatus (Erichson)	rt-sf
Cercyon convexiusculus group	oa-d	Anotylus nitidulus (Gravenhorst)	rt
Cercyon unipunctatus (Linnaeus)	rf-st	Anotylus rugosus (Fabricius)	rt
Cercyon ?ustulatus (Preyssler)	oa-d	Anotylus sculpturatus group	rt
Cercyon spp. indet.	u	Anotylus tetracarinatus (Block)	rt
Megasternum obscurum (Marsham)	rt	Oxytelus sculptus Gravenhorst	rt-st
Cryptopleurum minutum (Fabricius)	rf-st	Stenus spp.	u
Hydrobius fuscipes (Linnaeus)	oa-w	Lathrobium spp.	u
Anacaena sp.	oa-w	Lithocharis ochracea (Gravenhorst)	rt-st
?Laccobius sp.	oa-w	Rugilus sp.	rt
Hydrophilinae spp. and spp. indet.	oa-w	Paederi nae sp.	u
Teretrius fabricii Mazur	1	Leptacinus intermedius Donisthorpe	rt-st
Acritus nigricornis (Hoffmann)	rt-st	Leptacinus pusillus (Stephens)	rt-st
Gnathoneus sp.	rt-sf	Leptacinus sp. indet.	rt-st
Onthophilus striatus (Forster)	rt-sf	Gauropterus fulgidus (Fabricius)	rt-st
Hister?merdarius Hoffman	rt-sf	Gyrohypnus angustatus Stephens	rt-st
Histerin ae spp. in det.	rt	Gyrohypnus fracticornis (Muller)	rt-st
Ochthebius ?minimus (Fabricius)	oa-w	Gyrohypnus sp. indet.	rt
Ochthebius sp.	oa-w	Xantholinus longiventris Heer	rt-sf
Hydraena sp.	oa-w	Xantholinus linearis or longiventris	rt-sf
Limnebius spp.	oa-w	Xantholinus sp. indet.	u
Ptenidium sp.	rt	Neobisnius sp.	u
Acrotrichis sp.	rt	Philonthus ?politus (Linnaeus)	rt-st
Ptiliidae sp.	u	Philonthus spp.	u
Catops sp.	u	Gabrius sp.	rt
Silpha atrata Linnaeus	u	Creophilus maxillosus (Linnaeus)	rt
Scydmaenidae sp.	u	Quedius boops group	u
Micropeplus fulvus Erichson	rt	Quedius sp.	u
Olophrum ?piceum (Gyllenhal)	oa	Staphylin inae sp.	u
Olophrum sp.	oa	Mycetoporus sp.	u
Acidota crenata (Fabricius)	oa	?Bobitobius sp.	u
Lesteva longo elytrata (Goeze)	oa-d	Tachyporus ?obtusus (Linnaeus)	u
Lesteva sp. indet.	oa-d	Tachyporus spp.	u
Phyllodrepa sp.	rt	Tachinus laticollis or marginellus	u
Dropephylla ?ioptera (Stephens)	u	Tachinus signatus Gravenhorst	u
Dropephylla sp. indet.	u	Tachinus sp.	u
Omalium? excavatum Stephens	rt-sf	Cordalia obscura (Gravenhorst)	rt-sf
Omalium caesum or italicum	rt-sf	Falagria caesa or sulcatula	rt-sf

?Cratarae a suturalis (Mannerheim)	rt-st	Blaps sp.	rt-ss
Aleochara sp.	u	Tenebrio obscurus Fabricius	rt-ss
Aleocharinae spp.	u	Rhinosimus planirostris (Fabricius)	1
Pselaphidae sp.	u	Anthicus formicarius (Goeze)	rt-st
Trox scaber (Linnaeus)	rt-sf	Anthicus sp. indet.	rt
Aphodius ater (Degeer)	oa-rf	Gracilia minuta (Fabricius)	1
Aphodius granarius (Linnaeus)	ob-rf	Pogonocherus hispidulus (P&M.)	1
Aphodius ?prodromus (Brahm)	ob-rf	Cerambycidae sp.	1
Aphodius spp. and spp. indet.	ob-rf	Bruch inae sp.	u
Oxyomus sylvestris (Scopoli)	rt-sf	?Macroplea sp.	oa-w
?Phyllopertha horticola (Linnaeus)	oa-p	Donacia sp.	oa-d-p
Clambus sp.	rt-sf	Donaciinae spp. indet.	oa-d-p
Cyphon sp.	oa-d	Gastrophysa viridula (Degeer)	oa-p
Dryops sp.	oa-d	Phaedon sp.	oa-p
Oulimnius sp.	oa-w	Phyllodecta sp.	oa-p
Elmidae sp.	oa-w	Chrysomelinae spp. and spp. indet.	oa-p
Melanotus ?erythropus (Gmelin)	1	Phyllotreta nemorum group	oa-p
Elateridae spp.	ob	Longitarsus spp.	oa-p
Xestobium rufovillosum (Degeer)	l-st	Altica sp.	oa-p oa-p
	l-st	Chaetocnema arida group	oa-p oa-p
Anobium punctatum (Degeer)	1-81 1-8f	Chaetocnema concinna (Marsham)	-
Ptilinus pectinicornis (Linnaeus) Tipnus unicolor (Piller & Mitterpacher)		Psylliodes sp.	oa-p oa-p
Ptinus fur (Linnaeus)	rt-ss rd-sf	Halticin ae spp. in det.	-
,	rd-sf	Apion (Oxystoma) sp.	oa-p
Ptinus sp. indet.	l-sf	Apion (Oxystoma) sp. Apion spp.	oa-p oa-p
Lyctus linearis (Goeze)	1-81 ob	Strophosomus sp.	-
Anthocomus fasciatus (Linnaeus)		Sitophosomus sp. Sitona hispidulus (Fabricius)	oa-p
Brachypterus sp.	oa-p	Sitona lepidus Gyllenhal	oa-p
Meligethes sp.	oa-p	Sitona spp. ind et.	oa-p
Omosita discoidea (Fabricius)	rt-sf	Tanysphyrus lemnae (Paykull)	oa-p
Omosita sp. indet.	rt-sf	Bagous sp.	oa-w-p oa-w
Rhizophagus sp.	u	Notaris acridulus (Linnaeus)	oa-d-p
Monotoma longicollis (Gyllenhall)	rt-st	Notaris sp. indet.	oa-d-p
Monotoma picipes Herbst	rt-st	Micrelus ericae (Gyllenhal)	oa-q-p
Monotoma spp. indet.	rt-sf	Cidnorhinus quadrimaculatus (Linnaeus)	
Oryzaephilus surinamensis (Linnaeus)	g-ss	Ceutorhynchus ?contractus (Marsham)	oa-p
?Telmatophilus sp.	oa-d	Ceutorhynchus spp.	oa-p
Cryptophagus scutellatus Newman	rd-st	Rhinoncus sp.	oa-p
Cryptophagus spp.	rd-sf	Ceuth orhynch inae sp.	oa-p
Atomaria spp.	rd	Curcu lionid ae spp. and spp. in det.	oa-p oa
Ephistemus globulus (Paykull)	rd-sf	Hylesinus oleiperda (Fabricius)	
Phalacrid ae sp.	oa-p	?Dryocoetinus villosus (Fabricius)	u 1
Cerylon histeroides (Fabricius)	1		1
Orthoperus sp.	rt	Scolytidae sp. Coleo ptera spp. indet.	
Coccinellidae sp.	oa-p	*Coleoptera spp. indet. (larva)	u
Mycetaea hirta (Marsham)	rd-ss	Coleoptera spp. muet. (larva)	u
?Stephostethus angusticollis (Gyllenhal)	rt-st	HYMENOPTERA	
Lathridius minutus group	rd-st	*Proctot rupoid ea sp.	11
Enicmus sp.	rt-sf	*Chalcid oidea sp.	u
Corticaria spp.	rt-sf	-	u
Corticarina fuscula (Gyllenhal)	rt 	*Hymeno ptera Parasitica sp. *Formicidae sp. B	u
Corticarina sp. indet.	rt t	*Formicidae sp. B *Formicidae sp. A	u
Corticarina or Cortinicara sp. indet.	rt	*Formicidae sp. A *Formicidae sp.	u
Cisidae sp.	1	*Apoide a sp.	u
Aglenus brunneus (Gyllenhal)	rt-ss	Apolica sp.	u

*Hymeno ptera sp.	u	Mytilus edulis Linnaeus Ostrea edulis Linnaeus	
*Insecta sp. (larva)	u	Bivalvia (periostracum)	
*Insecta sp. (larval case)	u		
*Insecta sp. (pupa)	u	Vertebrates	
*Wood with in sect bores	u	PISCES	
		Clupea harengus L.	herring
Arachnida		Anguilla an guilla (L.)	eel
*Acarina sp.	u		
*Opilion es sp.	u	Амрнівіа	
*Aranae sp.	u	Amphibia indet.	
BRYOZOA		AVES	
*Lophopus crystallinus (Pallas)	oa-w	Anser sp.	goose
*Cristatella mucedo (statoblast) Cuvier	W	Gallus f. domestic	chicken
Incertae sedis		M AMM ALIA	
*Egg mass indet.	u	Oryctolagus cuniculus (L.)	rabbit
		Canis f. domestic	dog
		Felis f. domestic	cat
Mollusca		Equus f. domestic	horse
Valvata piscinalis (Müller)		Sus f. domestic	pig
Potamopyrgus jenkinsi (Smith)		Cervus elaphus L.	red deer
Bithynia tentaculata (Linnaeus)		Dama dama (L.)	fallow deer
Planorbis sp. (sensu lato)		Bos f. domestic	cattle
Succinea ?oblonga Drapamaud		Caprovid	sheep/go at
Succinea putris (Linnaeus)		Capra f. domestic	goat
Succinea sp. indet.		Homo sapiens	human

Table 5. Layerthorpe Bridge, York: lists of plants remains and other components of the samples, in context, sample and subsample order. For each list records are presented in descending order by abundance score (on a 3- or 4-point scale, as appropriate for the kind of sample), and for each score in alphabetical order. Note that, for BS samples, sample numbers are mostly the same as the context numbers and are those applied at the time of recording where several individual BS residues were 'lumped together'.

Abbreviations: af—achene fragment(s); b—bud(s); bs—bud-scale(s); caps—capsule(s); ch—charred; c/n—culm-nodes; cot—cotyledon(s); dec—decayed; dim—dimension; endo—endocarp; epid—epidermis; fcs—female catkin or cone scale(s); ff—fruit fragment(s); fgt/s—fragment/s; fls—flower(s); fr—fruit(s); inc—including; incomp—incompletely; inv br—involucral bract(s); lef—leaf epidermis fragment(s); lvs—leaves; max—maximum; mc—male catkin; meso—mesocarp; mf—mericarp fragment(s); min—mineral-replaced ('mineralised'); per—perianth(s); pet—petal(s); pinn—pinnule; rt—root; s—seed(s); segs—segment(s); sf—seed fragment(s); sht—shoot; spec—specimen; spklts—spikelet(s); spr—sprouting; st—stem; tef—twig epidermis fragment(s); tw—twig; twstd—twisted; v—very.

Context 4, Sample 6 (SPT)		Context 10, Sample 101010 (BS)		
herbaceous detritus	2	brick/tile	2	max dim 140
'coils'	1			mm
Agrostemma githago (sf)	1	oyster shell fgts	2	
Atriplex sp(p).	1	clay pipe fgts	1	
beetles	1	cobbles	1	max 80 mm
Bidens $sp(p)$.	1	glass fgts	1	max 80 mm
Bilderdykia convolvulus (ff)	1	gravel	1	max 30 mm
- · · · · · · · · · · · · · · · · · · ·	1 max 5 mm	grit	1	
Carduus/Cirsium sp(p).	1	mammal bone	1	max 80 mm
Carex sp(p).	1	mussel shell fgts	1	
charcoal	1 max 10 mm	pottery	1	max 20 mm
Chenopodiaœae	1			
Chenopodium album	1			
•	1	Context 14, Sample 48 (T)		
-	1 max 3 mm			
Ficus carica	1	bark fgts	3	max 15 mm
gravel	1 max 10 mm	gravel		max 30 mm
Leguminosae (fls/pet)	1	Potentilla anserina	2	
Plantago major	1	Sambucus nigra		inc fragments
Polygonum aviculare agg.	1	sand	2	
Polygonum persicaria	1	sclereids (from bark)	2	
Ranunculus flammula	1	Urtica dioica	2	
Ranunculus sceleratus	1	Aethusa cynapium	1	
Ranunculus Section Ranunculus	1	Atriplex sp(p).	1	
Raphanus raphanistrum (pod segs/fgts)	1	bast fgts	1	
Reseda luteola	1	beetles	1	
Rumex sp(p). (inc per)	1	bone fgts	1	max 90 mm
Salix $sp(p)$. (b)	1	burnt bone fgts	1	max 10 mm
Sambucus nigra	1	caddis larva cases	1	
sand	1	Carex sp(p).	1	
Stellaria media	1	cf. Avena sp(p).	1	
Urtica dioica	1	cf. Avena sp(p). (chaff)	1	
		cf. Calluna vulgaris (ch rt-tw fgts)	1	
		cf. Calluna vulgaris (rt-tw fgts)	1	
		cf. Cerealia indet.	1	fragment(s) onl
		charcoal	1	max 15 mm

Chenopodium album	1	J	1
Chrysanthemum segetum	1 max 10 mm		1
cinders	1 max 15 mm		1
coal	1 max 10 mm	Potentilla anserina	1
Conium maculatum (mf)	1	r 5	1 max 20 mm
Coronopus squamatus (fr)	1 fragment(s) only	Quercus sp(p). (b/bs)	1
Corylus avellana	1 max 5 mm	Ranunculus Section Ranunculus	1
Corylus avellana (ch)	1 max 10 mm	Raphanus raphanistrum (pod segs/fgts)	1
Daphnia (ephippia)	1	root bark/epidermis fgts	1
Juncus sp(p).	1	root/rhizome fgts (ch)	1 max 10 mm
Polygonum aviculare agg.	1	Sambucus cf. ebulus	1
Ranunculus Section Ranunculus	1 v dec	Scirpus lacustris sl	1
Raphanus raphanistrum (pod segs/fgts)	1	Solanum sp(p).	1 v dec
root/rootlet fgts	1	Stachys sp(p).	1
Rumex sp(p).	1	teeth	1
Urtica urens	1	Urtica urens	1
wood fgts	1 v dec, max 15	Viola sp(p).	1
woodigis	mm	wood fgts	1 v dec, max 10
	111111	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	mm
		Zannichellia palustris	1
C		Zamirementa parastris	1
Context 14, Sample 48 (T1)			
houls for	2 v doo mov 20	Context 15, Sample 49 (T)	
bark fgts	3 v dec, max 30	Context 13, Sumple 15 (1)	
1	mm	graval	2 max 30 mm
gravel	3 max 65 mm	gravel sand	2 11100 30 111111
sand	3		1 max 35 mm
sclereids (from bark)	3 mostly <1 mm	bone fgts brick/tile	1 max 30 mm
Atriplex sp(p).	2		
Chenopodium album	2	Juncus sp(p).	1
Sambucus nigra	2 inc fragments	root/rootlet fgts	1
Urtica dioica	2	Rumex acetosella agg.	1
Aethusa cynapium	1	Sambucus nigra	1
Anthemis cotula	1	sclereids (from bark)	1
beetles	1	Veronica beccabunga-type	1
bone fgts	1 max 30 mm		
Brassica rapa (sf)	1		
brick/tile	1 max 40 mm	Context 16, Sample 52 (T)	
burnt bone fgts	1 max 10 mm		
caddis larv a cases	1 fragment(s) only	bark fgts	3 max 15 mm
Calluna vulgaris (sht fgts)	1	wood fgts	3 max 70 mm
Carex sp(p).	1	Carex sp(p).	2
Cenococcum (sclerotia)	1 max 1 mm	Chenopodium album	2
cf. Atropa bella-donna	1 fragment(s) only	sand	2
cf. Avena sp(p).	1	Urtica dioica	2
cf. Calluna vulgaris (ch rt-tw fgts)	1 max 10	?arthropod frass	1
cf. Calluna vulgaris (rt-tw fgts)	1 max 5	Anthemis cotula	1
charcoal	1 max 10 mm	Anthemis cotula (ch)	1
coal	1 max 10 mm	Atriplex sp(p).	1
Conium maculatum (mf)	1	Avena sp(p).	1 incomp. charred
Coronopus squamatus (fr)	1	beetles	1
Corylus avellana	1 v dec	bone fgts	1 max 30 mm
earthworm egg caps	1	Brassica sp./Sinapis arvensis	1
Erica tetralix (ch lvs)	1	brick/tile	1 max 5 mm
Euphorbia helioscopia	1	burnt bone fgts	1 max 10 mm
Fe object(s)	1	cf. Calluna vulgaris (ch rt-tw fgts)	1 max 10 mm
fish bone	1 max 2 mm	cf. Calluna vulgars (cf. rt-tw fgts)	1
fish scale	1 max 2 mm	charcoal	1 max 10 mm
fly puparia	1 max 2 mm		
herbaceous detritus (ch)	1	Corylus avellana	1 max 10 mm
noroaccous deurius (cir)	1	Cratoneuron filicinum	1

Drepanodadus sp(p).	1	herbaceous detritus (ch)	[
earthworm egg caps	1	Homalothecium sericeum/lutescens	
fish bone	1 max 15 mm	Hypnum cf. cupres siforme	
fly puparia	1		1
Galeopsis Subgenus Galeopsis	1	Lapsana communis	1
gravel	1 max 25 mm	-	1 v dec, max 5 mm
Hypnum cf. cupres siforme	1		1 max dim 140
Melophagus ovinus (sheep keds)	1		mm
Menyanthes trifoliata	1	Marrubium vulgare	1
moss	1		fragment(s) only
Polygonum persicaria	1		1
Potentilla cf. erecta	1	-	1
Potentilla cf. reptans	1	• •	1
Potentilla sp(p).	1		1
Raphanus raphanistrum (pod segs/fgts)	=		1
root/rootlet fgts	1		1
Sambucus nigra	1	Potentilla cf. erecta	1
Sambucus nigra (ch)	1	pottery	1 max 20 mm
sclereids (from bark)	1	1 1	1
Sonchus as per	1		1
Stellaria media	1	Ranunculus sardous	1
Urtica urens	1	Ranunculus Section Ranunculus	1
wood chips	1 max 10 mm	Raphanus raphanistrum (pod segs/fgts)	1
wood diipo	1 1111111111111111111111111111111111111		1 max 5 mm
			1
Context 16, Sample 52 (T1)			1
content 10, Sumple 32 (11)			1
bark fgts	4 max dim 150	Sonchus as per	1
ourk 1gb	mm	-	1
sand	3	Urtica urens	1
sclereids (from bark)	3 max 2 mm	wood chips	1 max 20 mm
Atriplex sp(p). beetles	2 2		
Atriplex sp(p). beetles	2	Context 18, Sample 41 (T1)	
Atriplex sp(p).	2 2	Context 18, Sample 41 (T1)	
Atriplex sp(p). beetles cf. Calluna vulgaris (ch rt-tw fgts) charcoal	2 2 2 max 10 2 max 20 mm		3
Atriplex sp(p). beetles cf. Calluna vulgaris (ch rt-tw fgts) charcoal Chenopodium album	2 2 2 max 10	herbaceous detritus	3 3
Atriplex sp(p). beetles cf. Calluna vulgaris (ch rt-tw fgts) charcoal Chenopodium album earthworm egg caps	2 2 2 max 10 2 max 20 mm 2	herbaceous detritus Ranunculus sceleratus	
Atriplex sp(p). beetles cf. Calluna vulgaris (ch rt-tw fgts) charcoal Chenopodium album earthworm egg caps gravel	2 2 2 max 10 2 max 20 mm 2	herbaceous detritus Ranunculus sceleratus Apium nodiflorum	3
Atriplex sp(p). beetles cf. Calluna vulgaris (ch rt-tw fgts) charcoal Chenopodium album earthworm egg caps	2 2 2 max 10 2 max 20 mm 2 2 2 2 max 35 mm 2	herbaceous detritus Ranunculus sceleratus Apium nodiflorum Daphnia (ephippia)	3 2
Atriplex sp(p). beetles cf. Calluna vulgaris (ch rt-tw fgts) charcoal Chenopodium album earthworm egg caps gravel grit	2 2 2 max 10 2 max 20 mm 2 2 2 2 max 35 mm	herbaceous detritus Ranunculus sceleratus Apium nodiflorum Daphnia (ephippia) Nuphar lutea	3 2 2
Atriplex sp(p). beetles cf. Calluna vulgaris (ch rt-tw fgts) charcoal Chenopodium album earthworm egg caps gravel grit Sambucus nigra	2 2 2 max 10 2 max 20 mm 2 2 2 max 35 mm 2 2 inc fragments	herbaceous detritus Ranunculus sceleratus Apium nodiflorum Daphnia (ephippia) Nuphar lut ea Oenanthe aquatica	3 2 2 inc fragments
Atriplex sp(p). beetles cf. Calluna vulgaris (ch rt-tw fgts) charcoal Chenopodium album earthworm egg caps gravel grit Sambucus nigra wood fgts	2 max 10 2 max 20 mm 2 max 20 mm 2 max 35 mm 2 inc fragments 2 max 60 mm	herbaceous detritus Ranunculus sceleratus Apium nodiflorum Daphnia (ephippia) Nuphar lutea Oenanthe aquatica root/rootlet fgts	3 2 2 2 inc fragments 2
Atriplex sp(p). beetles cf. Calluna vulgaris (ch rt-tw fgts) charcoal Chenopodium album earthworm egg caps gravel grit Sambucus nigra wood fgts Aethusa cynapium	2 max 10 2 max 20 mm 2 max 20 mm 2 max 35 mm 2 inc fragments 2 max 60 mm	herbaceous detritus Ranunculus sceleratus Apium nodiflorum Daphnia (ephippia) Nuphar lutea Oenanthe aquatica root/rootlet fgts Rorippa amphibia	3 2 2 2 inc fragments 2 2
Atriplex sp(p). beetles cf. Calluna vulgaris (ch rt-tw fgts) charcoal Chenopodium album earthworm egg caps gravel grit Sambucus nigra wood fgts Aethusa cynapium Agrostemma githago (sf)	2 max 10 2 max 20 mm 2 max 20 mm 2 max 35 mm 2 inc fragments 2 max 60 mm	herbaceous detritus Ranunculus sceleratus Apium nodiflorum Daphnia (ephippia) Nuphar lut ea Oenanthe aquatica root/rootlet fgts Rorippa amphibia Alisma sp(p). Atriplex sp(p).	3 2 2 2 inc fragments 2 2 2
Atriplex sp(p). beetles cf. Calluna vulgaris (ch rt-tw fgts) charcoal Chenopodium album earthworm egg caps gravel grit Sambucus nigra wood fgts Aethusa cynapium Agrostemma githago (sf) Bilderdykia convolvulus (ch)	2 max 10 2 max 20 mm 2 max 20 mm 2 max 35 mm 2 inc fragments 2 max 60 mm	herbaceous detritus Ranunculus sceleratus Apium nodiflorum Daphnia (ephippia) Nuphar lut ea Oenanthe aquatica root/rootlet fgts Rorippa amphibia Alisma sp(p).	3 2 2 2 inc fragments 2 2 2 1
Atriplex sp(p). beetles cf. Calluna vulgaris (ch rt-tw fgts) charcoal Chenopodium album earthworm egg caps gravel grit Sambucus nigra wood fgts Aethusa cynapium Agrostemma githago (sf) Bilderdykia convolvulus (ch) Bilderdykia convolvulus (inc per)	2 max 10 2 max 20 mm 2 max 20 mm 2 max 35 mm 2 inc fragments 2 max 60 mm 1 inc per segs	herbaceous detritus Ranunculus sceleratus Apium nodiflorum Daphnia (ephippia) Nuphar lutea Oenanthe aquatica root/rootlet fgts Rorippa amphibia Alisma sp(p). Atriplex sp(p). Bithynia opercula brick/tile	3 2 2 2 2 inc fragments 2 2 2 1 1 1
Atriplex sp(p). beetles cf. Calluna vulgaris (ch rt-tw fgts) charcoal Chenopodium album earthworm egg caps gravel grit Sambucus nigra wood fgts Aethusa cynapium Agrostemma githago (sf) Bilderdykia convolvulus (ch) Bilderdykia convolvulus (inc per) Brassica sp./Sinapis arvensis	2 max 10 2 max 20 mm 2 max 35 mm 2 inc fragments 2 max 60 mm 1 inc per segs 1 fragment(s) only	herbaceous detritus Ranunculus sceleratus Apium nodiflorum Daphnia (ephippia) Nuphar lutea Oenanthe aquatica root/rootlet fgts Rorippa amphibia Alisma sp(p). Atriplex sp(p). Bithynia opercula brick/tile caddis larv a cases	3 2 2 2 2 inc fragments 2 2 2 1 1 1 1
Atriplex sp(p). beetles cf. Calluna vulgaris (ch rt-tw fgts) charcoal Chenopodium album earthworm egg caps gravel grit Sambucus nigra wood fgts Aethusa cynapium Agrostemma githago (sf) Bilderdykia convolvulus (ch) Bilderdykia convolvulus (inc per) Brassica sp./Sinapis arvensis brick/tile	2 max 10 2 max 20 mm 2 max 35 mm 2 max 35 mm 2 inc fragments 2 max 60 mm 1 inc per segs 1 fragment(s) only 1 max 30 mm	herbaceous detritus Ranunculus sceleratus Apium nodiflorum Daphnia (ephippia) Nuphar lutea Oenanthe aquatica root/rootlet fgts Rorippa amphibia Alisma sp(p). Atriplex sp(p). Bithynia opercula brick/tile	3 2 2 2 2 inc fragments 2 2 2 1 1 1 1
Atriplex sp(p). beetles cf. Calluna vulgaris (ch rt-tw fgts) charcoal Chenopodium album earthworm egg caps gravel grit Sambucus nigra wood fgts Aethusa cynapium Agrostemma githago (sf) Bilderdykia convolvulus (ch) Bilderdykia convolvulus (inc per) Brassica sp./Sinapis arvensis brick/tile burnt bone fgts	2 max 10 2 max 20 mm 2 max 35 mm 2 max 35 mm 2 inc fragments 2 max 60 mm 1 inc per segs 1 fragment(s) only 1 max 30 mm	herbaceous detritus Ranunculus sceleratus Apium nodiflorum Daphnia (ephippia) Nuphar lutea Oenanthe aquatica root/rootlet fgts Rorippa amphibia Alisma sp(p). Atriplex sp(p). Bithynia opercula brick/tile caddis larv a cases Carduus/Cirsium sp(p). Carex sp(p).	3 2 2 2 2 inc fragments 2 2 2 2 1 1 1 1 max 10 mm 1 1 1
Atriplex sp(p). beetles cf. Calluna vulgaris (ch rt-tw fgts) charcoal Chenopodium album earthworm egg caps gravel grit Sambucus nigra wood fgts Aethusa cynapium Agrostemma githago (sf) Bilderdykia convolvulus (ch) Bilderdykia convolvulus (inc per) Brassica sp./Sinapis arvensis brick/tile burnt bone fgts Calluna vulgaris (caps) Calluna vulgaris (sht fgts) Carex sp(p).	2 max 10 2 max 20 mm 2 max 35 mm 2 max 35 mm 2 inc fragments 2 max 60 mm 1 inc per segs 1 fragment(s) only 1 max 30 mm 1 max 25 mm 1	herbaceous detritus Ranunculus sceleratus Apium nodiflorum Daphnia (ephippia) Nuphar lutea Oenanthe aquatica root/rootlet fgts Rorippa amphibia Alisma sp(p). Atriplex sp(p). Bithynia opercula brick/tile caddis larv a cases Carduus/Cirsium sp(p). Carex sp(p). charcoal	3 2 2 2 2 inc fragments 2 2 2 1 1 1 1 max 10 mm 1
Atriplex sp(p). beetles cf. Calluna vulgaris (ch rt-tw fgts) charcoal Chenopodium album earthworm egg caps gravel grit Sambucus nigra wood fgts Aethusa cynapium Agrostemma githago (sf) Bilderdykia convolvulus (ch) Bilderdykia convolvulus (inc per) Brassica sp./Sinapis arvensis brick/tile burnt bone fgts Calluna vulgaris (caps) Calluna vulgaris (sht fgts)	2 max 10 2 max 20 mm 2 max 35 mm 2 max 35 mm 2 inc fragments 2 max 60 mm 1 inc per segs 1 fragment(s) only 1 max 30 mm 1 max 25 mm 1	herbaceous detritus Ranunculus sceleratus Apium nodiflorum Daphnia (ephippia) Nuphar lutea Oenanthe aquatica root/rootlet fgts Rorippa amphibia Alisma sp(p). Atriplex sp(p). Bithynia opercula brick/tile caddis larva cases Carduus/Cirsium sp(p). Carex sp(p). charcoal Conium maculatum (mf)	3 2 2 2 2 inc fragments 2 2 2 2 1 1 1 1 max 10 mm 1 1 1
Atriplex sp(p). beetles cf. Calluna vulgaris (ch rt-tw fgts) charcoal Chenopodium album earthworm egg caps gravel grit Sambucus nigra wood fgts Aethusa cynapium Agrostemma githago (sf) Bilderdykia convolvulus (ch) Bilderdykia convolvulus (inc per) Brassica sp./Sinapis arvensis brick/tile burnt bone fgts Calluna vulgaris (caps) Calluna vulgaris (sht fgts) Carex sp(p). cf. Calluna vulgaris (rt-tw fgts) cf. Cerealia indet.	2 max 10 2 max 20 mm 2 max 35 mm 2 max 35 mm 2 inc fragments 2 max 60 mm 1 inc per segs 1 fragment(s) only 1 max 30 mm 1 max 25 mm 1	herbaceous detritus Ranunculus sceleratus Apium nodiflorum Daphnia (ephippia) Nuphar lutea Oenanthe aquatica root/rootlet fgts Rorippa amphibia Alisma sp(p). Atriplex sp(p). Bithynia opercula brick/tile caddis larva cases Carduus/Cirsium sp(p). Carex sp(p). charcoal Conium maculatum (mf) dicot stem fgts	3 2 2 2 2 2 2 2 2 2 1 1 1 1 1 max 10 mm 1 1 1 max 5 mm 1 1 1
Atriplex sp(p). beetles cf. Calluna vulgaris (ch rt-tw fgts) charcoal Chenopodium album earthworm egg caps gravel grit Sambucus nigra wood fgts Aethusa cynapium Agrostemma githago (sf) Bilderdykia convolvulus (ch) Bilderdykia convolvulus (inc per) Brassica sp./Sinapis arvensis brick/tile burnt bone fgts Callura vulgaris (caps) Callura vulgaris (sht fgts) Carex sp(p). cf. Calluna vulgaris (rt-tw fgts) cf. Cerealia indet. Chenopodium polyspermum	2 max 10 2 max 20 mm 2 max 35 mm 2 max 35 mm 2 inc fragments 2 max 60 mm 1 inc per segs 1 fragment(s) only 1 max 30 mm 1 max 25 mm 1	herbaceous detritus Ranunculus sceleratus Apium nodiflorum Daphnia (ephippia) Nuphar lutea Oenanthe aquatica root/rootlet fgts Rorippa amphibia Alisma sp(p). Atriplex sp(p). Bithynia opercula brick/tile caddis larv a cases Carduus/Cirsium sp(p). Carex sp(p). charcoal Conium maculatum (mf) dicot stem fgts freshwater snails	3 2 2 2 2 2 2 2 2 2 1 1 1 1 1 1 1 1 1 1
Atriplex sp(p). beetles cf. Calluna vulgaris (ch rt-tw fgts) charcoal Chenopodium album earthworm egg caps gravel grit Sambucus nigra wood fgts Aethusa cynapium Agrostemma githago (sf) Bilderdykia convolvulus (ch) Bilderdykia convolvulus (inc per) Brassica sp./Sinapis arvensis brick/tile burnt bone fgts Callura vulgaris (caps) Callura vulgaris (sht fgts) Carex sp(p). cf. Calluna vulgaris (rt-tw fgts) cf. Cerealia indet. Chenopodium polyspermum Corylus avellana	2 max 10 max 20 mm 2 max 35 mm 2 max 35 mm 2 inc fragments max 60 mm 1 inc per segs fragment(s) only max 30 mm 1 max 25 mm 1 max 15 1 max 15	herbaceous detritus Ranunculus sceleratus Apium nodiflorum Daphnia (ephippia) Nuphar lutea Oenanthe aquatica root/rootlet fgts Rorippa amphibia Alisma sp(p). Atriplex sp(p). Bithynia opercula brick/tile caddis larv a cases Carduus/Cirsium sp(p). Carex sp(p). charcoal Conium maculatum (mf) dicot stem fgts freshwater snails Heracleum sphondylium	3 2 2 2 2 2 2 2 2 2 1 1 1 1 1 1 1 1 1 1
Atriplex sp(p). beetles cf. Calluna vulgaris (ch rt-tw fgts) charcoal Chenopodium album earthworm egg caps gravel grit Sambucus nigra wood fgts Aethusa cynapium Agrostemma githago (sf) Bilderdykia convolvulus (ch) Bilderdykia convolvulus (inc per) Brassica sp./Sinapis arvensis brick/tile burnt bone fgts Callura vulgaris (caps) Callura vulgaris (sht fgts) Carex sp(p). cf. Calluna vulgaris (rt-tw fgts) cf. Cerealia indet. Chenopodium polyspermum Corylus avellana Diphasium complanatum	2 max 10 mm 2 max 20 mm 2 max 35 mm 2 max 60 mm 1 max 30 mm 1 max 30 mm 1 max 25 mm 1 max 15 1 max 15	herbaceous detritus Ranunculus sceleratus Apium nodiflorum Daphnia (ephippia) Nuphar lutea Oenanthe aquatica root/rootlet fgts Rorippa amphibia Alisma sp(p). Atriplex sp(p). Bithynia opercula brick/tile caddis larv a cases Carduus/Cirsium sp(p). Carex sp(p). charcoal Conium maculatum (mf) dicot stem fgts freshwater snails Heracleum sphondylium Linum usitatiss imum	3
Atriplex sp(p). beetles cf. Calluna vulgaris (ch rt-tw fgts) charcoal Chenopodium album earthworm egg caps gravel grit Sambucus nigra wood fgts Aethusa cynapium Agrostemma githago (sf) Bilderdykia convolvulus (ch) Bilderdykia convolvulus (inc per) Brassica sp./Sinapis arvensis brick/tile burnt bone fgts Callura vulgaris (caps) Callura vulgaris (sht fgts) Carex sp(p). cf. Calluna vulgaris (rt-tw fgts) cf. Cerealia indet. Chenopodium polyspermum Corylus avellana Diphasium complanatum Eleocharis palustris sl	2 max 10 2 max 20 mm 2 max 35 mm 2 max 35 mm 2 inc fragments 2 max 60 mm 1 inc per segs 1 fragment(s) only 1 max 30 mm 1 max 25 mm 1 max 15 1 v dec 1	herbaceous detritus Ranunculus sceleratus Apium nodiflorum Daphnia (ephippia) Nuphar lutea Oenanthe aquatica root/rootlet fgts Rorippa amphibia Alisma sp(p). Atriplex sp(p). Bithynia opercula brick/tile caddis larv a cases Carduus/Cirsium sp(p). Carex sp(p). charcoal Conium maculatum (mf) dicot stem fgts freshwater snails Heracleum sphondylium Linum usitatissimum (caps fgts)	3
Atriplex sp(p). beetles cf. Calluna vulgaris (ch rt-tw fgts) charcoal Chenopodium album earthworm egg caps gravel grit Sambucus nigra wood fgts Aethusa cynapium Agrostemma githago (sf) Bilderdykia convolvulus (ch) Bilderdykia convolvulus (inc per) Brassica sp./Sinapis arvensis brick/tile burnt bone fgts Callura vulgaris (caps) Callura vulgaris (sht fgts) Carex sp(p). cf. Calluna vulgaris (rt-tw fgts) cf. Cerealia indet. Chenopodium polyspermum Corylus avellana Diphasium complanatum Eleocharis palustris sl fish bone	2 max 10 max 20 mm 2 max 20 mm 2 max 35 mm 2 inc fragments 2 max 60 mm 1 inc per segs 1 fragment(s) only 1 max 30 mm 1 max 25 mm 1 v dec 1 v dec 1 max 20 mm	herbaceous detritus Ranunculus sceleratus Apium nodiflorum Daphnia (ephippia) Nuphar lutea Oenanthe aquatica root/rootlet fgts Rorippa amphibia Alisma sp(p). Atriplex sp(p). Bithynia opercula brick/tile caddis larv a cases Carduus/Cirsium sp(p). Carex sp(p). charcoal Conium maculatum (mf) dicot stem fgts freshwater snails Heracleum sphondylium Linum usitatissimum (caps fgts) Lophopus crystallinus	3 2 2 2 2 inc fragments 2 2 1 1 1 max 10 mm 1 1 max 5 mm 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
Atriplex sp(p). beetles cf. Calluna vulgaris (ch rt-tw fgts) charcoal Chenopodium album earthworm egg caps gravel grit Sambucus nigra wood fgts Aethusa cynapium Agrostemma githago (sf) Bilderdykia convolvulus (ch) Bilderdykia convolvulus (inc per) Brassica sp./Sinapis arvensis brick/tile burnt bone fgts Callura vulgaris (caps) Callura vulgaris (sht fgts) Carex sp(p). cf. Calluna vulgaris (rt-tw fgts) cf. Cerealia indet. Chenopodium polyspermum Corylus avellana Diphasium complanatum Eleocharis palustris sl	2 max 10 2 max 20 mm 2 max 35 mm 2 max 35 mm 2 inc fragments 2 max 60 mm 1 inc per segs 1 fragment(s) only 1 max 30 mm 1 max 25 mm 1 max 15 1 v dec 1	herbaceous detritus Ranunculus sceleratus Apium nodiflorum Daphnia (ephippia) Nuphar lutea Oenanthe aquatica root/rootlet fgts Rorippa amphibia Alisma sp(p). Atriplex sp(p). Bithynia opercula brick/tile caddis larv a cases Carduus/Cirsium sp(p). Carex sp(p). charcoal Conium maculatum (mf) dicot stem fgts freshwater snails Heracleum sphondylium Linum usitatissimum (caps fgts)	3

Polygonum hydropip er Ranunculus Section Ranunculus Rumex acetosella agg. Rumex sp(p). (inc per) Salix sp(p). (b) sand Scirpus lacustris sl Sparganium sp(p). Sphagnum sp(p). (lvs) Umbelliferae	1 1 1 1 1 1 1 1 1	Lophopus crystallinus Malva sp(p). Myriophyllum verticillatum/spicat um Nuphar lutea Odontites verna Oenanthe lachenalii Pastinaca sat iva/Heracleum sphondyl Polygonum lapathifolium Polygonum persicaria	1 1 1
Urtica urens	1	Potamogeton sp(p).	1
wood fgts	1 max 20 mm	Ranunculus Section Ranunculus	1
		Rumex sp(p). (inc per)	1
		Sagittaria sagittifolia	1
Context 19, Sample 45 (T)		Salix sp(p). (b)	1
		Salix sp(p). (fr)	1
fibres	2	Sambucus nigra	1
Linumusitatissimum(caps fgts)	2	sand	1
Marrubium vulgare	2	Scirpus lacustris sl	1
Polygonum aviculare agg.	2	Sonchus asper	1
Ranunculus sceleratus	2	Sonchus oleraceus	1
Reseda luteola	2	Stellaria media	1
Sparganium sp(p).	2	Ulota sp(p). Urtica dioica	1
'coik'	1	Urtica dioica Urtica urens	1
?bryozoa	1	0 - 1 - 0 - 0 - 1 - 1 - 1	1 5
Agrostemma githago (sf)	1	wood chips	1 max 5 mm
Alisma sp(p).	1	wood fgts	1 max 5 mm
Anthemis cotula	1		
Arctium sp(p).	1	C	
Bithynia opercula	1	Context 20, Sample 38 (T)	
bone fgts	1 max 10 mm	1 1 12	2
Brassica cf. rapa	1	unwashed sediment	3
Brassica sp(p).	1	cinders	2 max 15 mm
Callum vulgaris (tw fgts)	1	Ranunculus sceleratus	2
Carex sp(p).	1	Urtica dioica	2
Centaurea sp(p).	1	Conium maculatum (mf)	1
Ceratophyllum sp(p).	l	Coronopus squamatus (fr)	1
charcoal	1 max 5 mm	Sambucus nigra sand	1
Chrysanthemum segetum	1		1 45
Conium maculatum	1	tile fgts	1 max 45 mm
Cristatella (statoblasts)	1		
Daphnia (ephippia)	1	G + +20 G 1 17 (T)	
earthworm egg caps Erica tetralix (lvs)	1	Context 38, Sample 17 (T)	
Ficus carica	1	1 1 0	2 1 10
	1	bark fgts	3 v dec, max 10
fish bone fish scale	1	C1 1' 11	mm
	1	Chenopodium album	2
fly puparia	1	Potentilla cf. erecta	2
Fumaria sp(p). Galeopsis Subgenus Galeopsis	1	sand	2
	1 max 25 mm	Aethusa cynapium	1
gravel	1 111ax 23 111111 1	Agrostemma githago (ch)	1
grit Hyoscyamus niger	1	Atriplex sp(p). beetles	1
Hypnum cf. cupres siforme	1		1 1 max 40 mm
Lamium Section Lamiopsis	1	bone fgts brick/tile	1 max 40 mm 1 max 20 mm
Lapsana communis	1		1 max 20 mm 1
Lemna sp(p).	1	Carlum vulgaris (ch fls)	
Leucobryum glaucum	1	Carex sp(p).	1
Linum usitatissimum(sf)	1	cf. Calluna vulgaris (rt-tw fgts) charcoal	1 max 5 mm
Emain witaussinum(si)	1	Charcoar	1 IIIax 3 IIIIII

	1	Corylus avellana Corylus avellana (ch)	1 max 10 mm 1 max 10 mm
	=	Cristatella (statoblasts)	1 max 10 mm
8	1 max 20 mm	Eleocharis palustris sl	1
grit	1	fish bone	1
	1	fly puparia	1
	•	Gramineae	1
Raphanus raphanistrum (pod segs/fgts) Sambucus nigra	1	Gramineae/Cerealia (ch)	1
_	1	gravel	1 max 10 mm
· · · · · · · · · · · · · · · · · · ·	1	Hyoscyamus niger	1
	1	Isothecium myosuroides	1
	1	Lamium Section Lamiopsis	1
	1 v dec, max 10	leather fgts	1 max 30 mm
woodigis	mm	Linum usitatiss imum	1
	111111	Linum usitatissimum (caps fgts)	1
		Malva sp(p).	1
Context 38, Sample 3838 (BS)	•	Marrubium vulgare	1
Context 30, Bample 3030 (BS)		Neckera complanata	1
brick/tile	1 max 35 mm	ostracods	1
	1 max dim 120	Polygonum hydropiper	1
manimar conc	mm	Polygonum lapathifolium	1
oyster shell fgts	1	Potamogeton sp(p).	1
	1 max 60 mm	Potentilla sp(p).	1
•	1 max length 120	Prunella vulgaris	1
	mm by 20 mm	Ranunculus Subgenus Batrachium	1
	width/diameter	root bark/epidermis fgts	1
		root/rhizome fgts (ch)	1
		Rubus/Rosa sp(p). (prickles)	1
Context 40, Sample 19 (T)		Rumex sp(p).	1
		Rumex sp(p). (per/segs)	1
bark fgts	2 v dec, max 10	sclereids (from bark) snails	1
	mm	Sphagnum sp(p). (lvs)	1
	2 max 10 mm	Stellaria media	1
	2	Triticum/Secale (bran' fgts)	1
8	2	Tittleum/Secare (oran 1gts)	1
	2		
	2	Context 40, Sample 4040 (BS)	
	2	Context 10, Sample 10 10 (BS)	
	1 max 30 mm	bark fgts	1 v dec, max 10
Agrimonia eupatoria	1	ourk 150	mm
Agrostemma githago (sf)	1	brick/tile	1 max 20 mm
1	1	burnt bone fgts	1 max 15 mm
Atriplex sp(p).	1	Corylus avellana	1 max 10 mm
	1 1 max 20 mm	gravel	1 max 20 mm
bone fgts Brassica rapa	1 max 20 mm	mammal bone	1 max 50 mm
-	1 max 5 mm	oyster shell fgts	1 max 20 mm
	1 max 3 mm	, c	
Calluma vulgaris (ch fls)	1		
Calluna vulgaris (ch sht fgts)	1	Context 41, Sample 27 (T)	
Carduus/Cirsium sp(p).	1		
Centaurea sp(p). (af)	1	bark fgts	3 v dec, max 25
cf. Calluna vulgaris (ch rt-tw fgts)	1	-	mm
	1	?arthropod frass	2
cf. Secale cereale	1	Chenopodium album	2
cf. Senecio sp(p).	1	sand	2
Chenopodium album	1	sclereids (from bark)	2
Chrysanthemum segetum (af)	1	wood fgts	2 v dec, max 10
Coronopus squamatus (fr)	1		mm

		D ()	1
1 147	1	Potamogeton sp(p).	1
beetles	l 1 20	Ranunculus Section Ranunculus	1
8	1 max 30 mm	Ranunculus Subgenus Batrachium	1
	1 max 15 mm	Rumex sp(p). (inc per)	1
Calluna vulgaris (chfls)	1	Sagittaria sagittifolia	1
	1	Scirpus maritimus/lacustris	1
	1	Scleranthus annuus	1
	1	Sonchus as per	1
8 (8)	1	Stellaria media	1
	1	twig fgts	1 max length 30
charcoal	1 max 20 mm		mm by 10 mm
charred herbaceous detritus	1		width/diameter
charred rhizome/root fgts	1	Urtica urens	1
Coronopus squamatus (fr)	1	wood chips	1 max 5 mm
Corylus avellana	1 max 15 mm		
fish bone	1 max 5 mm		
Juncus inflexus/effusus/conglomeratus	1	Context 1012, Sample 56 (T1)	
_	1		
-	1	bark fgts	3 max 20 mm
	1	charcoal	3 max 15 mm
Triticum sp(p). (hexaploid)	1	sclereids (from bark)	3 max 2 mm
	1	Anthemis cotula	2
(Tela sp(p).	•	Atriplex sp(p).	2
		beetles	2
Context 41, Sample 4141 (BS)		bone fgts	2 max 50 mm
Context 41, Sample 4141 (BS)		cf. Avena sp(p). (glumes)	2 11100 30 111111
1 - 1 6 4	1 1 10		2 max 15
bark fgts	1 v dec, max 10	cf. Calluna vulgaris (ch rt-tw fgts)	2 max 15 2
	mm	Chenopodium album	-
8	1 max 40 mm	gravel	2 max 30 mm
mammal bone	1 max dim 130	grit	2
	mm	Polygonum aviculare agg.	2
, .	1 max 30 mm	sand	2
wood fgts	1 v dec, max 10	'pinched' stems (ch)	1
	mm	?burnt peat/mor humus	1 max 5 mm
		?daub	1 max 15 mm
		Avena sativa (spklts/fgts)	1
Context 1003, Sample 1003 (BS)		Brassica cf. rapa	1
-		brick/tile	1 max 15 mm
Alisma sp(p).	1 'embryos' only	burnt bone fgts	1 max 20 mm
	1	Calluma vulgaris (ch caps)	1
	1	Calluna vulgaris (ch sht fgts)	1
	1 max 40 mm	Calluma vulgaris (sht tips)	1
Ceratophyllum demersum	1	Carex sp(p).	1
	1	Cenococcum (sclerotia)	1
1 2	1	cf. Avena sp(p). (spklts/fgts)	1
	1 max dim 110	cf. Calluna vulgaris (rt-tw fgts)	1 max 10
Cooles	mm	cf. Cladium mariscus (ch lf fgts)	1
fish scale	1	cf. Marrubium vulgare	1
	1	cf. Secale cereale	1
	1	charred herbaceous detritus	1
9	=	charred rhizome/root fgts	1
freshwater snails	1	cinders	1 max 10 mm
Gramineae	I 1	Corylus avellana	1
herbaceous detritus	1	Daphnia (ephippia)	1
Linumusitatissimum(caps fgts)	l •	fish bone	1 max 10 mm
Nuphar lutea	1	fly puparia	1 11147 10 111111
Oenanthe aquatica	1		<u>1</u> 1
percid scale	1	Gramineae/Cerealia (ch c/n)	1
Polygonum aviculare agg.	1	Heterodera (cysts)	1
Polygonum lapathifolium	1	Hydrocotyle vulgaris	1

Leguminosae (fls/pet)	1	Context 1024, Sample 73 (T)	
Polygonum persicaria	1	Context 1024, Sample 73 (1)	
Potentilla anserina	1	Bithynia opercula	3
	1 max 40 mm	freshwater mussel shell fgts	2 max 45 mm
Raphanus raphanistrum (pod segs/fgts)		freshwater snails	2
	1	Lemna sp(p).	2
Rumex sp(p).	1	ostracods	2
	1 inc fragments	planorbid snails	2
	1 v dec	Rubus caesius	2
Stellaria media	1	unwashed clay sediment	2
teeth	1	Urtica dioica	2
Torilis japonica	1	Agrostemma githago (sf)	1
Triticum aestivo-compactum	1	Atriplex sp(p).	1
Urtica dioica	1	beetles	1
Urtica urens	1	Brassica sp(p).	1
		brick/tile	1 max 10 mm
		burnt bone fgts	1 max 5 mm
Context 1014, Sample 59 (T1)		caddis larv a cases	1
<u> </u>		Carduus/Cirsium sp(p).	1
bark fgts	2 v dec, max 15	Carex sp(p).	1
	mm	Ceratophyllum demersum	1
charcoal	2 max 15 mm	Ceratophyllum sp(p).	1
sand	2	cf. Acer campestre	1
Urtica dioica	2	cf. Glyœria sp(p).	1
?burnt peat/mor humus	1 max 5 mm	coal	1 max 10 mm
Atriplex sp(p).	1	Conium maculatum	1
Avena sp(p). (spklts/fgts)	1	Coronopus squamatus (fr)	1
beetles	1	Ficus carica	1 a single spec
bone fgts	1 max 30 mm	fish scale	1 max 2 mm
brick/tile	1 max 5 mm	fly puparia	1
Calluna vulgaris (ch fls)	1	Gramineae/Cerealia (ch)	1
Calluna vulgaris (sht fgts)	1	gravel	1 max 25 mm
Carex sp(p).	1	Linum usitatiss imum	1
cf. Avena sp(p). (chaff)	1	Linumusitatissimum(caps fgts)	1
cf. Calluna vulgaris (ch rt-tw fgts)	1 max 10	Lophopus crystallinus	1
cf. Calluna vulgaris (rt-tw fgts)	1 max 5	mammal bone	1 max 40 mm
Chenopodium album	1	Nuphar lutea	1
	1	Oenanthe lachenalii	1
Corylus avellana (ch)	1 max 5 mm	Pisidium sp(p). (valves)	1
daub	1 max 55 mm	Polygonum aviculare agg.	1
fly puparia	1	Polygonum hydropip er	1
gravel	1 max 20 mm	Potamogeton sp(p).	1
Heterodera (cysts)	1	Ranunculus Section Ranunculus	1
Hyoscyamus niger	1	Reseda luteola	1
moss (lfless stems)	1	Rumex sp(p). (inc per)	1
Polygonum hydropip er	1	Sambucus nigra	1 inc fragments
Potentilla anserina	1	sand	1
Potentilla cf. erecta	1	Scirpus lacustris sl	1
Potentilla cf. reptans (ch)	1	Sonchus as per	1 20
Raphanus raphanistrum (pod segs/fgts)		twig fgts	1 max 20 mm
root bark/epidermis fgts	1	Urtica urens	1 7
Rumex sp(p).	1	wood fgts	1 max 5 mm
	1 inc fragments		
	1 max 2 mm	C + +1007 C 1 55 (T)	
Urtica urens	1	Context 1027, Sample 75 (T)	
wood fgts	1 v dec, max 15	1 1 0 .	2 1 10
	mm	bark fgts	2 v dec, max 10
		Dolygonym gyigylana	mm
		Polygonum aviculare agg.	2

Polygonum hydropiper 2 Salirs sp(p), (inc. per) 1				
Urtica urens 2 vode, max 10 mm 7 vood chips 4 vdec, max 10 mm 7 vood chips 8 l max 20 mm 8 vood figs	Polygonum hydropiper	2		1
Urtica urens 2 v dec, max 10 mm Sombueux nigra	sand	2		1
wood clipts	Urtica dioica	2		1
	Urtica urens	2		1
New odu chips	wood fgts	2 v dec, max 10		1
Agrosterma githago (sf)		mm	Solanum nigrum	1
Anthemis cotula Antirichia curripendula Brassica rapa (sf) Brassica sp.Sinapis arvensis Brassica sp.S	?wood chips	1		1
Antitrichia cutripendula	Agrostemma githago (sf)	1	Stellaria media	1
Done gts	Anthemis cotula	1		
Brassica rapa (sf) 1 max 25 mm Polygonum aviculare agg. 3 caddis larva cases 1 Anthemis cotula 2 Callum vulgaris (fk) 1 cf. Calluna vulgaris (ch r1-tw fgts) 2 Carduus/Cirsum sp(p). 1 charcoal 2 Carex sp(p). 1 gri 2 Carex sp(p). 1 wood fgts 2 Charcoal 1 max 5 mm Stellaria media 2 Cladium mariscus 1 Urtica dioica 2 Coronopus squamatus (ff) 1 wood fgts 2 v dec, max 10 Corjus avellana 1 max 5 mm mm mm Cristatralia (stabblasts) 1 Atriplex sp(p). 1 dicot stem fgs 1 Avena sp(p). 1 dicot stem fgs 1 max 10 mm freshwater snasis 1 max 10 mm freshwater snasis 1 max 10 mm freshwater snais 1 max 10 mm gravel 1	Antitrichia curtipendula	1		
brick/file I max 25 mm Polygonum aviculare agg. 3 caddis larva cases 1 Anthemis cotula 2 Callum vulgaris (fk) 1 cf. Calluna vulgaris (chrl-tw fgts) 2 Carex sp(p). 1 sand 2 cf. Calluna vulgaris (rt-tw fgts) 1 sand 2 cf. Calluna vulgaris (rt-tw fgts) 1 sand 2 charcoal 1 max 5 mm Stellaria media 2 Cladium mariscus 1 max 5 mm Stellaria media 2 Coronopus squamatus (fr) 1 wood fgts 2 v dee, max 10 mm Corjus avellana 1 max 5 mm	bone fgts	1 max 20 mm	Context 1029, Sample 79 (T)	
caddis larva cases 1 Anthemis cotula 2 Callum vulgaris (fk) 1 cf. Calluna wlgaris (ch rt-lw fgts) 2 Carduus (Cistum sptp.) 1 charcoal 2 Carca sp(p). 1 grit 2 charcoal 1 max 5 mm Stellaria media 2 Charcoal 1 max 5 mm Stellaria media 2 Coronopus squamatus (fr) 1 wood fgts 2 v dec, max 10 Corytus avellana 1 max 5 mm mm mm mm Cristatella (stabbalss) 1 Atriplex sp(p). 1 dicct ffgts 1 dectles 1 dectles 1 dectles 1 dectles 1 dectles 1 dectles 1 max 60 mm mm mm mm 1 dectles 1 max 60 mm mm mm 1 dectles 1 max 60 mm mm mmx 60 mm mm mmx 60 mm mmx 60 mm mmx 10 mm mmx 10 mm mmx 10 mm <td>Brassica rapa (sf)</td> <td>1</td> <td></td> <td></td>	Brassica rapa (sf)	1		
Calluna vulgaris (fs) 1 ef. Calluna vulgaris (ch rt-w fgts) 2 Carduus/Cirsium sp(p). 1 charcoal 2 c. Carex sp(p). 1 grit 2 c. Calluna wulgaris (rt-tw fgts) 1 sand 2 c. Carduna wulgaris (rt-tw fgts) 1 max 5 mm Stellaris media 2 Cladium mariscus 1 wood fgts 2 v dec, max 10 Coronopus squamatus (fr) 1 max 5 mm mooffgts 2 v dec, max 10 Corylus avellana 1 max 5 mm Atriplex sp(p). 1 mm Cristatella (stabblasts) 1 Avena sp(p). 1 mm dicot stem fgs 1 Avena sp(p). 1 mm dicot stem fgs 1 max 10 mm bone fgts 1 max 60 mm freshwater masel shell fgs 1 max 30 mm Brassica sp./Sinapis arvensis 1 max 10 mm freshwater masel shell fgs 1 max 25 mm Calluma vulgaris (ch fls) 1 max 10 mm <t< td=""><td>brick/tile</td><td>1 max 25 mm</td><td>Polygonum aviculare agg.</td><td>3</td></t<>	brick/tile	1 max 25 mm	Polygonum aviculare agg.	3
Cardus/Cirsium sp(p). 1 charcoal 2 max 10 mm Carex sp(p). 1 grit 2 c, Calluna vulgaris (rt-tw fgts) 1 max 5 mm Stellaria media 2 charcoal 1 max 5 mm Stellaria media 2 Coronopus squamatus (fr) 1 max 5 mm mm Corylus avellana 1 max 5 mm mm Cristatella (stabblasts) 1 max 10 mm mm dicot 1f fgts 1 dicot 1f fgts 1 dicot 1f fgts 1 dicot 1f fgts dicot stem fgts 1 max 10 mm beetles 1 max 60 mm freshwater massel shell fgs 1 max 30 mm Brassica sp/Sinapis arvensis 1 max 10 mm freshwater snails 1 max 25 mm Callum vulgaris (ch fls) 1 max 10 mm gravel 1 max 25 mm Callum vulgaris (ch fls) 1 max 10 mm Honsalothecium sericeum/lutescens 1 Capse lab bursa-pastoris 1 max 10 mm Hyoscyamus niger 1 Capse lab bursa-pastoris 1 Hyospotoeris sp(p). 1 Carex sp(p). 1 Juncus bufonius	caddis larva cases	1	Anthemis cotula	2
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cf. Calluna vulgaris (rt-tw fgts) 1 sand 2 charcoal 1 Urtica dioica 2 Cladium mariscus 1 Urtica dioica 2 Coronopus squamatus (fr) 1 wood fgts 2 v dec, max 10 Corylus avellana 1 max 5 mm mm mm Cristatella (stabollasts) 1 Atriplex sp(p). 1 dicol 1f fgts 1 deceles 1 dicol 1f fgts 1 deceles 1 max 60 mm deceles 1 max 10 mm deceles 1 max 60 mm deceles 1 max 10 mm deceles 1 max 60 mm deceles 1 max 10 mm	Carduus/Cirsium sp(p).	1	charcoal	2 max 10 mm
charcoal 1 max 5 mm Stellaria media 2 Cladium mariscus 1 wood fgts 2 v dec, max 10 Coronopus squamatus (ff) 1 max 5 mm mm Corylus avellana 1 max 5 mm mm Cristatella (statoblasts) 1 Avena sp(p) 1 dicot stem fgs 1 max 10 mm beetles 1 fish bone 1 max 10 mm Brassica sp./Sinapis arvensis 1 freshwater mussel shell fgs 1 max 30 mm Brassica sp./Sinapis arvensis 1 freshwater snails 1 max 25 mm bount bone fgts 1 max 10 mm freshwater snails 1 max 25 mm Calluma vulgaris (chifts) 1 max 10 mm freshwater snails 1 max 25 mm Calluma vulgaris (chifts) 1 max 10 mm Hysocyamus niger 1 Carex sp(p). (ch) 1 anx 10 mm Hysocyamus niger 1 Carex sp(p). (ch) 1 carex sp(p). (ch) 1		1	grit	2
Cladium mariscus	cf. Calluna vulgaris (rt-tw fgts)	1	sand	2
Coronopus squamatus (fr)	charcoal	1 max 5 mm	Stellaria media	2
Corylus avellana 1 max 5 mm	Cladium mariscus	1	Urtica dioica	2
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freshwater snails gravel	fish bone	1 max 10 mm	bone fgts	1 max 60 mm
gravel 1 max 25 mm	freshwater mussel shell fgts	1 max 30 mm	Brassica sp./Sinapis arvensis	1
Homalothecium sericeum/lutescens Calluma vulgaris (ch sht fgts) I Hyoscyamus niger 1 Capsella bursa-pastoris 1 Hypochoeris sp(p) 1 Carex sp(p) 1 Lapsana communis 1 Cerealia indet. (chaff) 1 Leguminosae (fls/pet) 1 Charred moss 1 Linum usitatissimum 1 inc ftagments Chenopodium album 1 Linum usitatissimum (caps fgts) 1 Choropodium polyspermum 1 Malus sylvestris 1 Coronopus squamatus (fr) 1 Malva cf. sylvestris 1 Corylus avellana 1 max 10 mm Marrubium vulgare 1 fish bone 1 max 5 mm Menyanthes trifoliata 1 Gramineae 1 Myriophyllum verticillatum/spicatum 1 Hydrocotyle vulgaris 1 Nuphar lutea 1 Lamium Section Lamiopsis 1 Nuphar lutea 1 Hydrocotyle vulgaris 1 Nuphar lutea 1 Potentilla anserina 1 Polygonum amphibium 1 Potentilla anserina 1 Polygonum amphibium 1 Potentilla anserina 1 Polygonum lapathifolium 1 Potentilla anserina 1 Potentilla cf. erecta 1 Rubus fruticosus agg. 1 Potentilla cf. erecta 1 Rubus fruticosus agg. 1 Potentilla cf. erecta 1 Rubus fruticosus agg. 1 Potentilla vulgaris 1 Sambucus nigra 1 Ranunculus Sardous 1 Silene cf. vulgaris 1 Ranunculus Sardous 1 Silene cf. vulgaris 1 Ranunculus Subgenus Batrachium 1 Urtica urens 1 Rorippa palustris 1 Veronica beccabunga-type 1		1		1 max 10 mm
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Rorippa palustris 1 Veronica beccabunga-type 1		1		-
		1		
			, cronou occurringa-type	•

C + +1020 C - 1 00 (T1)		Sambucus nigra	inc fragments
Context 1029, Sample 80 (T1)		Silene vulgaris	-
?burnt peat/mor humus	2 max 5 mm	Stellaria media	
-	2 111111	stones	max 55 mm
	2 max 20	teeth	max 30 mm
	2 max 20 mm	Triticum aestivo-compactum	l
	2	twig fgts	max 25 mm
	2	Urtica urens	l
	2 max 2 mm	woodfgts	v dec, max 20
,	2		mm
	1 max 10 mm		
	1 fragment(s) only		
	1 a single spec	Context 1031, Sample 84 (T)	
	1		
	1 max 20 mm	bark fgts	v dec, max 20
_	1	-	mm
	1 max 25 mm	Polygonum aviculare agg.	2
Brassica rapa	1		2
•	1 max 25 mm		2
	1 max 2 mm		2
	1	· · · · · · · · · · · · · · · · · · ·	2
Callura vulgaris (ch fls)	1	Urtica urens	2
	1	?arthropod frass	I
	1	•	l max 30 mm
	1	Aethusa cynapium	1
S ()	1		1
	1	-	1
	1		1
	1 a single spec		1 max 20 mm
	1 max 10	T.	1 max 10 mm
	1 a single fgt		1 max 10 mm
	1 a single fgt		1
	1 a single spec	- · · · · · · · · · · · · · · · · · · ·	1
S	1 a single spec		1
	1	:	1
	1		1
-	1		1
•	1		1 max 15 mm
- · · · · · · · · · · · · · · · · · · ·	1 max 5 mm	Chenopodium album	1
	1 max 5 mm	•	1 v dec, max 10
	1 max 5 mm	•	1
	1		1
· ,	1 max 25 mm		1 max 5 mm
grit	1		1
- -	1		1
Hordeum sp(p). (inc spr)	<u>.</u> 1		1
	1 a single spec	grit	1
Lamium Section Lamiopsis	1		1
	1 max 2 mm		1
Marrubium vulgare	1	Potentilla anserina	1
	1 fragment(s) only	Potentilla cf. erecta	1
Polygonum hydropip er	1		1
	1	Raphanus raphanistrum (pod segs/fgts)	1
	1 v dec		1
Potentilla cf. erecta (ch)	1		1
Raphanus raphanistrum (pod segs/fgts)	<u>.</u> 1		1
	1	Umbelliferae	1
root/rhizome fots (ch)			-
root/rhizome fgts (ch) Rubus fruticos us agg.	1		1 max 5 mm

Context 1031, Sample 1031 (BS)			1
			1 a single fgt
bark fgts	1 v dec, max 10 mm	bark fgts	1 v dec, max 10 mm
brick/tile	1 max 5 mm	beetles	1
burnt bone fgts	1 max 15 mm	bone fgts	1 max 10 mm
charcoal	1 max 10 mm	brick/tile	1 max 5 mm
gravel	1 max 30 mm	Calluna vulgaris (sht fgts)	1
mammal bone	1 max 60 mm	cf. Calluna vulgaris (rt-tw fgts)	1 v dec, um 10 mn
manimar conc	1 max oo min		1 max 15 mm
		Chenopodium album	1
C		-	1
Context 1033, Sample 68 (T)			1
	_	• • •	1 v dec
sand	3		1 max 25 mm
bark fgts	2 v dec, max 25	8	1 max 23 mm 1
	mm	` • *	1
charcoal	2 max 40 mm		_
gravel	2 max 25 mm	1 cremuna en repueno	1
grit	2		1
sclereids (from bark)	2		1
Urtica dioica	2	reamen sp(p).	1
Aethusa cynapium	1	Sambucus nigra	1 inc fragments
Atriplex sp(p).	1	sclereids (from bark)	1 max 1 mm
	1	Umbelliferae	1
beetles	•	wood fgts	1 v dec, max 15
bone fgts	1 max 15 mm		mm
Brassica sp./Sinapis arvensis	I		
brick/tile	1 max 10 mm	Context 1039, Sample 90 (T)	
Carex $sp(p)$.	1	Context 1039, Sample 90 (1)	
cf. Calluna vulgaris (ch rt-tw fgts)	1	1 1 2	
cf. Calluna vulgaris (rt-tw fgts)	1	bark fgts	3 v dec, max 20
Chenopodium album	1		mm
Corylus avellana	1 v dec, max 10	(-1-8-)	2
fish bone	1 max 5 mm	Agrostemma githago (sf)	1
oyster shell fgts	1 max 15 mm	Anthemis cotula	1
Ranunculus sardous	1	Atriplex sp(p).	1
Rumex sp(p).	1	beetles	1
Sambucus nigra	1	bone fgts	1 max 20 mm
Stachys sp(p).	1	Brassica sp./Sinapis arvensis	1
	=	burnt bone fgts	1 max 40 mm
woodfgts	1 v dec, max 10	Carex sp(p).	1
	mm	charcoal	1 max 10 mm
		fish bone	1 max 5 mm
			1 IIIAA J IIIIII 1
Context 1033, Sample 1033 (BS)		fly puparia	1 may 10
		gravel	1 max 10 mm
bark fgts	1 max 10 mm	Potentilla anserina	1
bird bone	1	Ranunculus Section Ranunculus	1
charcoal	1 max 35 mm	Raphanus raphanistrum (pod segs/fgts)	
gravel	1 max 80 mm	Rubus fruticos us agg.	1
mammal bone	1 max dim 120	Rumex $sp(p)$.	1
manniai oone	mm	Sambucus nigra	1
nottory		sand	1
pottery	1 max 50 mm	Urtica dioica	1
		Urtica urens	1
		woodfgts	1 v dec, max 10
Context 1038, Sample 89 (T1)		,, 3041515	mm
			111111
sand	2	C + +1020 C +1 00 (T1)	
Urtica dioica	2	Context 1039, Sample 90 (T1)	
?pottery	1 max 15 mm		
		bark fgts	4 max 35 mm
Alisma sp(p).	1 'embryos' only	Dark Igis	4 max 35 m

sclereids (from bark)	3 mostly <1 mm	Context 1039, Sample 1039 (BS)	
Atriplex sp(p).	2	Context 1035, Sample 1035 (BS)	
beetles	2	bark fgts	2 v dec, max
cf. Calluna vulgaris (ch rt-tw fgts)	2 max 15	our 150	80mm
Chenopodium album	2	gravel	1 max 30 mm
fly puparia	2 v dec	mammal bone	1 max 60 mm
Potentilla anserina	2	wood fgts	1 v dec, max
Raphanus raphanistrum (pod segs/fgts)	2 nt(s) only		80mm
Rubus fruticos us agg.	2		
Sambucus nigra	2 inc fragments		
Urtica dioica	2	Context 1047, Sample 95 (T)	
Urtica urens	2	r ()	_
?charred bread	1 max 10 mm	sand	2
Aethusa cynapium	1 v dec	Agrostemma githago (sf)	1
Agrostemma githago (sf)	1	Anthemis cotula	1
Bilderdykia convolvulus (ff)	1	Atriplex sp(p).	1
bone fgts	1 max 80 mm	Avena cf. sativa (spklts/fgts)	1
Brassica rapa	1	bark fgts	1 v dec, max 5 mm
Brassica sp./Sinapis arvensis	1	Bilderdykia convolvulus (ff)	1
brick/tile	1 max 10 mm	Brassica rapa (sf)	1
Bromus $sp(p)$.	1	Brassica sp./Sinapis arvensis (sf)	1
burnt bone fgts	1 max 10 mm	Carduus/Cirsium sp(p).	1
burnt fish bone	1 max 5 mm	Centaurea sp(p). (af)	1
Calluma vulgaris (ch sht fgts)	1	Cerealia indet.	1 a single spec
Carex $sp(p)$.	1	cf. Calluna vulgaris (ch rt-tw fgts)	1
Cenococcum (sclerotia)	1 max 1 mm	charcoal	1 max 5 mm
cf. Avena sp(p).	1	Chenopodium album	1
cf. Calluna vulgaris (rt-tw fgts)	1 max 15	Chenopodium Section Pseudoblitum	1
cf. Hordeum sp(p).	1 a single spec	coal	1
charcoal	1 max 10 mm	Coronopus squamatus (fr)	1
Corylus avellana	1	Corylus avellana	1 max 5 mm
earthworm egg caps	1	Eleocharis palustris sl	1
eggshell membrane fgts	1	gravel	1 max 60 mm
Euphorbia helioscopia	1	Heterodera (cysts)	1
fish bone	1 max 5 mm	Hyoscyamus niger	1
Gramineae	1	Polygonum aviculare agg.	1
Gramineae/Cerealia (ch c/n)	1	Polygonum hydropip er	1
gravel	1 max 40 mm	Polygonum persicaria	1
grit	l	Potentilla sp(p).	1
herbaceous detritus (ch)	1	Ranunculus sceleratus	1
Lapsana communis	1	Rumex $sp(p)$.	1
leather fgts	1 v dec, max 5 mm	Sambucus nigra (sf)	1
Linum usitatiss imum	1 v dec	Silene vulgaris	1
Linumusitatissimum (caps fgts)	1	Sphagnum sp(p). (lvs)	1
moss (contaminant)	1	Stellaria media	1
Polygonum lapathifolium	1	teeth	1
Prunus spinosa	1	Urtica dioica	1
Ranunculus Section Ranunculus	1	vivianite	1
root/rhizome fgts (ch)	1		
Rubus caesius	1		
Rumex sp(p). sand	1	Context 1047, Sample 1047 (BS)	
	1		
Scirpus maritimus	1	brick/tile	1 max 25 mm
teeth Thalictrum flavum	1	cobbles	1 max dim 150
unwashed sediment	1 max 5 mm		mm
Valerianella dentata	1 max 3 mm	gravel	1
Viola sp(p).	1 fragment(s) only	mammal bone	1 max 40 mm
wood fgts	1 max 90 mm		
5541515	. 111111/1/111111		

Context 1052, Sample 11 (T)		Polygonum lapathifolium	1
		Ranunculus flammula	1
bark fgts	3 v dec, max 55	Rumex sp(p). (inc per)	1
	mm	Sambucus nigra	1
sclereids (from bark)	2	Spergula arvensis	1
Urtica dioica	2	Stellaria media	1
'ash beads'	1	Triticum sp(p).	1
?burnt peat fgts	1	Triticum/Secale ('bran' fgts)	1
Atriplex sp(p).	1	Urtica dioica	1
Atropa bella-donna	1	Urtica urens	1
Brassica rapa (sf)	1	woodfgts	1 max 10 mm
Brassica sp./Sinapis arvensis	1		
brick/tile	1 max 5 mm		
Calluna vulgaris (caps)	1	Context 2004, Sample 132 (SPT)	
Callura vulgaris (chsht fgts)	1	•	
Calluna vulgaris (sht tips)	1	Linumusitatissimum(stem/epid fgts)	3
Carex sp(p).	1	(**********************************	
cf. Avena sp(p). (chaff)	1		
	1	Context 2005, Sample 136 (SPT)	
cf. Calluna vulgaris (ch rt-tw fgts)	1 max 15 mm	Context 2005, Sample 136 (SP1)	
charcoal			
charred rhizome/root fgts	1	Linumusitatissimum(stem/epid fgts)	3
Chenopodium album	1	Linum usitatissimum (caps fgts)	1
Conium maculatum (mf)	1		
Corylus avellana	1 max 10 mm		
Corylus avellana (ch)	1 max 10 mm	Context 2005, Sample 137 (SPT)	
fish bone	1		
gravel	1 max 15 mm	Linum usitatissimum (stem/epid fgts)	3
Polygonum aviculare agg.	1	(1 5)	
Potentilla cf. erecta	1		
pottery	1 max 30 mm	Context 2005, Sample 138 (T1)	
root/rootlet fgts	1	Context 2003, Sumple 130 (11)	
sand	1	gravel	3
		sand	3
		Anthemis cotula	2
Context 1052, Sample 1052 (BS)			2
		Carex sp(p).	
bark fgts	1 v dec	charcoal	2 max 20 mm
brick/tile	1 max 5 mm	herbaceous detritus	2
gravel	1 max 20 mm	Juncus bufonius	2
mammal bone	1 max 80 mm	Ranunculus sceleratus	2
mammar bone	1 Illax ou Illili	Ranunculus Section Ranunculus	2
		Reseda luteola	2 inc fragments
G + + 2002 G - 1 147 (CDT)		Urtica dioica	2
Context 2003, Sample 147 (SPT)		wood fgts	2 max 50 mm
		Agrostemma githago (sf)	1
Linum usitatissimum (stem/epid fgts)	2	Alisma sp(p).	1
sand	2	Anagallis arvensis	1
Agrostemma githago (sf)	1	Antitrichia curtipendula	1
Arctium $sp(p)$.	1	Arctium sp(p).	1
bone fgts	1 max 5 mm	Atriplex $sp(p)$.	1
burnt bone fgts	1 max 5 mm	Aulacomnium palustre	1
cf. Calluna vulgaris (ch rt-tw fgts)	1	bark fgts	1 max 25 mm
gravel	1 max 5 mm	Bilderdykia convolvulus (ff)	1
Homalothecium sericeum/lutescens	1	bone fgts	1 max 50 mm
Leucodon sciuroides	1	Brassica rapa	1 11100 30 111111
Linum usitatiss imum	1	brick/tile	1 max 50 mm
Linum usitatissimum (caps fgts)	1		
	1	burnt bone fgts	
Linum usitatissimum(sf)	-	caddis larva cases	1
Marrubium vulgare	1	Calliergon cf. giganteum	1
Polygonum hydropip er	1	Calliergon cuspidatum	1

Callum vulgaris (caps)				
Callum valgaris (sht fgts) 1 Camefina sariva (pods) 1 Campylium stellatum 1 Capsella bursa-pastoris 1 Capsella bursa-pastoris 1 Capsella bursa-pastoris 1 Carduus*Cirskim sp(p). 1 Ceredia indet. 2 Ceredia indet. 1 Ceredia indet. 1 Ceredia indet. 2 Ceredia indet. 3 Ceredia indet. 3 Ceredia indet. 4 Ceredia indet.		1		1
Campyliam stellatum 1		1		1
Campy him stellatum		1		-
Capsella bursa-pastoris 1		1		l
Inc many		1		1
Centaurea sp(p). (at)		1		l
Centalia indet.	Carduus/Cirsium sp(p).	1 inc many		1
Ceretala indet.		fragments		1
cf. Avena sp(p) 1 Potentilla cf. repta ns 1 cf. Calluna vulgaris (rt-tw fgts) 1 max 10 pottery 1 max 30 mm cf. Calluna vulgaris (rt-tw fgts) 1 max 25 Prunella vulgaris 1 1 1 2 cf. Diphasium complanatum 1 2 cf. Diphasium complanatum 1 2 cf. Diphasium complanatum (stem fgts) 1 2 cf. Diphasium complanatum (stem fgts) 1 2 cf. Silybum marianum 1 2 Quercus sp(p). (wood) 1 max 50 mm 1 Chenopodium album 1 Chenopodium album 1 Ranunculus sladenus Batrachium 1 Chenopodium album 1 Ranunculus Subgenus Batrachium 1 Ranunculus Subgenus Batrachium 1 Chenopodium album 1 Ranunculus Subgenus Batrachium 1 Ranunculus Subgenus Batrachium 1 Corsinate Subgerus Batrachium 1 Ranunculus Subgenus Bat		1		1
cf. Calluna vulgaris (ch rt-tw fgts) 1 max 25 Prunella vulgaris 1 max 30 mm cf. Calluna vulgaris (nt-tw fgts) 1 max 25 Prunella vulgaris 1 cf. Liphasium complanatum 1 Prunus Section Cerasus 1 cf. Limum usitatissimum (stem fgts) 1 Pesudoseleropodium purum 1 cf. Silybum marianum 1 Quercus sp(p), (wbos) 1 Chenopodium album 1 Quercus sp(p), (wood) 1 max 50 mm Chenopodium murale 1 Ranunculus flammula 1 Chrosopham murale 1 Ranunculus flammula 1 Corioum aculatum (mf) 1 Ranunculus Subgenus Batrachium 1 Corion se squamatus (ff) 1 Raphamis raphanistrum (pod segs/fgts) 1 Coronopus squamatus (ff) 1 Raphamis raphanistrum (pod segs/fgts) 1 Ciristatella (statoblasts) 1 Rubus sp(p). 1 Daphnia (ephippia) 1 Rubus sp(p). 1 1 Dicranum (f. stos) 1 Rubus sp(p). 1 1 1 1 <t< td=""><td>Cerealia indet.</td><td>1</td><td></td><td>1</td></t<>	Cerealia indet.	1		1
cf. Calluna vulgaris (rt-tw fgts)	cf. Avena sp(p).	1	-	1
ef. Diphasium complianatum 1 Prunus Section Cerasus 1 cf. Linum usitatissimum (stem fgts) 1 Pseudoscleropodium purum 1 cf. Silybum marianum 1 Quercus sp(p). (b/bs) 1 Chenopodium album 1 Quercus sp(p). (b/bs) 1 Chenopodium murale 1 Ranunculus samulus 1 Chrysanthemum segetum 1 Ranunculus Subgenus Batrachium 1 Corista valum (mf) 1 Raphanus raphanistrum (pod segs/fgts) 1 Corista valum (mf) 1 Raphanus raphanistrum (pod segs/fgts) 1 Coronopus squamatus (fr) 1 Rabyanus raphanistrum (pod segs/fgts) 1 Coronopus squamatus (fr) 1 Rosa sp(p). 1 Corosus (altantia (ephippia) 1 Rosa sp(p). 1 Daphnia (ephippia) 1 Rubus sp(p). 1 fragment(s) only Discranum cf. scoparium 1 Rumex acetosella agg. 1 fragment(s) only Discrative / full (fragment) 1 Rumex acetosella agg. 1 nutlets and	cf. Calluna vulgaris (ch rt-tw fgts)	1 max 10	1 2	1 max 30 mm
cf. Linum usitatissimum (stem figts) I Pseudoscleropodium purum 1 cf. Silybum marianum 1 Quercus sp(p). (wood) 1 Chenopodium murale 1 Ranunculus flammula 1 Chenopodium murale 1 Ranunculus sardous 1 Chenopodium murale 1 Ranunculus sardous 1 Corl 1 Ranunculus Subgenus Batrachium 1 Conioum sequamatus (fr) 1 Raphanus raphanistrum (pod segs/figts) 1 Coronopus squamatus (fr) 1 Raphanid (addelphus sp(p) 1 Corylus avellana 1 Rosa sp(p) 1 Cristatella (statoblasts) 1 Rosa sp(p) 1 Dalouts carota 1 Ruba sp(p) 1 Daucus carota 1 Rumex sp(p) 1 Dispasau sativus/fulloum (fi fgts) 1 Rumex partitus 1 earthworm egg caps 1 Rumex sp(p) 1 nutlets and perianth segs both present face priso tracum 1 max 10 mm Salix sp(p). (b) 1 nutlets and perianth segs b	cf. Calluna vulgaris (rt-tw fgts)	1 max 25	Prunella vulgaris	1
ef. Silybum marianum 1 Quercus sp(p). (b/bs) 1 Chenopodium ablum 1 Quercus sp(p). (wood) 1 Chenopodium murale 1 Ranunculus flammula 1 Chrysanthemum segetum 1 Ranunculus Subgenus Batrachium 1 Conium acuktum (mf) 1 Raphanus raphanistrum (pod segs/fgts) 1 Corius avellana 1 rot bark/epidermis fgts 1 Cristatela (stabollasts) 1 Rosa sp(p). 1 Daphnia (ephippia) 1 Rubus sp(p). 1 fragment(s) only Dicranum cf. scoparium 1 Rumex acetosella agg. 1 fragment(s) only Dispacus sativus/fulloum (fi fgts) 1 Rumex sep(p). 1 fragment(s) only Dispacus sativus/fulloum (fi fgts) 1 Rumex sep(p). 1 nutlets and Elecoharis palustris sl 1 Rumex sep(p). 1 nutlets and Elecoharis palustris sl 1 Rumex sp(p). 1 nutlets and fish bonale 1 max 10 mm Sagitaria sagitt	cf. Diphasium complanatum	1		1
Chenopodium album 1 Quercus sp(p). (wood) 1 max 50 mm Chenopodium murale 1 Ranunculus flammula 1 Chrysanthemum segetum 1 Ranunculus Sardous 1 Conium maculatum (mf) 1 Ranunculus Subgenus Batrachium 1 Cornonpus squamatus (fr) 1 Rhytidiadelphus sp(p). 1 Corylus avellana 1 root bank/epidermis fgts 1 Cristatella (stabablasts) 1 Rosa sp(p). 1 Daphnia (ephippia) 1 Rubia sinctorum 1 Diacus carota 1 Rubus sp(p). 1 Dicranum ef. scoparium 1 Rumex acetosella agg. 1 Dipsacus sativus/fullonum (fr fgts) 1 Rumex sep(p). 1 nutlets and perianth segs both present but sard to max 10 mm Sagitaria sagittifolia 1 nutlets and perianth segs both present but says perianth segs both present segs and large. 1 nutlets and perianth segs both present segs perianth segs subgenus Galeopsis and perianth segs subgenus Galeopsis 1 nutlets and perianth segs segs both perianth segs subgenus Galeopsis 1 nutlets and perianth segs segs but pe	cf. Linum usitatissimum (stem fgts)	1	Pseudoscleropodium purum	1
Chrysunthernum segetum 1	cf. Silybum marianum	1		1
Chrysanthemum segetum 1 max 3 mm Ranunculus sardous 1 Conium maculatum (mf) 1 max 3 mm Ranunculus Subgenus Batrachium 1 Cornium maculatum (mf) 1 Raphanus raphanistrum (pod segs/fgts) 1 Cornopus squamatus (ff) 1 Rhytidiadelphus sp(p), 1 Corylus avellana 1 root bark/epidermis fgts 1 Corstatella (statoblasts) 1 Rosa sp(p). 1 Rubia tinctorum 1 Daphia (ephippia) 1 Rubia tinctorum 1 Rubus sp(p), 1 Fragment(s) only Dicranum cf. scoparium 1 Rubus sp(p), 1 Ifragment(s) only Dicranum cf. scoparium 1 Rumex acetosella agg. 1 Dipsacus sativus/fullnoum (ff fgts) 1 Rumex maritimus 1 Rumex mergicaps 1 Rumex maritimus 1 Rumex mergicaps 1 Rumex maritimus 1 Rumex sp(p). 1 nutlets and perianth segs both present fish scale 1 max 10 mm Sagitaria sagitifolia 1 Freshwater mussel shell fgs 1 max 10 mm Salix sp(p). (fb) 1 Freshwater mussel shell fgs 1 max 15 mm Salix sp(p). (fcf) 1 Homalothecium sericcum/lutescens 1 Salix sp(p). (fcf) 1 Salix sp	Chenopodium album	1	Quercus sp(p). (wood)	1 max 50 mm
coal maculatum (mf) 1 max 3 mm Ranunculus Subgenus Batrachium 1 Raphanus raphanistrum (pod segs/fgts) 1 Corionum aculatum (mf) 1 Raphanus raphanistrum (pod segs/fgts) 1 Raphanus raphanistrum (pod segs/fgts) 1 Rosa sp(p). 1 Corylus avellana 1 Rosa sp(p). 1 Rosa sp(p). 1 Rosa sp(p). 1 Rubia tinctorum 1 Rubia tinctorum 1 Rubia tinctorum 1 Rubia sp(p). 1 Fragment(s) only Dicranum cf. scoparium 1 Rubia sp(p). 1 Rumex acctosella age. 1 Dipsacus sativus/fullonum (fr fgts) 1 Rumex maritimus 1 rearrachium geg caps 1 Rumex sp(p). 1 Rumex sp(p). 1 rundles and perianth segs both present fish scale 1 max 10 mm Salix sp(p). (b) 1 reshwater mussel perios tracum 1 max 10 mm Salix sp(p). (fr) 1 Rubiater mussel sperios tracum 1 max 10 Salix sp(p). (fr) 1 Rubiater mussel sperios tracum 1 max 10 Salix sp(p). (fr) 1 Rubiater mussel sperios tracum 1 max 10 Salix sp(p). (fr) 1 Rubiater mussel sperios tracum 1 max 10 Salix sp(p). (fr) 1 Rubiater mussel sperios tracum 1 max 10 Salix sp(p). (fr) 1 Rubiater mussel sperios tracum 1 max 10 Salix sp(p). (fr) 1 Rubiater mussel sperios tracum 1 max 10 Salix sp(p). (fr) 1 Rubiater mussel sperios tracum 1 Rubiater mussel	Chenopodium murale	1	Ranunculus flammula	1
Conium maculatum (mf)		1	Ranunculus sardous	1
Coronopus squamatus (fr)	coal	1 max 3 mm	Ranunculus Subgenus Batrachium	1
Corylus avellana 1 root bank/epidermis fgts 1 Cristatella (statoblasts) 1 Rosa sp(p). 1 Daphnia (ephippia) 1 Rubia tinctorum 1 Daucus carota 1 Rubia sp(p). 1 fragment(s) only Dicranum cf. scoparium 1 Rumex acetosella agg. 1 Dipsacus sativus/fullonum (fr fgts) 1 Rumex acetosella agg. 1 Dipsacus sativus/fullonum (fr fgts) 1 Rumex aritimus 1 earthworm egg caps 1 Rumex sp(p). 1 nutlets and perianth segs both present fish bone 1 max 3 mm fish bone 1 max 10 mm Sagittaria sagittifolia 1 freshwater mussel perios tracum freshwater mussel shell fgts 1 max 10 mm Salix sp(p). (b) 1 freshwater mussel sperios tracum freshwater mussel seriosemi/futescens 1 Sanbucus nigra 1 inc fragments Hylocomium splendens 1 Sambucus nigra 1 inc fragments Hylocomium splendens 1 Scirpus maritimus/lacustris (ch) 1 scirpus maritimus/lacustris (ch) 1 scorpus maritimus/lacustris (ch) 1 scorpus maritimus/lacustris (ff) 1 scorpus saper 1 Scorpidium scorpioides 1 lisothecium myurum 1 Sonchus asper 1 Rusutia arvensis (ff) 1 max 5 mm Sparganium sp(p). 1 Leucobryum glaucum 1 max 5 mm Sparganium sp(p). 1 Leucobryum glaucum 1 Spergula arvensis 1 Leucobryum glaucum 1 Spergula arvensis 1 Leucobryum glaucum 1 Torilis japonica 1 Linum usitatissimum (caps fgs) 1 Ulota sp(p). 1 Luzula sp(p). 1 Luzula sp(p). 1 Luzula sp(p). 1 Iragment(s) only Myrica gale (If fgts) 3 Iragment(s) only Myrica gale (If fgts) 3 Iragment(s)	Conium maculatum (mf)	1	Raphanus raphanistrum (pod segs/fgts)	1
Corylus avellana	Coronopus squamatus (fr)	1	Rhytidiadelphus sp(p).	1
Cristatella (statoblasts) 1 Rosa sp(p). 1 Daphnia (ephippia) 1 Rubia tinctorum 1 Daucus carota 1 Rubus sp(p). 1 fragment(s) only Dicranum cf. scoparium 1 Rumex acetosella agg. 1 nutlets and Dipsacus sativus/fullonum (fi fgts) 1 Rumex sp(p). 1 nutlets and earthworm egg caps 1 Rumex sp(p). 1 nutlets and Eleocharis palustris sl 1 max 10 mm Sagittaria sagittifolia 1 fish bone 1 max 10 mm Salix sp(p). (b) 1 1 fish bone 1 max 10 mm Salix sp(p). (fr) 1		1	root bark/epidermis fgts	1
Daphnia (ephippia) 1 Rubia tinctorum 1 Daucus carota 1 Rubus sp(p). 1 fragment(s) only Dicranum cf. scoparium 1 Rumex acetosella agg. 1 Tule to the carbination of the carbination		1	Rosa sp(p).	1
Daucus carota Dicranum cf. scoparium Dirpanus sativus/fullonum (ff fgts) Dipsacus sativus/fullonum (ff fgts) Dipsacus sativus/fullonum (ff fgts) I Rumex acetosella agg. Rumex maritimus I nutlets and perianth segs Bleccharis palustris sl I max 3 mm Ifish scale I max 10 mm Sagittaria sagittifolia I reshwater mussel perios tracum I max 10 mm Salix sp(p). (fr) I salix sp(p). (fr) I max 15 mm Salix sp(p). (fr) I salix sp(p). (tef) I max 15 mm Salix sp(p). (tef) I max 2 mm Scirpus maritimus/lacustris (ch) I salix sp(p). (tef) I max 2 mm Scirpus maritimus/lacustris (ch) I max 2 mm Scirpus maritimus sp(p). I salivus propiolae I leather fgts I max 5 mm Sparganium sp(p). I sequiniosae (fis/pet) I cucodon sciuroides I max 5 mm Sparganium sp(p). I lucus sp(p). I max 40 mm Myrica gale (fl fgts) Myrica gale (fl fgts) Myrica gale (fl fgts) Myrica gale (fl fgts) I max 40 mm Myrica gale (fl fgts) Nymplaca alba I inc fagment(s) only Nymplaca alba I inc fagments I inc fagments I inc fagments		1	Rubia tinctorum	1
Dicranum cf. scoparium Dipsacus sativus/fullonum (fr fgts) 1 Rumex acetosella agg. 1 Dipsacus sativus/fullonum (fr fgts) 1 Rumex sp(p). 1 nutlets and perianth segs fish bone 1 max 3 mm Sagittaria sagittifolia 1 Freshwater mussel perios tracum 1 max 10 mm Sagittaria sagittifolia 1 Freshwater mussel shell fgts 1 max 10 mm Salix sp(p). (fb) 1 Freshwater mussel shell fgts 1 max 15 mm Salix sp(p). (ftf) 1 Freshwater mussel shell fgts 1 max 15 mm Salix sp(p). (ftf) 1 Freshwater mussel shell fgts 1 max 15 mm Salix sp(p). (ftf) 1 Freshwater mussel shell fgts 1 max 15 mm Salix sp(p). (ftf) 1 Freshwater mussel shell fgts 1 max 15 mm Salix sp(p). (ftf) 1 Freshwater mussel shell fgts 1 max 15 mm Salix sp(p). (ftf) 1 Freshwater mussel shell fgts 1 max 15 mm Salix sp(p). (ftf) 1 Freshwater mussel shell fgts 1 max 15 mm Salix sp(p). (ftf) 1 Freshwater mussel shell fgts 1 max 15 mm Salix sp(p). (ftf) 1 Freshwater mussel shell fgts 1 max 2 mm Freshwater shell fgts 1		1	Rubus sp(p).	1 fragment(s) only
Dipsacus sativus/fullonum (fi fgts) Rumex maritimus nutlets and earthworm egg caps 1 Rumex sp(p). 1 nutlets and Eleocharis palustris sl 1 max 3 mm both present Fish bone 1 max 10 mm Sagittaria sagittifolia 1 Freshwater mussel perios tracum 1 max 15 mm Salix sp(p). (b) 1 Freshwater mussel shell fgts 1 max 15 mm Salix sp(p). (tr) 1 Galeopsis Subgenus Galeopsis 1 Salix sp(p). (tr) 1 Homalothecium sericeum/lutescens 1 Salix sp(p). (tr) 1 Homalothecium sericeum/lutescens 1 Salix sp(p). (tr) 1 Hylocomium splendens 1 Scirpus maritimus/lacustris (ch) 1 Hypoum cf. cupres siforme 1 Scorpidium scorpioides 1 Isothecium myurum 1 Sonchus as per 1 Isothecium myurum 1 Sonchus as per 1 Isothecium myurum 1 Sonchus as per 1 Leguminosae (fls/pet) 1 Spergula arvensis 1 Leguminosae (fls/pet) 1 Spergula arvensis 1 Leucodon sciuroides 1 Thuidium tamariscinum 1 Linum usitatiss imum 1 Torilis japonica 1 Linum usitatissimum (caps fgts) 1 Ulota sp(p). (aps segs) 1 Malus sylvestris (endo) 1 Viola sp(p). (caps segs) 1 Marubium vulgare 1 fragment(s) only wood chips 1 max 40 mm Myrica gale (If fgts) Tampata 1 Myriophyllum verticillatum/spicatum Nyriophyllum verticillatum/spicatum 1 Neckera complanata 1 Context 2006, Sample 214 (T1) Nepta cataria 1 Inc fragment(s) only Sark fgts 3 max 25 mm Nymphaea alba 1 inc fragments Linum usitatiss imum 3 inc many Nymphaea alba 1 inc fragment(s) only Linum usitatiss imum 3 inc many Nymphaea alba 1 inc fragments Linum usitatiss imum 1 1 Linum usitatiss imum 1 inc fragments Linum usitatiss imum 3 inc many	Dicranum cf. scoparium	1		1
earthworm egg caps Eleocharis palustris sl Eleocharis palustris sl Eleocharis palustris sl I max 3 mm In max 10 mm In max		1		1
Eleocharis palustris sl fish bone 1 max 3 mm fish scale 1 max 10 mm fish scale 1 max 10 mm fish scale freshwater mussel perios tracum 1 max 10 Salix sp(p). (b) 1 freshwater mussel shell fgts 1 max 15 mm Salix sp(p). (ter) 1 Homalothecium sericeum/lutescens 1 Salix sp(p). (ter) 1 Homalothecium sericeum/lutescens 1 Salix sp(p). (ter) 1 Homalothecium sericeum/lutescens 1 Salix sp(p). (ter) 1 Hyoscyamus niger 1 Scirpus maritimus/lacustris (ch) 1 max 2 mm Hypnum cf. cupres siforme 1 Scorpidium scorpioides 1 Sconchus as per 1 Sconchus as per 1 Sconchus oleraceus 1 Lequiniosae (fls/pet) 1 Sonchus oleraceus 1 Lequiniosae (fls/pet) 1 Spergula arvensis 1 Stellaria media 1 Leucodon sciuroides 1 Thuidium tamariscinum 1 Torilis japonica 1 Linum usitatiss imum 1 Torilis japonica 1 Linum usitatissimum (caps fgts) 1 Ulota sp(p). 1 Ulota sp(p). 1 Luzula sp(p). 1 Marrubium vulgare 1 Wiola sp(p). (caps segs) 1 max 40 mm Myrica gale (lf fgts) 1 Fragment(s) only 1 Wood chips 1 max 40 mm Neckera complanata Nepeta cataria 1 Nuphar lutea Nymphaea alba 1 inc fragments 1 inc fragments 1 Linum usitatiss imum 1 inc fragments 1 Linum usitatiss imum 2 Inc fragments 1 Linum usitatiss imum 3 inc many 1 fragments		1	Rumex sp(p).	1 nutlets and
fish bone fish scale 1 max 3 mm fish scale 1 max 10 mm Sagittaria sagittifolia 1 freshwater mussel perios tracum 1 max 10 Salix sp(p). (b) 1 freshwater mussel shell fgs 1 max 15 mm Salix sp(p). (tr) 1 Sambucus nigra 1 inc fragments Hylocomium sericeum/lutescens 1 Sambucus nigra 1 inc fragments Hylocomium splendens 1 Scirpus maritimus/lacustris (ch) 1 Hyoscyamus niger 1 Scirpus maritimus/lacustris (ch) 1 max 2 mm Hypnum cf. cupres siforme 1 Scorpidium scorpioides 1 sonchus as per 1 Sonchus as per 1 Sonchus as per 1 Sonchus oleraceus 1 Leather fgts 1 max 5 mm Sparganium sp(p). 1 Leguminosae (fls/pet) 1 Spergula arvensis 1 Leucobryum glaucum 1 Stellaria media 1 Leucodon sciuroides 1 Thuidium tamariscinum 1 Linum usitatiss imum 1 Torilis japonica 1 Luzula sp(p). 1 Ulota sp(p). 1 Luzula sp(p). 1 Ulota sp(p). 1 Luzula sp(p). 1 Urtica urens 1 Malus sylvestris (endo) 1 Viola sp(p). (caps segs) 1 Marrubium vulgare 1 Wyrionsyllum verticillatum/spicatum 1 Sechera complanata 1 Myriophyllum verticillatum/spicatum 1 Context 2006, Sample 214 (TT) Nuphar lutea 1 fragment(s) only Symphaea alba 1 inc fragments 1 Linum usitatiss imum 3 inc many Gnopordum acanthium 1 inc fragments 1 Linum usitatiss imum 3 inc many Gnopordum acanthium 1 inc fragments 1 Linum usitatiss imum 3 inc many Gnopordum acanthium 1 inc fragments		1		perianth segs
freshwater mussel perios tracum freshwater mussel shell figts Galeopsis Subgenus Galeopsis I max 15 mm Salix sp(p). (fr) Salix sp(p). (fr) Salix sp(p). (fr) I Galeopsis Subgenus Galeopsis I Salix sp(p). (fr) Sambucus nigra I inc fragments Hylocomium splendens I Scirpus maritimus/lacustris (ch) I Hyoscyamus niger I Scirpus maritimus/lacustris (ch) I Hyoscyamus niger I Scorpidium scorpioides I Scorpidium scorpioides I Sonchus asper I Sonchus oleraceus I Sonchus oleraceus I Sonchus oleraceus I Leguminosae (fls/pet) I Sparganium sp(p). I Leguminosae (fls/pet) I Spergula arvensis I Leucobryum glaucum I Stellaria media I Leucodon sciuroides I Thuidium tamariscinum I Torilis japonica I Linum usitatissimum I Torilis japonica I Ulota sp(p). I Urtica urens I Malus sylvestris (endo) I Fragment(s) only Myrrica gale (If fgts) I Fragment(s) only Myrrica gale (If fgts) I Fragment(s) only Myriophyllum verticillatum/spicatum Neckera complarata I Fragment(s) only Nymphaea alba I inc fragments I inc fragments I inum usitatissimum I Inum u		1 max 3 mm		both present
freshwater mussel perios tracum freshwater mussel shell figts Galeopsis Subgenus Galeopsis I max 15 mm Salix sp(p). (fr) Salix sp(p). (fr) Salix sp(p). (fr) I Galeopsis Subgenus Galeopsis I Salix sp(p). (fr) Sambucus nigra I inc fragments Hylocomium splendens I Scirpus maritimus/lacustris (ch) I Hyoscyamus niger I Scirpus maritimus/lacustris (ch) I Hyoscyamus niger I Scorpidium scorpioides I Scorpidium scorpioides I Sonchus asper I Sonchus oleraceus I Sonchus oleraceus I Sonchus oleraceus I Leguminosae (fls/pet) I Sparganium sp(p). I Leguminosae (fls/pet) I Spergula arvensis I Leucobryum glaucum I Stellaria media I Leucodon sciuroides I Thuidium tamariscinum I Torilis japonica I Linum usitatissimum I Torilis japonica I Ulota sp(p). I Urtica urens I Malus sylvestris (endo) I Fragment(s) only Myrrica gale (If fgts) I Fragment(s) only Myrrica gale (If fgts) I Fragment(s) only Myriophyllum verticillatum/spicatum Neckera complarata I Fragment(s) only Nymphaea alba I inc fragments I inc fragments I inum usitatissimum I Inum u			Sagittaria sagittifolia	-
freshwater mussel shell fgs	freshwater mussel perios tracum	1 max 10		1
Galeopsis Subgenus Galeopsis 1 Salix sp(p). (tef) 1 Homalothecium sericeum/lutescens 1 Sambucus nigra 1 inc fragments Hylocomium splendens 1 Scirpus maritimus/lacustris (ch) 1 Hyoscyamus niger 1 sclereids (from bark) 1 max 2 mm Hypnum cf. cupres siforme 1 Scorpidium scorpioides 1 Isothecium myurum 1 Sonchus asper 1 Knautia arvensis (ff) 1 Sonchus oleraceus 1 leather fgts 1 max 5 mm Sparganium sp(p). 1 Leguminosae (fls/pet) 1 Spergula arvensis 1 Leucobryum glaucum 1 Stellaria media 1 Leucodon sciuroide 1 Thuidium tamariscinum 1 Linum usitatiss imum 1 Torilis japonica 1 Linum usitatiss imum 1 Torilis japonica 1 Linum usitatissimum(caps fgts) 1 Ulota sp(p). 1 Luzula sp(p). 1 Urtica urens 1 Malus sylvestris (endo) 1 Viola sp(p). (caps segs) 1 Marrubium vulgare 1 Viola sp(p). (caps segs) 1 Marrubium vulgare 1 fragment(s) only wood chips 1 max 40 mm Myrica gale (lf fgts) 1 Myriophyllum verticillatum/spicat um Neckera complanata 1 Fragment(s) only bark fgts 3 max 25 mm Nymphaea alba 1 inc fragments Linum usitatiss imum 3 inc many fragments				1
Homalothecium sericeum/lutescens Hylocomium splendens Hylocomium splendens Hyoseyamus niger I sclereids (from bark) Hypnum cf. cupres siforme I Scorpidium scorpioides I Sonchus as per I Sonchus as per I Sonchus oleraceus I Leather fgts I max 5 mm Sparganium sp(p). I Leguminosae (fls/pet) I Spergula arvensis I Leucobryum glaucum I Leucodon sciuroides I Thuidium tamariscinum I Linum usitatiss imum I Torilis japonica I Luzula sp(p). I Luzula sp(p). I Ulota sp(p). I Luzula sp(p). I Ulota sp(p). I Urica urens I Ulota sp(p). I Urica urens I Marrubium vulgare I Viola sp(p). (caps segs) I Wood chips I max 40 mm Myrica gale (If fgts) I max 40 mm Neckera complanata I regment(s) only Nuphae alba I inc fragments I inc fragments I max 2 mm Scirpus maritimus/lacustris (ch) I max 2 mm Scirpus maritimus/lacustris (ch) I max 2 mm I luctarens I Ulota sp(p). I Ulota sp(p). I Ulota sp(p). I Ulota sp(p). I urica urens I max 40 mm		1		1
Hylocomium splendens 1 Scirpus maritimus/lacustris (ch) 1 Hyoscyamus niger 1 Sclereids (from bark) 1 max 2 mm Hypnum cf. cupres siforme 1 Scorpidium scorpioides 1 Isothecium myurum 1 Sonchus asper 1 Knautia arvensis (ff) 1 Sonchus oleraceus 1 Leather fgts 1 max 5 mm Sparganium sp(p). 1 Leguminosae (fls/pet) 1 Spergula arvensis 1 Leucobryum glaucum 1 Stellaria media 1 Leucodon sciuroides 1 Thuidium tamariscinum 1 Linum usitatiss imum 1 Torilis japonica 1 Linum usitatissimum (caps fgts) 1 Ulota sp(p). 1 Luzula sp(p). 1 Urtica urens 1 Luzula sylvestris (endo) 1 Viola sp(p). (caps segs) 1 Marrubium vulgare 1 vivianite 1 Melophagus ovinus (sheep ked) 1 fragment(s) only Myrica gale (lf fgts) 1 Myrica gale (lf fgts) 1 Myrichyllum verticillatum/spicatum 1 Neckera complanata 1 Nuphar lutea 1 fragment(s) only bark fgts 3 max 25 mm Nymphaea alba 1 inc fragments Linum usitatiss imum 3 inc many Onopordum acanthium 1 inc fragments		1		1 inc fragments
Hyoscyamus niger 1 sclereids (from bark) 1 max 2 mm Hypnum cf. cupres siforme 1 Scorpidium scorpioides 1 Isothecium myurum 1 Sonchus as per 1 Knautia arvensis (ff) 1 Sonchus oleraceus 1 leather fgts 1 max 5 mm Sparganium sp(p). 1 Leguminosae (fls/pet) 1 Spergula arvensis 1 Leucobryum glaucum 1 Stellaria media 1 Leucodon sciuroides 1 Thuidium tamariscinum 1 Linum usitatissimum 1 Torilis japonica 1 Linum usitatissimum 1 Torilis japonica 1 Luzula sp(p). 1 Ulota sp(p). 1 Luzula sp(p). 1 Ulota sp(p). 1 Malus sylvestris (endo) 1 Viola sp(p). (caps segs) 1 Marrubium vulgare 1 Viola sp(p). (caps segs) 1 Marrubium vulgare 1 vivianite 1 Melophagus ovinus (sheep ked) 1 fragment(s) only wood chips 1 max 40 mm Myrica gale (lf fgts) 1 Myriophyllum verticillatum/spicat um Neckera complanata 1 Neckera complanata 1 Nepeta cataria 1 Nuphar lutea 1 fragment(s) only bark fgts 3 max 25 mm Nymphaea alba 1 inc fragments Linum usitatiss imum 3 inc many Onopordum acanthium 1 inc fragments	Hylocomium splendens	1	Scirpus maritimus/lacustris (ch)	1
Hypnum cf. cupres siforme 1 Scorpidium scorpioides 1 Isothecium myurum 1 Sonchus as per 1 I Knautia arvensis (ff) 1 Sonchus as per 1 I Knautia arvensis (ff) 1 Sonchus oleraceus 1 I Eather fgts 1 max 5 mm Sparganium sp(p). 1 Leguminosae (fls/pet) 1 Spergula arvensis 1 Leucobryum glaucum 1 Stellaria media 1 Leucodon sciuroides 1 Thuidium tamariscinum 1 Linum usitatissi mum 1 Torrilis japonica 1 Linum usitatissi mum 1 Torrilis japonica 1 Luzula sp(p). 1 Ulota sp(p). 1 Luzula sp(p). 1 Urtica urens 1 Luzula sp(p). 1 Urtica urens 1 Luzula sp(p) I Urtica urens 1 Linum usitatism vulgare 1 Viola sp(p). (caps segs) 1 Marrubium vulgare 1 Viola sp(p). (caps segs) 1 Marrubium vulgare 1 Vivianite 1 Melophagus ovinus (sheep ked) 1 fragment(s) only wood chips 1 max 40 mm Myrica gale (lf fgts) 1 Myriophyllum verticillatum/spicatum 1 Neckera complanata 1 Context 2006, Sample 214 (T1)		1	sclereids (from bark)	1 max 2 mm
Isothecium myurum Knautia arvensis (ff) leather fgts leather fgts leather fgts leauninosae (fls/pet) Leguminosae (fls/pet) Leucobryum glaucum Leucodon sciuroides linum usitatiss imum Linum usitatiss imum Linum usitatissimum Luzula sp(p). Malus sylvestris (endo) Marrubium vulgare Melophagus ovinus (sheep ked) Myrica gale (lf fgts) Myriophyllum verticillatum/spicat um Neckera complanata Nepeta cataria Nuphar lut ea Nymphaea alba Onopordum acanthium I max 5 mm Sparganium sp(p). Spergula arvensis 1 Spergula arvensis 1 Linum usitatissimum sp(p). 1 Cultica media 1 Torilis japonica 1 Tulidium tamariscinum 1 Torilis japonica 1 Ulota sp(p). Ultrica urens 1 Viola sp(p). (caps segs) 1 Vivianite 1 Vivianite 1 Context 2006, Sample 214 (T1) Nepeta cataria Nuphar lut ea Nymphaea alba 1 inc fragments Linum usitatiss imum 3 inc many fragments		1		1
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leather fgts 1 max 5 mm Sparganium sp(p). 1 Leguminosae (fls/pet) 1 Spergula arvensis 1 Leucobryum glaucum 1 Stellaria media 1 Leucodon sciuroid es 1 Thuidium tamariscinum 1 Linum usitatiss imum 1 Torilis japonica 1 Linum usitatissimum(caps fgts) 1 Ulota sp(p). 1 Luzula sp(p). 1 Urtica urens 1 Malus sylvestris (endo) 1 Viola sp(p). (caps segs) 1 Marrubium vulgare 1 vivianite 1 Melophagus ovinus (sheep ked) 1 fragment(s) only wood chips 1 max 40 mm Myrica gale (If fgts) 1 Myriophyllum verticillatum/spicat um Neckera complanata 1 Nepeta cataria 1 Nuphar lutea 1 fragment(s) only bark fgts 3 max 25 mm Nymphaea alba 1 inc fragments Linum usitatiss imum 3 inc many fragments		1	Sonchus oleraceus	1
Leguminosae (fls/pet)1Spergula arvensis1Leucobryum glaucum1Stellaria media1Leucodon sciuroides1Thuidium tamariscinum1Linum usitatiss imum1Torilis japonica1Linum usitatissimum (caps fgts)1Ulota sp(p).1Luzula sp(p).1Urtica urens1Malus sylvestris (endo)1Viola sp(p). (caps segs)1Marrubium vulgare1vivianite1Melophagus ovinus (sheep ked)1 fragment(s) onlywood chips1 max 40 mmMyrica gale (If fgts)1Context 2006, Sample 214 (T1)Neckera complanata1Context 2006, Sample 214 (T1)Nepeta cataria1Tragment(s) onlybark fgts3 max 25 mmNymphaea alba1 inc fragmentsLinum usitatiss imum3 inc manyOnopordum acanthium1 inc fragmentsLinum usitatiss imum3 inc many		1 max 5 mm	Sparganium sp(p).	1
Leucobryum glaucum 1 Stellaria media 1 Leucodon sciuroides 1 Thuidium tamariscinum 1 Linum usitatiss imum 1 Torilis japonica 1 Linum usitatissimum(caps fgts) 1 Ulota sp(p). 1 Luzula sp(p). 1 Urtica urens 1 Malus sylvestris (endo) 1 Viola sp(p). (caps segs) 1 Marrubium vulgare 1 vivianite 1 Melophagus ovinus (sheep ked) 1 fragment(s) only wood chips 1 max 40 mm Myrica gale (If fgts) 1 Myriophyllum verticillatum/spicat um 1 Neckera complanata 1 Context 2006, Sample 214 (T1) Nepeta cataria 1 Nuphar lutea 1 fragment(s) only bark fgts 3 max 25 mm Nymphaea alba 1 inc fragments Linum usitatiss imum 3 inc many fragments				1
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Linum usitatissimum (caps fgts) 1 Ulota sp(p). 1 Luzula sp(p). 1 Urtica urens 1 Malus sylvestris (endo) 1 Viola sp(p). (caps segs) 1 Marrubium vulgare 1 vivianite 1 Melophagus ovinus (sheep ked) 1 fragment(s) only wood chips 1 max 40 mm Myrica gale (If fgts) 1 Myriophyllum verticillatum/spicat um 1 Neckera complanata 1 Context 2006, Sample 214 (T1) Nepeta cataria 1 Nuphar lutea 1 fragment(s) only bark fgts 3 max 25 mm Nymphaea alba 1 inc fragments Linum usitatiss imum 3 inc many fragments		1	Torilis japonica	1
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Myriophyllum verticillatum/spicatum Neckera complanata Nepeta cataria Nuphar lutea 1 fragment(s) only Nymphaea alba 1 inc fragments Linum usitatiss imum 1 inc fragments 1 fragments			1	
Neckera complanata Nepeta cataria Nuphar lutea 1 fragment(s) only Nymphaea alba 1 inc fragments Linum usitatiss imum 1 fragments fragments				
Nepeta cataria Nuphar lutea 1 fragment(s) only Nymphaea alba 1 inc fragments Linum usitatiss imum Onopordum acanthium 1 inc fragments 1 inc fragments Linum usitatiss imum fragments			Context 2006, Sample 214 (T1)	
Nuphar lutea1 fragment(s) onlybark fgts3 max 25 mmNymphaea alba1 inc fragmentsLinum usitatiss imum3 inc manyOnopordum acanthium1 inc fragmentsfragments				
Nymphaea alba 1 inc fragments Linum usitatiss imum 3 inc many Onopordum acanthium 1 inc fragments fragments			hark fots	3 max 25 mm
Onopordum acanthium 1 inc fragments fragments				
· · · · · · · · · · · · · · · · · · ·			Ziitaiii aoiaatoo iiitaiii	•
Email astatiosinali (caps 180)			Linumusitatissimum (caps fots)	
			(- -15)	

Linumusitatissimum(stem/epid fgts)		max 10 mm	Chrysanthemum segetum (ch)	
Agrostemma githago (sf)	2			max 70 mm
Anthemis cotula	2		Compositae (inv fgts)	
caddis larva cases	2		Conium maculatum 1	inc fragments
Calluna vulgaris (sht fgts)	2		Coronopus squamatus (fr) 1	
Camelina sativa (pods)		inc fragments	Corylus avellana (ch) 1	
Carduus/Cirsium sp(p).	2	inc fragments	Cristatella (statoblasts)	
cf. Calluna vulgaris (ch rt-tw fgts)	2	1.5	Cruciferae (pedicels)	
charcoal		max 15 mm	Daphnia (ephippia) 1 Daucus carota 1	
Corylus avellana	2	60		
daub		max 60 mm	•	
gravel	2	max 70 mm	Drepanodadus sp(p). 1 earthworm egg caps 1	
Juncus bufonius	2		Eleocharis palustris sl	
Leucobryum glaucum	2	·	Erica tetralix (lvs)	
Marrubium vulgare		inc fragments		
Polygonum aviculare agg.	2	.1 . 1		
Rumex maritimus	2	nutlets and	Euphorbia lathyris 1 fish bone 1	C C
		perianth segs	fish scale	
G(1) = (1)(1)	2	both present		
Salix $sp(p)$. (b)	2		fly puparia 1 Galeopsis Subgenus Galeopsis 1	
sand	2		Gramineae 1	
Spergula arvensis Urtica dioica	2		Gramineae (lef)	
	2 2		Gramineae (1e1) Gramineae/Cerealia (culm fgts)	
Urtica urens	1		Homalothecium sericeum/lutescens	
?cynipid galls	1		Hordeum vulgare (inc twstd)	
Aethusa cynapium Agrimonia eupatoria	1		Hylocomium splendens	
Alisma sp(p).	1		Hyoscyamus niger	
Alnus glutinosa (b/bs)	1		Hyoscyamus niger (ch)	
Anthriscus caucalis	1		Hypnum cf. cupres siforme	
Anthriscus sylvestris	1		Isothecium myurum	·
Antitrichia curtipendula	1		Lamium Section Lamiopsis	
Arctium sp(p).	1		Lapsana communis	
Arctium sp(p). (inv br/hooks)	1		leaf ab pads	[
Atriplex sp(p).	1		-	v dec, max 10
Avena sp(p).	1		S	mm
bark fgts (ch)	1	max 15 mm	Leguminosae (fls/pet)	1
Bidens sp(p).		fragment(s) only		1 max 5 mm
Bilderdykia convolvulus	1	8 () 3	Lemna sp(p).	1
bivalve periostra cum	1	max 10 mm	Linum usitatissimum (caps septum fgts)	1
bone fgts	1	max 35 mm	Malus sylvestris (endo)	1
brick/tile	1	max 10 mm	Melophagus ovinus (s heep ked)	1
Bryonia cretica ssp. dio ica	1		T (I)	1
burnt bone fgts	1	max 15 mm	,	1
Calluna vulgaris (fls)	1		moss (lfless stems)	1
Carex $sp(p)$.	1		Myriophyllum alterniflorum	
Centaurea sp(p).	1		3 1 3	1
Centaurea sp(p). (af)	1		1	1
cf. Aegopodium podagraria		fragment(s) only	1	1
cf. Calluna vulgaris (rt-tw fgts)	1	max length 20		1
		mm by 5 mm		1
		width/diameter		1
cf. Hordeum sp(p).	1			1 a single spec
cf. Salix sp(p). (Ify sht fgts)	1		3 &	1 max 15 mm
cf. Secale cereale	1		r	1
Chenopodium album	1		89-	1
Chenopodium murale	1		38 · J · F F	1
Chenopodium Section Pseudoblitum	1		1	1 1
Chrysanthemum segetum	1		i otamogeton er. perionat us	1

			4
8	1	Arctium sp(p).	1
1 otalilogotoli liatalis	1	Arctium sp(p). (inv br/hooks)	1
	1	Bilderdykia convolvulus	1
	1	bivalve periostra cum	1
	1	Brassica sp(p).	1
	1	brick/tile	1 max 35 mm
pottery	1 max 50 mm	Calluna vulgaris (caps)	1
Prunella vulgaris	1	Calluna vulgaris (sht fgts)	1
Prunus spinosa	1	Carduus/Cirsium sp(p).	1
Quercus (charcoal)	1 max 10 mm	Carex $sp(p)$.	1
Quercus (wood chips)	1 max 15 mm	cf. Calluna vulgaris (ch rt-tw fgts)	1
Quercus sp(p). (b/bs)	1	charcoal	1 max 30 mm
Ranunculus sardous	1	Chenopodium album	1
Ranunculus sceleratus	1	Chenopodium murale	1
Ranunculus Section Ranunculus	1	Chrysanthemum segetum (af)	1
Ranunculus Subgenus Batrachium	1 a single spec	cobbles	1 max 100 mm
Raphanus raphanistrum (pod segs/fgts)		Conium maculatum	1
	1	Coronopus squamatus (fr)	1
	1 nutlets and	Corylus avellana	1 max 10 mm
	perianth segs	Cristatella (statoblasts)	1
	both present	Daphnia (ephippia)	1
Sagittaria sagittifolia	1	dicot lf fgts	1
0 0	1	dicot stem fgts	1
	1 max 10 mm	Dicranum sp(p).	1
	1 inc fragments	Dipsacus sativus/fullonum	1 fragment(s) only
	1 fragment(s) only	Eleocharis palustris sl	1
•	1 magnicin(s) only	Eurhynchium sp(p).	1
	1	fish scale	1
	1	Gramineae	1
	1	Hylocomium splendens	1
	-	Hyoscyamus niger	1
Serandin ingrani	1	Hypnum cf. cupres siforme	1
	1	Juncus bufonius	1
	1	Juneus sp(p).	1
	1	Lamium Section Lamiopsis	1
teetii	1		1
i maspi ta vense	1	Leguminosae (fls/pet) Leucobryum glaucum	1
	1		1
	1	Malus sylvestris (endo)	1 f
()	1	Malva cf. sylvestris	1 fragment(s) only 1 max 70 mm
twig fgts	1 max length 30	mammal bone	
	mm by 5 mm	Marrubium vulgare	1
	width/diameter	Neckera complanata	1
0 0 0	1	Nepeta cataria	1
1	1 max 30 mm	Nuphar lut ea	1
8	1 max 20 mm	Nymphaea alba	1
Zannichellia palustris	1	Oenanthe fluviatilis	1
		Onopordum acanthium	1
		oyster shell fgts	1
Context 2006, Sample 2006 (BS)		Plantago major	1
		Polygonum aviculare agg.	1
Linum usitatiss imum	2	Polygonum hydropiper	1
Linumusitatissimum(caps fgts)	2	Polygonum persicaria	1
	2	Potamogeton sp(p).	1
	1	Potentilla anserina	1
	1	Potentilla cf. erecta	1
	1	pottery	1 max 40 mm
Anthemis cotula	1	Prunus domestica ssp. insititia	1
	1	Prunus spinosa	1
-	1	Prunus spinos a (ch)	1
r			

Ranunculus flammula	1	Betula sp(p).	
Ranunculus sceleratus	1	y F	
Ranunculus Section Ranunculus	1	8	max 45 mm
Ranunculus Subgenus Batrachium	1	Brassica sp(p).	
root/rhizome fgts (ch)	1		l max 20 mm
Rumex acetosella agg.	1		
Rumex cf. maritimus	1		[
Rumex sp(p).	1	Calluna vulgaris (fls)	1
Rumex sp(p). (inc per)	1	Calluna vulgaris (sht fgts)	[
Sagittaria sagittifolia	1	Callura vulgaris (sht tips)	1
Sambucus nigra	1	Camelina sativa (pods)	l a single spec
Scandix pecten-veneris	1		l a single fgt
snails	1 fragment(s) only		1
Spergula arvensis	1		1
Stellaria media	1		1
Triticum/Secale ('bran' fgts)	1		1
Urtica urens	1		1 max 10
wood chips	1 max 10 mm	- · · · · · · · · · · · · · · · · · · ·	1 max 15
*	1 max 10 mm	- · · · · · · · · · · · · · · · · · · ·	1 max 13 1
wood fgts	1 Illax 50 Illili	:	1
			1 max 10 mm
		147 (2)	
Context 2007, Sample 213 (T1)		I d'	1
		r	1
bark fgts	3 max 50 mm		1
Linum usitatissimum (caps fgts)	3	,	1
Anthemis cotula	2		1
Carduus/Cirsium sp(p).	2		1
Carex sp(p).	2 nutlets with		1
	utricles and/or		1
	free utricles		1
charcoal	2 max 20 mm		1
Coronopus squamatus (fr)	2	earthworm egg caps	1
Cristatella (statoblasts)	2	Eleocharis palustris sl	1
freshwater mussel shell fgts	2 max 25 mm	Erica tetralix (lvs)	1
Hyoscyamus niger	2	fish bone	1 max 10 mm
Linum usitatiss imum	2 inc fragments	fish scale	1 max 5 mm
Linum usitatissimum (stem/epid fgts)	2 max mm	fly puparia	1
moss (contaminant)	2	freshwater mussel perios tracum	1
Myriophyllum verticillatum/spicat um	2	-	1
Polygonum hydropip er	2 nutlets and		1
i orygonam nyaropiper		Gramineae/Cerealia (culm fgts)	1
Ranunculus Section Ranunculus	perianth segs		1 max 25 mm
Rumex maritimus		grit	1
	2	Heracleum sphondylium	1 fragment(s) only
Rumex sp(p). (inc per)	2	herbaceous detritus	1
sand	2		1
Sparganium sp(p).	2	Hypnum cf. cupres siforme	1
Urtica dioica	2	Ilex aquifolium (lef/prickles)	1
Urtica urens	2	Juncus bufonius	1
woodfgts	2 max 10 mm	Lamium Section Lamiopsis	1
?cynipid galls	1	Lapsana communis	1
?daub	1 max 20 mm		=
Achillea cf. millefolium	1	leather fgts	1 v dec, max 10
Aethusa cynapium	1	T (01/10)	mm
Agrimonia eupatoria	1	Leguminosae (fls/pet)	1
Agrostemma githago (sf)	1	Leguminosae (tracheid bars)	1 max 1 mm
Alisma sp(p).	1	Leontodon sp(p).	1
Atriplex sp(p).	1	Leucodon sciuroides	1
Atropa bella-donna	1	Linumusitatissimum (caps septum fgts)	
Avena sp(p).	1	Malva cf. sylvestris	1
* ***			

Marrubium vulgare	1	gravel	1 max 30 mm
	1 fragment(s) only	mammal bone	1 max 200 mm
Menyanthes trifoliata	1	oyster shell fgts	1
5 8 (8)	1 max 5 mm	pottery	1 max 60 mm
- · · · · · · · · · · · · · · · · · · ·	1	woodfgts	1 v dec, max 10
- · · F	1		mm
	1 a single fgt		
- · <i>y</i> F · · · · · · · · · ·	1		
	1	Context 2022, Sample 205 (SPT)	
Oenanthe lachenalii	1		_
-	1 a single fgt	?Callunetum mor humus (ch)	3
0.010.00.00	1	cf. Calluna vulgaris (ch rt-tw fgts)	2 max 10
Plantago major	1	charcoal	2 max 15 mm
Polygonum aviculare agg.	1	root/rootlet fgts	2
Polygonum lapathifolium Potamogeton cf. filiformis	1	sand	2
Potamogeton crispus	1	?Callunetum mor humus beetles	1 max 5 mm
Potamogeton natans	1	bone fgts	1 max 40 mm
Potamogeton sp(p). (st/lf fgts)	1		1 max 40 mm
Potentilla cf. erecta	1	burnt bone fgts Calluna vulgaris (ch fls)	1 max 15 mm 1
Potentilla cf. reptans	1	Calluna vulgaris (chris) Calluna vulgaris (chris)	1
-	1 max 35 mm	Carex sp(p). (ch)	1
Prunella vulgaris	1	Coronopus squamatus	1
.T.,	1	Coronopus squamatus (fr)	1
Ranunculus flammula	1	Erica tetralix (ch lvs)	1
Ranunculus sardous	1	gravel	1 max 20 mm
Ranunculus sceleratus	1	grit	1
	1	herbaceous detritus (ch)	1
Raphanus raphanistrum (pod segs/fgts)	1	oyster shell fgts	1 max 20 mm
	1	part-burnt wood	1 max 20 mm
	1	Potentilla cf. reptans (ch)	1
	1	root/rhizome fgts (ch)	1 max 10 mm
Sagittaria sagittifolia	1	Salix/Populus sp(p). (charcoal)	1 max 20
Salix sp(p). (b)	1	teeth	1 max 5 mm
	1 inc fragments	unwashed clay sediment	1 max 25 mm
Sambucus nigra (ch)	1	Urtica dioica	1
	1 max 2 mm		
Scorpidium s corpioides	1		
Secale cereale	1	Context 2023, Sample 206 (T)	
snails	1		
	1	bark fgts	3 max 20 mm
•	1	cf. Calluna vulgaris (ch rt-tw fgts)	2
~	1	charcoal	2 max 15 mm
F 8	1	grit	2
	1	Ranunculus sardous	2
1	1	root/rootlet fgts	2
3.1	1	sand	2
8 8	1 max 30 mm	wood fgts	2 max 30 mm
	1 a single fgt	?burnt peat fgts	1 max 2 mm
r	1 max 10 mm	Anthemis cotula	1
J 8	1 max 5 mm	Atriplex sp(p).	1
Zannichellia palustris	1	beetles	1
		Bilderdykia convolvulus	1
G + +2012 G + 2012 (DG)		bone fgts	1 max 20 mm
Context 2013, Sample 2013 (BS)		brick/tile	1 max 2 mm
1 . 1 / . 1		Calluna vulgaris (fls)	1
	1 max 35 mm	Carex sp(p).	1
	1 max 5 mm	cf. Calluna vulgaris (rt-tw fgts)	1
freshwater mussel shell fgts	1	cf. Pteridium aquilinum (stalk fgts)	1

charred herbaceous detritus	1	earthworm egg caps	1
charred moss	1	fly puparia	1
Chenopodium album	1	gravel	1 max 15 mm
Corylus avellana	1 max 5 mm	Hyoscyamus niger	1
Daphnia (ephippia)	1	Juncus sp(p).	1
Diphasium complanatum	1 v dec	Lapsana communis	1
Erica tetralix (ch lvs)	1	Linumusitatissimum (caps fgts)	1 1
fish bone	1 max 15 mm	Neckera complanata Polygonum aviculare agg.	1
fly puparia	1 1 max 10 mm	Polygonum hydropip er	1
gravel	1 IIIax 10 IIIIII	Quercus sp(p). (b/bs)	1
Juncus sp(p). Linum usitatiss imum	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 Section Ranunculus	1	Scirpus maritimus/lacustris	1
Raphanus raphanistrum (pod segs/fgts)	1	Scorpidium s corpioides	1
Rumex sp(p).	1	snails	1
Sambucus nigra	1	Solanum nigrum	1
Scirpus cf. maritimus	1	Sonchus oleraceus	1
Scleranthus annuus	1	twig fgts	1
sclereids (from bark)	1	Urtica dioica	1
Sonchus as per	1	Urtica urens	1
Urtica dioica	1	Veronica beccabunga-type	1
Urtica urens	1		
		C + +2020 C 1 20((T1)	_
Context 2030, Sample 286 (SPT)		Context 2030, Sample 286 (T1)	
Context 2030, Sample 200 (St 1)			
		Calluma vulgaris (rt-tw fgts)	3 max length 50
	2 max length 40	Callum vulgaris (rt-twfgts)	3 max length 50 mm by 10 mm
Callura vulgaris (rt-twfgts)	2 max length 40 mm by 10 mm	Calluma vulgaris (rt-tw fgts)	3 max length 50 mm by 10 mm diameter
	2 max length 40 mm by 10 mm diameter	Callura vulgaris (rt-tw fgts) Callura vulgaris (sht fgts)	mm by 10 mm
Callum vulgaris (rt-twfgts)	mm by 10 mm		mm by 10 mm diameter
	mm by 10 mm diameter	Calluna vulgaris (sht fgts)	mm by 10 mm diameter
Calluma vulgaris (rt-twfgts) Calluma vulgaris (sht fgts)	mm by 10 mm diameter	Callura vulgaris (sht fgts) Callura vulgaris (tw fgts) calcareous concretions Callura vulgaris (caps)	mm by 10 mm diameter 3 3 2 max 10 mm 2
Calluma vulgaris (rt-twfgts) Calluma vulgaris (sht fgts)	mm by 10 mm diameter	Callura vulgaris (sht fgts) Callura vulgaris (tw fgts) calcareous concretions Callura vulgaris (caps) Callura vulgaris (sht tips)	mm by 10 mm diameter 3 3 2 max 10 mm 2 2
Calluma vulgaris (rt-twfgts) Calluma vulgaris (sht fgts)	mm by 10 mm diameter	Callura vulgaris (sht fgts) Callura vulgaris (tw fgts) calcareous concretions Callura vulgaris (caps) Callura vulgaris (sht tips) Coronopus squamatus (fr)	mm by 10 mm diameter 3 3 2 max 10 mm 2 2 2
Calluma vulgaris (rt-twfgts) Calluma vulgaris (sht fgts) vivianite	mm by 10 mm diameter	Callura vulgaris (sht fgts) Callura vulgaris (tw fgts) calcareous concretions Callura vulgaris (caps) Callura vulgaris (sht tips) Coronopus squamatus (fr) Gramineae	mm by 10 mm diameter 3 2 max 10 mm 2 2 2 2
Calluma vulgaris (rt-twfgts) Calluma vulgaris (sht fgts) vivianite	mm by 10 mm diameter	Callura vulgaris (sht fgts) Callura vulgaris (tw fgts) calcareous concretions Callura vulgaris (caps) Callura vulgaris (sht tips) Coronopus squamatus (fr) Gramineae gravel	mm by 10 mm diameter 3 2 max 10 mm 2 2 2 max 35 mm
Callura vulgaris (rt-twfgts) Callura vulgaris (sht fgts) vivianite Context 2030, Sample 286 (T)	mm by 10 mm diameter 2	Callura vulgaris (sht fgts) Callura vulgaris (tw fgts) calcareous concretions Callura vulgaris (caps) Callura vulgaris (sht tips) Coronopus squamatus (fr) Gramineae gravel Juncus bufonius	mm by 10 mm diameter 3 2 max 10 mm 2 2 2 2 max 35 mm
Callura vulgaris (rt-twfgts) Callura vulgaris (sht fgts) vivianite Context 2030, Sample 286 (T) Callura vulgaris (rt-twfgts)	mm by 10 mm diameter 2 1 2 max length 100	Callura vulgaris (sht fgts) Callura vulgaris (tw fgts) calcareous concretions Callura vulgaris (caps) Callura vulgaris (sht tips) Coronopus squamatus (fr) Gramineae gravel Juncus bufonius Polygonum hydropiper (inc per)	mm by 10 mm diameter 3 2 max 10 mm 2 2 2 max 35 mm 2
Callura vulgaris (rt-twfgts) Callura vulgaris (sht fgts) vivianite Context 2030, Sample 286 (T) Callura vulgaris (rt-twfgts) Callura vulgaris (sht fgts)	mm by 10 mm diameter 2 1 2 max length 100 mm by 10 mm diameter 2	Callura vulgaris (sht fgts) Callura vulgaris (tw fgts) calcareous concretions Callura vulgaris (caps) Callura vulgaris (sht tips) Coronopus squamatus (fr) Gramineae gravel Juncus bufonius Polygonum hydropiper (inc per) sand	mm by 10 mm diameter 3 2 max 10 mm 2 2 2 max 35 mm 2
Callura vulgaris (rt-twfgts) Callura vulgaris (sht fgts) vivianite Context 2030, Sample 286 (T) Callura vulgaris (rt-twfgts) Callura vulgaris (sht fgts) Gramineae	mm by 10 mm diameter 2 1 2 max length 100 mm by 10 mm diameter 2 2	Callura vulgaris (sht fgts) Callura vulgaris (tw fgts) calcareous concretions Callura vulgaris (caps) Callura vulgaris (sht tips) Coronopus squamatus (fr) Gramineae gravel Juncus bufonius Polygonum hydropiper (inc per) sand sclereids (from bark)	mm by 10 mm diameter 3 2 max 10 mm 2 2 2 max 35 mm 2 2 max 2 mm
Callura vulgaris (rt-twfgts) Callura vulgaris (sht fgts) vivianite Context 2030, Sample 286 (T) Callura vulgaris (rt-twfgts) Callura vulgaris (sht fgts) Gramineae Anthemis cotula	mm by 10 mm diameter 2 1 2 max length 100 mm by 10 mm diameter 2 2 1	Callura vulgaris (sht fgts) Callura vulgaris (tw fgts) calcareous concretions Callura vulgaris (caps) Callura vulgaris (sht tips) Coronopus squamatus (fr) Gramineae gravel Juncus bufonius Polygonum hydropiper (inc per) sand sclereids (from bark) Urtica urens	mm by 10 mm diameter 3
Callura vulgaris (rt-twfgts) Callura vulgaris (sht fgts) vivianite Context 2030, Sample 286 (T) Callura vulgaris (rt-twfgts) Callura vulgaris (sht fgts) Gramineae Anthemis cotula bast fgts	mm by 10 mm diameter 2 1 2 max length 100 mm by 10 mm diameter 2 2 1 1	Callura vulgaris (sht fgts) Callura vulgaris (tw fgts) calcareous concretions Callura vulgaris (caps) Callura vulgaris (sht tips) Coronopus squamatus (fr) Gramineae gravel Juncus bufonius Polygonum hydropiper (inc per) sand sclereids (from bark) Urtica urens Aethusa cynapium	mm by 10 mm diameter 3
Callura vulgaris (rt-twfgts) Callura vulgaris (sht fgts) vivianite Context 2030, Sample 286 (T) Callura vulgaris (rt-twfgts) Callura vulgaris (sht fgts) Gramineae Anthemis cotula bast fgts brick/tile	mm by 10 mm diameter 2 1 2 max length 100 mm by 10 mm diameter 2 2 1	Callura vulgaris (sht fgts) Callura vulgaris (tw fgts) calcareous concretions Callura vulgaris (caps) Callura vulgaris (sht tips) Coronopus squamatus (fr) Gramineae gravel Juncus bufonius Polygonum hydropiper (inc per) sand sclereids (from bark) Urtica urens Aethusa cynapium Agrostemma githago (sf)	mm by 10 mm diameter 3
Callura vulgaris (rt-twfgts) Callura vulgaris (sht fgts) vivianite Context 2030, Sample 286 (T) Callura vulgaris (rt-twfgts) Callura vulgaris (sht fgts) Gramineae Anthemis cotula bast fgts brick/tile Callura vulgaris (fls)	mm by 10 mm diameter 2 1 2 max length 100 mm by 10 mm diameter 2 2 1 1 1 max 5 mm 1	Callura vulgaris (sht fgts) Callura vulgaris (tw fgts) calcareous concretions Callura vulgaris (caps) Callura vulgaris (sht tips) Coronopus squamatus (fr) Gramineae gravel Juncus bufonius Polygonum hydropiper (inc per) sand sclereids (from bark) Urtica urens Aethusa cynapium Agrostemma githago (sf) Alisma sp(p).	mm by 10 mm diameter 3 2 max 10 mm 2 2 2 max 35 mm 2 2 max 2 mm 2 1 'embryos' only
Callura vulgaris (rt-twfgts) Callura vulgaris (sht fgts) vivianite Context 2030, Sample 286 (T) Callura vulgaris (rt-twfgts) Callura vulgaris (sht fgts) Gramineae Anthemis cotula bast fgts brick/tile Callura vulgaris (fls) Callura vulgaris (fls) Callura vulgaris (lvs)	mm by 10 mm diameter 2 1 2 max length 100 mm by 10 mm diameter 2 2 1 1	Callura vulgaris (sht fgts) Callura vulgaris (tw fgts) calcareous concretions Callura vulgaris (caps) Callura vulgaris (sht tips) Coronopus squamatus (fr) Gramineae gravel Juncus bufonius Polygonum hydropiper (inc per) sand sclereids (from bark) Urtica urens Aethusa cynapium Agrostemma githago (sf) Alisma sp(p). amphibian bone	mm by 10 mm diameter 3
Callura vulgaris (rt-twfgts) Callura vulgaris (sht fgts) vivianite Context 2030, Sample 286 (T) Callura vulgaris (rt-twfgts) Callura vulgaris (sht fgts) Gramineae Anthemis cotula bast fgts brick/tile Callura vulgaris (fls) Callura vulgaris (lvs) Carex sp(p).	mm by 10 mm diameter 2 1 2 max length 100 mm by 10 mm diameter 2 2 1 1 1 max 5 mm 1	Callura vulgaris (sht fgts) Callura vulgaris (tw fgts) calcareous concretions Callura vulgaris (caps) Callura vulgaris (sht tips) Coronopus squamatus (fr) Gramineae gravel Juncus bufonius Polygonum hydropiper (inc per) sand sclereids (from bark) Urtica urens Aethusa cynapium Agrostemma githago (sf) Alisma sp(p). amphibian bone Atriplex sp(p).	mm by 10 mm diameter 3 2 max 10 mm 2 2 max 35 mm 2 2 max 2 mm 2 1 'embryos' only 1
Callura vulgaris (rt-twfgts) Callura vulgaris (sht fgts) vivianite Context 2030, Sample 286 (T) Callura vulgaris (rt-twfgts) Callura vulgaris (sht fgts) Gramineae Anthemis cotula bast fgts brick/tile Callura vulgaris (fls) Callura vulgaris (lvs) Carex sp(p). Cerastium sp(p).	mm by 10 mm diameter 2 1 2 max length 100 mm by 10 mm diameter 2 2 1 1 1 max 5 mm 1	Callura vulgaris (sht fgts) Callura vulgaris (tw fgts) calcareous concretions Callura vulgaris (caps) Callura vulgaris (sht tips) Coronopus squamatus (fr) Gramineae gravel Juncus bufonius Polygonum hydropiper (inc per) sand sclereids (from bark) Urtica urens Aethusa cynapium Agrostemma githago (sf) Alisma sp(p). amphibian bone	mm by 10 mm diameter 3 2 max 10 mm 2 2 2 max 35 mm 2 2 max 2 mm 1 1 'embryos' only 1
Callura vulgaris (rt-twfgts) Callura vulgaris (sht fgts) vivianite Context 2030, Sample 286 (T) Callura vulgaris (rt-twfgts) Callura vulgaris (sht fgts) Gramineae Anthemis cotula bast fgts brick/tile Callura vulgaris (fls) Callura vulgaris (lvs) Carex sp(p). Cerastium sp(p). cf. Campylium sp(p).	mm by 10 mm diameter 2 1 2 max length 100 mm by 10 mm diameter 2 2 1 1 1 max 5 mm 1	Callura vulgaris (sht fgts) Callura vulgaris (tw fgts) calcareous concretions Callura vulgaris (caps) Callura vulgaris (sht tips) Coronopus squamatus (fr) Gramineae gravel Juncus bufonius Polygonum hydropiper (inc per) sand sclereids (from bark) Urtica urens Aethusa cynapium Agrostemma githago (sf) Alisma sp(p). amphibian bone Atriplex sp(p). bark fgts beetles	mm by 10 mm diameter 3 2 max 10 mm 2 2 max 35 mm 2 2 max 2 mm 2 1 'embryos' only 1
Callura vulgaris (rt-twfgts) Callura vulgaris (sht fgts) vivianite Context 2030, Sample 286 (T) Callura vulgaris (rt-twfgts) Callura vulgaris (sht fgts) Gramineae Anthemis cotula bast fgts brick/tile Callura vulgaris (fls) Callura vulgaris (lvs) Carex sp(p). Cerastium sp(p). cf. Campylium sp(p). cf. Diphasium sp(p).	mm by 10 mm diameter 2 1 2 max length 100 mm by 10 mm diameter 2 1 1 max 5 mm 1 1 1 1 1	Callura vulgaris (sht fgts) Callura vulgaris (tw fgts) calcareous concretions Callura vulgaris (caps) Callura vulgaris (sht tips) Coronopus squamatus (fr) Gramineae gravel Juncus bufonius Polygonum hydropiper (inc per) sand sclereids (from bark) Urtica urens Aethusa cynapium Agrostemma githago (sf) Alisma sp(p). amphibian bone Atriplex sp(p). bark fgts	mm by 10 mm diameter 3 2 max 10 mm 2 2 max 35 mm 2 2 max 2 mm 1 1 'embryos' only 1 max 25 mm 1
Callura vulgaris (rt-twfgts) Callura vulgaris (sht fgts) vivianite Context 2030, Sample 286 (T) Callura vulgaris (rt-twfgts) Callura vulgaris (sht fgts) Gramineae Anthemis cotula bast fgts brick/tile Callura vulgaris (fls) Callura vulgaris (lvs) Carex sp(p). Cerastium sp(p). cf. Campylium sp(p). cf. Diphasium sp(p). cf. Pseudoscleropodium purum	mm by 10 mm diameter 2 1 2 max length 100 mm by 10 mm diameter 2 2 1 1 1 max 5 mm 1	Callura vulgaris (sht fgts) Callura vulgaris (tw fgts) calcareous concretions Callura vulgaris (caps) Callura vulgaris (sht tips) Coronopus squamatus (fr) Gramineae gravel Juncus bufonius Polygonum hydropiper (inc per) sand sclereids (from bark) Urtica urens Aethusa cynapium Agrostemma githago (sf) Alisma sp(p). amphibian bone Atriplex sp(p). bark fgts beetles bone fgts	mm by 10 mm diameter 3 2 max 10 mm 2 2 max 35 mm 2 2 max 2 mm 1 1 'embryos' only 1 max 25 mm 1 max 40 mm
Callura vulgaris (rt-twfgts) Callura vulgaris (sht fgts) vivianite Context 2030, Sample 286 (T) Callura vulgaris (rt-twfgts) Callura vulgaris (sht fgts) Gramineae Anthemis cotula bast fgts brick/tile Callura vulgaris (fls) Callura vulgaris (fls) Callura vulgaris (lvs) Carex sp(p). Cerastium sp(p). cf. Campylium sp(p). cf. Diphasium sp(p). cf. Pseudoscleropodium purum Chenopodium album	mm by 10 mm diameter 2 1 2 max length 100 mm by 10 mm diameter 2 2 1 1 max 5 mm 1 1 1 1 1 1 1 1 1	Callura vulgaris (sht fgts) Callura vulgaris (tw fgts) calcareous concretions Callura vulgaris (caps) Callura vulgaris (sht tips) Coronopus squamatus (fr) Gramineae gravel Juncus bufonius Polygonum hydropiper (inc per) sand sclereids (from bark) Urtica urens Aethusa cynapium Agrostemma githago (sf) Alisma sp(p). amphibian bone Atriplex sp(p). bark fgts beetles bone fgts Brassica sp(p).	mm by 10 mm diameter 3 2 max 10 mm 2 2 max 35 mm 2 2 max 2 mm 1 1 'embryos' only 1 1 max 25 mm 1 max 40 mm
Callura vulgaris (rt-twfgts) Callura vulgaris (sht fgts) vivianite Context 2030, Sample 286 (T) Callura vulgaris (rt-twfgts) Callura vulgaris (sht fgts) Gramineae Anthemis cotula bast fgts brick/tile Callura vulgaris (fls) Callura vulgaris (fls) Callura vulgaris (lvs) Carex sp(p). Cerastium sp(p). cf. Campylium sp(p). cf. Diphasium sp(p). cf. Pseudoscleropodium purum Chenopodium album concretions	mm by 10 mm diameter 2 1 2 max length 100 mm by 10 mm diameter 2 2 1 1 max 5 mm 1 1 1 1 1 1 max 5 mm	Callura vulgaris (sht fgts) Callura vulgaris (tw fgts) calcareous concretions Callura vulgaris (caps) Callura vulgaris (sht tips) Coronopus squamatus (fr) Gramineae gravel Juncus bufonius Polygonum hydropiper (inc per) sand sclereids (from bark) Urtica urens Aethusa cynapium Agrostemma githago (sf) Alisma sp(p). amphibian bone Atriplex sp(p). bark fgts beetles bone fgts Brassica sp(p). Brassica sp./Sinapis ar vensis (ch)	mm by 10 mm diameter 3 2 max 10 mm 2 2 max 35 mm 2 2 max 2 mm 1 1 'embryos' only 1 max 25 mm 1 max 40 mm 1
Callura vulgaris (rt-twfgts) Callura vulgaris (sht fgts) vivianite Context 2030, Sample 286 (T) Callura vulgaris (rt-twfgts) Callura vulgaris (sht fgts) Gramineae Anthemis cotula bast fgts brick/tile Callura vulgaris (fls) Callura vulgaris (fls) Callura vulgaris (lvs) Carex sp(p). Cerastium sp(p). cf. Campylium sp(p). cf. Diphasium sp(p). cf. Pseudoscleropodium purum Chenopodium album	mm by 10 mm diameter 2 1 2 max length 100 mm by 10 mm diameter 2 2 1 1 max 5 mm 1 1 1 1 1 1 1 1 1	Callura vulgaris (sht fgts) Callura vulgaris (tw fgts) calcareous concretions Callura vulgaris (caps) Callura vulgaris (sht tips) Coronopus squamatus (fr) Gramineae gravel Juncus bufonius Polygonum hydropiper (inc per) sand sclereids (from bark) Urtica urens Aethusa cynapium Agrostemma githago (sf) Alisma sp(p). amphibian bone Atriplex sp(p). bark fgts beetles bone fgts Brassica sp(p). Brassica sp(p). Brassica sp./Sinapis ar vensis (ch) brick/tile	mm by 10 mm diameter 3 3 2 max 10 mm 2 2 2 2 max 35 mm 2 2 max 2 mm 2 1 'embryos' only 1 1 max 25 mm 1 max 40 mm 1 1 max 25 mm

Carex sp(p).	1	Ranunculus sceleratus	2
cf. Bromus sp(p).	1	Salix sp(p). (b)	2
	1	Stellaria media	2
	1	Urtica dioica	2
	1 max 10 mm	Urtica urens	2
	1	Agrostemma githago (sf)	1
-	1 max 2 mm	Atriplex sp(p).	1
	1	beetles	1
	1	bone fgts	1 max 40 mm
	1	brick/tile	1 max 35 mm
	1	burnt bone fgts	1 max 10 mm
	1	Calluna vulgaris (b)	1
* * *	1	Carduus/Cirsium sp(p).	1
	1	cf. Calluna vulgaris (rt-tw fgts)	1
•	1	Chenopodium album	1
-	1 max 10 mm	Chenopodium murale	1
	1	Corylus avellana	1 max 5 mm
	1	Erica tetralix (lvs)	1
· · · · · · · · · · · · · · · · · · ·	1	fly puparia	1
	1	Galeopsis Subgenus Galeopsis	1
Polygonum persicaria	1	gravel	1 max 55 mm
Potentilla anserina	1	herbaceous detritus	1
Potentilla sp(p).	1	Hypochoeris sp(p).	1
Prunus spinosa	1	Neckera complanata	1
	1	Polygonum lapathifolium	1
Quercus sp(p). (b/bs)	1	Potentilla anserina	1
Ranunculus sardous	1	Prunus Section Cerasus	1
	1	Ranunculus sardous	1
	1	Ranunculus Section Ranunculus	1
	1	Rumex sp(p).	1
	1	Sambucus nigra	1
Rubus idaeus	1	twig fgts	1
	1	Viola sp(p).	1
Rumex sp(p). (per/segs)	1	wood chips	1
	1 inc fragments	wood fgts	1 max 10 mm
	1 me nagments	Woodigis	1 max 10 mm
Sonchus oleraceus	1		
	1 v dec	Context 2065, Sample 258 (T1)	
1 47	1	- Content 2003, Sample 230 (11)	
Thuidium tamariscinum	1	Carex sp(p).	2
	1	charcoal	2 max 15 mm
	1	gravel	2 max 40 mm
	1 max 5 mm	Salix sp(p). (b)	2
		sand	2
		Triticum/Secale ('bran' fgts)	2 v dec, max m
Context 2037, Sample 2037 (BS)	•	Urtica dioica	2
Context 2037, Sumple 2037 (BS)		Urtica urens	2
cobbles	2 max dim 130	woodfgts	2
coolics	mm	Agrostemma githago (sf)	1
grave1	2	Alnus glutinosa (b/bs)	1 v dec
8	1 max 30 mm	Alnus glutinosa (tw fgts)	1 max 15 mm
	1 max 15 mm	Anagallis arvensis	1
	1 max 13 mm	Anthemis cotula	1
mammai bone	1 max 90 mm	Arctium sp(p).	1
		Atriplex sp(p).	1
Context 2038, Sample 2038 (BS)		beetles	1
Context 2030, Sample 2038 (BS)		Bilderdykia convolvulus (ff)	1
Dalvacanum hydronia	2	bone fgts	1 max 55 mm
	2	Brassica sp./Sinapis arvensis	1
Polygonum persicaria	<i>L</i>		-

1.2.1.49	1 5	Conclus agner	1
brick/tile Bupleurum rotundifolium	1 max 5 mm	Sonchus as per Sparganium sp(p).	1
burnt bone fgts	1 max 10 mm	Stellaria media	1
Callura vulgaris (fls)	1	twig fgts	1 max 15 mm
Capsella bursa-pastoris	1	twig fgts (ch)	1 max 15 mm
cf. Calluna vulgaris (ch rt-tw fgts)	1 max 15	Vaccinium sp(p).	1
cf. Calluna vulgaris (rt-tw fgts)	1 max 10	wood chips	1 max 20 mm
cf. Cerealia indet.	1	•	
Chenopodium album	1		
Chenopodium Section Pseudoblitum	1	Context 2065, Sample 2065 (BS)	,
	1 with apical knife		
•	marks	bird bone	1 max 40 mm
dicot lf fgts	1	brick/tile	1 max 15 mm
earthworm egg caps	1	charcoal	1 max 15 mm
Eleocharis palustris sl	1	gravel	1 max 50 mm
Eurhynchium striatum	1	mammal bone	1 max dim 130
fish bone	1 max 5 mm		mm
fly puparia	1	oyster shell fgts	1 max 30 mm
Galeopsis Subgenus Galeopsis	1	wood fgts	1 max 50 mm
Gramineae	1		
Gramineae/Cerealia (c/n)	1		
Gramineae/Cerealia (ch c/n)	1	Context 2087, Sample 2087 (BS)	
herbaceous detritus	1		
herbaceous detritus (ch)	1	bone fgts	1 max 30 mm
Hordeum sp(p).	1 a single spec	brick/tile	1 max 60 mm
horncore	1 max 50 mm	burnt bone fgts	1 max 15 mm
Hyoscyamus niger	1 fragment(s) only	herbaceous detritus	1
Hypochoeris sp(p).	1	oyster shell fgts	1 max 15 mm
Juncus bufonius	1	pebbles	1 max 80 mm
Juneus squarrosus Lamium Section Lamiopsis	1	pottery	1 max 20 mm
Lapsana communis	1		
Leontodon sp(p).	1		
Linum usitatiss imum	1	G	
Linum usitatissimum (caps fgts)	1	Context 2131, Sample 280 (T)	
Malus sylvestris	1 fragment(s) only		
Malus sylvestris (endo)	1	bark fgts	4 max 20 mm
monocot rhizome fgts	1	sclereids (from bark)	3
Neckera complanata	1	Callum vulgaris (fls)	2 2 v. daa
Pedicularis palustris	1	Diphasium complanatum	2 v dec 2
Plantago major	1	grit Ranunculus sardous	
Polygonum aviculare agg.	1	Urtica dioica	2 2
Polygonum hydropip er	1	Urtica urens	2
Polygonum lapathifolium	1	Aethusa cynapium	1
Populus sp(p). (b/bs)	1	Agrostemma githago (sf)	1
Potentilla cf. erecta	1	Anthemis cotula	1
Potentilla palustris	1	Atriplex sp(p).	1
Prunella vulgaris	1	Aulacomnium palustre	1
Prunus spinosa	1	beetles	1
Pteridium aquilinum (pinn fgts)	1	Betula sp(p).	1
Quercus sp(p). (b/bs)	1	bone fgts	1 max 20 mm
Ranunculus flammula	1	Brassica sp./Sinapis arvensis	1
Ranunculus sceleratus	1	Calluna vulgaris (b)	1
Ranunculus Section Ranunculus Ranhanus ranhanistrum (pod seas/fats)	1	Calluna vulgaris (caps)	1
Raphanus raphanistrum (pod segs/fgts) Rubus cf. fruticos us agg.	1	Calluna vulgaris (sht fgts)	1
Rumex sp(p). (inc per)	1	Carduus/Cirsium sp(p).	1
Sambucus nigra	1	Carex sp(p).	1
	1 max 2 mm	cf. Calluna vulgaris (ch rt-tw fgts)	1
Com Outil)	=	charcoal	1 max 10 mm

Chenopodium album	1	Isothecium myurum	2
Chenopodium murale	1	Neckera complanata	2
Coronopus squamatus (fr)	1	Urtica urens	2
Corylus avellana	1 max 15 mm	Anthemis cotula	1
	1	Antitrichia curtipendula	1
Daucus carota	1	Atriplex sp(p).	1
dicot If fgts	1	Aulacomnium palustre	1
dicot stem fgts	1	beetles	1
Erica tetralix (lvs)	1	Betula sp(p).	1
Eurhynchium praelongum	1	bone fgts	1 max 50 mm
Eurhynchium striatum	1	Brassica sp(p).	1
gravel	1 max 15 mm	brick/tile	1 max 20 mm
Homalothecium sericeum/lutescens	1	Calluna vulgaris (fls)	1
Hordeum sp(p).	1 a single spec	Calluna vulgaris (sht fgts)	1
Hylocomium splendens	1	cf. Calluna vulgaris (rt-tw fgts)	1 max 20
Hypnum cf. cupres siforme	1	cf. Linum usitatissimum (stem fgts)	1
Isothecium myosuroides	1	cf. Quercus sp(p). (fgts)	1
Isothecium myurum	1	Chenopodium album	1
Juncus sp(p).	1	Chenopodium murale	1
Lamium Section Lamiopsis	1	Corylus avellana	1
Lapsana communis	1	Daucus carota	1
leather fgts	1 max 2 mm	detritus peat fgts	1 max 10 mm
Leguminosae (fls/pet)	1	dicot lf fgts	1
Leucobryum glaucum	1	Dicranum sp(p).	1
Linumusitatissimum (caps fgts)	1	earthworm egg caps	1
Linum usitatissimum(sf)	1	Eleocharis palustris sl	1
Malus sylvestris (endo)	1	Eurhynchium cf. praelongum	1
Neckera complanata	1	Eurhynchium striatum	1
Neckera crispa	1	fish bone	1 max 2 mm
Polygonum aviculare agg.	1	fly puparia	1
Polygonum hydropiper	1	Galeopsis Subgenus Galeopsis	1
Polygonum lapathifolium	1	Homalothecium sericeum/lutescens	1
Polygonum persicaria	1	Hyoscyamus niger	1
Potentilla anserina	1	Hypnum cf. cupres siforme	1
Rubus fruticos us agg.	1	Isothecium myosuroides	1
Rumex sp(p). (inc per)	1	Juncus sp(p).	l
Salix sp(p). (b)	1	Knautia arvensis (ff)	l
Sambucus nigra	1	Lapsana communis	1
sand	1	Leucobryum glaucum	1
Scandix pecten-veneris	1	Leucodon sciuroides	1
	1	Linum usitatiss imum	1 inc fragments
Sonchus as per	1	Linumusitatissimum (caps fgts)	l
Sphagnum sp(p).	1	Malus sylvestris (endo) Menyanthes trifoliata	1
Stellaria media	1	Neckera crispa	1
Triticum/Secale ('bran' fgts)	1	Oenanthe fluviatilis	1
Ulota sp(p).	1 max 10 mm	Oenanthe lachenalii	1
wood chips wood fgts	1 max 10 mm	part-burnt coal	1 max 20 mm
woodigis	1 max 10 mm	Plantago major	1 111111 1
		Polygonum aviculare agg.	1
Context 2131, Sample 281 (T1)		Polygonum hydropip er	1
Context 2131, Sample 281 (11)		Polygonum lapathifolium	1
hark for	4 max 40 mm	Prunella vulgaris	1
8	4 max 40 mm 4 max 5 mm	Prunus domestica cf. ssp. insititia	1
	4 max 5 mm 2	Quercus sp(p). (b/bs)	1
	2 max 10	Ranunculus flammula	1
	2 max 10 2 max 20 mm	Ranunculus sardous	1
	2 v dec, max mm	Ranunculus Section Ranunculus	1
	2 max 40 mm	Ranunculus Subgenus Batrachium	1

Raphanus raphanistrum (pod segs/fgts)	1	Sambucus nigra	1
		Silene vulgaris (ch)	1
	1	Sonchus as per	1
3 · · · · · · · · · · · · · · · · · · ·		Sonchus oleraceus	1
	1 max 5 mm	Thuidium cf. tamariscinum	1
Rubus fruticos us agg.	1	Thuidium Ci. tamariscinum	1
	1		
_	1 inc fragments	G + + 21 (0, G + 1, 205 (FI1)	
sand	1	Context 2160, Sample 287 (T1)	
	1		
Sonchus oleraceus	1	sclereids (from bark)	4 max 5 mm
Stachys sp(p).	1	bark fgts	3 max 20 mm
	1	charcoal	3 max 20 mm
	1	Cladium mariscus (ch lf fgts)	3
twig fgts	1 max length 30	Anthemis cotula	2
	mm by 10 mm	Atriplex sp(p).	2
	width/diameter	Carex sp(p). (ch)	2 max 20 mm
Ulota sp(p).	1	cf. Linum usitatiss imum (Scheben)	2 max 5
Urtica dioica	1	Coronopus squamatus (fr)	2
wood chips	1 max 10 mm	dicot stem fgts	2 max 10 mm
wood fgts	1 max 15 mm	gravel	2 max 20 mm
		Leucobryum glaucum	2
		Polygonum aviculare agg.	2
Context 2160, Sample 287 (T)		sand	2
		Sonchus oleraceus	2
charcoal	3 max 30 mm	Urtica dioica	2
	2	Urtica urens	2
	2	Aethusa cynapium	1
	2 max 15 mm	Agrimonia eupatoria	1
E	2	Agrostemma githago	1
	2	Agrostemma githago (sf)	1
	2	Antitrichia curtipendula	1
	1	Aulacomnium palustre	1
	1	beetles	1
	1	Bilderdykia convolvulus	1
	1	bone fgts	1 max 10 mm
Aulacomnium palustre	1	Brassica rapa	1
-	1 max 10 mm	Brassica sp./Sinapis arvensis	1
_	1 max 10 mm	brick/tile	1 max 20 mm
	1 max 10 mm	Calliergon cuspidatum	1 11100 20 11111
	1 max 10 mm	Calluma vulgaris (caps)	1
		Calluna vulgaris (caps) Calluna vulgaris (fls)	1
	1	Callum vulgaris (18) Callum vulgaris (sht fgts)	1
147 ()	1	Carduus/Cirsium sp(p).	1
cf. Calluna vulgaris (ch rt-tw fgts)	1	Carex sp(p).	1
charred herbaceous detritus	1	cf. Cratoneuron filicinum	1
Chenopodium murale	1		=
Cladium mariscus (ch)	1	cf. Genista tinctoria (st fgts) cf. Pohlia nutans	1 a single spec
Coronopus squamatus (fr)	1 10		l 1 o aimala amaa
•	1 max 10 mm	cf. Schoenus nigricans	1 a single spec
Eurhynchium cf. striatum	1	charred moss	1
fish bone	1 max 4 mm	Chenopodium album	1
Gramineae/Cerealia (ch c/n)	1	Chenopodium murale	1
	1	Coronopus squamatus	1 a single spec
	1	Coronopus squamatus (ch fr)	1 1 1 22
Hypnum cf. cupres siforme	1	Corylus (charred rods)	1 max length 30
Neckera complanata	1		mm by 10 mm
Polygonum hydropiper	1	a	diameter
Polygonum persicaria	1	Corylus (rods)	1 max length 30
Potentilla cf. erecta	1		mm by 10 mm
Raphanus raphanistrum (pod segs/fgts)	1		diameter

Corylus avellana	1 with apical knife marks	Scandix pecten-veneris Scorpidium scorpioides	1 fragment(s) only
Corylus avellana (ch)	1	Solanum nigrum	1
- · · · · · · · · · · · · · · · · · · ·	1	Sonchus as per	1
	1	Spergula arvensis	1
	1 v dec, a single en	Sphagnum sp(p).(lvs)	1 a single spec
	1 V dee, a single on	Stachys sp(p).	1
	1	Stellaria media	1
	1	stone	1 max 60 mm
	1	Torilis japonica	1 fragment(s) only
	1	Ulota sp(p).	1
	1	wood chips	1 max 15 mm
-	1 max 10 mm	wood dilps wood fgts	1
	1	worked wood fgts	1 max 30 mm
	1	Worked Wood 1gts	1 max 50 mm
	1		
	1	Context 2160, Sample 291 (T1)	
· · · · · · · · · · · · · · · · · · ·	1	Context 2100, Sample 291 (11)	
	1	11- f	4 25
	1	bark fgts	4 max 35 mm 4 max 5 mm
	1	sclereids (from bark) ?sawdust	
. ,	1		3 max 2 mm
		sand	2
T (I)	1	Scorpidium s corpioides	2
	1	Urtica dioica	2
11) primiri eri empressirerine	-	Agrostemma githago (sf)	1
150 this craim in j cour crass	1	Anthemis cotula	1
	1	Antitrichia curtipendula	1
	1	Atriplex sp(p).	1
Zapouna vonimanio	1	Aulacomnium palustre	1
8	1 max 20 mm	beetles	1 20
£ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	1	bone fgts	1 max 20 mm
	1	Brassica sp(p).	1 fragment(s) only
	1 inc fragments	brick/tile	1 max 4 mm
	1 a single fgt	Bryum sp(p).	1
· · · · · · · · · · · · · · · · · · ·	1	burnt bone fgts	1 max 15 mm
	1	Calliergon cuspidatum	1
	1	Callum vulgaris (fls)	1
- · · · · · · · · · · · · · · · · · · ·	1	Carduus/Cirsium sp(p).	_
	1	Carex sp(p).	1 nutlets with
	1		utricles and/or
	1	Ct	free utricles
	1	Centaurea sp(p). (inv fgts) cf. Calluna vulgaris (ch rt-tw fgts)	1 1 max 10
Polygonum lapathifolium	1	cf. Calluna vulgaris (cf. rt-tw fgts)	1 max 10 1 max 5
Polygonum persicaria	1	cf. Gramineae (c/n)	1 max 3
Potentilla anserina (ch)	1	cf. Knautia arvensis	1
Prunella vulgaris	1	cf. Linum usitatissimum (stem fgts)	1
Quercus sp(p). (b/bs)	1	cf. Rorippa sp(p).	1
Ranunculus cf. sardous (ch)	1	charcoal	1 max 10 mm
* *	1	Cruciferae (pedicels)	1 11142 10 111111
Raphanus raphanistrum (pod segs/fgts)	-	Dicranum cf. scoparium	1
	1	Diphasium complanatum	1 v dec
	1 max 10 mm	Diphasium compianatum Drepanodadus sp(p).	1 v dec
- · · · · · · · · · · · · · · · · · · ·	1 fragment(s) only	Eleocharis sp(p).	1
	1 magnicings) only	Eurhynchium sp(p).	1
	1	Eurhynchium striatum	1
	1	Filipendula ulmaria	1
	1 max 10 mm	fly puparia	1
	1 inc fragments	Gramineae	1
	<i>Q</i> • • • •		

		0.11 - 1 - 1 - (44	
gravel	1 max 25 mm	Callura vulgaris (rt-tw fgts)	
grit	1	Callura vulgaris (sht fgts)	
Homalothecium sericeum/lutescens	1	Campylium stellatum 1	
Hyoscyamus niger	1	Carex $sp(p)$.	
Hypnum cf. cupres siforme	1	Carex sp(p). (ch stem fgts)	
Isothecium myosur oides	1	cf. Calluna vulgaris (ch rt-tw fgts)	
Isothecium myurum	1	cf. Cladium mariscus (ch lf fgts)	
leather fgts	1 v dec, max 15	cf. Glyœria sp(p).	
leating ligits		charred herbaceous detritus	
	mm		<u>.</u> I
Linum usitatiss imum	1		
Linum usitatissimum (caps fgts)	1	charred rhizome/root fgts	
Neckera complanata	1	Coronopus squamatus	
Neckera crispa	1	Corylus avellana	v dec, max 5 mm
Polygonum aviculare agg.	1	Descurainia sophia	
Polygonum hydropip er	1 inc fragments	dicot stem fgts	[
Polygonum persicaria	1	Dicranum $sp(p)$.	
Potentilla anserina	1		l v dec
Potentilla cf. erecta	1	Erica tetralix (lvs)	1
	1	Eurhynchium sp(p).	<u>.</u>
Potentilla palustris	l		-
Ranunculus sardous	1	Barry nemam stratam	-
Raphanus raphanistrum (pod segs/fgts)	1	ny papana	1
Rubus fruticos us agg.	1	control control control	1
Rumex sp(p).	1	Gramineae/Cerealia (ch c/n)	1
Sonchus oleraceus	1	gravel	1 max 15 mm
Spergula arvensis	1	Homalothecium sericeum/lutescens	1
Sphagnum sp(p). (lvs)	1	Hylocomium splendens	1
Stellaria media	1	-	1
Thuidium tamariscinum	1		1
	-	•	1
Ulota sp(p).	1		=
Umbelliferae	1 v dec		1
Urtica urens	1	8 (F 8)	1
wood chips	1 max 5 mm	Zilidili doltatioo illidili	1
wood fgts	1 max 5 mm	Linumusitatissimum(caps fgts)	1
		Neckera complanata	1
		Pleurozium schreberi	1
Context 2178, Sample 292 (T)		Polygonum aviculare agg.	1
Context 2176, Sample 232 (1)			1
1 1	2 20		1
charcoal	3 max 20 mm		1
Atriplex sp(p).	2	-	1
bark fgts	2 v dec, max 15		
	mm	()	1
sclereids (from bark)	2	Quercus sp(p). (b/bs)	1
Urtica dioica	2		1
Urtica urens	2	Raphanus raphanistrum (pod segs/fgts)	1
wood fgts	2 v dec, max 20	root bark/epidermis fgts	1
Woodigio	mm	Rubus fruticos us agg.	1
Aethusa cynapium	1		1
			1
Agrostemma githago	1	_	1
Agrostemma githago (sf)	1		1
Anthemis cotula	1		
Antitrichia curtipendula	l		1
Aulacomnium palustre	1	Sonchus as per	1
beetles	1	Sonchus oleraceus	1
bone fgts	1 max 25 mm		1
Brassica rapa	1	8	1
Brassica sp(p).	1	Triticum/Secale ('bran' fgts)	1
brick/tile	1 max 2 mm		1
Calliergon cuspidatum	1		1
Calluna vulgaris (fls)	1	•	
Carrain vargaris (115)	1		

Context 2178, Sample 292 (T1)		Cruciferae (pedicels)	
		dicot lf fgts 1	
bark fgts	3 max 35 mm	Diphasium complanatum 1	
charcoal	3 max 20 mm	earthworm egg caps 1	
sclereids (from bark)	3 max 4 mm	Erica tetralix (lvs) 1 Euphorbia helioscopia 1	
Atriplex sp(p).	2	Eurhynchium praelongum 1	
Aulacomnium palustre	2	Eurhynchium striatum 1	
cf. Calluna vulgaris (ch rt-tw fgts)	2 max 10	Filipendula ulmaria	
cf. Calluna vulgaris (rt-tw fgts)	2 max 20	•	max 5 mm
Cladium mariscus (ch lf fgts)	2	fly puparia 1	
Dicranum scoparium	2		max 10 mm
Hypnum cf. cupres siforme	2	Galeopsis Subgenus Galeopsis 1	
Leucobryum glaucum	2	Gramineae (epid fgts)	
Pleurozium schreberi	2	Gramineae (cprd 1gts) Gramineae/Cerealia (c/n) 1	
Polygonum hydropip er	2	Gramineae/Cerealia (ch c/n)	
sand	2	Gramineae/Cerealia (ch culm fgts)	
Urtica dioica	2	Gramineae/Cerealia (culm fgts)	
Urtica urens	2		max 35 mm
?pottery	1 max 10 mm	herbaceous detritus	
Achillea millefolium	1	herbaceous detritus (ch)	
Aethusa cynapium	1	Homalothecium sericeum/lutescens	
Agrostemma githago	1	Hordeum sp(p). (spklts/fgts)	
Agrostemma githago (sf)	1	Hordeum vulgare (rachis fgts)	
Anthemis cotula	1	Hylocomium cf. brevirostre 1	
Anthriscus sylvestris	1	Hypochoeris sp(p).	
Antitrichia curtipendula	1	Isatis tinctoria (pod fgts)	<u> </u>
Avena sp(p). ('bran' fgts)	1	Isothecium myosuroides	<u> </u>
bark chips	1 max 35 mm	Isothecium myurum	
bark fgts (ch)	1 max 10 mm	Juncus sp(p). (ch caps)	
beetles	1	Lapsana communis	-
Betula sp(p).	1	leaf ab pads	='
Betula sp(p). (b/bs)	1		l v dec, max 35
Betula sp(p). (fcs)	1	reating 1gts	mm
Betula sp(p). (mc fgts)	1	Leguminosae (pods/fgts)	l max 5 mm
bone fgts	1 max 50 mm	Leontodon sp(p).	
Brassica rapa	1	Linum usitatiss imum	
Brassica sp(p).	1	Linumusitatissimum(caps fgts)	
Bryum sp(p).	1 1 max 10 mm	Malus sylvestris (endo)	1
burnt bone fgts			l max 5 mm
Calliergon cf. giganteum	1	moss (contaminant)	
Calliergon cuspidatum	1		1
Callum vulgaris (ch sht fgts)	1		1
Calluna vulgaris (fls) Calluna vulgaris (sht fgts)	1	· •	1
	1		1
Campylium stellatum	1 1		1
Campylopus sp(p).	1		1
Carex sp(p).	-		1 a single spec
Centaurea cf. nigra (inv br) Centaurea cf. nigra (inv fgts)	1 1	Potentilla anserina	1
Cerealia indet. (chaff)	1		1
cf. Cratoneuron filicinum	1	Primula cf. veris	1
cf. Salix sp(p). (fr)	1		1
cf. Secale cereale	1		1
charred rhizome/root fgts	1 max 5 mm	Ranunculus sardous	1
Chenopodium album	1 max 3 mm		1
	1	Raphanus raphanistrum (pod segs/fgts)	
Chenonodium murala	1		
Chenopodium murale		Raphanus raphanistrum (s)	1
Chenopodium murale Cladium mariscus (Iffgts) Coronopus squamatus (fr)	1 1	r	1 1

Salix sp(p). (b) Sambucus nigra Scorpidium s corpioides Sonchus as per Sonchus oleraceus Sonchus palustris/arvensis Sphagnum papillosum Stellaria media Thuidium tamariscinum Torilis japonica	1 1 1 1 1 1 1 1 1 1 very worn	gravel grit Homalothecium sericeum/lutescens Hylocomium splendens Isothecium myosur oides Isothecium myurum leaf ab pads leather fgts	max 10 mm max 15 mm
	1 max length 40 mm by 10 mm width/diameter	(I I
	1	Tree to the complete to	1
1	1 max 15 mm	1 minuge majer	1
wood fgts	1 max 15 mm	78	[[
			1
Context 2189, Sample 296 (T)			1
Context 2189, Sample 290 (1)			1
bark fgts	3 v dec, max 25		1
bark 1gb	mm	- · · · · · · · · · · · · · · · · · · ·	1
Gramineae	2	Ranunculus sardous	1
	2	Ranunculus sceleratus	1
	2	Ranunculus Section Ranunculus	1
	2	Raphanus raphanistrum (pod segs/fgts)	1
	2		1
	2	14)	1
Urtica dioica	2	2 11212 117 117 117 117	1
Urtica urens	2	2	1
Veronica beccabunga-type	2		1
8 8 - 8 - (-)	1		1
8.0	1		1
r - r d y	1	Sometime disper	1
beetles	1		1 1
-8	1 max 30 mm	-r	1 1
	1 max 15 mm	Thuidium cf. tamariscinum	1
2 ()	1		1
- 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1	1		1 max 3 mm
S ()	1 1	•	1 max 5 mm
Callura vulgaris (s) Callura vulgaris (sht fgts)	1 1	wood 1gto	1 111011 0 111111
Carduus/Cirsium sp(p).	1 1		
	1	Context 2191, Sample 311 (T)	
cf. Anagallis arvensis	1		
cf. Calluna vulgaris (rt-tw fgts)	1	Urtica urens	3
- · · · · · · · · · · · · · · · · · · ·	1 max 15 mm	bark fgts	2 v dec, max 20
Chenopodium album	1	-	mm
-	1	Polygonum lapathifolium	2
	1	3 & 1	2
Coronopus squamatus	1		2
Coronopus squamatus (fr)	1		2
3	1 max 10 mm		1
8	1	brick/tile	1 max 10 mm
dicot stem fgts	1	2	1 max 5 mm
r r	1 v dec	Carduus/Cirsium sp(p).	1
eggshell fgts	1 max 5 mm	Carex sp(p).	1

cf. Calluna vulgaris (rt-tw fgts)	1	pottery	1 max 30 mm
cf. Rorippa palustris	1		
charcoal	1 max 5 mm		
Coronopus squamatus (fr)	1	Context 3067, Sample 3067 (BS)	
Corylus avellana	1 max 10 mm		
eggshell membrane fgts	1	brick/tile	1 max 70 mm
fish bone	1 max 10 mm	burnt bone fgts	1 max 10 mm
freshwater snails	1	charcoal	1 max 5 mm
Galeopsis Subgenus Galeopsis	1	cinders	1 max 20 mm
gravel	1 max 20 mm	coal	1 max 25 mm
grit	1	gravel	1 max 25 mm
Isothecium myurum	1	mammal bone	1 max 30 mm
leather fgts	1 max 5 mm	pottery	1 max 80 mm
Neckera complanata	1	pottery	1 max oo mm
oyster shell fgts	1		
Polygonum hydropip er	1		
Ranunculus sceleratus	1	C + +2000 C 1 100 (T)	
Raphanus raphanistrum (pod segs/fgts)	=	Context 2069, Sample 160 (T)	
	1		
Rubus fruticos us agg.		brick/tile	2 max 40 mm
Rumex sp(p).	1	charcoal	2 max 15 mm
Sambucus nigra	1	sand	2
sclereids (from bark)	1	Alisma sp(p).	1 'embryos' only
Scorpidium s corpioides	1	cinders	1 max 5 mm
snails	1 a single spec	coal	1 max 5 mm
Sonchus as per	1	fish bone	1
Sonchus oleraceus	1	fish scale	1
Stellaria media	1	Juncus sp(p).	1
Thuidium cf. tamariscinum	1	Lemna sp(p). (fronds)	1
Veronica beccabunga-type	1	pottery	1 max 15 mm
wood chips	1 max 10 mm	r · · · · 5	
wood fgts	1 v dec, max 10		
-	mm	Context 3069, Sample 3069 (BS)	
		Context 5007, Sample 5007 (BS)	
		bone fgts	1
Context 3005, Sample 3005 (BS)		brick/tile	1 max 100 mm
		charcoal	1 max 10 mm
brick/tile	2 max 70 mm	cobbles	1 max 80 mm
bone fgts	1 max 70 mm		1 max 30 mm
charcoal	1 max 5 mm	gravel	
gravel	1 max 50 mm	otoliths	1
pottery	1 max 50 mm	oyster shell fgts	1
pottery	1 max 50 mm	pottery	1 max 40 mm
Context 3006, Sample 3006 (BS)	.	C + + 2077 C 1 156 (T)	
Context 3000, Sumple 3000 (BS)		Context 3077, Sample 156 (T)	
bone fgts	1 max 25 mm	C 1	2 20
brick/tile	1 max 25 mm	faecal concretions	3 max 30 mm
burnt bone fgts	1 max 35 mm 1 max 30 mm	rat-tailed maggot (min fgts)	2
		'char'	1 max 1 mm
cf. Calluna vulgaris (ch rt-tw fgts)	1 max 15	Agrostemma githago (min casts/moulds) 1
gravel	1 max 45 mm	Bilderdykia convolvulus (min)	1
Sambucus nigra	1	bone fgts	1
		Brassica sp./Sinapis arvensis (min cot)	1
		brick/tile	1 max 50 mm
		orien the	
Context 3007, Sample 3007 (BS)		Cerealia indet. (min)	1
Context 3007, Sample 3007 (BS)			1 1 a single spec
Context 3007, Sample 3007 (BS) brick/tile	1 max 80 mm	Cerealia indet. (min) cf. Cannabis sativa (min)	-
	1 max 80 mm 1 max 15 mm	Cerealia indet. (min) cf. Cannabis sativa (min) cf. Prunus sp(p). (min s)	-
brick/tile charcoal		Cerealia indet. (min) cf. Cannabis sativa (min) cf. Prunus sp(p). (min s) charcoal	1 a single spec 1
brick/tile	1 max 15 mm	Cerealia indet. (min) cf. Cannabis sativa (min) cf. Prunus sp(p). (min s)	1 a single spec 1 1 max 5 mm

Heterodera (cysts)	1	concreted sediment	2
Malus sylvestris (min)	1	gravel	2 max 40 mm
Prunus sp(p). (min meso+endo)	1	sand	2
sand	1	bone fgts	1 max 15 mm
sand	1	pottery	1 max 15 mm
		Sambucus nigra	1
Context 3077, Sample 3077 (BS)		Samouva ingra	•
		Contact 2179 Commis 195 (T)	
faecal concretions	2 max 30 mm	Context 3178, Sample 185 (T)	
amphibian bone	1	brick/tile	3 max 30 mm
brick/tile	1 max 65 mm	charcoal	2 max 30 mm
			2 max 30 mm
G + +2050 G + 1,2050 (DG)		gravel sand	2 max 30 mm 2
Context 3078, Sample 3078 (BS)		Alisma sp(p).	1 'embryos' only
191 1		bone fgts	1 max 50 mm
amphibian bone	1	burnt bone fgts	1 max 10 mm
brick/tile	1 max 40 mm	coal	1 max 10 mm
charcoal	1 max 5 mm	Coniferae (charcoal)	1 max 10 mm
fish bone	1 50	Fe object(s)	1
gravel	1 max 50 mm	Lemna sp(p). (fronds)	1
mammal bone	1 1 max 25 mm	pottery	1 max 25 mm
pottery	1 max 23 mm	pottery	1 max 25 mm
G		Context 3178, Sample 3178 (BS)	
Context 3082, Sample 3082 (BS)		context 3170, Sample 3170 (BB)	
brick/tile	2 max dim 130	?burnt peat fgts	1 max 10 mm
	mm	bird bone	1 max 50 mm
bone fgts	1 max 80 mm	brick/tile	1
charcoal	1 max 5 mm	burnt bone fgts	1 max 15 mm
gravel	1 max 70 mm	burnt oyster shell fgts	1 max 15 mm
pottery	1 max 60 mm	charcoal	1 max 10 mm
		gravel	1
		mammal bone	1 max 90 mm
Context 3100, Sample 3100 (BS)		pottery	1 max 60 mm
bone fgts	1 max 80 mm		
brick/tile	1 max 40 mm	Context '9271', Sample 271 (T)	
burnt bone fgts	1 max 40 mm		
charcoal	1 max 23 mm	bark fgts	4 max 60 mm
gravel	1 max 10 mm	bast fgts	3 max 5 mm
pottery	1 max 60 mm	Urtica dioica	2
pottery	1 max oo min	Anthemis cotula	1
Context 3169, Sample 183 (BS)		Anthemis cotula (ch)	1
content 5105, Sumple 105 (BB)		buds	1
bird bone	1	Calluna vulgaris (caps)	1 fragment(s) only
brick/tile	1 max 90 mm	cf. Calluna vulgaris (ch rt-tw fgts)	1
charcoal	1 max 5 mm	charcoal	1 max 10 mm
fish bone	1	Eleocharis palustris sl	1
gravel	1 max 50 mm	Gramineae/Cerealia (ch culm fgts)	1
mammal bone	1 max 50 mm	grit	1
pottery	1 max 40 mm	Isothecium myosuroides	1
powers	1 111111	Isothecium myurum	1
		monocot lf/stem fgts	1
Context 3169, Sample 184 (T)		Neckera crispa	1
2011018 2107, Bumple 107 (1)		root/rootlet fgts	1
brick/tile	2 max 25 mm	Rumex sp(p).	1
charcoal	2 max 15 mm	sclereids (from bark)	1
01101 0001	∠ mux 1.7 mm	Urtica urens	1

wood fgts	1 max 30 mm	Linum usitatissimum (caps fgts) Neckera complanata	1 max 2
		Pastinaca sativa/Heracleum sphondyliur	
		D. 1	1 fragment(s) only
Context '9271', Sample 271 (T1)		Polygonum aviculare agg.	l
		Potentilla anserina	l
bark fgts	4 max 40 mm	Potentilla cf. erecta	1 20
sclereids (from bark)	4 max 2 mm	pottery	1 max 30 mm
earthworm egg caps	2	root/rhizome fgts	1 max 2 mm
Agrostemma githago (sf)	1	root/rootlet fgts	l
Antitrichia curtipendula	1	Rumex sp(p).	1
Atriplex sp(p).	1	Sambucus nigra	1 inc fragments
beetles	1	sand	1
bone fgts	1 max 50 mm	twig fgts	l
Brassica sp(p).	1	Urtica dioica	1 7
brick/tile	1 max 2 mm	woodfgts	1 max 5 mm
burnt bone fgts	1 max 20 mm		
Calliergon cf. giganteum	1	-	
cf. Alopecurus sp(p).	1	Context 1032/1033, Sample 85 (T)	
cf. Calluna vulgaris (ch rt-tw fgts)	1		
charcoal	1 max 15 mm	bark fgts	3 max 25 mm
Chenopodium album	1	'ash beads'	1
Crataegus sp(p). (thorns)	1	bast fgts	1
Crataegus sp(p). (thorny twig fgts)	1	bone fgts	1 max 30 mm
Eurhynchium striatum	1	brick/tile	1 max 15 mm
fly puparia	1	burnt bone fgts	1 max 10 mm
gravel	1 max 30 mm	Carex sp(p).	1
Homalothecium sericeum/lutescens	1	cf. Calluna vulgaris (ch rt-tw fgts)	1
Hypnum cf. cupres siforme	1	charcoal	1 max 20 mm
Isothecium myosur oides	1	Chenopodium cf. polyspermum	1
leather fgts	1 v dec, max 2 mm	grit	1
Leucodon sciuroides	1	sand	1

Table 6. Layerthorpe Bridge, York: 'abundance-indicator' values (AIVs) greater than 50 for the plant remains from GBA subsamples. See Table 7 for an explanation of the codes for groups.

Con	text 14, Sample 48/T		V	BIDE	125	V	CHEN	222
U	FOOS	177				V	PLAN	185
V	QUFA	101				V	BIDE	160
V	PLAN	75	Con	text 38, Sample	17/T	U	FOOS	125
V	CHEN	71	V	CHEN	166	V	ARTE	92
V	SECA	61	V	SECA	56	V	POTA	85
						V	SECA	76
						V	PHRA	61
	Sample 48/T1		Con	text 40, Sample	19/T	V	QUFA	61
V	CHEN	246	U	FOOS	251	U	FOOO	51
U	FOOS	151	V	CHEN	245			
V	QUFA	77	V	BIDE	165			
·	20111		v	QUFA	100	Con	text 1029, Samp	le 79/T
			v	ARTE	60	V	PLAN	685
Con	text 16, Sample 52/T		v	RHPR	55	V	CHEN	285
V	CHEN	190	v	SECA	55	V	SECA	205
v U	FOOS	76	v	NACA	52	Ü	FOOS	76
V		60	U U	FOOO	51	V	NACA	65
V	QUFA	60	U	1000	31	V	QUFA	60
	C1 - 52/T1					•	Q0171	00
<u> </u>	Sample 52/T1	221	Con	text 41, Sample	27/T		Sample 80/T	1
V	CHEN	231	V	CHEN	130	V	CHEN	175
U	FOOS	151				U	FOOS	153
V	SECA	86	U	FOOS	76	V	NACA	142
V	BIDE	65	V	NACA	76	V	PLAN	130
V	NACA	57				V	QUFA	86
V	QUFA	57	~		1 7 6 (77)	V	SECA	85
				itext 1012, Samp		V V	ARTE	65
			V	CHEN	241	V	AKIE	63
_	text 18, Sample 41/T		V	PLAN	130			
V	BIDE	655	U	FOOS	102		1021 G	1 04
V	PHRA	331	V	NACA	86		itext 1031, Samp	
V	POTA	151	V	SECA	80	V	CHEN	196
						U	FOOS	152
						V	PLAN	130
Con	text 19, Sample 45/T		Cor	itext 1014, Samp	ole 59/T1	V	QUFA	75
V	ARTE	287	V	CHEN	65	V	SECA	61
U	FOOS	200	V	QUFA	55	V	NACA	52
U	FOOO	151	V	NACA	53			
U	FIBR	150	U	FOOS	51			
V	BIDE	140				Con	itext 1033, Samp	ole 68/T
V	CHEN	132				V	QUFA	55
Ü	DYES	125	Con	text 1024, Samp	ole 73/T			
V	PLAN	125	U	FOOS	225			
v	SECA	116	V	LEMN	125	Con	itext 1039, Samp	ole 90/T
V	PHRA	106	V	POTA	100	U	FOOS	175
V	POTA	105	V	ARTE	81	U	FIBR	125
٧	101/1	103	V	RHPR	55	U	FOOO	125
			v	KIII K	33	V	SECA	56
Con	text 20, Sample 38/T		Con	text 1027, Samp	de 75/T	U	FOOS	377
Con	.text 20, Sample 30/1		Con	iteat 102 /, Sallip	710 / 3/ 1	C	1000	511

V	CHEN	371	V	OXSP	61	V	QUFA	68
V	SECA	196	U	USEF	51	V	PLAN	60
V	QUFA	106				V	ALNE	51
V	RHPR	90				V	RHPR	51
V	ARTE	66	Con	text 2007, Samp	ole 213/T1			
V	NACA	56	U	FOOS	904			
U	FOOO	51	U	FIBR	900	Con	text 2131, Samp	le 280/T
			U	FOOO	825	V	CHEN	275
			V	CHEN	322	V	NACA	206
Cont	text 1047, Sai	mple 95/T	V	BIDE	315	U	FOOS	201
V	BIDE	90	V	POTA	315	U	DYES	125
V	CHEN	90	V	PLAN	190	V	SECA	85
U	FOOS	52	V	SECA	181	V	OXSP	66
			V	ARTE	171	V	QUFA	61
			V	PHRA	150	V	PLAN	55
Cont	text 1052, Sai	mple 117/T	V	NACA	118			
V	NACA	77	V	QUFA	101			
V	QUFA	75	V	MOAR	68	Con	text 2131, Samp	le 281/T1
V	CHEN	60	V	EPIL	65	V	CHEN	236
			V	OXSP	53	U	FOOS	176
			U	USEF	52	U	DYES	150
Con	text 2005, Sa	mple 138/T1				M	LIGN	93
V	ARTE	272				M	SLIT	86
V	CHEN	215	Con	text 2023, Samp	ole 206/T	V	NACA	61
V	BIDE	195	V	CHEN	116	V	SECA	61
V	SECA	171	U	FOOS	100	V	PLAN	55
Ü	FOOS	158	V	SECA	96	U	FIBR	51
Ü	DYES	152	V	PLAN	55			
V	POTA	131						
V	ISNA	130				Con	text 2160, Samp	le 287/T
V	PLAN	90	Con	text 2030, Samp	ole 286/T	V	CHEN	305
V	NACA	88	V	NACA	300	U	USEF	152
U	FOOO	76	V	CHEN	86	V	PHRA	150
V	MOAR	67	V	OXSP	60	V	SECA	65
V	PHRA	66				V	QUFA	55
V	QUFA	66						
V	FEBR	56		Sample 286/	Τ1		Sample 287/1	71
U	FIBR	51	V	NACA	2180	U	USEF	677
			V	OXSP	435	V	PHRA	646
			V	CHEN	191	V	CHEN	372
Con	text 2006, Sa	mple 214/T1	V	BIDE	190	V	PLAN	340
U	FIBR	1875	V	PLAN	180	V	SECA	217
U	FOOS	1579	U	FOOS	175	U	FOOS	156
U	FOOO	1400	V	ISNA	130	V	QUFA	93
V	SECA	436	V	SECA	56	V	ARTE	81
V	CHEN	376				V	NACA	80
V	ARTE	312				M	LIGN	67
V	BIDE	240				V	BIDE	65
V	POTA	212				M	BOGS	61
V	QUFA	188	Cor	ntext 2065, Samp	ole 258/T1	M	SLIT	61
V	PLAN	180	U	FOOS	376	M	HEMO	57
V	NACA	157	V	CHEN	251			
V	ISNA	130	V	SECA	116			
V	PHRA	68	V	BIDE	90		Sample 291/1	71

V	SECA	100		Sample 292/T	1	Con	text 2189, Samp	ole 296/T
V	CHEN	75	V	CHEN	321	V	CHEN	272
U	FOOS	75	U	USEF	181	V	PLAN	210
M	BOGS	56	M	HEMO	180	V	BIDE	190
U	FIBR	51	U	FOOS	177	V	NACA	157
			V	BIDE	165	U	FOOS	150
			V	PHRA	151	V	SECA	102
Con	text 2178, Sam	ple 292/T	V	SECA	151	V	QUFA	72
V	CHEN	235	M	BOGS	111			
U	FOOS	150	M	LIGN	102			
V	SECA	120	M	SLIT	97	Con	text 2191, Samp	ole 311/T
V	NACA	81	V	NACA	86	V	CHEN	700
V	QUFA	61	V	ARTE	66	V	BIDE	106
V	ARTE	55	V	QUFA	62	U	FOOS	75
V	BIDE	55	V	PLAN	60	V	QUFA	60
U	FOOO	51	M	WOOF	56		-	
			U	FOOO	51			

Table 7. Explanation of AIV group codes used in Table 6.

Group	Group	Explanation
type		
M	BOGS	mosses of peat bogs
M	HEMO	mosses of heathland and moorland
M	LIGN	mosses growing on tree bark/dead wood
M	SLIT	mosses of shaded rocks
M	WOOF	mosses of woodland floors
T T	DWEG	
U	DYES	plants certainly or probably used in dyeing
U	FIBR	plants certainly or probably used as a source of fibre
U	FOOO	plants certainly or probably used for oil
U	FOOS	primary food plants
U	USEF	plants useful in some way other than for food, fibre, oil, dyeing, medicine or as ornamentals
V	ALNE	plants of alder carr
V	ARTE	plants of biennial and perennial nitrophilous tall-herb weed communities of waste places,
•	TINIE	river-banks, waysides and hedgerows
V	BIDE	plants of nitrophilous weed communities of pond edges, ditches and other places subject to
		periodic inundation
V	CHEN	plants of annual nitrophilous weed communities of cultivated and other disturbed land,
		especially rootcrop fields and gardens
V	EPIL	plants of nitrophilous woodland edge and clearing communities
V	FEBR	plants of drier, typically calcareous, grassland
V	ISNA	plants of short-lived dwarf-rush communities of winter-wet (often sandy) habitats, pond
		edges, wet tracks
V	LEMN	plants of free-floating aquatic communities of eutrophic waters
V	MOAR	plants of grassland, including the wetter meadows and pastures, and adjacent paths
V	NACA	plants of grass- and dwarf-shrub (typically Calluna-) dominated dry heaths and moors
V	OXSP	plants of raised bogs and wet heaths
V	PHRA	plants of freshwater reedswamp communities
V	PLAN	plants of trampled places
V	POTA	plants of rooted aquatic vegetation of still or slow-moving water
V	QUFA	plants of deciduous woodland on better soils
V	RHPR	plants of woodland edge scrub communities
V	SECA	plants of annual weed communities in cereal fields

Table 8. Layerthorpe Bridge, York: main statistics by subsample for assemblages of adult Coleoptera and Hemiptera (excluding Aphidoidea and Coccidoidea). Assessment-recorded samples are, of course, excluded. For explanation of codes see Table 9.

CN	14	16	1012	1014	1029	1038	1039	2005
SN	48	52	56	59	80	89	90	138
Ext.	/T1	/T1	/T1	/T1	/T1	/T1	/T1	/T1
S	21	72	14	11	12	11	51	79
N	34	123	47	12	20	11	196	111
ALPHA	24	73	7	0	13	0	23	122
SEALPHA	8	12	2	0	6	0	3	24
SOB	6	23	3	4	1	8	8	38
PSOB	29	32	21	36	8	73	16	48
NOB	6	25	4	5	1	8	8	48
PNOB	18	20	9	42	5	73	4	43
ALPHAOB	0	132	0	0	0	0	0	83
SEALPHAOB	0	91	0	0	0	0	0	28
SW	2	2	0	0	0	1	1	11
PSW	10	3	0	0	0	9	2	14
NW	2	2	0	0	0	1	1	13
PNW	6	2	0	0	0	9	1	12
ALPHAW	0	0	0	0	0	0	0	0
SEALPHAW	0	0	0	0	0	0	0	0
SD	1	0	1	1	0	2	2	6
PSD	5	0	7	9	0	18	4	8
ND	1	0	1	2	0	2	2	7
PND	3	0	2	17	0	18	1	6
ALPHAD	0	0	0	0	0	0	0	0
SEALPHAD	0	0	0	0	0	0	0	0
SP	3	5	0	1	0	6	2	14
PSP	14	7	0	9	0	55	4	18
NP	3	5	0	1	0	6	2	20
PNP	9	4	0	8	0	55	1	18
ALPHAP	0	0	0	0	0	0	0	21
SEALPHAP	0	0	0	0	0	0	0	10
SM	0	1	0	0	0	0	0	1
PSM	0	1	0	0	0	0	0	1
NM	0	1	0	0	0	0	0	1
PNM	0	1	0	0	0	0	0	1
ALPHAM	0	0	0	0	0	0	0	0
SEALPHAM	0	0	0	0	0	0	0	0
SL	2	3	1	1	1	1	2	1
PSL	10	4	7	9	8	9	4	1
NL	4	4	1	1	1	1	7	2

CN	14	16	1012	1014	1029	1038	1039	2005
SN	48	52	56	59	80	89	90	138
Ext.	/ T1	/T1	/T1	/T1	/T1	/T1	/T1	/T1
PNL	12	3	2	8	5	9	4	2
ALPHAL	0	0	0	0	0	0	0	0
SEALPHAL	0	0	0	0	0	0	0	0
SRT	9	34	4	3	6	0	32	30
PSRT	43	47	29	27	50	0	63	38
NRT	20	80	30	3	12	0	169	51
PNRT	59	65	64	25	60	0	86	46
ALPHART	6	23	1	0	0	0	12	31
SEALPHART	2	4	0	0	0	0	2	8
SRD	1	4	0	0	0	0	3	6
PSRD	5	6	0	0	0	0	6	8
NRD	1	7	0	0	0	0	8	12
PNRD	3	6	0	0	0	0	4	11
ALPHARD	0	0	0	0	0	0	0	0
SEALPHARD	0	0	0	0	0	0	0	0
SRF	0	7	0	0	0	0	7	4
PSRF	0	10	0	0	0	0	14	5
NRF	0	11	0	0	0	0	10	4
PNRF	0	9	0	0	0	0	5	4
ALPHARF	0	0	0	0	0	0	0	0
SEALPHARF	0	0	0	0	0	0	0	0
SSA	9	23	3	2	4	1	24	22
PSSA	43	32	21	18	33	9	47	28
NSA	22	66	29	2	10	1	160	37
PNSA	65	54	62	17	50	9	82	33
ALPHASA	6	13	1	0	0	0	8	23
SEALPHASA	2	3	0	0	0	0	1	7
SSF	6	12	2	2	2	1	10	13
PSSF	29	17	14	18	17	9	20	16
NSF	19	42	28	2	8	1	78	21
PNSF	56	34	60	17	40	9	40	19
ALPHASF	0	6	1	0	0	0	3	15
SEALPHASF	0	1	0	0	0	0	1	6
SST	3	10	1	0	2	0	13	7
PSST	14	14	7	0	17	0	25	9
NST	3	23	1	0	2	0	80	13
PNST	9	19	2	0	10	0	41	12
ALPHAST	0	7	0	0	0	0	5	0
SEALPHAST	0	2	0	0	0	0	1	0
SSS	0	1	0	0	0	0	1	2
PSSS	0	1	0	0	0	0	2	3
NSS	0	1	0	0	0	0	2	3

CN	14	16	1012	1014	1029	1038	1039	2005
SN	48	52	56	59	80	89	90	138
Ext.	/T1	/T1	/T1	/T1	/T1	/T1	/T1	/T1
PNSS	0	1	0	0	0	0	1	3
ALPHASS	0	0	0	0	0	0	0	0
SEALPHASS	0	0	0	0	0	0	0	0
SG	0	0	0	0	0	0	0	0
PSG	0	0	0	0	0	0	0	0
NG	0	0	0	0	0	0	0	0
PNG	0	0	0	0	0	0	0	0
ALPHAG	0	0	0	0	0	0	0	0
SEALPHAG	0	0	0	0	0	0	0	0

CN	2065	2131	2160	2160	2178	9271	Whole
SN	258	281	287	291	292	271	site
Ext.	/T1	/T1	/T1	/T1	/ T1	/T1	
S	70	69	95	92	121	44	312
N	105	111	163	213	240	68	1454
ALPHA	91	78	95	61	97	54	122
SEALPHA	18	14	13	7	11	12	5
SOB	24	22	37	29	51	10	142
PSOB	34	32	39	32	42	23	46
NOB	27	23	55	45	91	10	356
PNOB	26	21	34	21	38	15	24
ALPHAOB	100	225	50	36	48	0	87
SEALPHAOB	58	201	14	10	9	0	8
SW	5	8	9	5	11	4	27
PSW	7	12	9	5	9	9	9
NW	5	9	18	11	28	4	94
PNW	5	8	11	5	12	6	6
ALPHAW	0	0	0	0	7	0	13
SEALPHAW	0	0	0	0	2	0	2
SD	1	2	6	3	4	1	22
PSD	1	3	6	3	3	2	7
ND	1	2	7	9	6	1	41
PND	1	2	4	4	3	1	3
ALPHAD	0	0	0	0	0	0	20
SEALPHAD	0	0	0	0	0	0	5
SP	8	8	15	12	20	2	59
PSP	11	12	16	13	17	5	19
NP	8	8	19	15	32	2	121
PNP	8	7	12	7	13	3	8
ALPHAP	0	0	0	0	23	0	46
SEALPHAP	0	0	0	0	8	0	7
SM	0	0	2	0	1	0	4
PSM	0	0	2	0	1	0	1
NM	0	0	3	0	1	0	6
PNM	0	0	2	0	0	0	0
ALPHAM	0	0	0	0	0	0	0
SEALPHAM	0	0	0	0	0	0	0
SL	2	3	2	4	6	3	15
PSL	3	4	2	4	5	7	5
NL	7	5	4	8	12	3	60
PNL	7	5	2	4	5	4	4
ALPHAL	0	0	0	0	0	0	7
SEALPHAL	0	0	0	0	0	0	1
SRT	27	27	36	45	42	26	300
PSRT	39	39	38	49	35	59	96

CN	2065	2131	2160	2160	2178	9271	Whole
SN	258	281	287	291	292	271	site
Ext.	/T1	/T1	/T1	/T1	/T1	/T1	
NRT	48	64	79	126	99	49	830
PNRT	46	58	48	59	41	72	57
ALPHART	26	18	26	25	28	23	169
SEALPHART	7	4	5	4	5	6	9
SRD	3	2	6	5	4	2	36
PSRD	4	3	6	5	3	5	12
NRD	3	8	18	25	20	8	110
PNRD	3	7	11	12	8	12	8
ALPHARD	0	0	0	2	2	0	19
SEALPHARD	0	0	0	1	1	0	3
SRF	4	5	4	5	7	3	46
PSRF	6	7	4	5	6	7	15
NRF	12	6	11	21	18	4	97
PNRF	11	5	7	10	8	6	7
ALPHARF	0	0	0	2	0	0	34
SEALPHARF	0	0	0	1	0	0	6
SSA	18	20	26	36	32	21	76
PSSA	26	29	27	39	26	48	24
NSA	33	43	56	98	79	42	678
PNSA	31	39	34	46	33	62	47
ALPHASA	16	15	19	21	20	17	22
SEALPHASA	5	4	4	3	4	5	2
SSF	12	11	14	19	19	11	40
PSSF	17	16	15	21	16	25	13
NSF	26	27	30	55	40	25	402
PNSF	25	24	18	26	17	37	28
ALPHASF	9	7	10	10	14	8	11
SEALPHASF	3	2	3	2	4	3	1
SST	5	8	11	12	11	8	30
PSST	7	12	12	13	9	18	10
NST	6	15	25	37	37	15	257
PNST	6	14	15	17	15	22	18
ALPHAST	0	0	8	6	5	0	9
SEALPHAST	0	0	3	2	1	0	1
SSS	1	1	1	5	2	2	6
PSSS	1	1	1	5	2	5	2
NSS	1	1	1	6	2	2	19
PNSS	1	1	1	3	1	3	1
ALPHASS	0	0	0	0	0	0	0
SEALPHASS	0	0	0	0	0	0	0
SG	0	0	0	0	0	0	0
PSG	0	0	0	0	0	0	0

CN	2065	2131	2160	2160	2178	9271	Whole
SN	258	281	287	291	292	271	site
Ext.	/T1	/T1	/T1	/T1	/T1	/T1	
NG	0	0	0	0	0	0	0
PNG	0	0	0	0	0	0	0
ALPHAG	0	0	0	0	0	0	0
SEALPHAG	0	0	0	0	0	0	0

Table 9. 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 4 for codes assigned to taxa from the Layerthorpe Bridge site, York. Alpha - the index of diversity alpha (Fisher et al. 1943); 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 ()	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 Percentage
8		of RD taxa	PSRD
No OA and probable outdoor taxa (oa+ob)		No RD indivs	NRD
Percentage of OB taxa	PSOB		PNRD
No OB indivs	NOB	Percentage of RD indivs	
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 tax a (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 taxa(sf)	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 taxa (st)	SST
No heathland/moorland tax a (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 (ss)	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
1.0 marto of Brain people (g)	1.0		

Context: 6 Sample: 4/SPT ReM: N

Cercyon sp.

Hydrophilinae sp.

Omalium caesum or italicum

?Xylodromus concinnus

1 - rt

u

u

1 - oa

Table 10. Layerthorpe Bridge, York: species lists by subsample for insects and other macro-invertebrates. Taxa are listed in descending order of abundance.

Key: n - minimum number of individuals; q - quantification (s - semi-quantitative 'several', m - semi-quantitative 'many', both sensu Kenward et al. (1986), e - estimate); ecodes - ecological codes (see Table 9 for explanation); * - not used in calculation of statistics in Table 8.

Anotylus rugosus

Context. o Sample. 4/SF1 Kelvi.	IN .	Anotylus rugosus	1	-	11
Weight: 0.00 E: 0.00 F: 0.00		Stenus sp.	1	-	u
		Leptacinus pusillus	1	-	rt-st
Notes: Odd specimen presented as	spot samp le	Gyrohypnus sp.	1	-	rt
		Neobisnius sp.	1	-	u
Agonum sp.	1 - oa	Philonthus sp.	1	-	u
		Lyctus linearis	1	-	l-sf
		Cryptophagus sp.	1	-	rd-sf
Context: 14 Sample: 48/T ReM: A	A	Anthicus formicarius	1	-	rt-st
Weight: 2.00 E: 0.00 F: 0.00		Chrysomelinae sp.	1	-	oa-p
		?Notaris acridulus	1	-	oa-d-p
Notes: Small flot, mostly plant deb	oris, some seeds and				
sand		*Trichoptera sp. (case)	2	-	oa-w
Trox scaber	6 s rt-sf				
Pterostichus sp.	1 - ob	Context: 15 Sample: 49/T ReM: A			
Cercyon sp.	1 - u	Weight: 1.00 E: 0.00 F: 0.00			
Elateridae sp.	1 - ob				
Anobium punctatum	1 - l-sf	Notes: Small flot, mostly plant debr	is		
Chrysomelinae sp.	1 - oa-p				
Curculionidae sp.	1 - oa	Aphodius sp.	2	-	ob-rf
		Helophorus sp.	1	-	oa-w
*Daphnia sp. (ephippium)	1 - oa-w	Cercyon sp.	1	-	u
*Diptera sp. (puparium)	1 - u	Aleocharinae sp.	1	-	u
		*?Heterodera sp. (cyst)	2	_	u
Context: 14 Sample: 48/T1 ReM:	: D	*Coleoptera sp. (larva)	1	_	u
Weight: 5.00 E: 4.50 F: 4.00		*Acanna sp.	1	-	u
N-4 F-4 1 9/0/00 F1-4 1 :-	. :				
Notes: Entered 8/9/00. Flot 1 cm in Rowland, checked HK 11/4/00. Rowland	-	Context: 16 Sample: 52/T ReM: A			
on filter paper. 'Detailed scan' reco		Weight: 1.00 E: 0.00 F: 0.00	•		
4.5 D; F2.0-5.5, mode 4.0 D. Colo		Weight, 1.00 E. 0.00 F. 0.00			
2-4, mode 3 D. AH tube contained		Notes: Moderate-sized flot; plant de	hri	a or	d saads
and many <i>Trox</i> fragments were left	-	Notes. Moderate-sized not, plant de	/UI1	5 an	iu sc cus.
	t III the Hot. Fossiis	Trox scaber	6	s	rt-sf
broke easily on handling.		Lathridius minutus group	3	-	rd-st
Tuoy goobou	10 - rt-sf	Cercyon analis	2	-	rt-sf
Trox scaber		Cercyon haemorrhoidalis	2	-	rf-sf
Cercyon analis			2	-	
Anobium punctatum	3 - l-sf	Acritus nigricornis	2		rt-st
Auchenorhyncha sp.	1 - oa-p 1 - ob	Coprophilus striatulus Gyrohypnus ?fracticornis	2	-	
Carabidae sp.			2		rt-st
Helophorus sp.	1 - oa-w	Aphodius sp.	2	-	ob-rf

u

1 -

oa-w

rt-sf

rt-st

Heteroptera sp.

Hemiptera sp.

Trechus micros

Trechus obtusus or quadristriatus

Bembidion sp.	1	_	oa	Platystethus arenarius	4	_	rf
Agonum sp.	1	-	oa	Anotylus complanatus	3	_	rt-sf
Carabidae sp.	1	-	ob	Falagria caesa or sulcatula	3	_	rt-sf
Sphaeridium ?bipustulatum	1	-	rf	Ptinus ?fur	3	_	rd-sf
Cercyon atricapillus	1	-	rf-st	Dyschirius globosus	2	_	oa
Megastemum obscurum	1	-	rt	Stenus sp. C	2	_	u
_				Leptacinus intermedius	2	-	rt-st
Xylodromus concinnus	1	-	rt-st rf	Gyrohypnus fracticornis	2	_	rt-st
Platystethus arenarius				Philon thus sp. B	2	_	u
Anotylus nitidulus	1	-	rt	Aleoch arinae sp. B	2	-	u u
Anotylus sculpturatus group	1	-	rt	Aphodius granarius	2	-	u ob-rf
Anotylus tetracarinatus	1	-	rt	Aphodius gianarius Anobium punctatum	2	-	1-sf
Oxytelus sculptus	1	-	rt-st	Cryptophagus sp.	2	-	rd-sf
Lathrobium sp.	1	-	u	Clivina fossor			
Neobisnius sp.	1	-	u		1	-	oa
Philon thus sp. A	1	-	u	Patrobus atroufus	1	-	oa
Philon thus sp. B	1	-	u	Trechus obtusus or quadristriatus	1	-	oa
Cordalia ob scura	1	-	rt-sf	Trechus micros	1	-	u
Aleochannae sp.	1	-	u	Bembidion lampros or properans	1	-	oa
Aphodius ?prodromus	1	-	ob-rf	Bembidion (Philochthus) sp.	1	-	oa
Oxyomus sylvestris	1	-	rt-sf	?Pterostichus melanarius	1	-	ob
?Elateridae sp.	1	-	ob	Carabid ae sp. A	1	-	ob
Elateridae sp.	1	-	ob	Carabidae sp. B	_	-	ob
Anobium punctatum	1	-	l-sf	Helophorus sp.	-	-	oa-w
Cryptophagus sp.	1	-	rd-sf	Cryptopleurum minutum	1	-	rf-st
Atomaria sp.	1	-	rd	Teretrius fabricii	1	-	1
Corticarina sp.	1	-	rt	Onthophilus striatus	1	-	rt-sf
Apion sp.	1	-	oa-p	Histerinae sp.	1	-	rt
Curculionidae sp.	1	-	oa	Ochthebius sp.	1	-	oa-w
				Catops sp.	1	-	u
*Coleoptera sp. (larva)	15	m	u	Olophrum sp.	1	-	oa
*Daphnia sp. (ephippium)	6	s	oa-w	Omalium ?rivulare	1	-	rt-sf
*Insecta sp. (pupa)	6	s	u	Carpelimus pusillus group	1	-	u
*Acarina sp.	6	S	u	Anotylus nitidulus	1	-	rt
*Insecta sp. (larva)	3	-	u	Anotylus rugosus	1	-	rt
*Diptera sp. (puparium)	1	-	u	Anotylus ?tetracarinatus	1	-	rt
*Sepsidae sp. (puparium)	1	_	u	Stenus sp. A	1	-	u
*Sphaeroceridae sp. (puparium)	1	_	rt	Stenus sp. B	1	-	u
				Stenus sp. D	1	-	u
				Rugilus sp.	1	-	rt
Context: 16 Sample: 52/T1 ReM:	D			Gyrohypnus angustatus	1	-	rt-st
Weight: 3.00 E: 4.00 F: 4.00				Xantholinus sp.	1	-	u
5				Philon thus sp. A	1	-	u
Notes: Entered 8/9/00. Flot 1 cm in	iar.	So	rted Steve	?Creophilus maxillosus	1	_	rt
Rowland, checked HK 18/8/00. La				Aleoch arinae sp. A	1	_	u
Trox came in AH tube. Conspicuou				Aleoch arinae sp. C	1	_	u
E2.0-5.0, mode 4.0 S; F 1.5-4.0, mode				Aleoch arinae sp. D	1	_	u
change to pale 1-4, mode 3 D. Sort				Pselaphidae sp.	1	_	u
to jar. Remains mostly very fragile,				Aphodius ater	1	_	oa-rf
handling. One <i>Trox</i> la unexpanded.		ир	at 011	Apho dius sp. A	1	_	ob-rf
nandning. One 170x ta unexpanded.				Apho dius sp. B	1	_	ob-rf
Trox scaber	10	_	rt-sf	Apho dius sp. C	-	_	ob-rf
Acritus nigricornis		_	rt-st	Oxyomus sylvestris	1	_	rt-sf
Cercyon analis	5	_	rt-st	Xestobium rufovillosum	1	_	l-st
	<i>3</i>	_		Atomaria sp.	1	_	rd
Xylodromus concinnus	4	-	rt-st	manu op.	1	-	14

?Stephostethus angusticollis	1	_	rt-st	?Bradycellus sp.	1	_	oa
Lathridius minutus group	1	_	rd-st	Chlaenius sp.	1	_	u
Enicmus sp.	1	_	rt-sf	Colymbetes fuscus	1	_	oa-w
Corticaria sp.	1	_	rt-sf	Dytiscidae sp.	1	_	oa-w
Blaps sp.	1	-	rt-ss	Cercyon ?terminatus	1	_	rf-st
Anthicus floralis or formicarius	1	-	rt-st	Cercyon sp. A	1	_	u
				Cercyon sp. A	1	_	u
Chaetocnema concinna	1	-	oa-p	Anacaena sp.	1	_	oa-w
Halticinae sp.	1	-	oa-p	Hydrophilinae sp.	1	_	
Apion sp. Micrelus ericae	1	-	oa-p	Acidota crenata	1	-	oa-w
	1	-	oa-p-m	Carpelimus ?rivularis	1	-	oa ob-d
Ceutorhynchus sp.	1	-	oa-p	-	1		
Curculionidae sp.	1	-	oa	Carpelimus sp.		-	u aa d
Coleo ptera sp. A	1	-	u	Platystethus cornutus group	1	-	oa-d
Coleo ptera sp. B	1	-	u	Platystethus nitens	1	-	oa-d
				Anotylus sculpturatus group	1	-	rt
*Daphnia sp. (ephippium)			oa-w	Stenus sp. A	1	-	u
*Oligochaeta sp. (egg capsule)	6	S	u	Stenus sp. B	1	-	u
*Diptera sp. (puparium)	1	-	u	Gyrohypnus fracticornis	1	-	rt-st
*Chalcidoidea sp.	1	-	u	Gyrohypnus punctulatus	1	-	rt-st
*Acarina sp.	1	-	u	Xantholinus linearis or longiventris	1	-	rt-sf
				Philon thus sp. A	1	-	u
				Philon thus sp. B	1	-	u
Context: 18 Sample: 41/T ReM: A				Philon thus sp. C	1	-	u
Weight: 2.00 E: 0.00 F: 0.00				Gabrius sp.	1	-	rt
				Tach yporus sp. A	1	-	u
Notes: Very large flot, much plant of	lebr	is, 1	nany insect	Tach yporus sp. B	1	-	u
immatures				Pselaphidae sp.	1	-	u
				Aphodius ?prodromus	1	-	ob-rf
Ochthebius sp.	15	m	oa-w	Aphodius sp.	1	-	ob-rf
Aleocharinae sp.	15	m	u	Anobium punctatum	1	-	l-sf
Hydroporinae sp.	6	s	oa-w	Meligethes sp.	1	-	oa-p
Cercyon haemorrhoidalis	6	s	rf-sf	Cryptophagus ?scutellatus	1	-	rd-st
Cercyon sp. C	6	s	u	Cryptophagus sp.	1	-	rd-sf
Megastemum obscurum	6	s	rt	Atomaria sp. A	1	_	rd
Phaedon sp.	6	s	oa-p	Orthoperus sp.	1	_	rt
Helop horus sp. A	2	_	oa-w	Coccinellidae sp.	1	_	oa-p
Helop horus sp. B	2	_	oa-w	Lathridius minutus group	1	_	rd-st
Hydrobius fuscipes	2		oa-w	Corticana sp.	1	_	rt-sf
Limnebius sp.	2	_	oa-w	Corticaina sp.	1	_	rt
Ptiliidae sp.	2	_	u	Bruchinae sp.	1	_	u
Anotylus nitidulus	2	-	rt	Donaciinae sp.	1	_	oa-d-p
	2			Chrysomelinae sp.	1	_	oa-p
Anotylus rugosus		-	rt	Phyllotreta nemorum group	1		oa-p
Atomaria sp. B		-	rd	Halticinae sp.	1	-	
Drymus sp.	1	-	oa-p	_	1	-	oa-p
Anthocoris sp.	1	-	oa-p	Apion sp. Tanysphyrus lemnae		-	oa-p
Saldidae sp.	1	-	oa-d		1	-	oa-w-p
?Loricera pilicornis	1	-	oa	Bagous sp.	1	-	oa-w
Clivina fossor	1	-	oa	?Notaris acridulus	1	-	oa-d-p
Bembidion (Philochthus) sp.	1	-	oa	Ceutorhynchus ?contractus	1	-	oa-p
Bembidion sp. A	1	-	oa	Scolytidae sp.	1	-	1
Bembidion sp. B	1	-	oa				
Pterostichus sp.	1	-	ob	*Oligochaeta sp. (egg capsule)		m	
Amara sp. A	1	-	oa	*Daphnia sp. (ephippium)			oa-w
Amara sp. B	1	-	oa	*Diptera sp. (larva)	15	m	u

*Diptera sp. (puparium)	15 n			Philonthus sp.	-	-	u
*Coleop tera sp. (larva)	15 n			Tachyporus sp.	1	-	u
*Insecta sp. (pupa)	15 n			Tachyporus sp. B	1	-	u
*Opiliones sp.	15 n			Tach yporus sp. C	_	-	u
*Acarina sp.	15 n	n	u	Tachinus sp.	1	-	u
*Ostracoda sp.	6 s		u	Aleochara sp.	1	-	u
*Aranae sp.	6 s		u	Aphodius ?granarius	1	-	ob-rf
*Aphidoidea sp.	1 -		u	Apho dius sp. A	1	-	ob-rf
*Formicidae sp.	1 -		u	Apho dius sp. B	1	-	ob-rf
				Cyphon sp.	1	-	oa-d
				Anobium punctatum	1	-	l-sf
Context: 19 Sample: 45/T ReM: A				Tipnus unicolor	1	-	rt-ss
Weight: 2.00 E: 0.00 F: 0.00				Ptinus fur	1	-	rd-sf
				Meligethes sp.	1	-	oa-p
Notes: Medium-sized flot, some pla	ant del	br	is and a few	Oryzaephilus surinamensis	1	-	g-ss
seeds but mostly invertebrates, esp	ecially	'n	mmatures	Atomaria sp.	1	-	rd
				Corticaria sp.	1	-	rt-sf
Aleocharinae sp.	15 n	n	u	Corticarina fuscula	1	-	rt
Hemiptera sp.	6 s		u	Donaciinae sp.	1	-	oa-d-p
Helophorus sp. A	6 s		oa-w	Phaedon sp.	1	_	oa-p
Helophorus sp. B	6 s		oa-w	Chaetocnema concinna	1	_	oa-p
Staphylininae sp.	6 s		u	?Psylliodes sp.	1	_	oa-p
Ochthebius sp.	2 -		oa-w	Apion sp.	1	_	oa-p
Carpelimus sp.	2 -		u	Sitona sp.	1	_	oa-p
Lathridius minutus group	2 -		rd-st	Ceuthorhynchinae sp.	1	_	oa-p
Saldidae sp.	1 -		oa-d				r
Clivina sp.	1 -		oa-u oa	*Daphnia sp. (ephippium)	15	m	oa-w
Trechus obtusus or quadristriatus	1 -		oa	*Diptera sp. (larva)		m	
Bembidion (Philochthus) sp.	1 -		oa	*Coleoptera sp. (larva)		m	
Bembidion sp.	1 -		oa	*Insecta sp. (pupa)		m	
Bembidion sp. B	1 -		oa oa	*Acarina sp.		m	
Pterostichus melanarius	1 -		ob	*Diptera sp. (adult)	6		u
	1 -			*Diptera sp. (puparium)	6		u
Agonum sp.	1 -		oa	*Insecta sp. (larva)		S	u
Amara sp.	1 -		oa	*Opiliones sp.		-	u
?Harpalus sp.	_		oa	Opiniones sp.	_	-	u
Metabletus sp.	-		oa				
Haliplidae sp.	1 -		oa-w	C			
Agabus or Ilybius sp.	1 -		oa-w	Context: 20 Sample: 38/T ReM: A			
Helophorus sp. C	1 -		oa-w	Weight: 2.00 E: 0.00 F: 0.00			
Cercyon analis	1 -		rt-sf	N. 4 . C . 11 Cl. 4 1 . 1 4 . 1 . 1			1
Cercyon atricapillus	1 -		rf-st	Notes: Small flot, mainly plant debr			
Cercyon sp.	1 -		u	Preservation poor, remains pale and	bro	own	l
Hydrobius fuscipes	1 -		oa-w		_		
Lesteva sp.	1 -		oa-d	Aleocharinae sp.		S	u .
Omalium sp.	1 -		rt	Platystethus cornutus group	2	-	oa-d
Xylodromus concinnus	1 -		rt-st	Oxytelus sculptus	2	-	rt-st
Aploderus caelatus	1 -		rt	Cercyon haemorrhoidalis	1	-	rf-sf
Platystethus nitens	1 -		oa-d	Cercyon sp.	1	-	u
Anotylus nitidulus	1 -		rt	Megastemum obscurum	1	-	rt
Anotylus rugosus	1 -		rt	Hydrobius fuscipes	1	-	oa-w
Anotylus sculpturatus group	1 -		rt	Lesteva sp.	1	-	oa-d
Anotylus tetracarinatus	1 -		rt	Platystethus nitens	1	-	oa-d
Stenus sp.	1 -		u	Anotylus rugosus	1	-	rt
Gyrohypnus fracticornis	1 -		rt-st	Gyrohypnus sp.	1	-	rt
· · · ·							

7. 1				D	1		1
Philon thus sp. A	1		u	Donaciinae sp.		-	oa-d-p
Philon thus sp. B	1	-	u	Halticinae sp.	1	-	oa-p
Philon thus sp. C	1	-	u	Apion sp.	1	-	oa-p
Aphodius sp.	1	-	ob-rf	*D:	1.5		
Ptinus sp.	1	-	rd-sf	*Diptera sp. (larva)		m	
Atomaria sp.	1	-	rd	*Diptera sp. (puparium)	6	S	u
?Chrysomelinae sp.	1	-	oa-p	*Acarina sp.	6	S	u
Ceutorhynchus sp.	1	-	oa-p	*Ostracoda sp.	_	-	u
				*Apoidea sp.	-	-	u
*Coleop tera sp. (larva)	6	S	u	*Insecta sp. (pupa)	-		u
*Insecta sp. (pupa)	6	S	u	*Aranae sp.	1	-	u
*Daphnia sp. (ephippium)	1	-	oa-w				
*Diptera sp. (puparium)	1	-	u				
				Context: 41 Sample: 27/T ReM: A			
				Weight: 1.00 E: 0.00 F: 0.00			
Context: 38 Sample: 17/T ReM: A							
Weight: 1.00 E: 0.00 F: 0.00				Notes: Tiny flot, a few seeds and so	me	san	d
Notes: Tiny flot, a few seeds and pl	ant	frag	m ents, a	Hemiptera sp.	1		u
few fragments of beetles				Dyschinus sp.		-	oa
				Xantholinus linearis or longiventris	1	-	rt-sf
Dytiscidae sp.	1	-	oa-w	Trox scaber	1	-	
Catops sp.	1	-	u	Aphodius sp.		-	
Trox sp.	1	-	rt	Cryptophagus sp.	1	-	rd-sf
Melolonthinae/Rutelinae/Cetoninae	e sp	. 1	-	Phyllotreta nemorum group	1	-	oa-p
oa-p							
Anobium punctatum	1	-	l-sf	*Insecta sp. (larva)	1	-	u
Lathridius minutus group	1	-	rd-st				
Coleoptera sp.	1	-	u				
				Context: 1003 Sample: 36/BS ReM	1: N	[
				Weight: 0.00 E: 0.00 F: 0.00			
Context: 40 Sample: 19/T ReM: A							
Weight: 1.00 E: 0.00 F: 0.00				Notes: Odd specimens picked from	BS	by.	ARH
Notes: Small flot, a few seeds but n	ost	ly i	nvertebrates	Hydrobius fuscipes	1	-	oa-w
				Donaciinae sp.	1	-	oa-d-p
Hemiptera sp.	6	S	u	Chrysomelinae sp.	1	-	oa-p
Hydroporinae sp.	6	s	oa-w				
Aleocharinae sp.	6	S	u	*Diptera sp. (puparium)	2	-	u
Colymbetinae sp. A	1	-	oa-w	*Sphaeroceridae sp. (puparium)	1	-	rt
Colymbetinae sp. B	1	_	oa-w	*Insecta sp. (pupa)	1	-	u
Helophorus sp.	1	-	oa-w				
Cercyon sp.	1	_	u	Context: 1012 Sample: 56/T1 ReM	I : D)	
Hydrobius fuscipes	1	_	oa-w	Weight: 3.00 E: 3.00 F: 4.00			
?Laccobius sp.	1	_	oa-w				
Stenus sp.	1	_	u	Notes: Entered 8/9/00. Flot 5mm in	jar.	, ma	inly fine
Xantholinus linearis or longiventris	1	_	rt-sf	wood. Sorted by Steve Rowland. Cl	-		-
Trox scaber	1	_	rt-sf	18/8/00. Recorded on filter paper as			
Aphodius sp.	1	_	ob-rf	of <i>Trox</i> in AH residue tube, almost			
Elmidae sp.	1	_	oa-w	very rotted, patchy and holed. E 1.5			-
Anobium punctatum	1	_	l-sf	F 2.0-5.0, mode 4.0 W.			,
Ptinus sp.	1	_	rd-sf	,			
Atomaria sp.	1	_	rd	Trox scaber	27	_	rt-sf
Lathridius minutus group	1	_	rd-st	Trechus micros	7		u
Laminana minutus group	1	_	14 51		,		

D	2	. 1.	Bembidion sp.	1		0.0
Pterostichus melanarius	2 -	ob	Carabidae sp.	1	-	oa ob
Clivina fossor	1 -	oa	-		-	
Cercyon sp.	1 -	u	Haliplidae sp.	1	-	oa-w
Histerinae sp.	1 -	rt	Dytiscidae sp.	1	-	oa-w
?Lesteva sp.	1 -	oa-d	Cercyon terminatus	1	-	rf-st
Dropep hylla ?ioptera	1 -	u	Cercyon ?ustulatus	1	-	oa-d
Anotylus rugosus	1 -	rt	Ochthebius sp.	1	-	oa-w
Stenus sp.	1 -	u	Omalium rivulare	1	-	rt-sf
Gyrohypnus fracticornis	1 -	rt-st	Carpelimus sp.	1	-	u
Neobisnius sp.	1 -	u	Platystethus arenarius	1	-	rf
Tachinus ?signatus	1 -	u	Anotylus rugosus	1	-	rt
Anobium ?punctatum	1 -	l-sf	Anotylus sculpturatus group	1	-	rt
			Anotylus tetracarinatus	1	-	rt
*Daphnia sp. (ephippium)	1 -	oa-w	Stenus sp.	1	-	u
*Diptera sp. (puparium)	1 -	u	Lathrobium sp.	1	-	u
*Coleoptera sp. (larva)	1 -	u	Gabrius sp.	1	-	rt
*Chalcidoidea sp.	1 -	u	Mycetoporus sp.	1	-	u
*Wood with insect bores	1 -	u	Aphodius granarius	1	_	ob-rf
W 000 W W 11110 000 001 00	•		Aphodius sp.	1	_	ob-rf
			Dryops sp.	1	_	oa-d
Context: 1014 Sample: 59/T1 Rel	Л·Р		Elmidae sp.	1	_	oa-w
Weight: 3.00 E: 4.00 F: 4.00	VI . IX		Elateridae sp.	1	_	ob
Weight. 3.00 E. 4.00 F. 4.00			Meligethes sp.	1	_	
N (F (111000 C (11	74 D	. 1 1	Atomaria sp.	1	_	oa-p rd
Notes: Entered 11.9.00. Sorted by			-	_		
checked roughly 18/8/00. Recorded			Coccinellidae sp.	1	-	oa-p
remains returned to flot jar. E3.0-5			Corticana sp.	1	-	rt-sf
2.0-5.0. mo de 4 W. Residue tube c	on taine	d very	Corticarina sp.	1	-	rt
decayed scraps including Trox.			Donac iinae sp. A	1	-	oa-d-p
			Donac iinae sp. B	1	-	oa-d-p
Platystethus cornutus group	2 -	oa-d	Halticinae sp.	1	-	oa-p
Dyschirius ?globosus	1 -	oa	Sitona sp.	1	-	oa-p
Cercyon sp. A	1 -	u	Coleoptera sp.	1	-	u
Cercyon sp. B	1 -	u				
Omaliinae sp.	1 -	rt	*Oligochaeta sp. (egg capsule)	15	m	u
Anotylus rugosus	1 -	rt	*Daphnia sp. (ephippium)	15	m	oa-w
Staphylininae sp.	1 -	u	*Ostracoda sp.	15	m	u
Trox scaber	1 -	rt-sf	*Diptera sp. (adult)	15	m	u
?Anobium punctatum	1 -	l-sf	*Diptera sp. (larva)		m	
Halticinae sp.	1 -	oa-p	*Coleoptera sp. (larva)		m	
Curculionidae sp.	1 -	oa	*Insecta sp. (pupa)		m	
curcumonidae sp.		ou	*Acarina sp.		m	
			*Diptera sp. (puparium)	6		u
Context: 1024 Sample: 73/T ReM	· A		*Opiliones sp.	6	s	u
Weight: 1.00 E: 0.00 F: 0.00	. A		*Trichoptera sp. (case)	1	_	oa-w
weight: 1.00 E: 0.00 F: 0.00			*Aranae sp.	1	_	u
N	1 . 1	1 ' 1	Aranae sp.	1	-	u
Notes: Medium-sized flot, mainly	plant de	ebris and				
insect immatures; some seeds			G 4 4 1007 G 1 75/E 5 3	r A		
			Context: 1027 Sample: 75/T ReM	1: A		
Hydroporinae sp.	6 s	oa-w	Weight: 2.00 E: 0.00 F: 0.00			
Aleocharinae sp.	6 s	u				
Hemiptera sp.	3 -	u	Notes: Moderate-sized flot, mostly	pla	nt d	ebris, many
Helophorus sp.	2 -	oa-w	seeds.			
Helophorus sp. B	2 -	oa-w				
Corixidae sp.	1 -	oa-w	Aleochannae sp.	6	S	u
∸						

Helophorus sp.	2 -	oa-w	*Insecta sp. (pupa)	6	s	u	
Anobium punctatum	2 -	l-sf	*Acanna sp.	6	s	u	
Cryptophagus sp.	2 -	rd-sf	*Diptera sp. (puparium)	3	_	u	
Lathridius minutus group	2 -	rd-st	*Trichoptera sp. (case)	1	_	oa-w	
Aglenus brunneus	2 -	rt-ss	*Formicidae sp.	1	_	u	
Apion sp. C	2 -	oa-p	1				
Nebria sp.	1 -	oa p					
Trechus obtusus or quadristriatus	1 -	oa	Context: 1029 Sample: 79/T ReM	ſ: A			
Bembidion sp.	1 -	oa	Weight: 2.00 E: 0.00 F: 0.00				
Harpalus sp.	1 -	oa	Weight 2100 Evere 11000				
Carabidae sp. A	1 -	ob	Notes: Small flot, mostly plant deb	ris: 1	man	v seeds, a	
Carabid ae sp. B	1 -	ob	little sand	, -		. ,	
Hydrop orinae sp. A	1 -	oa-w					
Hydrop orinae sp. 14	1 -	oa-w	Trox scaber	6	s	rt-sf	
Cercyon convexiusculus group	1 -	oa-d	Hemiptera sp.	1	_	u	
Megastemum obscurum	1 -	rt	Cercyon sp.	1	_	u	
Hydrobius fuscipes	1 -	oa-w	Staphylinidae sp.	1	_	u	
Hydrophilinae sp. A	1 -	oa-w	Aphodius sp.	1	_	ob-rf	
Hydrophilinae sp. B	1 -	oa-w	Cyphon sp.	1	_	oa-d	
Hydrophilinae sp. C	1 -		Anobium punctatum	1	_	l-sf	
Hydrop hilinae sp. D	1 -	oa-w oa-w	Lathridius minutus group	1	_	rd-st	
Acritus nigricornis	1 -	rt-st	Chrysom elinae sp . A	1	_	oa-p	
Ochthebius sp.	1 -	oa-w	Chrysom elinae sp . B	1	_	oa-p	
Ptenidium sp.	1 -	rt	Chrysoni chiac sp. B	•		ой р	
Omaliinae sp.	1 -	rt	*Diptera sp. (puparium)	3	_	u	
Carpelimus ?fuliginosus	1 -	st	*?Heterodera sp. (cyst)	1	_	u	
		rf	*Coleoptera sp. (larva)	1	_	u	
Platystethus arenarius	-		Corcopicia sp. (larva)	1	-	u	
Anotylus nitidulus	•	rt					
Stenus sp.	1 -	u	Context: 1029 Sample: 80/T1 Re	N/I · E	•		
Gyrohypnus sp.	1 - 1 -	rt	Weight: 3.00 E: 0.00 F: 0.00				
Gabrius sp.	-	rt	Weight. 3.00 E. 0.00 F. 0.00				
?Bobitobius sp.	1 - 1 -	u u	Notes: Entered 11/9/00. Flot 1.5 cm	n in	iar	mostly	
Tachinus sp.		u ob-rf	large woody fragments. Sorted Ste				
Apho dius sp. A	-	ob-rf	checked HK 11/4/00. Recorded in				
Apho dius sp. B Elateridae sp.	1 - 1 -	ob-11	paper: no record of preservation of				
-			'Trox extremely decayed'. Some Tr				
Brachypterus sp.	1 -	oa-p	Bolton's project. Residue tube con				
?Telmatophilus sp.	-	oa-d	remains. All fossils returned to flot		cui	attict a fot of	
Corticaria sp.	1 - 1 -	rt-sf	remains. All lossins returned to flot	jai.			
Anthicus sp.	l - 1 -	rt	Trox scaber	7	_	rt-sf	
?Macroplea sp. Donaciinae sp.		oa-w	Carpelimus pusillus group	2	-	u	
-	1 -	oa-d-p	Tachinus sp.	2	-	u	
Apion sp.	1 -	oa-p	Patrobus atrorufus	1	_	oa	
Apion sp. B	1 -	oa-p	Cercyon ?analis	1	-	rt-sf	
Notaris sp.	1 -	oa-d-p	Histerinae sp.	1	_	rt rt	
Ceuto rhynchu s sp. A	1 -	oa-p	Omalium sp.	1	_	rt	
Ceutorhynchus sp. B	l -	oa-p	Stenus sp.	1	-	u	
Scolytidae sp.	1 -	1	Gyrohypnus angustatus	1	-	u rt-st	
*D: (- 1- 1/)	1.5		Neobisnius sp.	1	_		
*Diptera sp. (lamus)	15 m		Anthicus floralis or formicarius	1	-	u rt-st	
*Diptera sp. (larva)	15 m			1	-	1 l	
*Coleoptera sp. (larva)	15 m		?Dryocoetinus villosus	1	-	1	
*Oligochaeta sp. (egg capsule)	6 s	u					
*Ostracoda sp.	6 s	u					

Context: 1031 Sample: 84/T Rel Weight: 2.00 E: 0.00 F: 0.00	VI. A	filter paper. Residue tube contain Remains very fragmentary, canno	
NI 4 C III 4 4 1 1 4 1	1	adeq uate ly.	
Notes: Small flot, mostly plant de	bris; a few seeds	Carabidae sp.	1 - ob
Trox scaber	3 - rt-sf	Xantholinus sp.	1 - u
		Staphylininae sp.	1 - u 1 - u
Hemiptera sp.	1 - u		
Cercyon sp.	1 - u	?Phyllopertha horticola	
Anotylus rugosus	1 - rt	Anobium punctatum	1 - l-sf
Anobium punctatum	1 - l-sf	Donaciinae sp.	1 - oa-d-p
		Chrysom elinae sp. A	1 - oa-p
*?Heterodera sp. (cyst)	1 - u	Chrysom elinae sp. B	1 - oa-p
*Coleoptera sp. (larva)	1 - u	Apion sp.	1 - oa-p
		?Bagous sp.	1 - oa-w
		Notaris acridulus	1 - oa-d-p
Context: 1032 Sample: 85/T CA	:/1033 ReM: A		
Weight: 1.00 E: 0.00 F: 0.00			
		Context: 1039 Sample: 90/T Re	M: A
Notes: Small flot, mainly very fin sand, a few seeds	e plant debris, a little	Weight: 1.00 E: 0.00 F: 0.00	
		Notes: Moderate-sized flot, some	fine plant debris,
Omalium sp.	1 - rt	some sand, many invertebrates	
?Staphylininae sp.	1 - u		
Aphodius sp.	1 - ob-rf	Cercyon analis	6 s rt-sf
Chrysomelinae sp.	1 - oa-p	Cercyon ?terminatus	6 s rf-st
?Scolytidae sp.	1 - 1	Oxytelus sculptus	6 s rt-st
. 2 0 0 5 J 1 1 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		Aleochannae sp.	6 s u
*Oligochaeta sp. (egg capsule)	1 - u	Trox scaber	6 s rt-sf
ongoenaem sp. (egg eupsure)	1 4	Histeridae sp.	3 - u
		Trechus sp.	1 - ob
Context: 1033 Sample: 68/T Rel	M· A	Bembidion sp.	1 - oa
Weight: 2.00 E: 0.00 F: 0.00	(VI. 11	Helophorus sp.	1 - oa-w
Weight. 2.00 E. 0.00 T. 0.00		Ptenidium sp.	1 - rt
Notes: Small flot, mostly plant ma	aterial: many seeds	Anotylus nitidulus	1 - rt
Notes. Small not, mostly plant in	atenar, many seeds	Anotylus rugosus	1 - rt
Troy gashar	2 - rt-sf	Xantholininae sp.	1 - 1t
Frox scaber		Philonthus sp.	1 - u 1 - u
Cercyon sp.		Aleochara sp.	1 - u 1 - u
Gyrohypnus sp.		Cyphon sp.	1 - u 1 - oa-d
Aleocharinae sp.	1 - u	Anobium punctatum	1 - 0a-u 1 - 1-sf
Staphylinidae sp.	1 - u		
Lathridius minutus group	1 - rd-st	Lyctus linearis	
Chrysomelinae sp.	1 - oa-p	Atomaria sp.	
Halticinae sp.	1 - oa-p	Lathridius minutus group	1 - rd-st
koli i i i		Anthicus sp.	1 - rt
*Oligochaeta sp. (egg capsule)	6 s u	Bruchinae sp.	1 - u
*Diptera sp. (puparium)	2 - u	Chrysomelinae sp.	1 - oa-p
*Acarina sp.	1 - u	Apion sp.	1 - oa-p
		Coleoptera sp.	1 - u
Context: 1038 Sample: 89/T1 R	eM:R	*Diptera sp. (larva)	15 m u
Weight: 3.00 E: 3.00 F: 5.00	•	*Diptera sp. (puparium)	15 m u
		*Muscidae sp. (puparium)	6 s u
		1 1 1	

Notes: Entered 11/9/00. Flot sorted Steve Rowland,

checked rapidly HK 18/8/00. Recorded in flot and on

*Sphaeroceridae sp. (puparium)

*Insecta sp. (pupa)

 $6 \quad s \quad rt$

6 s u

*Daphnia sp. (ephippium)	1 - oa-w	Leptacinus intermedius	1 - rt-st
*?Scatopse notata (puparium)	1 - rt	Philon thus sp. A	1 - u
*Sepsidae sp. (puparium)	1 - u	Philon thus sp. B	1 - u
*Coleoptera sp. (larva)	1 - u	Philon thus sp. C	1 - u
		Staphylininae sp.	1 - u
		Aleoch arinae sp. A	1 - u
Context: 1039 Sample: 90/T1 Re	M: D	Aleoch arinae sp. B	1 - u
Weight: 3.00 E: 4.00 F: 4.00		Aphodius sp.	1 - ob-rf
		Ptinus sp.	1 - rd-sf
Notes: Entered 11/9/00. Flot 1 cm	in jar. Sorted Steve	Lyctus linearis	1 - l-sf
Rowland, part checked HK 17/8/0	0. 'Detailed scan'	Corticaria sp.	1 - rt-sf
record in flot and on filter paper. 'I	Refloat of <1mm' jar	Anthicus floralis or formicarius	1 - rt-st
combined with main flot. Vast qua	intities of very	Bruchinae sp.	1 - u
comminuted Trox, so decayed that	it they fell apart	Phyllotreta nemorum group	1 - oa-p
when touched with a brush. Resid	ue tube contained	Ceuthorhynchinae sp.	1 - oa-p
abundant Trox remains. E 3.5-5.0,	m ode 4.0 S; F	Curculionidae sp.	1 - oa
2.5-5.5, mode 4.0 S. Identification	s difficult. Bruchus		
rolled or crushed.		*Diptera sp. (larva and/or pupa)	15 m u
		*Diptera sp. (puparium)	3 - u
Oxytelus sculptus	56 - rt-st	*Coleoptera sp. (larva)	2 - u
Cercyon analis	33 - rt-sf	*Dermaptera sp.	1 - u
Trox scaber	31 - rt-sf		
Anobium punctatum	6 - l-sf		
Lathridius minutus group	5 - rd-st	Context: 1047 Sample: 95/T ReM	M: A
Ptenidium sp.	4 - rt	Weight: 3.00 E: 0.00 F: 0.00	
Neobisnius sp.	4 - u		
Cercyon atricapillus	3 - rf-st	Notes: Large washover, mostly ch	arcoal and plant
Anotylus rugosus	3 - rt	debris; many seeds	
Leptacinus pusillus	3 - rt-st		
Cercyon terminatus	2 - rf-st	Anotylus rugosus	1 - rt
Xylodromus concinnus	2 - rt-st	Staphylinidae sp.	1 - u
Carpelimus?bilineatus	2 - rt-sf	Anobium punctatum	1 - l-sf
Gauropterus fulgidus	2 - rt-st	Rhizophagus sp.	1 - u
Gyrohypnus fracticornis	2 - rt-st	Atomaria sp.	1 - rd
Atomaria sp.	2 - rd	Lathridius minutus group	1 - rd-st
Aglenus brunneus	2 - rt-ss	?Gastrophysa viridula	1 - oa-p
Bembidion sp.	1 - oa	Sitona sp.	1 - oa-p
Helophorus sp.	1 - oa-w	Curculionidae sp.	1 - oa
Sphaeridium sp.	1 - rf		
Cercyon ?haemorrhoidalis	1 - rf-sf	*Insecta sp. (larva)	3 - u
Cercyon unipunctatus	1 - rf-st	*Oligochaeta sp. (egg capsule)	1 - u
Acritus nigricornis	1 - rt-st	*Diptera sp. (adult)	1 - u
Histerinae sp.	1 - rt	*Diptera sp. (puparium)	1 - u
Catops sp.	1 - u	*Sepsidae sp. (puparium)	1 - u
Phyllodrepa sp.	1 - rt	*Syrphidae sp. (larva)	1 - u
Omalium ?rivulare	1 - rt-sf		
Omalium sp.	1 - rt		
Carpelimus sp.	1 - u	Context: 1052 Sample: 117/T Re	eM: A
Platystethus arenarius	1 - u 1 - rf	Weight: 1.00 E: 0.00 F: 0.00	·
Platystethus cornutus group	1 - 11 1 - 0a-d		
Platystethus nodifrons	1 - 0a-d 1 - 0a-d	Notes: Medium-sized flot, mostly	plant debris many
Anotylus complanatus	1 - 0a-d 1 - rt-sf	seeds	r-air acorro, many
Anotylus nitidulus	1 - 1t-s1 1 - rt	50045	
Lithocharis ochracea		Trox scaber	15 m rt-sf
Limocharis ochiacea	1 - rt-st	1104 304001	1.5 111 11-51

Cercyon sp.	1	_	u	Catops sp.	1	_	u
Histerinae sp.	1	_	rt	Lesteva sp.	1	_	oa-d
Omalium sp.	1	_	rt	Dropephylla sp.	1	_	u
Cyphon sp.	1	-	oa-d	Xylodromus concinnus	1	_	rt-st
		-		Carpelimus ?bilineatus	1	_	rt-sf
Chrysomelinae sp.	1	-	oa-p	Aploderus caelatus	1	_	rt rt
Curculionidae sp.	1	-	oa	Platystethus arenarius	1	_	rf
*D' (' ')	2			Platystethus degener	1	_	oa-d
*Diptera sp. (puparium)	2	-	u	Platystethus nitens	1		
*Daphnia sp. (ephippium)	1	-	oa-w	Anotylus complanatus	1	-	oa-d rt-sf
				Anotylus sculpturatus group			
G		D. C			1	-	rt
Context: 2005 Sample: 138/T1 R	eM:	RS		Anotylus ?tetracarinatus	1	-	rt
Weight: 13.00 E: 2.50 F: 2.50				Oxytelus sculptus	1	-	rt-st
				Stenus sp. A	1	-	u
Notes: Entered 11/9/00. Flot 7 mm				Stenus sp. B	1	-	u
Rowland, not checked. Recorded o				Stenus sp. C	1	-	u
Residue tube contained egg masses				Philonthus sp.	1	-	u
E1.5-3.5, mode 2.5 D; F 1.5-4.0, m			W. River	Tachinus signatus	1	-	u
deposit + dumping or washed out of	lum	p?		?Crataraea suturalis	1	-	rt-st
				Aleochara sp.	1	-	u
Cercyon analis	6	S	rt-sf	Aleoch arinae sp. A	1	-	u
Anotylus nitidulus	6	S	rt	Aleoch arinae sp. B	1	-	u
Lathridius minutus group	6	S	rd-st	Aleoch arinae sp. C	1	-	u
Apion sp. A	6	S	oa-p	Aphodius ?prodromus	1	-	ob-rf
Anotylus rugosus	3	-	rt	Apho dius sp. A	1	-	ob-rf
Bembidion sp. A	2	-	oa	Elateridae sp.	1	-	ob
Helophorus sp. A	2	-	oa-w	Ptinus sp.	1	-	rd-sf
Ochthebius sp.	2	-	oa-w	Brachypterus sp.	1	-	oa-p
Falagria caesa or sulcatula	2	-	rt-sf	Omosita sp.	1	-	rt-sf
Trox scaber	2	-	rt-sf	Rhizophagus sp.	1	-	u
Dryops sp.	2	-	oa-d	Cryptophagus sp.	1	-	rd-sf
Anobium punctatum	2	-	l-sf	Atomaria sp.	1	-	rd
Cryptophagus scutellatus	2	_	rd-st	Mycetaea hirta	1	-	rd-ss
Aglenus brunneus	2	_	rt-ss	Cortic aria sp. A	1	-	rt-sf
Cidnorhinus quadrimaculatus	2	_	oa-p	Cortic aria sp. B	1	-	rt-sf
Saldula sp.	1	_	oa-d	Donacia sp.	1	-	oa-d-p
Corixidae sp.	1	_	oa-w	Chrysomelinae sp.	1	-	oa-p
Ulopa reticulata	1	_	oa-p-m	Chaetocnema concinna	1	_	oa-p
Dyschinus ?globosus	1	_	oa	Apion sp. B	1	_	oa-p
Trechus obtusus or quadristriatus	1	_	oa	Apion sp. C	1	_	oa-p
Bembidion sp. B	1	_	oa	Sitona sp. A	1	_	oa-p
Pterostichus madidus	1	_	ob-st	Sitona sp. B	1	_	oa-p
Amara sp.	1	_	oa	Tanysphyrus lemnae	1	_	oa-w-p
Haliplidae sp.	1	_	oa-w	Ceuto rhynchu s sp. A	1	_	oa-p
Hydroporinae sp.	1	_	oa-w	Ceuto rhynchu s sp. B	1	_	oa-p
Gyrinus sp.	1	_	oa-w				F
Hydrochus sp.	1	_	oa-w	*Pulex irritans	7	_	SS
Helophorus aquaticus or grandis	1	_		*Egg mass indet.	3	_	u
Helophorus sp. B	1	-	0a-w	*Insecta sp. (larval case)	3	_	u
		-	oa-w	*Formic idae sp. B	2		u
Cercyon haemorrhoidalis	1	-	rf-sf	*Diptera sp. (adult)	1	_	u
Hydrobius fuscipes	1	-	oa-w	*Melophagus ovinus (puparium)	1	_	u
Acritus nigricornis	1	-	rt-st	*Siphonaptera sp.	1	_	
Gnathoneus sp.	1	-	rt-sf	*Formic idae sp. A	1	-	u
Histerinae sp.	1	-	rt	Formicidae sp. A	1	-	u

6 s rt-sf

Context: 2006 Sample: 214/T1 ReM: A

Weight: 5.00 E: 0.00 F: 0.00

Notes: Entered 11/9/00. Sorted Steve Rowland, not checked. Residue tube of egg masses, caddis cases and scraps. Assessment record: plenty of insects, but scrappy remains. Broadly like assemblage from 138, Context 2005, but with weaker urban component. Probably aquatic deposition, with hints of filth.

Chlaenius sp.	1	-	u
Histerinae sp.	1	-	rt
*Melophagus ovinus (puparium)	1	_	u

Context: 2007 Sample: 213/T1 ReM: A Weight: 3.00 E: 0.00 F: 0.00

Notes: Entered 11/9/00. Flot 0.5 cm in jar, sorted Steve Rowland, checked HK 11/4/00. Recorded at assessment level on filter paper and in flot. Residue tube contained some useful remains. Urban and aquatic invertebrates - waterlain with dumping or washed-out dumps.

Corixidae sp.	6	\mathbf{s}	oa-w
Helophorus sp.	6	\mathbf{s}	oa-w
Heterogaster urticae	1	-	oa-p
Lygaeidae sp.	1	-	oa-p
?Miridae sp.	1	-	oa-p
Saldidae sp.	1	-	oa-d
Gerris sp.	1	-	oa-w
Colymbetes fuscus	1	-	oa-w
Histerinae sp.	1	-	rt
Trox scaber	1	-	rt-sf
Ptilinus pectinicornis	1	-	l-sf
Gracilia minuta	1	-	1
Donaciinae sp.	1	-	oa-d-p
*Insecta sp. (larva)	15	m	u
*Insecta sp. (pupa)	15	m	u
*Cladocera sp. B (ephippium)	6	s	oa-w
*Acanna sp.	6	S	u
*Oligochaeta sp. (egg capsule)	3	_	u
*Daphnia sp. (ephippium)	3	-	oa-w
*Melophagus ovinus (puparium)	3	_	u
*Cristatella mucedo (statoblast)	2	_	w
*Cladocera sp. A (ephippium)	1	_	oa-w
*Ostracoda sp.	1	_	u
*Trichoptera sp. (case)	1	_	oa-w
*Siphonaptera sp.	1	_	u
*Coleoptera sp. (larva)	1	_	u
*Apoidea sp.	1	_	u
*Aranae sp.	1	_	u
±			

Context: 2023 Sample: 206/T ReM: A Weight: 1.00 E: 0.00 F: 0.00

Notes: Small flot, plant debris and seeds

Cercyon analis

Anobium punctatum	3	-	1-sf
Trox scaber	2	-	rt-sf
Helophorus sp.	1	-	oa-w
Histerinae sp.	1	-	rt
Xylodromus concinnus	1	-	rt-st
Carpelimus sp.	1	-	u
Anotylus nitidulus	1	-	rt
Anotylus tetracarinatus	1	-	rt
Gyrohypnus ?fracticornis	1	-	rt-st
Aleocharinae sp.	1	-	u
Staphylinidae sp.	1	-	u
Aphodius sp.	1	-	ob-rf
Cryptophagus sp.	1	-	rd- sf
Atomaria sp.	1	-	rd
Lathridius minutus group	1	-	rd-st
Corticaria sp.	1	-	rt-sf
*Diptera sp. (puparium)	15	m	u
*Acarina sp.	15	m	u
*Diptera sp. (larva)	6	\mathbf{s}	u
*Coleoptera sp. (larva)	6	S	u
*Insecta sp. (pupa)	6	\mathbf{s}	u
*Daphnia sp. (ephippium)	1	-	oa-w

Context: 2030 Sample: 286/T ReM: A Weight: 1.00 E: 0.00 F: 0.00

Notes: Moderate-sized flot, mainly plant debris

6	s	u
3	-	oa-d
3	-	l-sf
3	-	rd-st
2	_	oa-w
2	_	oa-w
2	_	rt
1	_	u
1	_	oa
1	_	ob
1	_	oa-w
1	_	oa-w
1	_	oa-w
1	_	rt-sf
	3 3 3 2 2 2 1 1 1 1 1 1 1 1 1 1	3 - 3 - 3 - 2 - 2 - 2 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 -

Cercyon sp. B	Cercyon sp. A	1 -	u	Anotylus rugosus	4	_	rt
Mydrobius fiscipes	-				4	_	u
Limnebius sp.		1 -		-	3	_	u
Micropeplus failvus				Cercyon analis	3	_	rt-sf
Omal'um'sp.	_				3	_	ob-rf
Xylodromus concinnus					2	_	oa
Carpelimus bilineatus 1 - rt-sf Hister ?merdanius 2 - rt-sf 2 - rt-sf Anotyks rugosus 1 - rt-st Carpelimus bilineatus 2 - rt-sf Philonthus ?politus 1 - rt-st Anotykus nitidulus 2 - rt-sf Pfabrias sp. 1 - rt Philonthus sp. A 2 - rt PGabrias sp. 1 - rt Philonthus sp. A 2 - u Aphodius sp. 1 - rt - sf Aleocharinae sp. A 2 - u Anobium punctaum 1 - l-sf Aleocharinae sp. A 2 - u Corticaria sp. 1 - rt-sf Trox scaber 2 - v Corticaria sp. 1 - rt - sf Trox scaber 2 - v Corticaria sp. 1 - rt - sf Trox scaber 2 - v Corticaria sp. 1 - v Aphrophora alni 1 - coa-p Alacina sp. 1 - v Aphrophora alni 1 - coa-p Accinaria sp. 1 - v Auchenorhyncha sp. A 1 - v Pilpitera sp. (larva) 6 s u Bembidion (Philochthus) sp. 1 - v Pilpitera sp. (larva) 6 s u Carabidae sp. B <td>-</td> <td></td> <td></td> <td></td> <td>2</td> <td>_</td> <td>rf-sf</td>	-				2	_	rf-sf
Anotylus rugosus	=			-	2	_	rt-sf
Xantholinus linearis or longiventris 1	-				2	_	rt-st
Philonthus politius				•	2	_	rt-sf
Philonthus sp. A 2					2	_	rt
Trox sp. 1 - rt Philonthus sp. D 2 - v u Aphodius sp. 1 - ob-rf Aleoch arinae sp. B 2 - v u Anobium punctatum 1 - l-sf Aleoch arinae sp. B 2 - v rt-sf Corticaria sp. 1 - rt-sf Trox scaber 2 - v rt-sf Corticaria sp. 1 - v PHeterogaster urticae 1 - oa-p Halticinae sp. 1 - v Aphrophora alni 1 - oa-p Coleoptera sp. 1 - v Auchenorhyncha sp. A 1 - oa-p *Acarina sp. 15 m u Trectus discus 1 - v oa-p *Acarina sp. 6 s u Bembidion (Philochthus) sp. 1 - v oa-p *Cococidea sp. 6 s u Carabidae sp. A 1 - v ob *Collegotera sp. (larva) 6 s u Carabidae sp. A 1 - v ob *Collegotera sp. (larva) 6 s u Carabidae sp. A 1 - v ob *Collegotera sp. (larva) 6 s u Carabidae sp. A 1 - v ob *Coligotera sp. (larva) 1 - u	-				2	_	u
Albodius sp. 1	-	_			2	_	u
Anobium punctatum 1	-	_			2	_	u
Corticaria sp.	-	_			2	_	
Corticarina sp.	-	•				_	
Malticinae sp. 1		_					
Auchenorhyncha sp. A 1 - 0 0 0 0 0 0 0 0 0	-	-		9			•
*Acarina sp. 15 m u Trechus discus 1 c 0 a-p *Acarina sp. 15 m u Bembidion (Philochthus) sp. 1 c 0 a-p *Diptera sp. (larva) 6 s u Carabidae sp. A 1 c 0 a-p *Coleoptera sp. (larva) 6 s u Carabidae sp. B 1 c 0 a-p *Coleoptera sp. (larva) 6 s u Carabidae sp. B 1 c 0 a-p *Coleoptera sp. (larva) 6 s u Carabidae sp. B 1 c 0 a-p *Oligochaeta sp. (egg capsule) 1 c u Helophorus aquaticus or grandis 1 c 0 a-w *Dermaptera sp. (adult) 1 c u Helophorus aquaticus or grandis 1 c 0 a-w *Bibionidæ sp. 1 c u Hydrophilinae sp. 1 c 0 a-w *Bibionidæ sp. 1 c u Hydrophilinae sp. 1 c 0 a-w *Bibionidæ sp. 1 c u Hydrophilinae sp. 1 c 0 a-w *Bibionidæ sp. 1 c u Helophorus aquaticus or grandis 1 c 0 a-w *Bibionidæ sp. 1 c u Hydrophilinae sp. 1 c 0 a-w *Bibionidæ sp. 1 c u Hydrophilinae sp. 1 c 0 a-w *Bibionidæ sp. 1 c u Helophorus aquaticus ingricornis 1 c 0 a-w *Bibionidæ sp. 1 c u Helophorus aquaticus ingricornis 1 c 0 a-w *Bibionidæ sp. 1 c u Helophorus aquaticus ingricornis 1 c 0 a-w *Bibionidæ sp. 1 c u Helophorus aquaticus or grandis 1 c 0 a-w *Bibionidæ sp. 1 c u Helophorus aquaticus ingricornis 1 c 0 a-w *Bibionidæ sp. 1 c u Helophorus aquaticus ingricornis 1 c 0 a-w *Bibionidæ sp. 1 c u Helophorus aquaticus ingricornis 1 c 0 a-w *Bibionidæ sp. 1 c u Helophorus aquaticus ingricornis 1 c 0 a-w *Bibionidæ sp. 1 c u Helophorus aquaticus ingricornis 1 c 0 a-w *Bibionidæ sp. 1 c u Carpelimus rivularis 1 c 0 a-w *Bibionidæ sp. 1 c u Carpelimus pusillus group 1 c u *Coreyon analis 15 m rt-sf Stenus sp. A 1 c u *Coreyon analis 15 m rt-sf Stenus sp. B 1 c u *Coreyon analis 15 m rt-sf Stenus sp. B 1 c u *Context: 2065 Sample: 258/T1 ReM: D Paederinae sp. 1 c u *Context: 2065 Sample: 258/T1 ReM: D Paederinae sp. 1 c u *Context: 2065 Sample: 258/T1 ReM: D Paeder	-		-				
*Acarina sp.	Corcopiera sp.	1 -	u				-
**Coccoidea sp.	*Acarina en	15 m	11				-
*Diptera sp. (larva) 6 s u Carabidae sp. A 1 - ob *Coleop tera sp. (larva) 6 s u Carabidae sp. B 1 - ob *Coleop tera sp. (larva) 6 s u Carabidae sp. B 1 - ob *Oligochaeta sp. (egg capsule) 1 - u Helophorus aquaticus or grandis 1 - oa-w *Dermaptera sp. (adult) 1 - u Hydrophilinae sp. 1 - oa-w *Diptera sp. (adult) 1 - u Hydrophilinae sp. 1 - oa-w *Bibionidae sp. 1 - u Hydrophilinae sp. 1 - oa-w *Bibionidae sp. 1 - u Hydrophilinae sp. 1 - oa-w *Bibionidae sp. 1 - u Hydrophilinae sp. 1 - oa-w *Bibionidae sp. 1 - u Hydrophilinae sp. 1 - oa-w *Bibionidae sp. 1 - u Hydrophilinae sp. 1 - oa-w *Bibionidae sp. 1 - u Hydrophilinae sp. 1 - oa-w *Bibionidae sp. 1 - u Hydrophilinae sp. 1 - oa-w *Bibionidae sp. 1 - u Hydrophilinae sp. 1 - oa-w *Bibionidae sp. 1 - u Hydrophilinae sp. 1 - oa-w *Bibionidae sp. 1 - u Hydrophilinae sp. 1 - oa-w *Bibionidae sp. 1 - u Hydrophilinae sp. 1 - oa-w *Bibionidae sp. 1 - u Hydrophilinae sp. 1 - oa-w *Bibionidae sp. 1 - u Hydrophilinae sp. 1 - oa-w *Bibionidae sp. 1 - u Hydrophilinae sp. 1 - oa-w *Bibionidae sp. 2 - oa-w *Context: 2030 Sample: 286/T1 ReM: D Oa-w *Context: 2030 Sample: 286/T1 ReM: D Oxytelus sculptus group *Carpelimus pivularis 1 - v U *Carpelimus pivularis 1 - v U *Carpelimus pivularis 1 - u U *Stenus sp. A 1 - u *Carpelimus rivularis 1 - v U *Stenus sp. A 1 - u *Carpelimus rivularis 1 - v U *Stenus sp. B 1 - u *Carpelimus rivularis 1 - v U *Stenus sp. B 1 - u *Context: 2065 Sample: 258/T1 ReM: D Gyrohypnus fracticornis 1 - v U *Context: 2065 Sample: 258/T1 ReM: D Gyrohypnus fracticornis 1 - v U *Context: 2065 Sample: 258/T1 ReM: D Gyrohypnus fracticornis 1 - v U *Context: 2065 Sample: 258/T1 ReM: D Gyrohypnus fracticornis 1 - v U							
*Coleoptera sp. (larva) 6 s u	-			· · · · · · · · · · · · · · · · · · ·			
*Oligochaeta sp. (egg capsule)		_		-			
*Dermaptera sp.				-			
*Diptera sp. (adult)							
*Bibionidae sp.		_					
Ochthebius sp. 1 - oa-w		-					
Limnebius sp. 1 - oa-weight Context: 2030 Sample: 286/T1 ReM: A Ptenidium sp. 1 - rt	· Bibioindae sp.	1 -	u	-			
Context: 2030 Sample: 286/T1 ReM: A Ptenidium sp. 1				-			
Weight: 3.00 E: 0.00 F: 0.00 Acrotrichis sp. 1 - rt-sf Notes: Entered 11/9/00. Sorted Steve Rowland, not checked. Beetles fairly abundant. Examined on filter paper. Residue tube contained scraps of Trox. Some aquatics and abundant urban fauna. Carpelimus pusillus group 1 - u Oxytelus sculptus rivularis 1 - rt Oxytelus sculptus 1 - rt-st Stenus sp. A 1 - rt-st Stenus sp. B 1 - u Trox scaber 1 - rt-sf Stenus sp. B 1 - u Stenus sp. B 1 - u Context: 2065 Sample: 258/T1 ReM: D Stenus sp. D 1 - u Weight: 3.00 E: 2.50 F: 2.50 Gyrohypnus fracticornis 1 - u Notes: Entered 11/9/00. Flot 3 mm in jar, sorted Steve Philon thus sp. B 1 - u Rowland, checked HK 7/4/00. Recorded in flot and on filter paper at 'detailed scan' level. E 1.5-3.5, mode 2.5 Aleocharinae sp. C 1 - u D; F 1.5-4.0, mode 2.5 W. Surfaces often very fresh. Melanotus ?erythropus 1 - ob-rf Residue tube recorded. Melanotus ?erythropus 1 - ob-rf Elateridae sp. A 1 - ob-	Contavity 2020, Samular 296/T1 Da	M. A		-			
Notes: Entered 11/9/00. Sorted Steve Rowland, not checked. Beetles fairly abundant. Examined on filter paper. Residue tube contained scraps of Trox. Some aquatics and abundant urban fauna. Cercyon analis 15 m rt-sf Trox scaber 1 - rt-sf Stenus sp. A Cercyon analis 15 m rt-sf Stenus sp. B Trox scaber 1 - rt-sf Stenus sp. C Stenus sp. F Context: 2065 Sample: 258/T1 ReM: D Weight: 3.00 E: 2.50 F: 2.50 Weight: 3.00 E: 2.50 F: 2.50 Notes: Entered 11/9/00. Flot 3 mm in jar, sorted Steve Rowland, checked HK 7/4/00. Recorded in flot and on filter paper at 'detailed scan' level. E 1.5-3.5, mode 2.5 D; F 1.5-4.0, mode 2.5 W. Surfaces often very fresh. Residue tube recorded. Platystethus arenarius 6 - rf Anobium punctatum Omalium ?rivulare Carpelimus pusillus group Carpelimus pusillus group 1 - u Carpelimus pusillus group Carpelimus pusillus group Carpelimus pusillus group 1 - u Anotylus ?tetracarinatus 1 - rt-st Stenus sp. A Stenus sp. B 1 - u Stenus sp. F Paederinae sp. Gyrohypnus fracticornis Philon thus sp. B 1 - u Notes: Entered 11/9/00. Flot 3 mm in jar, sorted Steve Rowland, checked HK 7/4/00. Recorded in flot and on filter paper at 'detailed scan' level. E 1.5-3.5, mode 2.5 Aleoch arinae sp. C Aleoch arinae sp. C Aleoch arinae sp. C 1 - u Blateridae sp. A Aphodius sp. Blateridae sp. A 1 - ob- Platystethus arenarius 6 - rf Elateridae sp. B Anthocomus fasciatus 1 - rt-sf	-	ewi: A		-			
Notes: Entered 11/9/00. Sorted Steve Rowland, not checked. Beetles fairly abundant. Examined on filter paper. Residue tube contained scraps of Trox. Some aquatics and abundant urban fauna. Cercyon analis 15 m rt-sf Stenus sp. A Cercyon analis 15 m rt-sf Stenus sp. B 1 - u Stenus sp. B 1 - u Stenus sp. D Stenus sp. D Stenus sp. F Context: 2065 Sample: 258/T1 ReM: D Weight: 3.00 E: 2.50 F: 2.50 Notes: Entered 11/9/00. Flot 3 mm in jar, sorted Steve Rowland, checked HK 7/4/00. Recorded in flot and on filter paper at 'detailed scan' level. E 1.5-3.5, mode 2.5 D; F 1.5-4.0, mode 2.5 W. Surfaces often very fresh. Residue tube recorded. Platystethus arenarius 6 - rf Anobium punctatum Carpelimus pusillus group Carpelimus rivularis 1 - u Carpelimus rivularis 1 - v carpelimus rivularis 1 - v carpelimus pusillus group Carpelimus rivularis 1 - v carpelimus rivularis 1 - vt rt-st Stenus sp. A Stenus sp. B 1 - u Stenus sp. F Paederinae sp. Gyrohypnus fracticornis Philon thus sp. B 1 - vt-st Philon thus sp. C Philon thus sp. C 1 - u Residue tube recorded. Philon thus sp. C Aleoch arinae sp. C Aleoch arinae sp. C Aleoch arinae sp. C 1 - v Belateridae sp. A Platystethus arenarius Anobium punctatum 6 - rf Elateridae sp. A Anthocomus fasciatus 1 - ob	Weight: 3.00 E: 0.00 F: 0.00			•			
checked. Beetles fairly abundant. Examined on filter paper. Residue tube contained scraps of Trox. Some aquatics and abundant urban fauna. Cercyon analis 15 m rt-sf Stenus sp. A Cercyon analis 1 - rt-sf Stenus sp. B 1 - u Stenus sp. D Stenus sp. D Stenus sp. D Stenus sp. D Stenus sp. F 1 - u Context: 2065 Sample: 258/T1 ReM: D Weight: 3.00 E: 2.50 F: 2.50 Notes: Entered 11/9/00. Flot 3 mm in jar, sorted Steve Rowland, checked HK 7/4/00. Recorded in flot and on filter paper at 'detailed scan' level. E 1.5-3.5, mode 2.5 Platystethus arenarius 6 - rf Anobium punctatum 6 - l-sf Anthocomus fasciatus 1 - ob-d Anotylus ?tetracaninatus 1 - rt carpelimus rivularis 1 - rt chantylus ?tetracaninatus 1 - rt chantylus ?tetracaninatus 1 - rt-st Coxytelus sculptus 1 - u Value Stenus sp. B 1 - u Stenus sp. F Stenus sp. C Stenus sp. C Stenus sp. D Stenus sp. F 1 - u Stenus sp. F Alecharinae sp. C 1 - u Stenus sp. C Aleoch arinae	Notes Entered 11/0/00 Sented Sta	Dan	alamal mat				
paper. Residue tube contained scraps of Trox. Some aquatics and abundant urban fauna. Cercyon analis 15 m rt-sf Stenus sp. A Cercyon analis 15 m rt-sf Stenus sp. B Context: 2065 Sample: 258/T1 ReM: D Weight: 3.00 E: 2.50 F: 2.50 Notes: Entered 11/9/00. Flot 3 mm in jar, sorted Steve Rowland, checked HK 7/4/00. Recorded in flot and on filter paper at 'detailed scan' level. E 1.5-3.5, mode 2.5 Residue tube recorded. Platystethus arenarius 6 - rf Anobium punctatum Anotylus ?tetracarinatus 1 - rt-st Oxytelus sculptus 1 - rt-st Stenus sp. A 1 - u Stenus sp. D Stenus sp. D Stenus sp. F 1 - u Stenus sp. F Paederinae sp. Gyrohypnus fracticornis Philon thus sp. B 1 - u Philon thus sp. B 1 - rt-sf Aleoch arinae sp. C 1 - u Platystethus arenarius 6 - rf Elateridae sp. A Anthocomus fasciatus 1 - rt-st Oxytelus sculptus 1 - rt-st Stenus sp. A Anthocomus fasciatus 1 - rt-st Residue tube recorded. Anthocomus fasciatus 1 - ob			*				
Aquatics and abundant urban fauna. Oxytelus sculptus Stenus sp. A 1 - rt-st Stenus sp. B Trox scaber 1 - rt-sf Stenus sp. C Stenus sp. C Stenus sp. D Stenus sp. F 1 - u Stenus sp. F 1 - u Context: 2065 Sample: 258/T1 ReM: D Weight: 3.00 E: 2.50 F: 2.50 Weight: 3.00 E: 2.50 F: 2.50 Notes: Entered 11/9/00. Flot 3 mm in jar, sorted Steve Rowland, checked HK 7/4/00. Recorded in flot and on filter paper at 'detailed scan' level. E 1.5-3.5, mode 2.5 D; F 1.5-4.0, mode 2.5 W. Surfaces often very fresh. Residue tube recorded. Platystethus arenarius 6 - rf Anobium punctatum Oxytelus sculptus 1 - rt-st Stenus sp. B 1 - u Stenus sp. F 1 - v Aleocharinae sp. C 1 - u Belateridae sp. C 1 - u Ob-rf Elateridae sp. A 1 - ob Platystethus arenarius 6 - rf Elateridae sp. B Anthocomus fasciatus 1 - rt-st Oxytelus sculptus A - rt-st Belateridae sp. B Anthocomus fasciatus 1 - ob	-			-			
Cercyon analis 15 m rt-sf Stenus sp. A Stenus sp. B 1 - u Trox scaber 1 - rt-sf Stenus sp. C Stenus sp. D Stenus sp. D Stenus sp. D Stenus sp. F 1 - u Context: 2065 Sample: 258/T1 ReM: D Weight: 3.00 E: 2.50 F: 2.50 Weight: 3.00 E: 2.50 F: 2.50 Notes: Entered 11/9/00. Flot 3 mm in jar, sorted Steve Rowland, checked HK 7/4/00. Recorded in flot and on filter paper at 'detailed scan' level. E 1.5-3.5, mode 2.5 D; F 1.5-4.0, mode 2.5 W. Surfaces often very fresh. Residue tube recorded. Platystethus arenarius 6 - rf Anobium punctatum 6 - l-sf Anthocomus fasciatus 1 - u 1 - u Al - u Al - u Aphodius sp. C Ap		-	rox. Some				
Cercyon analis 15 m rt-sf Stenus sp. B Stenus sp. C Stenus sp. C Stenus sp. D Stenus sp. F Stenus sp. C Stenus sp. S Sten	aquatics and abundant urban fauna.			_			
Trox scaber 1 - rt-sf Stenus sp. C 1 - u Stenus sp. F 1 - u Stenus sp. F 1 - u Stenus sp. F 1 - u Context: 2065 Sample: 258/T1 ReM: D Paederinae sp. 1 - u Weight: 3.00 E: 2.50 F: 2.50 Gyrohypnus fracticornis Philon thus sp. B 1 - u Notes: Entered 11/9/00. Flot 3 mm in jar, sorted Steve Rowland, checked HK 7/4/00. Recorded in flot and on filter paper at 'detailed scan' level. E 1.5-3.5, mode 2.5 Aleoch arinae sp. C 1 - u D; F 1.5-4.0, mode 2.5 W. Surfaces often very fresh. Residue tube recorded. Platystethus arenarius 6 - rf Elateridae sp. B 1 - ob Anobium punctatum 6 - 1-sf Anthocomus fasciatus 1 - ob	C	15	C	-			
Stenus sp. D Stenus sp. F Context: 2065 Sample: 258/T1 ReM: D Paederinae sp. Gyrohypnus fracticornis Philon thus sp. B Notes: Entered 11/9/00. Flot 3 mm in jar, sorted Steve Rowland, checked HK 7/4/00. Recorded in flot and on filter paper at 'detailed scan' level. E 1.5-3.5, mode 2.5 D; F 1.5-4.0, mode 2.5 W. Surfaces often very fresh. Residue tube recorded. Platystethus arenarius 6 - rf Anobium punctatum Stenus sp. D Paederinae sp. Gyrohypnus fracticornis Philon thus sp. B Philon thus sp. C Philon thus sp. C Philon thus sp. C 1 - u Aleoch arinae sp. C 1 - u Aphodius sp. Melanotus ?erythropus Elateridae sp. A 1 - ob-rf Anobium punctatum 6 - l-sf Anthocomus fasciatus 1 - ob	-					-	
Context: 2065 Sample: 258/T1 ReM: D Weight: 3.00 E: 2.50 F: 2.50 Notes: Entered 11/9/00. Flot 3 mm in jar, sorted Steve Rowland, checked HK 7/4/00. Recorded in flot and on filter paper at 'detailed scan' level. E 1.5-3.5, mode 2.5 D; F 1.5-4.0, mode 2.5 W. Surfaces often very fresh. Residue tube recorded. Platystethus arenarius 6 - rf Anobium punctatum Stenus sp. F Paederinae sp. Gyrohypnus fracticornis 1 - u Philon thus sp. C 1 - i U Philon thus sp. C 1 - i U Paederinae sp. C 1 - ob-residue sp. Aphodius sp. Platystethus arenarius Aphodius sp. Blateridae sp. A 1 - ob-residue sp. Aphodius sp. Platystethus arenarius Anthocomus fasciatus 1 - ob-residue sp. B Anthocomus fasciatus 1 - ob-residue sp. B Anthocomus fasciatus	1 rox scaber	1 -	rt-si	-	-	-	
Context: 2065 Sample: 258/T1 ReM: D Weight: 3.00 E: 2.50 F: 2.50 Notes: Entered 11/9/00. Flot 3 mm in jar, sorted Steve Rowland, checked HK 7/4/00. Recorded in flot and on filter paper at 'detailed scan' level. E 1.5-3.5, mode 2.5 D; F 1.5-4.0, mode 2.5 W. Surfaces often very fresh. Residue tube recorded. Platystethus arenarius 6 - rf Anobium punctatum Paederinae sp. C Gyrohypnus fracticornis Philon thus sp. B 1 - u Philon thus sp. C 1 - u Falagria caesa or sulcatula 1 - rt-sf Aleoch arinae sp. C 1 - u Platystethus arenarius 6 - rf Elateridae sp. A 1 - ob Anthocomus fasciatus 1 - ob				-	_		
Weight: 3.00 E: 2.50 F: 2.50 Rowland, checked HK 7/4/00. Recorded in flot and on filter paper at 'detailed scan' level. E 1.5-3.5, mode 2.5 Residue tube recorded. Platystethus arenarius 6 - rf Anobium punctatum Gyrohypnus fracticornis Philon thus sp. B 1 - rt-st Philon thus sp. C 1 - u Philon thus sp. C 1 - u Philon thus sp. C 1 - u Philon thus sp. C 1 - v Aleoch arinae sp. C Aphodius sp. Melanotus ?erythropus Elateridae sp. A 1 - ob Platystethus arenarius 6 - rf Anthocomus fasciatus 1 - rt-st Aleoch arinae sp. C Aphodius sp. Blateridae sp. A 1 - ob Anthocomus fasciatus 1 - ob	G + + 2065 G + 1 250/E1 P) (D		-	_		
Notes: Entered 11/9/00. Flot 3 mm in jar, sorted Steve Rowland, checked HK 7/4/00. Recorded in flot and on filter paper at 'detailed scan' level. E 1.5-3.5, mode 2.5 D; F 1.5-4.0, mode 2.5 W. Surfaces often very fresh. Residue tube recorded. Philon thus sp. B Philon thus sp. C Falagria caesa or sulcatula 1 - rt-sf Aleoch arinae sp. C 1 - u Aphodius sp. 1 - ob-rf Relateridae sp. A Platystethus arenarius 6 - rf Elateridae sp. A Anthocomus fasciatus 1 - ob		eM: D					
Notes: Entered 11/9/00. Flot 3 mm in jar, sorted Steve Rowland, checked HK 7/4/00. Recorded in flot and on filter paper at 'detailed scan' level. E 1.5-3.5, mode 2.5 D; F 1.5-4.0, mode 2.5 W. Surfaces often very fresh. Residue tube recorded. Philon thus sp. C Falagria caesa or sulcatula 1 - rt-sf Aleoch arinae sp. C 1 - u Aleoch arinae sp. C Aphodius sp. 1 - ob-rf Relateridae sp. A Platystethus arenarius 6 - rf Anobium punctatum 6 - l-sf Anthocomus fasciatus 1 - ob	Weight: 3.00 E: 2.50 F: 2.50						
Rowland, checked HK 7/4/00. Recorded in flot and on filter paper at 'detailed scan' level. E 1.5-3.5, mode 2.5 D; F 1.5-4.0, mode 2.5 W. Surfaces often very fresh. Residue tube recorded. Platystethus arenarius 6 - rf Anobium punctatum Falagria caesa or sulcatula Aleocharinae sp. C 1 - u Aphodius sp. Melanotus ?erythropus Elateridae sp. A 1 - ob Falagria caesa or sulcatula 1 - rt-sf Aleocharinae sp. C 1 - ob-rf Elateridae sp. A 1 - ob Anthocomus fasciatus 1 - ob	N		1.0				
filter paper at 'detailed scan' level . E 1.5-3 .5, mode 2.5 D; F 1.5-4.0, mode 2.5 W. Surfaces often very fresh. Residue tube recorded. Platystethus arenarius 6 - rf Anobium punctatum 6 - l-sf Aleoch arinae sp. C Aleoch arinae sp. C 1 - u Aphodius sp. 1 - ob-rf Elateridae sp. A 1 - ob Anthocomus fasciatus 1 - ob				-			
D; F 1.5-4.0, mode 2.5 W. Surfaces often very fresh. Residue tube recorded. Platystethus arenarius Aphodius sp. Melanotus ?erythropus Elateridae sp. A 1 - ob-rf Elateridae sp. A 1 - ob Elateridae sp. B Anthocomus fasciatus 1 - ob ob Anthocomus fasciatus							
Residue tube recorded. Melanotus ?erythropus Elateridae sp. A 1 - 1 Elateridae sp. A 1 - ob Platystethus arenarius 6 - rf Elateridae sp. B Anthocomus fasciatus 1 - ob				•			
Elateridae sp. A 1 - ob Platystethus arenarius 6 - rf Elateridae sp. B 1 - ob Anobium punctatum 6 - l-sf Anthocomus fasciatus 1 - ob		often	very fresh.				
Platystethus arenarius 6 - rf Elateridae sp. B 1 - ob Anobium punctatum 6 - 1-sf Anthocomus fasciatus 1 - ob	Residue tube recorded.						
Anobium punctatum 6 - 1-sf Anthocomus fasciatus 1 - ob			6	-			
r				-			
Anotylus complanatus 4 - rt-sf Brachypterus sp. 1 - 0a-p							
	Anotylus complanatus	4 -	rt-st	Brachypierus sp.	1	-	оа-р

Meligethes sp.	1	_	oa-p	Platystethus sp.	1	_	oa-d
Omosita sp.	1	_	rt-sf	Oxytelus sculptus	1	_	rt-st
Rhizophagus sp.	1	_	u	Stenus sp.	1	_	u
Cryptop hagus sp. A	1	_	rd-sf	Leptacinus sp.	1	_	rt-st
Cryptop hagus sp. A Cryptop hagus sp. B	1	_	rd-sf	Philonthus sp.	1	_	u
Atomaria sp.	1	_	rd	Aphodius sp.	1	_	ob-rf
Orthoperus sp.	1	_	rt	Oxyomus sylvestris	1	_	rt-sf
Aglenus brunneus	1	_	rt-ss	Cyphon sp.	1	_	oa-d
Anthicus floralis or formicarius	1	_	rt-st	Ptinus fur	1	_	rd-sf
Cidnorhinus quadrimaculatus	1	_	oa-p	?Rhizophagus sp.	1	_	u
Ceutorhynchus sp.	1	_	oa-p	Monotoma sp. A	1	_	rt-sf
Curculionidae sp.	1		oa-p oa	Mon otoma sp. B	1	_	rt-sf
Stenus sp. E	1	-	0a	Atomaria sp.	1	_	rd
Stellus sp. L			u	Mycetaea hirta	1	_	rd-ss
*Diptera sp. (puparium)	15	m		Lathridius minutus group	1	_	rd-st
*Acarina sp.		m		?Enicmus sp.	1	_	rt-sf
*Daphnia sp. (ephippium)	6	S	oa-w	Cortic aria sp. A	1	_	rt-sf
*Coleoptera sp. (larva)	6	S	u	Cortic aria sp. B	1	_	rt-sf
*Hymenoptera Parasitica sp.	6	S	u	Aglenus brunneus	1	_	rt-ss
*Heteroptera sp. (nymph)	4	-	u	Chaetocnema concinna	1	_	oa-p
*Cladocera sp. F (ephippium)	2	_	oa-w	Halticinae sp.	1	_	oa-p
*Diptera sp. (adult)	2	_	u	Curculionidae sp.	1	_	oa
*Cladocera sp. S (ephippium)	1	_	oa-w	- W			
*Chilopoda sp.	1	_	u	*Acarina sp.	1.5	m	u
*Aphidoidea sp.	1	_	u	*Diptera sp. (adult)	6	s	u
*Diptera sp. (pup a)	1	_	u	*Diptera sp. (puparium)	6	s	u
*Siphonaptera sp.	1	_	u	*Coleoptera sp. (larva)	6	S	u
*Hymenoptera sp.	1	_	u	*Insecta sp. (pupa)	6	s	u
*Proctotrupoidea sp.	1	_	u	*Coccoidea sp.	1	_	u
*Aranae sp.	1	_	u	*Apoidea sp.	1	_	u
*Lophopus crystallinus	1	_	oa-w	*Opiliones sp.	1	_	u
Pao -	•		"				

Context: 2131 Sample: 280/T ReM: A Weight: 1.00 E: 0.00 F: 0.00

Notes: Small flot, some plant debris and seeds but mostly invertebrates

Platystethus arenarius $6 \ s \ rf$ Platystethus cornutus group 6 s oa-d Anotylus nitidulus 6 s rt Aleocharinae sp. 6 s u Trox scaber 6 s rt-sf Anotylus rugosus 2 rt 2 l-sf Anobium punctatum Carabus sp. 1 oa Bembidion sp. 1 oa ?Bradycellus sp. 1 - oa Helophorus sp. 1 - oa-w Cercyon analis 1 - rt-sf Cercyon ?haemorrho idalis 1 - rf-sf Acritus nigricornis 1 - rt-st Carpelimus sp. 1 - u

Context: 2131 Sample: 281/T1 ReM: RS

Weight: 3.00 E: 2.00 F: 4.00

Notes: Entered 12/9/00. Flot 4 mm in jar, sorted Steve Rowland, checked HK 7/4/00. Recorded in flot and on filter paper. Residue tube material incorporated. E 1.5-3.5, mode 2.0 S; F 1.0-4.0, mode 4.0 W.

Anotylus nitidulus	15	m	rt
Cercyon analis	6	s	rt-sf
Carpelimus?bilineatus	6	s	rt-sf
Lathridius minutus group	6	s	rd-st
Trox scaber	4	-	rt-sf
Neobisnius sp.	3	-	u
Anobium punctatum	3	-	l-sf
Helophorus sp.	2	-	oa-w
Acritus nigricornis	2	-	rt-st
Platystethus arenarius	2	-	rf
Anotylus rugosus	2	-	rt
Leptacinus sp.	2	-	rt-st
Cryptophagus sp.	2	_	rd-sf

Coolemastathus an	1			Coleo ptera sp. A	1	_	u
Scolopostethus sp.		-	oa-p	Coleo ptera sp. B	1	_	u
Corixidae sp. Bembidion lampros or properans			oa-w	Colco piera sp. B	1		u
Pterostichus melanarius		-	oa ob	*Acarina sp.	1.5	m	11
Carabidae sp.		-	ob	*Coleoptera sp. (larva)	6	S	u
?Rhantus sp.		_	oa-w	*Aphidoidea sp.	2	-	u
-		-		*Pulex irritans	2	_	SS
Helophorus aquaticus or grandis		-	oa-w rf-st	*Oligochaeta sp. (egg capsule)	1	_	u
Cercyon ?atricapillus Cercyon ?haemorrhoidalis	-	-	rf-st	*Heteroptera sp. (nymph)	1	_	u
•	_	-		*Auchenorhyncha sp. (nymph)	1	_	
Hydrophilinae sp. Teretrius fabricii	_	-	oa-w l	*Melophagus o vinus (adult)	1	_	oa-p u
	-			*Formicidae sp.	1	_	u
Historinae sp.	_	-	rt	*Hymenoptera Parasitica sp.	1	_	u
Ochthebius sp.	-	-	oa-w	*Proctotrupoidea sp.	1	-	
Hydraena sp.	_	-	oa-w	*Aranae sp.	1	-	u
Limnebius sp.		-	oa-w	Ataliae sp.	1	-	u
Scydmaenidae sp.		-	u				
Phyllodrepa sp.		-	rt	Contant 2160 Sample 287/T Dal	г. л		
Dropephylla sp.		-	u	Context: 2160 Sample: 287/T ReM	I: A		
Omalium ?excavatum		-	rt-sf	Weight: 1.00 E: 0.00 F: 0.00			
Coprophilus striatulus		-	rt-st	NT / NT 11.0 / 11.1	. 1		c
Carpelimus fuliginosus		-	st	Notes: Very small flot, mostly inver	teb	rate	s; a few
Platystethus nitens		-	oa-d	seeds			
Anotylus complanatus		-	rt-sf		_		
Oxytelus sculptus		-	rt-st	Anotylus rugosus	6	S	rt
Stenus sp.	1	-	u	Aleocharinae sp.	6	S	u
Stenus sp. A	1	-	u	Clivina sp.	1	-	oa
Stenus sp. B	1	-	u	Trechus sp.	1	-	ob
Lathro bium sp. A	1	-	u	Carabidae sp.	1	-	ob
Lathrobium sp. B	1	-	u	Dytiscidae sp.	1	-	oa-w
Rugilus sp.	1	-	rt	Helophorus sp. A	1	-	oa-w
Gyrohypnus sp.	1	-	rt	Helophorus sp. B	1	-	oa-w
Philon thus sp. A	1	-	u	Cercyon analis	1	-	rt-sf
Philon thus sp. B	1	-	u	Cercyon sp.	1	-	u
Philon thus sp. C	1	-	u	Ptiliidae sp.	1	-	u
Staphylininae sp.	1	-	u	Omalium caesum or italicum	1	-	rt-sf
Tachyporus sp.	1	-	u	Xylodromus concinnus	1	-	rt-st
Tachinus signatus	1	-	u	Carpelimus fuliginosus	1	-	st
Falagria caesa or sulcatula	1	-	rt-sf	Platystethus arenarius	1	-	rf
Aleochara sp.	1	-	u	Stenus sp.	1	-	u
Pselaphidae sp.	1	-	u	Xantholinus linearis or longiventris	1	-	rt-sf
Aphodius ?granarius	1	-	ob-rf	Philonthus sp.	1	-	u
Aphodius ?prodromus	1	-	ob-rf	Gabrius sp.	1	-	rt
Clambus sp.	1	-	rt-sf	Creophilus maxillosus	1	-	rt
Melanotus ?erythropus	1	_	1	Falagria sp.	1	-	rt-sf
?Tipnus unicolor	1	_	rt-ss	Trox scaber	1	-	rt-sf
Phalacridae sp.	1	_	oa-p	Aphodius sp.	1	-	ob-rf
Corticaria sp.	1	_	rt-sf	Anobium punctatum	1	-	l-sf
Anthicus floralis or formicarius	1	_	rt-st	Rhizophagus sp.	1	-	u
Chrysomelinae sp.		_	oa-p	Atomaria sp.	1	_	rd
Chaetocnema concinna		_	oa-p	Corticaria sp.	1	_	rt-sf
Apion sp.		_	oa-p	Gastrophysa viridula	1	_	oa-p
Sitona sp.		_	oa-p	Halticinae sp.	1	_	oa-p
?Notaris acridulus		_	oa-d-p	Apion sp.	1	_	oa-p
Rhinoncus sp.		_	oa-p	Ceutorhynchus sp.	1	_	oa-p
олечо ор.	1		2 m P	,			Г

		TT 1	1		
*Diptera sp. (puparium)	6 s u	Hydrop orinae sp. A	1	-	oa-w
*Coleop tera sp. (larva)	6 s u	Hydrop orinae sp. B	1	-	oa-w
*Diptera sp. (adult)	2 - u	Hydrop orinae sp . C	1	-	oa-w
*Aranae sp.	1 - u	Helophorus aquaticus or grandis	1	-	oa-w
		Cercyon ?unipunctatus	1	-	rf-st
		Ochthebius sp.	1	-	oa-w
Context: 2160 Sample: 287/T1	ReM: D	Lesteva longoelytrata	1	-	oa-d
Weight: 3.00 E: 2.00 F: 2.50		Omalium caesum or italicum	1	-	rt-sf
		Omalium ?rivulare	1	-	10 01
Notes: Entered 12/9/00. Flot 5 m	m in jar, much of it	?Xylodromus concinnus	1	-	rt-st
invertebrates. Sorted Steve Row	,	Omaliinae sp.	1	-	rt
11/4/00. Recorded in flot and on		Platystethus ?cornutus	1	-	oa-d
tube contained very little. E 1.0-2	2.5, mode 2.0 S; F	Platystethus nodifrons	1	-	oa-d
1.5-4.0, mode 2.5 D. M. hirta lef	t elytron black.	Anotylus rugosus	1	-	rt
		Anotylus sculpturatus group	1	-	rt
Cercyon analis	9 - rt-sf	Stenus sp. B	1	-	u
Lathridius minutus group	9 - rd-st	Lithocharis ochracea	1	-	rt-st
Anotylus nitidulus	7 - rt	Paederinae sp.	1	-	u
Helophorus sp.	6 - oa-w	Leptacinus intermedius	1	-	rt-st
Ochthebius ?minimus	4 - oa-w	Leptacinus?pusillus	1	-	rt-st
Platystethus arenarius	4 - rf	Xantholinus lon giventris	1	-	rt-sf
Aleoch arinae sp. B	4 - u	Philon thus sp. A	1	-	u
Trox scaber	4 - rt-sf	Philon thus sp. B	1	-	u
Atomaria sp. A	4 - rd	Creophilus maxillosus	1	-	rt
Oxytelus sculptus	3 - rt-st	Quedius sp.	1	-	u
Gyrohypnus fracticornis	3 - rt-st	Mycetoporus sp.	1	-	u
Neobisnius sp.	3 - u	Tachyporus ?obtusus	1	_	u
Aphodius ?prodromus	3 - ob-rf	Tachyporus sp.	1	-	u
Aphodius sp.	3 - ob-rf	Cordalia ob scura	1	_	rt-sf
Anobium punctatum	3 - 1-sf	Falagria caesa or sulcatula	1	_	rt-sf
Chaetocnema concinna	3 - oa-p	Aleoch arinae sp. A	1	_	u
Macrodema micropterum	2 - oa-p-m	Aleoch arinae sp. C	1	_	u
Acritus nigricornis	2 - rt-st	Aleoch arinae sp. D	1	_	u
Limnebius sp.	2 - oa-w	Aleoch arinae sp. E	1	_	u
Carpelimus ?bilineatus	2 - rt-sf	Aleoch arinae sp. G	1	_	u
Carpelimus fuliginosus	2 - st	Aleoch arinae sp. H	1	_	u
Platystethus ?degener	2 - oa-d	Oulimnius sp.	1	_	oa-w
Anotylus complanatus	2 - rt-sf	Elateridae sp.	1		ob
Stenus sp. A	2 - u	Ptinus ?fur	1	_	rd-sf
Philon thus sp. C	2 - u 2 - u	Monotoma picipes	1	_	rt-st
Aleoch arinae sp. F	2 - u 2 - u	Atomaria sp. B	1	_	rd
Cryptophagus sp.	2 - u 2 - rd-sf	Orthoperus sp.	1	_	rt
		Coccinellidae sp.	1	_	oa-p
Sitona lepidus Sehirus bicolor		Mycetaea hirta	1	_	rd-ss
	1 - oa-p	Enicmus sp.	1	-	rt-sf
Heterogaster urticae	1 - oa-p	Corticaria sp.	1	-	rt-sf
?Miridae sp.	1 - oa-p		1	-	
Saldidae sp.	1 - oa-d	Corticarina sp.			rt
Heteroptera sp.	1 - u	Cisidae sp.	1	-	1
Elaphrus cupreus	1 - oa-d	?Gastrophysa viridula	1	-	oa-p
Clivina fossor	1 - oa	?Phaedon sp.	1	-	oa-p
Trechus micros	1 - u	Phyllotreta nemorum group	1	-	oa-p
Bembidion ?lampros	1 - oa	Long itarsus sp. A	1	-	oa-p
Bradycellus ruficollis	1 - oa-m	Long itarsus sp. B	1	-	oa-p
Carabidae sp.	1 - ob	Apion sp. A	1	-	oa-p

Apion sp. B 1 - oa-p Phylloreta nemorum group 2 - of-ses Strophosomus sp. 1 - oa-p Phylloreta nemorum group 2 - oa-p Phylloreta nemorum group 3 - oa-p Phylloreta nemorum group 4 Apion sp. B 3 - oa-p Phylloreta nemorum group 4 Apion sp. B 3 - oa-p Phylloreta nemorum group 4 Apion sp. B 3 - oa-p Phylloreta nemorum group 4 Apion sp. B 3 - oa-p Phylloreta nemorum group 4 Nopion sp. B 4 - oa-p Phylloreta nemorum group 5 - oa-p Phylloreta nemorum group 6 - oa-p Phylloreta nemorum group 7 - oa-p Phylloreta nemorum group 8 - oa-p Phylloreta nemorum group 9 - oa-p Phylloreta nemorum gr	Amion on D	1 00 m	Aglenus brunneus	2	_	rt-ss
**Polipter sp. (puparium)		1				
*Diptera sp. (puparium)	Strophosomus sp.	1 - оа-р				-
***Acarina sp. 15 m u	*Dintara an (numanium)	15				-
Colcoptera sp. (larva)						-
Poliptera sp. (adult)	*					
*Siphonaptera sp. 2 - u Laemostenus ?terricola 1 - o b *Chalcaloidea sp. 2 - u Laemostenus ?terricola 1 - o b *S *Hymenoptera Parasitica sp. 2 - u Hydroporinae sp. 1 - o ob *Aranae sp. 2 - u Hydroporinae sp. 1 - o ob *Aranae sp. 2 - u Hydroporinae sp. 1 - o ob *Aranae sp. 2 - u Hydroporinae sp. 1 - o ob *Melophagus ovinus (puparium) 1 - u Histerinae sp. 1 - o ob *Ochthebius ?minimus 2 - ob ob *Ochthebius ?minimus 2 - ob ob *Ochthebius ?minimus ?m						
**Chalekdoidea sp. 2 - u Carabidae sp. 1 - ob* **Hymenoptera Parasitica sp. 2 - u Carabidae sp. 1 - ob* **Aramae sp. 2 - u Hydroporinae sp. 1 - oa-w **Diptera sp. (larva) 1 - u Helophorus aquaticus or grandis 1 - oa-w **Melophagus ovinus (puparium) 1 - u Histerinae sp. 1 - oa-w **Melophagus ovinus (puparium) 1 - u Histerinae sp. 1 - oa-w **Weight: 3.00 E: 0.00 F: 0.00 **Context: 2160 Sample: 291/T1 ReM: S Hydraena sp. 1 - oa-w **Weight: 3.00 E: 0.00 F: 0.00 **Context: 2160 Sample: 291/T1 ReM: S Hydraena sp. 1 - oa-w **Weight: 3.00 E: 0.00 F: 0.00 **Notes: Entered 12/9/00. Flot 1 cm in jar or fine woody of debris, sorted Steve Rowland, part checked HK **11/4/00 (almost no useful remains had been le ft in). **Recorded in flot and on filter paper. Nothing significant in residue tube. No record of preservation. **Exercised in flot and on filter paper. Nothing significant in residue tube. No record of preservation. **Lathridius minutus group 19 - rd-st Lithocharis ochracea 1 - rt-st Oxytelus sculptus 2 - rt-st Alcocharinae sp. C 10 - u Gyrohynus angustatus 1 - rt-st Alcocharinae sp. C 10 - u Gyrohynus angustatus 1 - rt-st Alcocharinae sp. C 10 - u Gyrohynus angustatus 1 - rt-st Helophorus sp. 7 - oa-w Philonthus sp. A 1 - rt-st Stenus sp. A 1 - rt-st Stenus sp. A 1 - rt-st Stenus sp. A 1 - rt-st Alcocharinae sp. C 1 - oa-w Philonthus sp. A 1 - rt-st Stenus sp. A 1 - rt-st Alcocharinae sp. C 1 - ob-d Philonthus sp. A 1 - rt-st Alcocharinae sp. C 1 - ob-d Philonthus sp. A 1 - rt-st Alcocharinae sp. C 1 - ob-d Philonthus sp. A 1 - rt-st Alcocharinae sp. C 1 - ob-d Philonthus sp. A 1 - rt-st Alcocharinae sp. C 1 - ob-d Philonthus sp. A 1 - rt-st Alcocharinae sp. D 1 - rt-st Alcocharinae sp. D 1 - ob-rt-st Alcocharinae sp.			-			
#Hymenoptera Parasitica sp. 2 - u Hydroporinae sp. 1 - o ob- *Aranae sp. 2 - u Hydroporinae sp. 1 - o oa-w *Aranae sp. 1 - u Helophorus aquaticus or grandis 1 - oa-w *Melophagus ovinus (puparium) 1 - u Histerinae sp. 0 - ochthebius *minimus 1 - oa-w *Melophagus ovinus (puparium) 1 - u Histerinae sp. 0 - ochthebius *minimus 1 - oa-w *Melophagus ovinus (puparium) 1 - u Histerinae sp. 0 - ochthebius *minimus 1 - oa-w *Melophagus ovinus (puparium) 1 - u Histerinae sp. 0 - ochthebius *minimus 1 - oa-w *Melophagus ovinus (puparium) 1 - u Hydroporinae sp. 0 - ochthebius *minimus 1 - oa-w *Melophagus ovinus (puparium) 1 - u Hydroporinae sp. 0 - rt-sf *Motes: Entered 12/9/00. Flot 1 cm in jar or fine woody *debris, sorted Steve Rowland, part checked HK 11/4/00 (almost no useful remains had been left in). *Recorded in flot and on filter paper. Nothing *significant in residue tube. No record of preservation. Lathridius minutus group 19 - rd-st Lithocharis ochnacea 1 - rt-st *Stenus sp. B Lathridius minutus group 19 - rd-st Lithocharis ochnacea 1 - rt-st *Alcoch arinae sp. C 10 - u Gyrohypnus angustatus 1 - rt-st *Alcoch arinae sp. C 10 - u Gyrohypnus angustatus 1 - rt-st *Alcoch arinae sp. C 10 - u Gyrohypnus angustatus 1 - rt-st *Alcoch arinae sp. C 10 - u Gyrohypnus angustatus 1 - rt-st *Anotybus nitidulus 9 - rt Xantholinus long iventris 1 - u *Anotybus rugosus 1 - rt-sf Quedius sp. 1 - u *Anotybus rugosus 4 - rt - Alcoch arinae sp. D 1 - u *Anotybus rugosus 4 - rt-sf Alcocharinae sp. D 1 - u *Anotybus rugosus 3 - rt-sf Alcocharinae sp. D 1 - u *Anotybus complanatus 2 - rt-sf Alcocharinae sp. D 1 - rt-sf *Carpelimus fulliginosus 3 - rt-sf Alcocharinae sp. D 1 - rt-sf *Carpelimus fulliginosus 2 - rt-sf Alcocharinae sp. D 1 - rt-sf *Carpelimus fulliginosus 2 - rt-sf Alcocharinae sp. D 1 - rt-sf *Carpelimus fulliginosus 2 - rt-sf Alcocharinae sp. D 1 - rt-sf *Carpelimus fulliginosus 2 - rt-sf Alcocharinae sp. D 1 - rt-sf *Carpelimus fulliginosus 2 - rt-sf Alcocharinae sp. D 1 - rt-sf *Carpelimus fulliginosus 2 - rt-sf A						
*Aramae sp.	•					
#Melophagus ovinus (puparium) 1						
*Melophagus ovinus (puparium) 1 - u Histerinae sp. Ochthebius 2minimus 1 - o a-w oa-w oa-w oa-w Ochthebius 2minimus 1 - o a-w oa-w Oa-w Oa-w Oa-w Oa-w Oa-w Oa-w Oa-w O	-	_				
Context: 2160 Sample: 291/T1 ReM: S						
Context: 2160 Sample: 291/T1 ReM: S	· Metophagus ovinus (pupanum)	1 - u	-			
Weight: 3.00 E: 0.00 F: 0.00 Notes: Entered 12/9/00. Flot 1 cm in jar or fine woody debris, sorted Steve Rowland, part checked HK Carpelimus pusillus group 1 - rt-sf 11/4/00 (almost no useful remains had been le ft in). Platystethus nitens 1 - v Recorded in flot and on filter paper. Nothing significant in residue tube. No record of preservation. Anotylus ?teracarinatus 1 - rt-st Lathridius minutus group 19 - rd-st Lithocharis ochacea 1 - rt-st Cercyon analis 14 - rt-sf Leptacinus pusillus 1 - rt-st Platystethus arenarius 12 - rf Gauropterus fulgidus 1 - rt-st Alcocharinae sp. C 10 - u Gyrohypnus angustatus 1 - rt-st Alcocharinae sp. C 10 - u Wantholinus lon giventris 1 - rt-st Helophorus sp. 7 - o a-w Philonthus sp. A 1 - rt-st Keenus p. A 5 - u Staphylininae sp. 1 - u Veryon haemorrhoidalis 5 - u Staphylininae sp. 1 - u Neobisnius sp.	C 2160 S 1 201/T1 D	-M. C				
Notes: Entered 12/9.00. Flot 1 cm in jar or fine woody debris, sorted Steve Rowland, part checked HK 11/4/00 (almost no useful remains had been le ft in). Recorded in flot and on filter paper. Nothing significant in residue tube. No record of preservation. Lathridius minutus group 19 - rd-st Lithocharis ochaeca 1 - rt-st Stenus sp. B 1 - rt-st Cereyon analis 14 - rt-sf Leptacinus pusillus group 1 - rt-st Aleocharinae sp. C 10 - u Gyrohypnus angustatus 1 - rt-st Aleocharinae sp. C 10 - u Gyrohypnus angustatus 1 - rt-st Aleocharinae sp. C 10 - u Gyrohypnus angustatus 1 - rt-sf Aleocharinae sp. C 10 - u Staphylininae sp. C 10 - u Carpelimus ?rivularis 6 - ob-d Philonthus sp. B 1 - u T-st Stenus sp. B 1 - rt-st Aleocharinae sp. C 1 - rt-st Aleocharinae sp. C 1 - rt-st Anotylus nitidulus 9 - rt Xantholinus long iventris 1 - rt-sf Aleocharinae sp. C 2 - rt-sf Quedius sp. C 1 - rt-st Anotylus nitidulus 9 - rt Xantholinus long iventris 1 - rt-sf Aleocharinae sp. C 2 - rt-sf Quedius sp. C 1 - rt-st Aleocharinae sp. C 2 - rt-sf Aleocharinae sp. C 1 - rt-sf Aleocharinae sp. C 1 - rt-sf Aleocharinae sp. C 2 - rt-sf Aleocharinae sp. C 1 - rt-sf Aleocharinae sp. C 2 - rt-sf Aleocharinae sp. D 1 - rt-sf Aleocharinae sp. C 1 - rt-sf Aleocharinae sp. D 1 -	-	.elvi: S				
Notes: Entered 12/9/00. Flot 1 cm in jar or fine woody debris, sorted Steve Rowland, part checked HK 11/4/00 (almost no useful remains had been le ft in). Recorded in flot and on filter paper. Nothing significant in residue tube. No record of preservation.Carpelimus pusillus group1 - vrtRecorded in flot and on filter paper. Nothing significant in residue tube. No record of preservation.Anotylus ?teracarinatus1 - vrtLathridius minutus group19 - rd-stLithocharis ochnacea1 - vrt-stLathridius minutus group19 - rd-stLithocharis ochnacea1 - vrt-stCercyon analis14 - rt-sfLeptacinus pusillus1 - vrt-stAlcoch arinae sp. C10 - uGyrohypnus angustatus1 - vrt-stAlcoch arinae sp. C10 - uGyrohypnus angustatus1 - vrt-stHelophorus sp.7 - oa-wPhilon thus sp. A1 - vrt-stCercyon haemorrhoidalis5 - vrf-sfQuedius sp.1 - vuStenus Sp. A5 - uStaphylininae sp.1 - uNeobisnius sp.5 - vuStaphylininae sp.1 - vuAnotylus rugosus4 - rt-sfAleocharinae sp. A1 - vuAnotylus rugosus4 - rt-sfAleocharinae sp. A1 - vuArrox scaber4 - rt-sfAleocharinae sp. D1 - vuEnicmus sp.4 - rt-sfAleocharinae sp. D1 - vuCarpelimus fuliginosus3 - rt-stAleocharinae sp. D1 - vuCarpelimus fuliginosus3 - rt-sfPtilinus spectinicornis1 - vr-sfCorticaria sp. B3 - rt-sfPtilinus sp.1	weight: 3.00 E: 0.00 F: 0.00					
debris, sorted Steve Rowland, part checked HK 11/4/00 (almost no u seful remains had been left in). Recorded in flot and on filter paper. Nothing significant in residue tube. No record of preservation. Lathridius minutus group 19 - rd-st Cercyon analis 14 - rt-sf Leptacinus pusillus group 19 - rd-st Lithocharis ochracea 1 - rt-st Stenus sp. B 1 - rt-st Platystethus arenarius 12 - rf Gauropterus fulgidus 1 - rt-st Aleoch arinae sp. C Anotylus ritidulus 9 - rt Xantholinus lon giventris 1 - rt-st Aleotharinae sp. R Anotylus ritidulus 9 - rt Xantholinus lon giventris 1 - rt-st Anotylus ritidulus 9 - rf-sf Quedius sp. Cercyon haemorrhoidalis 5 - rf-sf Quedius sp. Anotylus rugosus 4 - rt Aleocharinae sp. A 1 - u Trox scaber Anotylus rugosus 4 - rt-sf Aleocharinae sp. A Anotylus rugosus 4 - rt-sf Aleocharinae sp. A 1 - u Trox scaber Anotylus rugosus 3 - rt-sf Aphodius granarius 1 - rt-sf Anotylus rugosus or quadristriatus 2 - oa Meligethes sp. 1 - rt-sf Cercyno phagus sp. B 3 - rt-sf Ptilinus sp. 1 - rt-sf Corticaria sp. B Trechus obtusus or quadristriatus 2 - rt-st Megastemum obscurum 2 - rt Aleocharinae sp. C Anotylus rugosus 2 - rt-st Aleotharinae sp. C Anotylus rugosus 1 - rt-sf Aphodius granarius 1 - rt-sf Aphodius granarius 1 - rt-sf Corticaria sp. B Trechus obtusus or quadristriatus 2 - rt-sf Corticaria sp. C Crytop hagus sp. B 3 - rt-sf Corticaria sp. D 1 - rt-sf Aleocharinae sp. A Trechus obtusus or quadristriatus 2 - rt-st Aphodius granarius 1 - rt-sf Aphodius granarius 1 - rt-sf Aphodius granarius 1 - rt-sf Corticaria sp. D Trechus obtusus or quadristriatus 2 - rt-sf Aphodius granarius 1 - rt-sf Aphodius granar	N. 4 F. 4 112/0/00 Fl 41	· · · · · · · · · · · · · · · · · · ·				
Platystethus nitens		-	-			
Recorded in flot and on filter paper. Nothing significant in residue tube. No record of preservation. Lathridius minutus group 19 - rd-st Lethicharis ochracea 1 - rt-st Stenus sp. B Lithocharis ochracea 1 - rt-st Cercyon analis 14 - rt-sf Leptacinus pusillus 1 - rt-st Aleocharinae sp. C Anotylus nitidulus 9 - rt Anotylus nitidulus 1 - rt-st Caryon analis 12 - rf Gauroptens fulgidus 1 - rt-st Aleocharinae sp. C Anotylus nitidulus 9 - rt Xantholinus lon giventris 1 - rt-sf Helophorus sp. 7 - oa-w Philon thus sp. A 1 - u Cercyon haemorrhoidalis 5 - rf-sf Quedius sp. Cercyon haemorrhoidalis 5 - rf-sf Quedius sp. Anotylus riugosus 4 - rt Aleocharinae sp. 1 - u Neobisnius sp. Anotylus riugosus 4 - rt-sf Aleocharinae sp. 1 - u Anotylus riugosus 4 - rt-sf Aleocharinae sp. 1 - u Lithocharinae sp. 1 - rt-st Aleocharinae sp. 1 - u Lithocharinae sp. 1 - rt-st Aleocharinae sp. 1 - u Lithocharinae sp. 1 - u Lithocharinae sp. 1 - rt-st Aleocharinae sp. 1 - u Lithocharinae sp. 2 - rt-st Aphodius ganarius 1 - ob-rf Carpelimus fuliginosus 3 - rt-sf Aphodius genarius 1 - ob-rf Carpelimus fuliginosus 3 - rt-sf Cryptop hagus sp. A 1 - rt-sf Cryptop hagus sp. A 1 - rt	· · · · · · · · · · · · · · · · · · ·					
Significant in residue tube. No record of preservation. Correction 19	*					
Lathridius minutus group 19 - rd-st Lithocharis ochaeca 1 - rt-st Cercyon analis 14 - rt-sf Leptacinus pusillus 1 - rt-st Leptacinus pusillus 1 - rt-st Aleocharinae sp. C 10 - u Gyrohypnus angustatus 1 - rt-st Aleocharinae sp. C 10 - u Gyrohypnus angustatus 1 - rt-st Aleocharinae sp. C 10 - u Gyrohypnus angustatus 1 - rt-st Aleocharinae sp. C 10 - u Gyrohypnus angustatus 1 - rt-sf Helophorus sp. 7 - oa-w Philon thus sp. A 1 - u Carpelimus ?rivularis 6 - ob-d Philon thus sp. A 1 - u Cercyon haemorrhoidalis 5 - rf-sf Quedius sp. B 1 - u Staphylininae sp. A 1 - u Neobisnius sp. A 5 - u Staphylininae sp. 1 - u Anobium punctatum 5 - l-sf Aleocharinae sp. A 1 - u Tachinus laticollis or marginellus 1 - u Anobium punctatum 5 - l-sf Aleocharinae sp. A 1 - u Tachinus laticollis or marginellus 1 - u Trox scaber 4 - rt Aleocharinae sp. A 1 - u Trox scaber 4 - rt-sf Aleocharinae sp. A 1 - u Trox scaber 4 - rt-sf Aleocharinae sp. D 1 - u Trox scaber 5 - u Tr-sf Aleocharinae sp. D 1 - u Trox scaber 5 - u Tr-sf Aleocharinae sp. D 1 - u Trox scaber 6 - rt-sf Aleocharinae sp. D 1 - u Trox scaber 1 - v Tr-sf Aleocharinae sp. D 1 - u Tr-sf Anotylus complanatus 3 - rt-sf Aphodius granarius 1 - ob-rf Acritus nigricornis 3 - rt-sf Ptilinus pectinicornis 1 - ob-rf Arotylus complanatus 3 - rt-sf Ptilinus pectinicornis 1 - rt-sf Cryptop hagus sp. B 3 - rt-sf Brachypterus sp. 1 - rd-sf Cryptop hagus sp. B 3 - rt-sf Brachypterus sp. 1 - oa-p Bembidion ?doris 2 - oa-d Cryptop hagus sp. A 1 - rt-sf Ptilinus pectinicornis 1 - rt-sf Crecyon atricapillus 2 - rt Mycetaea hirta 1 - rd-ss Crecyon atricapillus pp. 2 - rt Corticaria sp. D 1 - rt-sf Xylodromus concinnus 2 - rt Square hirta 1 - rt-ss Relagria caesa or sulcatula 2 - rt-st Rhinosimus planirostris 1 - rt-sf Ralgria caesa or sulcatula 2 - rt-st Tenebrio obscurus 1 - rt-sf Ralgria caesa or sulcatula 2 - rt-st Tenebrio obscurus 1 - rt-ss Ralgria caesa or sulcatula 2 - rt-sf Rhinosimus planirostris 1 - I - rt-ss Ralgria caesa or sulcatula 2 - rt-sf Rhinosimus planirostris 1 - I - rt-ss Ralg			-	_		
Lathridius minutus group Cercyon analis 14 - rt-sf Leptacinus pusillus 1 - rt-st Platystethus arenarius 12 - rf Gauroptems fulgidus 1 - rt-st Aleocharinae sp. C Anotylus nitidulus 9 - rt Kantholinus longiventris 1 - rt-st Helophorus sp. 7 - oa-w Philon thus sp. A Philon thus sp. B 1 - u Cercyon haemorrhoidalis 5 - rf-sf Quedius sp. Rouedius sp. A Neobismius sp. 5 - u Staphylininae sp. Anotylus rugosus Anotylus rugosus 4 - rt Aleocharinae sp. A Aleocharinae sp. A Aleocharinae sp. A Anotylus rugosus 4 - rt-sf Aleocharinae sp. A Aleocharinae	significant in residue tube. No reco	ord of preservation.	-			
Cercyon analis	T (1 11 1 1)	10 1 .				
Platystethus arenarius 12 - rf Gauropterus fulgidus 1 - rt-st Aleoch arinae sp. C 10 - u Gyrohypnus angustatus 1 - rt-st Anotylus nitidulus 9 - rt Xantholinus lon giventris 1 - rt-sf Helophorus sp. 7 - oa-w Philonthus sp. A 1 - u Carpelimus ?rivularis 6 - ob-d Philonthus sp. B 1 - u Cercyon haemorrhoidalis 5 - rf-sf Quedius sp. B 1 - u Stenus sp. A 5 - u Staphylininae sp. 1 - u Stenus sp. A 5 - u Tachinus laticollis or marginellus 1 - u Anobium punctatum 5 - l-sf Aleocharinae sp. A 1 - u Tachinus laticollis or marginellus 1 - u Trox scaber 4 - rt-sf Aleocharinae sp. A 1 - u Trox scaber 4 - rt-sf Aleocharinae sp. D 1 - u Trox scaber 4 - rt-sf Aleocharinae sp. D 1 - u Trox scaber 4 - rt-sf Aleocharinae sp. D 1 - u Trox scaber 4 - rt-sf Aleocharinae sp. D 1 - u Trox scaber 5 - v Tr-sf Aleocharinae sp. D 1 - u Trox scaber 5 - v Tr-sf Aleocharinae sp. D 1 - u Trox scaber 5 - v Tr-sf Aleocharinae sp. D 1 - u Trox scaber 5 - v Tr-sf Aleocharinae sp. D 1 - v Tr-sf Carpelimus fuliginosus 3 - v Tr-sf Aleocharinae sp. D 1 - v Tr-sf Carpelimus fuliginosus 3 - v Tr-sf Aphodius granarius 1 - ob-rf Carpelimus fuliginosus 3 - v Tr-sf Pilinus sp. 1 - v Tr-sf Cryptop hagus sp. B 3 - v Tr-sf Brachypterus sp. 1 - v Tr-sf Cryptop hagus sp. B 3 - v Tr-sf Brachypterus sp. 1 - v Tr-sf Cryptop hagus sp. B 3 - v Tr-sf Brachypterus sp. 1 - v Tr-sf Crecyon articapillus 2 - v Tr-sf Orthoperus sp. 1 - v Tr-sf Crecyon articapillus 2 - v Tr-sf Orthoperus sp. D 1 - v Tr-sf Crecyon articapillus 2 - v Tr-st Orthoperus sp. D 1 - v Tr-sf Corticaria sp. C - v Tr-sf Corticaria sp. C - v Tr-sf Corticaria sp. C - v Tr-sf Corticaria sp. D 1 - v Tr-sf Cor						
Aleocharinae sp. C Anotylus nitidulus 9 - rt Anotylus nitidulus 9 - rt Xantholinus longiventris 1 - rt-sf Helophorus sp. Carpelimus ?rivularis 6 - ob-d Philonthus sp. B Philonthus sp. A Philonthus sp. B Philonthus sp. A Pholius sp. B Philonthus sp. A Pholius sp. A Pholius sp. A Pholius sp. A Pholius sp. P Philonthus sp. A Pholius sp. P Philonthus sp. A Philonthus sp. P Philonthus sp. P Philonthus sp. P Philonthus sp. A Pholius sp. A Pholius sp. P Philonthus sp. A Pholius sp. A Pholius sp. P Philonthus sp. P	_					
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Helophorus sp. 7	-					
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Cercyon haemorrhoidalis5-rf-sfQuedius sp.1-uStenus sp. A5-uStaphylininae sp.1-uNeobisnius sp.5-uTachinus laticollis or marginellus1-uAnobium punctatum5-1-sfAleochara sp.1-uAnotylus rugosus4-rtAleocharinae sp. A1-uTrox scaber4-rt-sfAleocharinae sp. D1-uEnicmus sp.4-rt-sfAphodius gmanarius1-ob-rfAcritus nigricornis3-rt-sfAphodius ?prodromus1-ob-rfCarpelimus fuliginosus3-rt-sfPtilinus sp.1-rt-sfAnotylus complanatus3-rt-sfPtilinus sp.1-rt-sfCryptop hagus sp. B3-rt-sfPtinus sp.1-rd-sfCorticaria sp. B3-rt-sfBrachypterus sp.1-oa-pTrechus obtusus or quadristriatus2-oaMeligethes sp.1-rd-sfCercyon atricapillus2-rf-stOrthoperus sp.1-rd-sfCercyon atricapillus2-rt-stOrthoperus sp.1-rt-sfMegastemum obscurum2-rtCorticaria sp. C1-rt-sfOmali				_		
Stenus sp. A5-uStaphylininae sp.1-uNeobisnius sp.5-uTachinus laticollis or marginellus1-uAnobium punctatum5-l-sfAleochara sp.1-uAnotylus rugosus4-rtAleocharinae sp. A1-uTrox scaber4-rt-sfAleocharinae sp. D1-uEnicmus sp.4-rt-sfAphodius granarius1-ob-rfAcritus nigricornis3-rt-stAphodius ?prodromus1-ob-rfCarpelimus fuliginosus3-rt-stAphodius ?prodromus1-ob-rfCarpelimus fuliginosus3-rt-sfPtilnus sp.1-rt-sfAnotylus complanatus3-rt-sfPtilnus sp.1-rt-sfCryptophagus sp. B3-rt-sfPtinus sp.1-rd-sfCorticaria sp. B3-rt-sfBrachypterus sp.1-rd-sfCercyon atricapillus2-oa-dCryptophagus sp. A1-rd-sfCercyon atricapillus2-rf-stOrthoperus sp.1-rt-sfMegastemum obscurum2-rtCorticaria sp. C1-rt-sfNylodromus concinnus2-rtCorticaria sp. D1-rt-sfLept				_		
Neobisnius sp.5-uTachinus laticollis or marginellus1-uAnobium punctatum5-l-sfAleocham sp.1-uAnotylus rugosus4-rtAleochaminae sp. A1-uTrox scaber4-rt-sfAleocharinae sp. D1-uEnicmus sp.4-rt-sfAphodius granarius1-ob-rfAcritus nigricornis3-rt-stAphodius ?prodromus1-ob-rfCarpelimus fuliginosus3-rt-stAphodius ?prodromus1-ob-rfCarpelimus fuliginosus3-rt-stPtilinus sp.1-rt-sfAnotylus complanatus3-rt-sfPtilinus sp.1-rd-sfCryptophagus sp. B3-rt-sfPtinus sp.1-rd-sfCorticaria sp. B3-rt-sfBrachypterus sp.1-rd-sfTrechus obtusus or quadristriatus2-oa-dCryptophagus sp. A1-rd-sfCercyon atricapillus2-rf-stOrthoperus sp.1-rd-sfMegastemum obscurum2-rtMycetaea hirta1-rt-sfPtenidium sp.2-rtCorticaria sp. D1-rt-sfNylodromus concinnus2-rt-stBlaps sp.1-rt-ss <td>_</td> <td></td> <td></td> <td></td> <td></td> <td></td>	_					
Anobium punctatum Anotylus rugosus 4 - rt Aleocharinae sp. A Aleocharinae sp. A I - u Trox scaber Acritus nigricornis 3 - rt-st Aphodius granarius I - ob-rf Acritus nigricornis 3 - rt-st Aphodius granarius I - ob-rf Acritus nigricornis Carpelimus fuliginosus 3 - rt-st Aphodius sp. Anotylus complanatus 3 - rt-sf Anotylus complanatus Cryptop hagus sp. B Anotylus sp. B Anotylus sp. B Anotylus sp. B Anotylus or quadristriatus Cryptop hagus sp. B Anotylus or quadristriatus Anotylus sp. B Anotylus sp. A Anotylus sp. B Anotylus sp. A Anotylus sp. A Anotylus sp. A Anotylus complanatus Anotylus complanatus Anotylus complanatus Aleocharinae sp. B Aleocharinae sp. C Cryptop						
Anotylus rugosus 4 - rt Aleocharinae sp. A 1 - u Trox scaber 4 - rt-sf Aleocharinae sp. D 1 - u Enicmus sp. 4 - rt-sf Aphodius granarius 1 - ob-rf Acritus nigricornis 3 - rt-st Aphodius ?prodromus 1 - ob-rf Carpelimus fuliginosus 3 - st Clambus sp. 1 - rt-sf Anotylus complanatus 3 - rt-sf Ptilinus pectinicornis 1 - l-sf Cryptop hagus sp. B 3 - rt-sf Ptilinus pectinicornis 1 - l-sf Corticaria sp. B 3 - rt-sf Brachypterus sp. 1 - oa-p Trechus obtusus or quadristriatus 2 - oa Meligethes sp. 1 - oa-p Bembidion ?doris 2 - oa-d Cryptop hagus sp. A 1 - rd-sf Cercyon atricapillus 2 - rf-st Orthoperus sp. 1 - rt-sf Megastemum obscurum 2 - rt Mycetaea hirta 1 - rd-ss Ptenidium sp. 2 - rt Corticaria sp. C 1 - rt-sf Xylodromus concinnus 2 - rt-st Blaps sp. 1 - rt-sf Xylodromus concinnus 2 - rt-st Blaps sp. 1 - rt-sf Eagaria caesa or sulcatula 2 - rt-sf Rhinosimus planirostris 1 - rt-ss Falagria caesa or sulcatula 2 - rt-sf Rhinosimus planirostris 1 - rt-st Monotoma sp. B 2 - u Anthicus formicarius 1 - rt-st Monotoma sp. 2 - rt-sf Gracilia minuta 1 - rt-st	-					
Trox scaber 4 - rt-sf Aleocharinae sp. D 1 - u Enicmus sp. 4 - rt-sf Aphodius granarius 1 - ob-rf Acritus nigricornis 3 - rt-st Aphodius ?prodromus 1 - ob-rf Carpelimus fuliginosus 3 - st Clambus sp. 1 - rt-sf Anotylus complanatus 3 - rt-sf Ptilinus pectinicornis 1 - l-sf Cryptop hagus sp. B 3 - rd-sf Ptinus sp. 1 - rd-sf Cortic aria sp. B 3 - rt-sf Brachypterus sp. 1 - oa-p Trechus obtusus or quadristriatus 2 - oa Meligethes sp. 1 - oa-p Bembidion ?doris 2 - oa-d Cryptop hagus sp. A 1 - rd-sf Cercyon atricapillus 2 - rf-st Orthoperus sp. 1 - rt Megastemum obscurum 2 - rt Mycetaea hirta 1 - rd-ss Ptenidium sp. 2 - rt Cortic aria sp. C 1 - rt-sf Omalium sp. 2 - rt-sf Blaps sp. 1 - rt-sf Xylodromus concinnus 2 - rt-st Blaps sp. 1 - rt-sf Eptacinus intermedius 2 - rt-sf Rhinosimus planirostris 1 - l Aleocharinae sp. B 2 - rt-sf Rhinosimus planirostris 1 - rt-st Monotoma sp. C - rt-sf Rhinosimus planirostris 1 - rt-st Monotoma sp. C - rt-sf Rhinosimus planirostris 1 - rt-st Monotoma sp. C - rt-sf Rhinosimus planirostris 1 - rt-st Monotoma sp. C - rt-sf Rhinosimus planirostris 1 - rt-st Monotoma sp. C - rt-sf Rhinosimus planirostris 1 - rt-st Monotoma sp. C - rt-sf Rhinosimus planirostris 1 - rt-st			-			
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Acritus nigricornis 3 - rt-st Aphodius ?prodromus 1 - ob-rf Carpelimus fuliginosus 3 - st Clambus sp. 1 - rt-sf Anotylus complanatus 3 - rt-sf Ptilinus pectinicornis 1 - l-sf Cryptop hagus sp. B 3 - rd-sf Ptilinus sp. 1 - rd-sf Cortic aria sp. B 3 - rt-sf Brachypterus sp. 1 - oa-p Trechus obtusus or quadristriatus 2 - oa Meligethes sp. 1 - oa-p Bembidion ?doris 2 - oa-d Cryptop hagus sp. A 1 - rd-sf Cercyon atricapillus 2 - rf-st Orthoperus sp. 1 - rt Mycetaea hirta 1 - rd-ss Ptenidium sp. 2 - rt Cortic aria sp. C 1 - rt-sf Omalium sp. 2 - rt Cortic aria sp. C 1 - rt-sf Xylodromus concinnus 2 - rt-st Blaps sp. 1 - rt-sf Slaps sp. Leptacinus intermedius 2 - rt-st Tenebrio obscurus 1 - rt-ss Falagria caesa or sulcatula 2 - rt-sf Rhinosimus planirostris 1 - l Aleoch arinae sp. B 2 - u Anthicus formicarius 1 - rt-st Monotoma sp. C 1 - rt-st Gracilia minuta 1 - rt-st Monotoma sp. C 1 - rt-st Gracilia minuta 1 - rt-st Cortic ariae sp. C I - rt-st Tenebrio obscurus I - rt-st Cortic ariae sp. C I - rt-st Gracilia minuta I - rt-st I - I - I - I - I - I - I - I - I - I						
Carpelimus fuliginosus3-stClambus sp.1-rt-sfAnotylus complanatus3-rt-sfPtilinus pectinicornis1-l-sfCryptop hagus sp. B3-rt-sfPtinus sp.1-rd-sfCortic aria sp. B3-rt-sfBrachypterus sp.1-oa-pTrechus obtusus or quadristriatus2-oaMeligethes sp.1-oa-pBembidion ?doris2-oa-dCryptop hagus sp. A1-rd-sfCercyon atricapillus2-rf-stOrthoperus sp.1-rtMegastemum obscurum2-rtMycetaea hirta1-rt-ssPtenidium sp.2-rtCortic aria sp. C1-rt-sfOmalium sp.2-rtCortic aria sp. D1-rt-sfXylodromus concinnus2-rt-stBlaps sp.1-rt-ssLeptacinus intermedius2-rt-stTenebrio obscurus1-rt-ssFalagria caesa or sulcatula2-rt-sfRhinosimus planirostris1-rt-stAleoch arinae sp. B2-uAnthicus formicarius1-rt-stMonotoma sp.2-rt-sfGracilia minuta1-rt-st	•					
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Cryptop hagus sp. B 3 - rd-sf Ptinus sp. 1 - rd-sf Cortic aria sp. B 3 - rt-sf Brachypterus sp. 1 - oa-p Trechus obtusus or quadristriatus 2 - oa Meligethes sp. 1 - oa-p Bembidion ?doris 2 - oa-d Cryptop hagus sp. A 1 - rd-sf Cercyon atricapillus 2 - rf-st Orthoperus sp. 1 - rt Megastemum obscurum 2 - rt Mycetaea hirta 1 - rd-ss Ptenidium sp. 2 - rt Cortic aria sp. C 1 - rt-sf Omalium sp. 2 - rt Cortic aria sp. C 1 - rt-sf Xylodromus concinnus 2 - rt-st Blaps sp. 1 - rt-sf Xylodromus concinnus 2 - rt-st Tenebrio obscurus 1 - rt-ss Falagria caesa or sulcatula 2 - rt-sf Rhinosimus planirostris 1 - 1 Aleoch arinae sp. B 2 - u Anthicus formicarius 1 - rt-st Monotoma sp. 2 - rt-sf Gracilia minuta 1 - l						
Cortic aria sp. B Trechus obtusus or quadristriatus 2 - oa Meligethes sp. 1 - oa-p Meligethes sp. 1 - oa-p Meligethes sp. Cercyon atricapillus 2 - oa-d Cryptop hagus sp. A 1 - rd-sf Cercyon atricapillus 2 - rf-st Megastemum obscurum 2 - rt Mycetaea hirta 1 - rd-ss Ptenidium sp. 2 - rt Cortic aria sp. C Cortic aria sp. C 1 - rt-sf Cortic aria sp. C 1 - rt-sf Xylodromus concinnus 2 - rt-st Blaps sp. Leptacinus intermedius 2 - rt-st Tenebrio obscurus Falagria caesa or sulcatula 2 - rt-sf Rhinosimus planirostris 1 - rt-st Monotoma sp. 2 - rt-sf Gracilia minuta 1 - rt-st			-			
Trechus obtusus or quadristriatus 2 - oa Meligethes sp. 1 - oa-p Bembidion ?doris 2 - oa-d Cryptop hagus sp. A 1 - rd-sf Cercyon atricapillus 2 - rf-st Orthoperus sp. 1 - rt Megastemum obscurum 2 - rt Mycetaea hirta 1 - rd-ss Ptenidium sp. 2 - rt Corticaria sp. C 1 - rt-sf Omalium sp. 2 - rt Corticaria sp. D 1 - rt-sf Xylodromus concinnus 2 - rt-st Blaps sp. 1 - rt-ss Leptacinus intermedius 2 - rt-st Tenebrio obscurus 1 - rt-ss Falagria caesa or sulcatula 2 - rt-sf Rhinosimus planirostris 1 - 1 Aleoch arinae sp. B 2 - u Anthicus formicarius 1 - rt-st Monotoma sp. 2 - rt-sf Gracilia minuta 1 - l			-			
Bembidio n ?doris2 - oa-dCryptop hagus sp. A1 - rd-sfCercyon atricapillus2 - rf-stOrthoperus sp.1 - rtMegastemum obscurum2 - rtMycetaea hirta1 - rd-ssPtenidium sp.2 - rtCortic aria sp. C1 - rt-sfOmalium sp.2 - rtCortic aria sp. D1 - rt-sfXylodromus concinnus2 - rt-stBlaps sp.1 - rt-ssLeptacinus intermedius2 - rt-stTenebrio obscums1 - rt-ssFalagria caesa or sulcatula2 - rt-sfRhinosimus planirostris1 - lAleoch arinae sp. B2 - uAnthicus formicarius1 - rt-stMonotoma sp.2 - rt-sfGracilia minuta1 - l	-					•
Cercyon atricapillus2 - rf-stOrthoperus sp.1 - rtMegastemum obscurum2 - rtMycetaea hirta1 - rd-ssPtenidium sp.2 - rtCorticaria sp. C1 - rt-sfOmalium sp.2 - rtCorticaria sp. D1 - rt-sfXylodromus concinnus2 - rt-stBlaps sp.1 - rt-ssLeptacinus intermedius2 - rt-stTenebrio obscurus1 - rt-ssFalagria caesa or sulcatula2 - rt-sfRhinosimus planirostris1 - 1Aleoch arinae sp. B2 - uAnthicus formicarius1 - rt-stMonotoma sp.2 - rt-sfGracilia minuta1 - 1	_					•
Megastemum obscurum2 - rtMycetaea hirta1 - rd-ssPtenidium sp.2 - rtCortic aria sp. C1 - rt-sfOmalium sp.2 - rtCortic aria sp. D1 - rt-sfXylodromus concinnus2 - rt-stBlaps sp.1 - rt-ssLeptacinus intermedius2 - rt-stTenebrio obscurus1 - rt-ssFalagria caesa or sulcatula2 - rt-sfRhinosimus planirostris1 - lAleoch arinae sp. B2 - uAnthicus formicarius1 - rt-stMonotoma sp.2 - rt-sfGracilia minuta1 - l						
Ptenidium sp.2 - rtCorticaria sp. C1 - rt-sfOmalium sp.2 - rtCorticaria sp. D1 - rt-sfXylodromus concinnus2 - rt-stBlaps sp.1 - rt-ssLeptacinus intermedius2 - rt-stTenebrio obscurus1 - rt-ssFalagria caesa or sulcatula2 - rt-sfRhinosimus planirostris1 - lAleoch arinae sp. B2 - uAnthicus formicarius1 - rt-stMonotoma sp.2 - rt-sfGracilia minuta1 - l	-					
Omalium sp. 2 - rt Corticaria sp. D 1 - rt-sf Xylodromus concinnus 2 - rt-st Blaps sp. 1 - rt-ss Leptacinus intermedius 2 - rt-st Tenebrio obscurus 1 - rt-ss Falagria caesa or sulcatula 2 - rt-sf Rhinosimus planirostris 1 - 1 Aleoch arinae sp. B 2 - u Anthicus formicarius 1 - rt-st Monotoma sp. 2 - rt-sf Gracilia minuta 1 - 1			-			
Xylodromus concinnus 2 - rt-st Blaps sp. 1 - rt-ss Leptacinus intermedius 2 - rt-st Tenebrio obscurus 1 - rt-ss Falagria caesa or sulcatula 2 - rt-sf Rhinosimus planirostris 1 - 1 Aleoch arinae sp. B 2 - u Anthicus formicarius 1 - rt-st Monotoma sp. 2 - rt-sf Gracilia minuta 1 - 1	-					
Leptacinus intermedius 2 - rt-st Tenebrio obscums 1 - rt-ss Falagria caesa or sulcatula 2 - rt-sf Rhinosimus planirostris 1 - l Aleoch arinae sp. B 2 - u Anthicus formicarius 1 - rt-st Monotoma sp. 2 - rt-sf Gracilia minuta 1 - l	-		•		-	
Falagria caesa or sulcatula 2 - rt-sf Rhinosimus planirostris 1 - 1 Aleoch arinae sp. B 2 - u Anthicus formicarius 1 - rt-st Monotoma sp. 2 - rt-sf Gracilia minuta 1 - 1					-	
Aleocharinae sp. B 2 - u Anthicus formicarius 1 - rt-st Monotoma sp. 2 - rt-sf Gracilia minuta 1 - 1	-				-	
Monotoma sp. 2 - rt-sf Gracilia minuta 1 - 1			-	-	-	_
				_	-	
Corticaria sp. A 2 - rt-sf Phaedon sp. 1 - oa-p				_	-	
	Cortic aria sp. A	2 - rt-sf	rnaedon sp.	I	-	oa-p

Longitarsus sp.	1	-	oa-p	Orthoperus sp.	1	-	rt
Chaetocnema arida group	1	-	oa-p	Corticaria sp.	1	-	rt-sf
Psylliodes sp.	1	-	oa-p	?Tenebrio obscurus	1	-	rt-ss
Halticinae sp.	1	-	oa-p	Anthicus formicarius	1	-	rt-st
Sitona hispidulus	1	-	oa-p	Chrysom elinae sp. A	1	-	oa-p
Ceutorhynchus sp.	1	-	oa-p	Chrysom elinae sp. B	1	-	oa-p
Curculionidae sp.	1	-	oa	Halticinae sp.	1	-	oa-p
•				Curculionidae sp.	1	-	oa
*Diptera sp. (puparium)	15	m	u				
*Acarina sp.	15	m	u	*Diptera sp. (puparium)	15	m	u
*Coleoptera sp. (larva)	6	s	u	*Acarina sp.	15	m	u
*Hymenoptera sp.	6	S	u	*Diptera sp. (adult)	6	s	u
*Chalcidoidea sp.	3	-	u	*Insecta sp. (larva)	6	s	u
*Proctotrupoidea sp.	2	-	u	*Insecta sp. (pupa)	6	s	u
*Diptera sp. (adult)	1	-	u				
*Diptera sp. (pup a)	1	-	u	Context: 2178 Sample: 292/T1 Rel	M:	D	
*Pulex irritans	1	-	SS	Weight: 3.00 E: 2.50 F: 2.50			

Context: 2178 Sample: 292/T ReM: A Weight: 1.00 E: 0.00 F: 0.00

Aleocharinae sp.

Cryptophagus sp.

Atomaria sp.

Notes: Moderate-sized flot, mainly plant material; many seeds

6 s u

1 -

rd-sf

rd

Lathridius minutus group 6 S rd-st Xylodromus concinnus 2 rt-st Platystethus arenarius 2 rf Trox scaber 2 rt-sf Cimicidae sp. 1 oa-p Hemip tera sp. A Hemip tera sp. B Hydroporinae sp. 1 oa-w Dytiscidae sp. 1 oa-w Helophorus sp. A 1 oa-w Helophorus sp. B 1 Cercyon analis rt-sf Ochthebius sp. 1 oa-w Limnebius sp. 1 oa-w Lesteva longoelytrata oa-d Platystethus nitens oa-d Anotylus nitidulus rt Anotylus sculpturatus group rt Stenus sp. A 1 u Stenus sp. B Xantholinus linearis or longiventris 1 rt-sf Neobisnius sp. Staphylinidae sp. 1 Aphodius sp. 1 ob-rf Clambus sp. 1 rt-sf Anobium punctatum 1-sf Rhizophagus sp. 1 u

Notes: Entered 12/9/00. Flot 1 cm in jar, sorted Steve Rowland, checked HK 11/4/00. Recorded in flot and on filter paper. No residue tube. Remains often very fragmentary (hence numerous high level identifications). E 1.5-3.5, mode 2.5 D; F 1.5-5.0, mode 2.5 W. Sorted scraps returned to flot.

Lathridius minutus group 13 - rd-st Helophorus sp. 11 oa-w Aleoch arinae sp. G 8 u Carpelimus fuliginosus st Aphodius ?prodromus 7 ob-rf Anobium punctatum 6 1-sf Phyllotreta nemorum group 6 oa-p Cercyon analis 5 rt-sf Anotylus nitidulus 5 rt Long itarsus sp. A 5 oa-p 4 -Acritus nigricornis rt-st Ochthebius ?minimus 4 oa-w Xylodromus concinnus 4 rt-st Philon thus sp. C 4 Falagria caesa or sulcatula 4 rt-sf Trox scaber 4 rt-sf 4 -Aphodius granarius ob-rf Atomaria sp. 4 rd Carpelimus?bilineatus 3 rt-sf Platystethus arenarius 3 rf 3 -Anotylus rugosus rt 3 _ Stenus sp. A 11 Philon thus sp. B 3 u 3 oa-p Chaetocnema concinna Hydroporinae sp. 2 oa-w 2 -Helophorus aquaticus or grandis oa-w 2 -Limn ebius sp. A oa-w Limnebius sp. B 2 oa-w Catops sp. u

	_			Philon thus sp. D	1	_	u
Omalium caesum or italicum	2	-	rt-sf	Tach yporus sp. A	1	_	u
Platystethus ?degener	2 2		oa-d	Tach yporus sp. B	1	-	u
Platystethus nitens		-	oa-d	Aleoch arinae sp. C	1	-	
Anotylus complanatus	2	-	rt-sf	Aleoch arinae sp. C Aleoch arinae sp. D	1	-	u
Leptacinus pusillus	2	-	rt-st	•			u
Gyrohypnus fracticornis	2	-	rt-st	Aleoch arinae sp. E	1	-	u
Philon thus sp. E	2	-	u	Aleoch arinae sp. F	1	-	u
Quedius boops group	2	-	u	Aleoch arinae sp. H	1	-	u
Aleoch arinae sp. A	2	-	u	Aphodius sp. A	1	-	ob-rf
Aleoch arinae sp. B	2	-	u	Aphodius sp. B	1	-	ob-rf
Meligethes sp.	2	-	oa-p	Oxyomus sylvestris	1	-	rt-sf
Omosita discoidea	2	-	rt-sf	Lyctus linearis	1	-	l-sf
Cryptophagus sp.	2	-	rd-sf	Monoto ma longicollis	1	-	rt-st
Corticarina or Cortinicara sp.	2	-	rt	Ephistemus globulus	1	-	rd-sf
Cisidae sp.	2	-	1	Orthoperus sp.	1	-	rt
Heterogaster urticae	1	-	oa-p	Coccinellidae sp.	1	-	oa-p
Anthocoris sp.	1	-	oa-p	Enicmus sp.	1	-	rt-sf
Ulopa reticulata	1	-	oa-p-m	Cortic aria sp. A	1	-	rt-sf
Delphacidae sp.	1	-	oa-p	Cortic aria sp. B	1	-	rt-sf
Auchenorhyncha sp.	1	-	oa-p	Aglenus brunneus	1	-	rt-ss
Elaphrus riparius	1	-	oa-d	Blaps sp.	1	-	rt-ss
Dyschinus globosus	1	-	oa	Anthicus floralis or formicarius	1	-	rt-st
Clivina fossor	1	-	oa	Gracilia minuta	1	-	1
Trechus obtusus or quadristriatus	1	-	oa	Pogonocherus hispidulus	1	-	1
Bembidion lampros	1	-	oa	Cerambycidae sp.	1	-	1
Bembidion guttula or mannerheimi	1	_	oa	Gastrophysa viridula	1	-	oa-p
Bembidion sp.	1	_	oa	Chrysomelinae sp.	1	-	oa-p
Pterostichus melanarius	1	_	ob	Long itarsus sp. B	1	-	oa-p
Agonum dorsale	1	_	oa	Altica sp.	1	-	oa-p
Carabidae sp.	1	_	ob	?Psylliodes sp.	1	_	oa-p
Agabus or Ilybius sp.	1	_	oa-w	Apion (Oxystoma) sp.	1	_	oa-p
?Rhantus sp.	1	_	oa-w	Sitona sp.	1	_	oa-p
Helophorus ?grandis	1	_	oa-w	Ceutorhynchus ?contractus	1	_	oa-p
Cercyon haemorrhoidalis	1	_	rf-sf	Ceutorhynchus sp.	1	_	oa-p
Cryptopleurum minutum	1	_	rf-st	Ceuthorhynchinae sp.	1	_	oa-p
Hydrophilinae sp.	1	_	oa-w	Curculionidae sp. A	1	_	oa
Gnathoneus sp.	1	_		Curcu lionidae sp. B	1	_	oa
Ochthebius sp.	1		oa-w	Hylesinus oleiperda		_	
Acrotrichis sp.	1	-	rt	Try results every evan	•		
Olophrum ?piceum	1	-	oa	*Diptera sp. (puparium)	50	e	u
Lesteva ?longoelytrata	1	-	oa-d	*Acarina sp.	50		u
Omalium ?rivulare	1	-	rt-sf	*Diptera sp. (adult)		m	
				*Diptera sp. (addit)		m	
Omaliinae sp.	1	-	rt	*Oligochaeta sp. (egg capsule)		S	
Carpelimus pusillus group	1	-	u	*Coleoptera sp. (larva)			u
Carpelimus sp.	1	-	u		6	S	u
Anotylus sculpturatus group	1	-	rt	*Hymenoptera Parasitica sp.	6 4	S	u
Oxytelus sculptus	1	-	rt-st	*Aphidoidea sp.		-	u
Stenus sp. B	1	-	u	*Cladocera sp. F (ephippium)	2	-	oa-w
Stenus sp. C	1	-	u	*Lepidop tera sp. (pupa)	2	-	u
Stenus sp. D	1	-	u	*Formicidae sp.	2	-	u
Gyrohypnus angustatus	1	-	rt-st	*Cladocera sp. L (ephippium)	1	-	oa-w
Xantholinus lon giventris	1	-	rt-sf	*Dermaptera sp.	1	-	u
Neobisnius sp.	1	-	u	*Bibionidae sp.	1	-	u
Philon thus sp. A	1	-	u	*Melophagus ovinus (puparium)	1	-	u

*Siphonaptera sp.	1 -	u	Context: 2191 Sample: 311/T ReM	[: A	L	
			Weight: 1.00 E: 0.00 F: 0.00			
Context: 2189 Sample: 296/T Re	M: A		N			1
Weight: 2.00 E: 0.00 F: 0.00			Notes: Medium-sized flot, plant deb	ris	, ma	any seeds
N (C) 1 (11 () 1 ()			Anotylus nitidulus	6	S	rt
Notes: Some plant debris and seed	s, many		Aleocharinae sp.	6	S	u
invertebrates			Corticaria sp.	2	-	rt-sf
A11	1.5		Hemiptera sp.	1	-	u
Aleocharinae sp.	15 m		Dyschinus sp.	1	-	oa
Hemiptera sp.	6 s	u	Bemb idion sp. A	1	-	oa oa
Helophorus sp.	6 s	oa-w	Bemb idion sp. A Bemb idion sp. B	1	-	oa oa
Cercyon analis	6 s	rt-sf	Bemb idion sp. C	1	-	oa oa
Lathridius minutus group	6 s	rd-st	-	1	-	oa ob
Anotylus nitidulus	2 -	rt	Carabid ae sp. A Carabid ae sp. B	1	-	ob
Aphodius sp.	2 -	ob-rf	Carabidae sp. C	1	-	ob
Anobium punctatum	2 -	l-sf	-	1	-	ob
Cryptophagus sp.	2 -	rd-sf	Carabidae sp. D			
Corticarina sp.	2 -	rt	Hydroporinae sp.	1	-	oa-w
Trechus micros	1 -	u	Dytiscidae sp.	1	-	oa-w
Bembidion sp.	1 -	oa	Helophorus sp. A	1	-	oa-w
?Agonum sp.	1 -	oa	Helophorus sp. B	1	-	oa-w
Hydroponnae sp.	1 -	oa-w	Helophorus sp. R	-	-	oa
Dytiscidae sp.	1 -	oa-w	Cercyon sp.	1	-	u
?Georissus crenulatus	1 -	oa-w	Megastemum obscurum	1	-	rt
Helophorus sp. B	1 -	oa-w	Ochthebius sp.	1	-	oa-w
Megastemum obscurum	1 -	rt	Omalium sp.	1	-	rt
Acritus nigricornis	1 -	rt-st	Xylodromus concinnus	1	-	rt-st
Ochthebius sp.	1 -	oa-w	Carpelimus sp.	1	-	u
Omalium sp.	1 -	rt	Platystethus arenarius	1	-	rf
Platystethus cornutus group	1 -	oa-d	Platystethus cornutus group	1	-	oa-d
Anotylus rugosus	1 -	rt	Anotylus rugosus	1	-	rt
Anotylus sculpturatus group	1 -	rt	Anotylus tetracarinatus	1	-	rt
Oxytelus sculptus	1 -	rt-st	Stenus sp. A	1	-	u
Lithochans sp.	1 -	rt	Stenus sp. B	1	-	u
Leptacinus sp.	1 -	rt-st	?Leptacinus sp.	1	-	rt-st
Philonthus sp.	1 -	u	Gyrohypnus sp.	1	-	rt
?Gabrius sp.	1 -	rt	Xantholinus linearis or longiventris		-	rt-sf
Tachyporus sp.	1 -	u	Tachyporus sp.	1	-	u
Falagria sp.	1 -	rt-sf	Falagria sp.	1	-	rt-sf
Trox scaber	1 -	rt-sf	Staphylinidae sp.	1	-	u
Oxyomus sylvestris	1 -	rt-sf	Trox scaber	1	-	rt-sf
Oulimnius sp.	1 -	oa-w	Aphodius granarius	1	-	ob-rf
Elateridae sp.	1 -	ob	Aphodius sp.	1	-	ob-rf
Atomaria sp.	1 -	rd	Oulimnius sp.	1	-	oa-w
Corticaria sp.	1 -	rt-sf	Anobium punctatum	1	-	l-sf
Apion sp.	1 -	oa-p	Ptinus sp.	1	-	rd-sf
Ceuthorhynchinae sp.	1 -	oa-p	Atomaria sp.	1	-	rd
			Lathridius minutus group	1	-	rd-st
*Diptera sp. (larva)	15 m		Anthicus formicarius	1	-	rt-st
*Acarina sp.	15 m	u	Phyllodecta sp.	1	-	oa-p
*Diptera sp. (puparium)	6 s	u	Chaetocnema concinna	1	-	oa-p
*Coccoidea sp.	1 -	u	Halticinae sp.	1	-	oa-p
*Coleop tera sp. (larva)	1 -	u	Apion sp.	1	-	oa-p
*Aranae sp.	1 -	u	Sitona sp. A	1	-	oa-p

Sitona sp. B	1 - oa-p	Carpelimus sp.	1 - u
Curculionidae sp.	1 - oa	Anotylus rugosus	1 - rt
Coleoptera sp.	1 - u	Gyrohypnus sp.	1 - rt
		Falagria sp.	1 - rt-sf
*Acarina sp.	15 m u	Aphodius sp. A	1 - ob-rf
*Diptera sp. (puparium)	6 s u	Aphodius sp. B	1 - ob-rf
*Siphonaptera sp.	1 - u	Omosita discoidea	1 - rt-sf
*Opiliones sp.	1 - u	Cryptophagus sp.	1 - rd-sf
		Longitarsus sp.	1 - oa-p
		Halticinae sp.	1 - oa-p
Context: 3069 Sample: 160/T Re	eM: A	Ceutorhynchus sp.	1 - oa-p
Weight: 2.00 E: 0.00 F: 0.00			
		*Diptera sp. (larva)	15 m u
Notes: Medium-sized washover, n	nainly charcoal,	*Acarina sp.	15 m u
some sand		*Diptera sp. (puparium)	6 s u
		*?Louse s.l. sp.	2 - u
*null	0 - u	*Diptera sp. (adult)	2 - u
		*Pulex irritans	2 - ss
		*Muscidae sp. (puparium)	1 - u
Context: 3077 Sample: 156/T Re	eM: A	*Coleoptera sp. (larva)	1 - u
Weight: 1.00 E: 0.00 F: 0.00		*Aranae sp.	1 - u
Notes: Small washover, mainly pl	ant debris and fine		
charcoal.		Context: 9271 Sample: 271/T1	ReM: RS
		Weight: 3.00 E: 2.50 F: 2.50	
*Oligochaeta sp. (egg capsule)	6 s u		
*Eristalini sp. (larva)		N	
Liistaiiii sp. (iai va)	6 s w	Notes: Entered 14/9/00. Flot ne	any icm in jar, sorted
Eristanni sp. (iai va)	o s w	Steve Rowland, part checked H	-
Eristanni sp. (laiva)	o s w		K 4/9/00. Residue tube
		Steve Rowland, part checked H	K 4/9/00. Residue tube led on filter paper. E
Context: 3169 Sample: 184/T Re		Steve Rowland, part checked H contained mainly scraps. Record	K 4/9/00. Residue tube led on filter paper. E
		Steve Rowland, part checked H contained mainly scraps. Record 2.0-3.5, mode 2.5 W; F 2.0-4.0,	K 4/9/00. Residue tube led on filter paper. E
Context: 3169 Sample: 184/T Re Weight: 2.00 E: 0.00 F: 0.00	eM: A	Steve Rowland, part checked H contained mainly scraps. Record 2.0-3.5, mode 2.5 W; F 2.0-4.0, Cercyon analis	K 4/9/00. Residue tube led on filter paper. E mode 2.5 W.
Context: 3169 Sample: 184/T Reweight: 2.00 E: 0.00 F: 0.00 Notes: Large washover; mostly ch	eM: A	Steve Rowland, part checked H contained mainly scraps. Record 2.0-3.5, mode 2.5 W; F 2.0-4.0,	K 4/9/00. Residue tube led on filter paper. E mode 2.5 W.
Context: 3169 Sample: 184/T Re Weight: 2.00 E: 0.00 F: 0.00	eM: A	Steve Rowland, part checked H contained mainly scraps. Record 2.0-3.5, mode 2.5 W; F 2.0-4.0, Cercyon analis Carpelimus?bilineatus	K 4/9/00. Residue tube led on filter paper. E mode 2.5 W. 6 s rt-sf 6 s rt-sf
Context: 3169 Sample: 184/T Reweight: 2.00 E: 0.00 F: 0.00 Notes: Large washover; mostly chambucus seeds.	eM: A	Steve Rowland, part checked H contained mainly scraps. Record 2.0-3.5, mode 2.5 W; F 2.0-4.0, Cercyon analis Carpelimus?bilineatus Lathridius minutus group Trox scaber	K 4/9/00. Residue tube led on filter paper. E mode 2.5 W. 6 s rt-sf 6 s rt-sf 6 s rd-st
Context: 3169 Sample: 184/T Reweight: 2.00 E: 0.00 F: 0.00 Notes: Large washover; mostly chambucus seeds. *Oligochaeta sp. (egg capsule)	eM: A narcoal, some	Steve Rowland, part checked H contained mainly scraps. Record 2.0-3.5, mode 2.5 W; F 2.0-4.0, Cercyon analis Carpelimus?bilineatus Lathridius minutus group Trox scaber Acritus nigricornis	K 4/9/00. Residue tube led on filter paper. E mode 2.5 W. 6 s rt-sf 6 s rt-sf 6 s rd-st 3 - rt-sf
Context: 3169 Sample: 184/T Reweight: 2.00 E: 0.00 F: 0.00 Notes: Large washover; mostly ches Sambucus seeds. *Oligochaeta sp. (egg capsule) *Trichoptera sp. (case)	eM: A arcoal, some 1 - u 1 - oa-w	Steve Rowland, part checked H contain ed main ly scraps. R ecord 2.0-3.5, mode 2.5 W; F 2.0-4.0, Cercyon analis Carpelimus?bilineatus Lathridius minutus group Trox scaber Acritus nigricornis Xylodromus concinnus	K 4/9/00. Residue tube led on filter paper. E mode 2.5 W. 6 s rt-sf 6 s rt-sf 6 s rd-st 3 - rt-sf 2 - rt-st 2 - rt-st
Context: 3169 Sample: 184/T Reweight: 2.00 E: 0.00 F: 0.00 Notes: Large washover; mostly chambucus seeds. *Oligochaeta sp. (egg capsule)	eM: A arcoal, some 1 - u 1 - oa-w	Steve Rowland, part checked H contained mainly scraps. Record 2.0-3.5, mode 2.5 W; F 2.0-4.0, Cercyon analis Carpelimus?bilineatus Lathridius minutus group Trox scaber Acritus nigricornis Xylodromus concinnus Platystethus arenarius	K 4/9/00. Residue tube led on filter paper. E mode 2.5 W. 6 s rt-sf 6 s rt-sf 6 s rd-st 3 - rt-sf 2 - rt-st
Context: 3169 Sample: 184/T Reweight: 2.00 E: 0.00 F: 0.00 Notes: Large washover; mostly ches Sambucus seeds. *Oligochaeta sp. (egg capsule) *Trichoptera sp. (case)	eM: A arcoal, some 1 - u 1 - oa-w	Steve Rowland, part checked H contained mainly scraps. Record 2.0-3.5, mode 2.5 W; F 2.0-4.0, Cercyon analis Carpelimus?bilineatus Lathridius minutus group Trox scaber Acritus nigricornis Xylodromus concinnus Platystethus arenarius Anotylus nitidulus	K 4/9/00. Residue tube led on filter paper. E mode 2.5 W. 6 s rt-sf 6 s rt-sf 6 s rd-st 3 - rt-sf 2 - rt-st 2 - rt-st 2 - rt
Context: 3169 Sample: 184/T Reweight: 2.00 E: 0.00 F: 0.00 Notes: Large washover; mostly ches Sambucus seeds. *Oligochaeta sp. (egg capsule) *Trichoptera sp. (case) *Melophagus ovinus (puparium)	eM: A narcoal, some 1 - u 1 - oa-w 1 - u	Steve Rowland, part checked H contained mainly scraps. Record 2.0-3.5, mode 2.5 W; F 2.0-4.0, Cercyon analis Carpelimus?bilineatus Lathridius minutus group Trox scaber Acritus nigricornis Xylodromus concinnus Platystethus arenarius Anotylus nitidulus Neobisnius sp.	K 4/9/00. Residue tube led on filter paper. E mode 2.5 W. 6 s rt-sf 6 s rt-sf 6 s rd-st 3 - rt-sf 2 - rt-st 2 - rt 1 - rt 2 - rt 2 - rt 2 - rt 2 - rt
Context: 3169 Sample: 184/T Reweight: 2.00 E: 0.00 F: 0.00 Notes: Large washover; mostly chesambucus seeds. *Oligochaeta sp. (egg capsule) *Trichoptera sp. (case) *Melophagus ovinus (puparium) Context: 9271 Sample: 271/T Reweight	eM: A narcoal, some 1 - u 1 - oa-w 1 - u	Steve Rowland, part checked H contained mainly scraps. Record 2.0-3.5, mode 2.5 W; F 2.0-4.0, Cercyon analis Carpelimus?bilineatus Lathridius minutus group Trox scaber Acritus nigricornis Xylodromus concinnus Platystethus arenarius Anotylus nitidulus Neobisnius sp. Cordalia ob scura	K 4/9/00. Residue tube led on filter paper. E mode 2.5 W. 6 s rt-sf 6 s rt-sf 6 s rt-sf 2 - rt-sf 2 - rt-st 2 - rf 2 - rt 2 - rt 2 - rt
Context: 3169 Sample: 184/T Reweight: 2.00 E: 0.00 F: 0.00 Notes: Large washover; mostly ches Sambucus seeds. *Oligochaeta sp. (egg capsule) *Trichoptera sp. (case) *Melophagus ovinus (puparium)	eM: A narcoal, some 1 - u 1 - oa-w 1 - u	Steve Rowland, part checked H contained mainly scraps. Record 2.0-3.5, mode 2.5 W; F 2.0-4.0, Cercyon analis Carpelimus?bilineatus Lathridius minutus group Trox scaber Acritus nigricornis Xylodromus concinnus Platystethus arenarius Anotylus nitidulus Neobisnius sp.	K 4/9/00. Residue tube led on filter paper. E mode 2.5 W. 6 s rt-sf 6 s rt-sf 6 s rt-sf 2 - rt-sf 2 - rt-st 2 - rf 2 - rt 2 - u 2 - rt-sf
Context: 3169 Sample: 184/T Reweight: 2.00 E: 0.00 F: 0.00 Notes: Large washover; mostly ches Sambucus seeds. *Oligochaeta sp. (egg capsule) *Trichoptera sp. (case) *Melophagus ovinus (puparium) Context: 9271 Sample: 271/T Reweight: 1.00 E: 0.00 F: 0.00	eM: A narcoal, some 1 - u 1 - oa-w 1 - u	Steve Rowland, part checked H contained mainly scraps. Record 2.0-3.5, mode 2.5 W; F 2.0-4.0, Cercyon analis Carpelimus?bilineatus Lathridius minutus group Trox scaber Acritus nigricornis Xylodromus concinnus Platystethus arenarius Anotylus nitidulus Neobisnius sp. Cordalia ob scura Cryptophagus sp. Clivina fossor	K 4/9/00. Residue tube led on filter paper. E mode 2.5 W. 6 s rt-sf 6 s rt-sf 6 s rd-st 3 - rt-sf 2 - rt-st 2 - rt-st 2 - rt 3 - rt-sf 2 - rt
Context: 3169 Sample: 184/T Reweight: 2.00 E: 0.00 F: 0.00 Notes: Large washover; mostly chesambucus seeds. *Oligochaeta sp. (egg capsule) *Trichoptera sp. (case) *Melophagus ovinus (puparium) Context: 9271 Sample: 271/T Reweight	eM: A narcoal, some 1 - u 1 - oa-w 1 - u	Steve Rowland, part checked H contained mainly scraps. Record 2.0-3.5, mode 2.5 W; F 2.0-4.0, Cercyon analis Carpelimus?bilineatus Lathridius minutus group Trox scaber Acritus nigricornis Xylodromus concinnus Platystethus arenarius Anotylus nitidulus Neobisnius sp. Cordalia ob scura Cryptophagus sp. Clivina fossor Carabidae sp.	K 4/9/00. Residue tube led on filter paper. E mode 2.5 W. 6 s rt-sf 6 s rt-sf 6 s rd-st 3 - rt-sf 2 - rt-st 2 - rt-st 2 - rt 3 - rt-sf 1 - oa
Context: 3169 Sample: 184/T Reweight: 2.00 E: 0.00 F: 0.00 Notes: Large washover; mostly ches Sambucus seeds. *Oligochaeta sp. (egg capsule) *Trichoptera sp. (case) *Melophagus ovinus (puparium) Context: 9271 Sample: 271/T Reweight: 1.00 E: 0.00 F: 0.00 Notes: Small flot, mostly plant delay	eM: A arcoal, some 1 - u 1 - oa-w 1 - u eM: A	Steve Rowland, part checked H contained mainly scraps. Record 2.0-3.5, mode 2.5 W; F 2.0-4.0, Cercyon analis Carpelimus?bilineatus Lathridius minutus group Trox scaber Acritus nigricornis Xylodromus concinnus Platystethus arenarius Anotylus nitidulus Neobisnius sp. Cordalia ob scura Cryptophagus sp. Clivina fossor Carabidae sp. Haliplidae sp.	K 4/9/00. Residue tube led on filter paper. E mode 2.5 W. 6 s rt-sf 6 s rt-sf 6 s rd-st 3 - rt-sf 2 - rt-st 2 - rt-st 2 - rt 2 - rt 2 - rt 2 - rt 1 - oa 1 - ob
Context: 3169 Sample: 184/T Reweight: 2.00 E: 0.00 F: 0.00 Notes: Large washover; mostly ches Sambucus seeds. *Oligochaeta sp. (egg capsule) *Trichoptera sp. (case) *Melophagus ovinus (puparium) Context: 9271 Sample: 271/T Reweight: 1.00 E: 0.00 F: 0.00 Notes: Small flot, mostly plant delance of the second secon	eM: A aarcoal, some 1 - u 1 - oa-w 1 - u eM: A bris 6 s u	Steve Rowland, part checked H contained mainly scraps. Record 2.0-3.5, mode 2.5 W; F 2.0-4.0, Cercyon analis Carpelimus?bilineatus Lathridius minutus group Trox scaber Acritus nigricornis Xylodromus concinnus Platystethus arenarius Anotylus nitidulus Neobisnius sp. Cordalia ob scura Cryptophagus sp. Clivina fossor Carabidae sp. Haliplidae sp. Helophorus grand is	K 4/9/00. Residue tube led on filter paper. E mode 2.5 W. 6 s rt-sf 6 s rt-sf 6 s rt-sf 2 - rt-st 2 - rt-st 2 - rt 2 - rt 2 - rt 2 - rt 1 - oa 1 - ob 1 - oa-w
Context: 3169 Sample: 184/T Reweight: 2.00 E: 0.00 F: 0.00 Notes: Large washover; mostly ches Sambucus seeds. *Oligochaeta sp. (egg capsule) *Trichoptera sp. (case) *Melophagus ovinus (puparium) Context: 9271 Sample: 271/T Reweight: 1.00 E: 0.00 F: 0.00 Notes: Small flot, mostly plant del Neobisnius sp. Aleocharinae sp.	eM: A aarcoal, some 1 - u 1 - oa-w 1 - u eM: A bris 6 s u 6 s u	Steve Rowland, part checked H contained mainly scraps. Record 2.0-3.5, mode 2.5 W; F 2.0-4.0, Cercyon analis Carpelimus?bilineatus Lathridius minutus group Trox scaber Acritus nigricornis Xylodromus concinnus Platystethus arenarius Anotylus nitidulus Neobisnius sp. Cordalia ob scura Cryptophagus sp. Clivina fossor Carabidae sp. Haliplidae sp. Helophorus grand is Cryptopleurum minutum	K 4/9/00. Residue tube led on filter paper. E mode 2.5 W. 6 s rt-sf 6 s rt-sf 6 s rt-sf 2 - rt-st 2 - rt-st 2 - rt 2 - rt 2 - rt 2 - rt 1 - oa 1 - ob 1 - oa-w 1 - oa-w
Context: 3169 Sample: 184/T Reweight: 2.00 E: 0.00 F: 0.00 Notes: Large washover; mostly ches Sambucus seeds. *Oligochaeta sp. (egg capsule) *Trichoptera sp. (case) *Melophagus ovinus (puparium) Context: 9271 Sample: 271/T Reweight: 1.00 E: 0.00 F: 0.00 Notes: Small flot, mostly plant del Neobisnius sp. Aleocharinae sp. Trox scaber	eM: A arcoal, some 1 - u 1 - oa-w 1 - u eM: A bris 6 s u 6 s u 4 - rt-sf	Steve Rowland, part checked H contained mainly scraps. Record 2.0-3.5, mode 2.5 W; F 2.0-4.0, Cercyon analis Carpelimus?bilineatus Lathridius minutus group Trox scaber Acritus nigricornis Xylodromus concinnus Platystethus arenarius Anotylus nitidulus Neobisnius sp. Cordalia ob scura Cryptophagus sp. Clivina fossor Carabidae sp. Haliplidae sp. Helophorus grand is Cryptopleurum minutum Acritus nigricornis	K 4/9/00. Residue tube led on filter paper. E mode 2.5 W. 6 s rt-sf 6 s rt-sf 6 s rt-sf 2 - rt-st 2 - rt-st 2 - rt 2 - rt 2 - rt 1 - oa 1 - ob 1 - oa-w 1 - oa-w 1 - rf-st
Context: 3169 Sample: 184/T Reweight: 2.00 E: 0.00 F: 0.00 Notes: Large washover; mostly ches Sambucus seeds. *Oligochaeta sp. (egg capsule) *Trichoptera sp. (case) *Melophagus ovinus (puparium) Context: 9271 Sample: 271/T Reweight: 1.00 E: 0.00 F: 0.00 Notes: Small flot, mostly plant del Neobisnius sp. Aleocharinae sp. Trox scaber Lathridius minutus group	eM: A narcoal, some 1 - u 1 - oa-w 1 - u eM: A bris 6 s u 6 s u 4 - rt-sf 3 - rd-st	Steve Rowland, part checked H contained mainly scraps. Record 2.0-3.5, mode 2.5 W; F 2.0-4.0, Cercyon analis Carpelimus?bilineatus Lathridius minutus group Trox scaber Acritus nigricornis Xylodromus concinnus Platystethus arenarius Anotylus nitidulus Neobisnius sp. Cordalia ob scura Cryptophagus sp. Clivina fossor Carabidae sp. Haliplidae sp. Helophorus grand is Cryptopleurum minutum Acritus nigricornis Histerin ae sp. A	K 4/9/00. Residue tube led on filter paper. E mode 2.5 W. 6 s rt-sf 6 s rt-sf 6 s rt-sf 2 - rt-sf 2 - rt-st 2 - rt-st 2 - rt 2 - rt 1 - oa 1 - ob 1 - oa-w 1 - oa-w 1 - rf-st 1 - rt-st 1 - rt-st 1 - rt
Context: 3169 Sample: 184/T Reweight: 2.00 E: 0.00 F: 0.00 Notes: Large washover; mostly ches ambucus seeds. *Oligochaeta sp. (egg capsule) *Trichoptera sp. (case) *Melophagus ovinus (puparium) Context: 9271 Sample: 271/T Reweight: 1.00 E: 0.00 F: 0.00 Notes: Small flot, mostly plant del Neobisnius sp. Aleocharinae sp. Trox scaber Lathridius minutus group Clivina sp.	eM: A arcoal, some 1 - u 1 - oa-w 1 - u eM: A bris 6 s u 6 s u 4 - rt-sf 3 - rd-st 1 - oa	Steve Rowland, part checked H contain ed main ly scraps. R ecord 2.0-3.5, mode 2.5 W; F 2.0-4.0, Cercyon analis Carpelimus?bilineatus Lathridius minutus group Trox scaber Acritus nigricornis Xylodromus concinnus Platystethus arenarius Anotylus nitidulus Neobisnius sp. Cordalia ob scura Cryptophagus sp. Clivina fossor Carabidae sp. Haliplidae sp. Helophorus grand is Cryptopleurum minutum Acritus nigricornis Histerin ae sp. A Histerin ae sp. B	K 4/9/00. Residue tube led on filter paper. E mode 2.5 W. 6 s rt-sf 6 s rt-sf 6 s rt-sf 2 - rt-st 2 - rt-st 2 - rt 2 - rt 2 - rt 2 - rt 1 - oa 1 - ob 1 - oa-w 1 - oa-w 1 - rf-st 1 - rt 1 - rt
Context: 3169 Sample: 184/T Reweight: 2.00 E: 0.00 F: 0.00 Notes: Large washover; mostly ches ambucus seeds. *Oligochaeta sp. (egg capsule) *Trichoptera sp. (case) *Melophagus ovinus (puparium) Context: 9271 Sample: 271/T Reweight: 1.00 E: 0.00 F: 0.00 Notes: Small flot, mostly plant del Neobisnius sp. Aleocharinae sp. Trox scaber Lathridius minutus group Clivina sp. ?Carabidae sp.	eM: A arcoal, some 1 - u 1 - oa-w 1 - u eM: A bris 6 s u 6 s u 4 - rt-sf 3 - rd-st 1 - oa 1 - ob	Steve Rowland, part checked H contain ed main ly scraps. R ecord 2.0-3.5, mode 2.5 W; F 2.0-4.0, Cercyon analis Carpelimus?bilineatus Lathridius minutus group Trox scaber Acritus nigricornis Xylodromus concinnus Platystethus arenarius Anotylus nitidulus Neobisnius sp. Cordalia ob scura Cryptophagus sp. Clivina fossor Carabidae sp. Haliplidae sp. Helophorus grand is Cryptopleurum minutum Acritus nigricornis Histerin ae sp. A Histerin ae sp. B Ochthebius sp.	K 4/9/00. Residue tube led on filter paper. E mode 2.5 W. 6 s rt-sf 6 s rt-sf 6 s rt-sf 2 - rt-st 2 - rt-st 2 - rt 2 - rt 2 - rt 2 - rt 1 - oa 1 - ob 1 - oa-w 1 - rf-st 1 - rt 1 - rt 1 - rt 1 - rt 1 - oa-w
Context: 3169 Sample: 184/T Reweight: 2.00 E: 0.00 F: 0.00 Notes: Large washover; mostly chesambucus seeds. *Oligochaeta sp. (egg capsule) *Trichoptera sp. (case) *Melophagus ovinus (puparium) Context: 9271 Sample: 271/T Reweight: 1.00 E: 0.00 F: 0.00 Notes: Small flot, mostly plant del Neobisnius sp. Aleocharinae sp. Trox scaber Lathridius minutus group Clivina sp. ?Carabidae sp. Helophorus sp.	eM: A arcoal, some 1 - u 1 - oa-w 1 - u eM: A bris 6 s u 6 s u 4 - rt-sf 3 - rd-st 1 - oa 1 - ob 1 - oa-w	Steve Rowland, part checked H contained mainly scraps. Record 2.0-3.5, mode 2.5 W; F 2.0-4.0, Cercyon analis Carpelimus?bilineatus Lathridius minutus group Trox scaber Acritus nigricornis Xylodromus concinnus Platystethus arenarius Anotylus nitidulus Neobisnius sp. Cordalia ob scura Cryptophagus sp. Clivina fossor Carabidae sp. Haliplidae sp. Helophorus grand is Cryptopleurum minutum Acritus nigricornis Histerin ae sp. A Histerin ae sp. B Ochthebius sp. Hydraena sp.	K 4/9/00. Residue tube led on filter paper. E mode 2.5 W. 6 s rt-sf 6 s rt-sf 6 s rd-st 3 - rt-sf 2 - rt-st 2 - rt-st 2 - rt 2 - rt 2 - rt 1 - oa 1 - ob 1 - oa-w 1 - oa-w 1 - rf-st 1 - rt 1 - rt 1 - rt 1 - rt 1 - oa-w 1 - oa-w 1 - oa-w
Context: 3169 Sample: 184/T Reweight: 2.00 E: 0.00 F: 0.00 Notes: Large washover; mostly ches ambucus seeds. *Oligochaeta sp. (egg capsule) *Trichoptera sp. (case) *Melophagus ovinus (puparium) Context: 9271 Sample: 271/T Reweight: 1.00 E: 0.00 F: 0.00 Notes: Small flot, mostly plant del Neobisnius sp. Aleocharinae sp. Trox scaber Lathridius minutus group Clivina sp. ?Carabidae sp.	eM: A arcoal, some 1 - u 1 - oa-w 1 - u eM: A bris 6 s u 6 s u 4 - rt-sf 3 - rd-st 1 - oa 1 - ob	Steve Rowland, part checked H contain ed main ly scraps. R ecord 2.0-3.5, mode 2.5 W; F 2.0-4.0, Cercyon analis Carpelimus?bilineatus Lathridius minutus group Trox scaber Acritus nigricornis Xylodromus concinnus Platystethus arenarius Anotylus nitidulus Neobisnius sp. Cordalia ob scura Cryptophagus sp. Clivina fossor Carabidae sp. Haliplidae sp. Helophorus grand is Cryptopleurum minutum Acritus nigricornis Histerin ae sp. A Histerin ae sp. B Ochthebius sp.	K 4/9/00. Residue tube led on filter paper. E mode 2.5 W. 6 s rt-sf 6 s rt-sf 6 s rt-sf 2 - rt-st 2 - rt-st 2 - rt 2 - rt 2 - rt 2 - rt 1 - oa 1 - ob 1 - oa-w 1 - rf-st 1 - rt 1 - rt 1 - rt 1 - rt 1 - oa-w

Carpelimus pusillus group	1	_	u	Omosita sp.	1	-	rt-sf
Carpelimus sp.	1	-	u	Cerylon histeroides	1	-	1
Platystethus nitens	1	-	oa-d	Corticaria sp.	1	-	rt-sf
Anotylus rugosus	1	-	rt	Aglenus brunneus	1	-	rt-ss
Anotylus sculpturatus group	1	-	rt	Tenebrio obscurus	1	-	rt-ss
Lathrobium sp.	1	-	u	Anthicus formicarius	1	-	rt-st
Gyrohypnus angustatus	1	-	rt-st	Longitarsus sp.	1	-	oa-p
Gyrohypnus fracticornis	1	-	rt-st	Chaetocnema arida group	1	-	oa-p
Falagria sp.	1	-	rt-sf				
Aleochannae sp.	1	-	u	*Oligochaeta sp. (egg capsule)	1	-	u
Aphodius granarius	1	-	ob-rf	*Coleoptera sp. (larva)	1	-	u
Anobium punctatum	1	-	l-sf	*Proctotrupoidea sp.	1	-	u
Lyctus linearis	1	-	l-sf	*Acarina sp.	1	-	u

Table 11. Layerthorpe Bridge, York: records of Trox scaber and bark/bark sclereids. Percentages not calculated for assemblages with only an assessment record. RM: recording method (for insects). The last two columns give the semi-quantitative abundance scores for bark and bark sclereids, respectively. * - this sample also yielded 'chips' of bark. Many of the Trox were severely decayed.

CN	SN	Ext.	RM	N	No. T. scaber	% T. scaber	В	BS
14	48	/T	A	-	6	-	3	2
14	48	/T1	D	34	10	29	3	3
15	49	/T	A	-	-	-	-	1
16	52	/T	A	-	6	1	3	1
16	52	/T1	D	123	19	15	4	3
38	17	/T	A	-	1	-	3	1
40	19	/T	A	-	1	-	2	1
41	27	/T	A	-	1	-	3	2
1012	56	/T1	D	47	27	57	3	3
1014	59	/T1	R	12	1	8	2	1
1027	75	/T	A	-	0	-	2	-
1029	79	/T	A	-	6	-	-	1
1029	80	/T1	R	20	7	35	1	2
1031	84	/T	A	-	3	-	2	2
1033	68	/T	A	-	2	-	2	2
1038	89	/T1	R	-	0	-	1	1
1039	90	/T	A	-	6	ı	3	=
1039	90	/T1	D	196	31	16	4	3
1047	95	/T	A	-	0	=	1	-
1052	117	/T	A	-	15	=	3	2
2005	138	/T1	RS	111	2	2	1	1
2006	214	/T1	A	-	0	=	3	1
2007	213	/T1	A	-	1	-	3	1
2023	206	/T	A	-	2	-	3	1
2030	286	/T	A	-	1	-	-	=
2030	286	/T1	A	-	1	ı	1	2
2065	258	/T1	D	105	2	2	1	1
2131	280	/T	A	-	6	-	4	3
2131	281	/T1	RS	111	4	4	4	4

CN	SN	Ext.	RM	N	No. T. scaber	% T. scaber	В	BS
2160	287	/T	A	-	1	-	1	-
2160	287	/T1	D	163	4	2	3	4
2160	291	/T1	S	213	4	2	4	4
2178	292	/T	A	-	2	-	2	2
2178	292	/T1	D	240	4	2	3*	3
2189	296	/T	A	-	1	-	3	1
2191	311	/T	A	-	1	-	2	1
9271	271	/T	A	-	4	-	4	1
9271	271	/T1	RS	68	3	4	4	4
1032/ 1033	85	/T	A	-	0	-	3	-
Whole s	ite			1443	119	8		

Table 12. Layerthorpe Bridge, York: Spearman's rank-order correlation coefficients (and probability estimates) for semi-quantitative scores for bark fragments, bark sclereids and Trox remains from 39 subsamples from Anglo-Scandinavian and medieval deposits which contained any one of these kinds of remains (cf. Table 11). For comparison: for a group of 301 samples from Anglo-Scandinavian deposits at 16-22 Coppergate, York, there was a correlation between semi-quantitative scores for bark fragments and Trox of 0.0287 (p = 0.62) (bark sclereids were not recognised for deposits from that site).

		T. scaber	bark fragments
bark fragments	Correlation coefficient	.419	-
	Sig. (2-tailed)	.008	
sclereids	Correlation coefficient	.626	.466
	Sig. (2-tailed)	.000	.003

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Table 13. Layerthorpe Bridge, York: hand-collected vertebrate remains from Trench 1, Area 1.

Abbreviation: meas. - measurable

Species			?medieval			medieval			early modern	
		No. fragments	No. meas.	No. mandibles	No. fragments	No. meas.	No. mandibles	No. fragments	No. meas.	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	-	-	-
Anser sp.	goose	-	-	-	2	1	-	-	-	-
Gallus f. domestic	chicken	-	-	-	1	1	-	-	-	-
cf. Gallus 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

Reports from EAU, York, 2000/64

Technical Report: Layerthorpe Bridge

Table 14. Layerthorpe Bridge, York: hand-collected vertebrate remains from Trench 1, Area 2.

Abbreviations: frags—fragments; mands—mandibles; meas.—measurable.

Species		Roman			?Anglo-Scand			Anglo-Sc and			?medieval			medieval		
		No.	No.	No.	No.	No.	No.	No.	No.	No.	No.	No.	No.	No.	No.	No.
		frags	meas.	mands	frags	meas.	mands	frags	meas.	mands	frags	meas.	mands	frags	meas.	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/	20	14	3	27	5	9	83	25	25	17	9	1	143	56	33
	goat															
Anser sp.	goose	-	-	-	-	-	-	-	-	-	-	-	-	4	2	-
cf. Anser sp.	?goose	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-
Gallus f. domestic	chicken	2	2	-	1	1	-	1	1	-	-	-	-	2	2	-
	or 1															
Fish	fish	-	-	-	-	-	-	-	-	-	I	-	-	I	-	-
Homo sapiens	human	2	_	_	_	_	_	_		_	_	_	_	_		_
Sub-total	numan	82	30	5	121	19	20	229	51	37	104	27	9	495	144	59
Sub-totat		02	30	3	121	19	20	229	31	37	104	27	9	493	144	39
Uniden tified 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

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Table 15. Layerthorpe Bridge, York: hand-collected vertebrate remains from Trench 2. Abbreviations as for Table 14.

			?Roman			Roman		?medieval				
Species		No. frags	No. meas.	No. mands	No. frags	No. meas.	No. mands	No. frags	No. meas	No. mands		
Oryctolagus cuniculus (L.)	rabbit	-	-	-	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	-	-	-	-		
Bos f. domestic	cattle	6	2	-	65	7	3	2	1	-		
Caprovid	sheep/go at	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	-		
Uniden tified bird		-	-	-	1	-	-	-	-	-		
Unidentified		38	-	-	331	-	-	38	-	-		
Sub-total		38	-	-	332	-	-	38	-	-		
Total		51	5	0	481	29	10	62	6	0		