

Table 4: Insects and other invertebrates recorded by scanning Association B samples

Abundance of insect taxa was estimated as + 1–3, ++ 4–9, +++ 10–25. Other invertebrate groups were recorded as present (P), common (C) or abundant (A)

Section	SS05						SS02
	162/18	162/18	162/18	165/18	162/18	162/18	165/18
	782212	782213	782216	78228	782231	782403	782205
<b>Sample number</b>	<b>780096</b>	<b>780099</b>	<b>780058</b>	<b>780095</b>	<b>780094</b>	<b>780132</b>	<b>780014</b>
	Rootbed	Rootbed	Rootbed	Rootbed	Organic mud		Disturbed re-worked rootbed
<b>Volume (litres)</b>	9.5	5	4.5	6	9.5	6	5.5
<b>Taxon</b>							
<b>CRUSTACEA</b>							
Cladocera spp. ehippia	–	–	–	–	–	P	–
Ostracoda spp. carapaces	P	C	A	C	P	C	C
<b>INSECTA</b>							
<b>HEMIPTERA: HETEROPTERA (true bugs)</b>							
Lygaeidae (ground bugs)							
Lygaeidae spp.	+	–	+	–	+	–	–
Corixidae (water boatmen)							
Corixidae sp.	–	+	–	–	+	+	–
Saldidae (shore bugs)							
Saldidae sp.	+	+	–	+	+	–	–
Heteroptera sp.	–	–	–	–	–	–	+
<b>HEMIPTERA: HOMOPTERA</b>							
Auchenorhyncha spp. [oa-p]	+	+	–	+	+	–	+
<b>COLEOPTERA (beetles)</b>							
Dytiscidae (diving beetles)							
<i>Agabus bipustulatus</i> (Linnaeus)	+	–	–	–	–	–	–
<i>Agabus</i> or <i>Ilybius</i> spp.	–	–	–	–	–	+	+
<i>Colymbetes fuscus</i> (Linnaeus)	–	–	–	–	–	+	–
<i>Colymbetes</i> sp. indet.	+	–	–	–	–	–	–
Hydroporinae spp.	–	–	–	–	+	+	+
Dytiscidae sp.	+	–	+	–	+	+	–
<b>Carabidae (ground beetles)</b>							
<i>Notiophilus aquaticus</i> (Linnaeus)	+	–	+	–	+	+++	++
<i>Carabus</i> ? <i>granulatus</i> Linnaeus	–	–	+	–	–	–	–
<i>Carabus</i> spp. [oa] fragments	+	–	+	–	+	–	–
<i>Loricera pilicornis</i> (Fabricius)	+	–	–	–	–	–	–
<i>Clivina fossor</i> (Linnaeus)	–	–	–	–	–	–	+
<i>Clivina</i> sp. indet.	–	–	–	–	+	–	–
<i>Dyschirius globosus</i> (Herbst)	++	–	+	+	++	–	+
<i>Blemus discus</i> (Fabricius)	–	–	+	–	–	–	–
<i>Trechus quadristriatus</i> (Schrank)	–	–	+	–	–	–	–
<i>Bembidion</i> ( <i>Bembidion</i> ) <i>quadrimaculatum</i> (Linnaeus)	–	–	+	+	+	–	–
<i>Bembidion</i> ( <i>Metallina</i> ) <i>properans</i> (Stephens)	–	–	–	–	+	–	–
<i>Bembidion</i> ( <i>Notaphus</i> ) ? <i>obliquum</i> Sturm	+	–	–	–	–	–	–

<i>Bembidion (Notaphus) varium</i> (Olivier)	+	-	-	-	-	-	-
<i>Bembidion (Peryphus) bruxellense</i> Wesmael	-	-	-	-	+	-	-
<i>Bembidion (Peryphus) tetracolum</i> Say	-	-	+	-	-	-	-
<i>Bembidion (Philochthus) ?biguttatum</i> (Fabricius)	-	-	-	-	-	-	+
<i>Bembidion (Philochthus) sp.</i>	-	-	-	-	+	-	-
<i>Bembidion (Semicampa) gilvipes</i> Sturm	-	-	+	+	++	-	-
<i>Bembidion (Testidium) bipunctatum</i> (Linnaeus)	-	-	+	+	-	-	+
<i>Bembidion</i> spp.	-	-	+	-	+	+	+
<i>Pterostichus</i> sp.	+	-	-	-	-	-	-
? <i>Pterostichus</i> sp.	-	-	-	-	+	-	-
<i>Amara</i> spp.	+	+	+	-	++	-	+
Harpalini sp.	-	-	-	-	-	+	-
<i>Calathus</i> sp. (small)	-	-	-	-	+	-	-
<i>Agonum</i> sp(p).	-	-	-	-	+	-	+
Carabidae spp. & sp. indet.	+	-	++	+	+	+	-
Helophoridae (grooved water scavengers)							
<i>Helophorus grandis</i> Illiger	-	-	-	-	-	++	-
<i>Helophorus aequalis</i> or <i>grandis</i>	+	-	+	-	-	-	-
<i>Helophorus</i> spp. (small species)	++	++	+++	+++	++	+++	+++
Hydrophilidae							
<i>Hydrobius fuscipes</i> (Linnaeus)	+	-	+	-	-	-	-
<i>Cercyon melanocephalus</i> (Linnaeus)	-	++	-	+	-	-	-
<i>Cercyon tristis</i> group	-	-	-	-	+	-	-
<i>Cercyon</i> spp. (decomposer group)	+	++	++	+	+	+	+
<i>Cryptopleurum minutum</i> (Fabricius)	+	-	-	+	+	-	-
Histeridae (clown beetles)							
<i>Saprinus immundus</i> (Gyllenhal)	-	-	-	-	+	-	-
Hydraenidae							
<i>Ochthebius</i> sp(p).	-	+	+	+	-	-	-
Silphidae (sexton beetles)							
<i>Aclypea undata</i> (Müller)	-	-	+	-	-	-	-
Silphidae spp.	+	-	+	+	+	+	+
Staphylinidae (rove beetles)							
<i>Arpedium quadrum</i> (Gravenhorst)	-	-	-	-	-	+	-
Omaliniinae spp.	-	-	+	+	-	-	-
<i>Megarthus</i> sp.	-	-	-	-	+	+	+
<i>Tachyporus</i> spp.	+	+	+	+	+++	+	++
<i>Tachinus corticinus</i> Gravenhorst	-	-	-	-	+	-	+
<i>Tachinus laticollis</i> or <i>marginellus</i>	+	-	-	-	+	-	-
<i>Tachinus rufipes</i> (Linnaeus)	+	+	+	+	+	+	+
<i>Tachinus</i> spp.	+	+	+	-	+	+	+
<i>Mycetoporus</i> sp.	+	-	-	-	-	-	-
<i>Oxypoda</i> sp.	-	-	-	+	-	-	-
Aleochariinae spp.	++	+++	+++	+++	+++	+	+
<i>Bledius</i> sp.	-	-	+	-	-	-	-

<i>Aploderus caelatus</i> (Gravenhorst)	-	+	+	-	+	-	-
<i>Platystethus cornutus</i> group	+	+	+	-	+	-	-
<i>Platystethus nitens</i> (Sahlberg)	-	+	++	-	++	-	+
<i>Platystethus nodifrons</i> Mannerheim	+	+	++	-	+	-	+
<i>Platystethus arenarius</i> (Geoffroy in Fourcroy)	-	-	-	-	+	+	-
<i>Anotylus gibbulus</i> group	++	+	++	+	+	-	-
<i>Anotylus nitidulus</i> (Gravenhorst)	+	++	++	+	+	+	-
<i>Oxytelus laqueatus</i> or <i>piceus</i>	+	+	-	+	-	+	-
<i>Stenus</i> spp.	+	-	-	+	+	+	-
Paederinae sp.	+	-	-	-	-	-	-
<i>Xantholinus gallicus</i> or <i>linearis</i>	-	+	+	-	-	-	-
<i>Xantholinus gallicus/linearis/longiventris</i>	-	-	-	-	+	-	-
<i>Gabrius</i> sp.	+	-	-	-	+	+	-
Staphylininae spp.	++	++	++	+	++	+	+
Geotrupidae (dor beetles)							
Geotrupinae sp. indet.	+	-	-	-	-	-	-
Scarabaeidae (dung beetles and chafers)							
<i>Acrossus rufipes</i> (Linnaeus)	+	-	+	-	+	-	+
<i>Chilothorax paykulli</i> (Bedel)	-	+	-	-	-	-	-
<i>Chilothorax</i> sp.	-	-	++	-	-	++	+
<i>Melinopterus prodromus</i> (Brahm)	+++	-	+++	-	++	-	-
<i>Melinopterus</i> sp.	-	++	-	-	-	-	++
Aphodiinae spp. & sp. indet.	++	+++	++	++	++	+++	+++
Byrrhidae (pill beetles)							
<i>Simplocaria</i> sp.	-	-	+	-	-	+	+
<i>Byrrhus</i> sp.	+	-	-	+	-	-	-
Byrrhidae sp.	-	+	-	-	+	-	-
Elateridae (click beetles)							
Elateridae spp.	+	-	-	+	-	-	++
Cryptophagidae (silken fungus beetles)							
<i>Atomaria</i> sp(p).	-	+	+	-	+++	-	-
Kateretidae (short-winged flower beetles)							
<i>Kateretes</i> sp.	-	+	-	-	-	-	-
Latridiidae (minute brown scavenger beetles)							
Corticariinae spp.	-	+	+	+	+	-	-
Anthicidae (ant-like flower beetles)							
Anthicidae sp.	-	-	-	-	-	-	+
Chrysomelidae (seed and leaf beetles)							
<i>Donacia</i> or <i>Plateumaris</i> sp.	-	-	-	-	+	-	-
<i>Galeruca tanacetii</i> (Linnaeus)	-	-	-	-	-	-	+
<i>Longitarsus</i> sp.	+	+	+	-	+++	+	-
<i>Phyllotreta</i> spp.	-	-	+	-	-	-	-
Alticini spp.	++	++	++	+	++	-	++
Chrysomelidae sp.	+	-	+	-	-	-	-
Apionidae							

