

## Online material

**Appendix 1.** Functional traits assigned to taxa collected at the study ponds. FFG = Functional feeding groups: CG = Collector-gatherers, CF = Collector-filterers, PR = Predators, SH = Shredders, SC = Scrapers. HAB = Habits: BU = Burrowers, SP = Sprawlers, CL = Climbers, SW = Swimmers, DI = Divers, SK = Skaters. WIG = Groups of Wiggins *et al.* (1980): 1–4, ? = unknown.

| TAXA                                 | FFG    | HAB    | WIG | TAXA                           | FFG        | HAB    | WIG |
|--------------------------------------|--------|--------|-----|--------------------------------|------------|--------|-----|
| <b>HYDROZOA</b>                      |        |        |     | <i>S. striolatum</i>           | PR         | CL, SP | 3   |
| <i>Hydra</i> sp.                     | PR     | SP     | 1   | <i>S. meridionale</i>          | PR         | CL, SP | 3   |
| <b>TURBELLARIA undet.</b>            | PR     | CL, SP | 1   | <b>HEMIPTERA</b>               |            |        |     |
| <b>OLIGOCHAETA undet.</b>            | CG     | BU     | 1   | <i>Corixa affinis</i>          | SH         | SW     | 4   |
| <b>HIRUDINEA</b>                     |        |        |     | <i>C. punctata</i>             | SH         | SW     | 4   |
| <i>Helobdella stagnalis</i>          | PR     | CL, SP | 1   | <i>Hesperocorixa moesta</i>    | SH         | CL, SW | 4   |
| <i>Placobdella costata</i>           | PR     | CL, SP | 1   | <i>Sigara lateralis</i>        | CG, SH     | CL, SW | 4   |
| Erpobdellidae undet.                 | PR     | CL, SP | 1   | <i>Sigara nigrolineata</i>     | CG, SH     | CL, SW | 4   |
| Hirudinidae undet.                   | PR     | CL, SP | 1   | <i>S. basalis</i>              | CG, SH     | CL, SW | 4   |
| <b>ANOSTRACA</b>                     |        |        |     | <i>Sigara</i> sp.              | CG, SH     | CL, SW | 4   |
| <i>Chirocephalus diaphanus</i>       | CF     | SW     | 1   | <i>Micronecta scholtzi</i>     | PR         | CL, SW | 4   |
| <i>C. kerkyrensis</i>                | CF     | SW     | 1   | <i>Ilyocoris cimicoides</i>    | PR         | CL, SW | 4   |
| <b>NOTOSTRACA</b>                    |        |        |     | <i>Ranatra linearis</i>        | PR         | CL     | 4   |
| <i>Lepidurus apus lubbocki</i>       | SH, PR | CL, SP | 1   | <i>Anisops sardeus</i>         | PR         | CL, SW | 4   |
| <b>ISOPODA</b>                       |        |        |     | <i>Notonecta glauca</i>        | PR         | CL, SW | 4   |
| <i>Proasellus</i> gr. <i>coxalis</i> | SH     | CL, SP | 1   | <i>N. maculata</i>             | PR         | CL, SW | 4   |
| <b>AMPHIPODA</b>                     |        |        |     | <i>N. viridis</i>              | PR         | CL, SW | 4   |
| <i>Echinogammarus veneris</i>        | SH     | CL, SP | 1   | <i>Plea minutissima</i>        | PR         | CL, SW | 4   |
| <b>DECAPODA</b>                      |        |        |     | <i>Gerris argentatus</i>       | PR         | SK     | 4   |
| <i>Palaemonetes antennarius</i>      | SH, PR | CL, SP | 1   | <i>G. maculatus</i>            | PR         | SK     | 4   |
| <b>HYDRACARINA</b>                   |        |        |     | <i>G. lacustris</i>            | PR         | SK     | 4   |
| <i>Arrenurus muelleri</i>            | PR     | CL, SP | 2   | <i>Microwelia pygmaea</i>      | PR         | SK     | 4   |
| <i>Eylais hamata</i>                 | PR     | CL, SP | 4   | <i>Hydrometra stagnorum</i>    | PR         | SK     | 4   |
| <i>Tiphys ornatus</i>                | PR     | CL, SP | 2   | <i>Mesovelia vittigera</i>     | PR         | CL, SK | 4   |
| <i>Hydrachna skorikowi</i>           | PR     | CL, SP | 4   | <i>Saldula</i> sp.             | PR         | CL     | 4   |
| <b>EPHEMEROPTERA</b>                 |        |        |     | <b>TRICHOPTERA</b>             |            |        |     |
| <i>Cloeon dipterum</i> gr.           | CG, SC | SW     | 4   | <i>Mesophylax aspersus</i>     | CG, SH, SC | CL, SP | 3   |
| <i>Caenis luctuosa</i>               | CG, SC | CL, SP | 4   | <i>Holocentropus stagnalis</i> | CG, CF, PR | CL, SP | 2   |
| <i>C. macrura</i> gr.                | CG, SC | CL, SP | 4   | <i>Orthotrichia</i> sp.        | CG, SH, SC | CL     | ?   |
| <b>ODONATA</b>                       |        |        |     | <b>COLEOPTERA</b>              |            |        |     |
| <i>Chalcolestes viridis</i>          | PR     | CL, SW | 3   | <i>Brychius</i> sp.            | SC, SH     | CL, SP | 4   |
| <i>Lestes barbarus</i>               | PR     | CL, SW | 3   | <i>Haliphus fulvus</i>         | SH         | CL, SW | 2   |
| <i>L. virens</i>                     | PR     | CL, SW | 3   | <i>H. lineatocollis</i>        | SH         | CL, SW | 2   |
| <i>Ischnura elegans</i>              | PR     | CL     | 4   | <i>H. guttatus</i>             | SH         | CL, SW | 2   |
| <i>Cercion lindeni</i>               | PR     | CL     | 4   | <i>H. mucronatus</i>           | SH         | CL, SW | 2   |
| <i>Coenagrion scitulum</i>           | PR     | CL     | 4   | <i>H. ruficollis</i>           | SH         | CL, SW | 2   |
| <i>Erythromma viridulum</i>          | PR     | CL     | 4   | <i>H. variegatus</i>           | SH         | CL, SW | 2   |
| <i>Aeshna affinis</i>                | PR     | CL     | 3   | <i>Peltodytes caesus</i>       | PR, SH     | CL     | 2   |
| <i>Anax imperator</i>                | PR     | CL     | 4   | <i>Hygrobia hermanni</i>       | PR         | SP, SW | 4   |
| <i>Orthetrum brunneum</i>            | PR     | CL, SP | 3   | <i>Hyphydrus aubei</i>         | PR         | CL, SW | 4   |
| <i>O. cancellatum</i>                | PR     | CL, SP | 3   | <i>Hydrovatus cuspidatus</i>   | PR         | DI, SW | ?   |
| <i>Crocothemis erythraea</i>         | PR     | CL, SP | 3   | <i>Hygrotus inaequalis</i>     | PR         | CL, SW | ?   |
| <i>Sympetrum foscolombeii</i>        | PR     | CL, SP | 3   | <i>Hygrotus confluens</i>      | PR         | CL, SW | ?   |
| <i>S. sanguineum</i>                 | PR     | CL, SP | 3   | <i>Hydroglyphus pusillus</i>   | PR         | DI, SW | ?   |
|                                      |        |        |     | <i>Bidessus muelleri</i>       | PR         | CL, SW | ?   |
|                                      |        |        |     | <i>Graptodytes bilineatus</i>  | PR         | CL, DI | ?   |

## Appendix 1. (Continued).

| TAXA                                | FFG        | HAB        | WIG  | TAXA                                   | FFG        | HAB    | WIG  |
|-------------------------------------|------------|------------|------|--|------------|--------|------|
| <i>G. flavipes</i>                  | PR         | CL, DI     | ?    | <i>Culiseta fumipennis</i>             | CF         | SW     | 3    |
| <i>Porhydrus obliquesignatus</i>    | PR         | CL, DI, SW | 4    | <i>C. annulata</i>                     | CF         | SW     | 3    |
| <i>Hydroporus analis</i>            | PR         | CL, SW     | 2    | <i>C. litorea/morsitans</i>            | CF         | SW     | 3    |
| <i>H. pubescens</i>                 | PR         | CL, SW     | 2    | <i>Anopheles maculipennis</i>          | CF         | SW     | 4    |
| <i>H. palustris</i>                 | PR         | CL, SW     | 2    | Ceratopogonidae undet.                 | CG, PR     | BU, SP | 2    |
| <i>H. erythrocephalus</i>           | PR         | CL, SW     | 2    | <i>Ablabesmyia longistila</i>          | CG, PR     | SP     | 4    |
| <i>H. memnonius</i>                 | PR         | CL, SW     | 2    | <i>A. monilis</i>                      | CG, PR     | SP     | 4    |
| <i>H. tessellatus</i>               | PR         | CL, SW     | 2    | <i>Monopelopia tenuicalcar</i>         | PR         | SP     | 4    |
| <i>Laccophilus minutus</i>          | PR         | DI, CL, SW | 4    | <i>Xenopelopia falcigera</i>           | PR         | SP     | 4    |
| <i>L. variegates</i>                | PR         | DI, CL, SW | 4    | <i>Zavrelimyia</i> sp.                 | PR         | SP     | 4    |
| <i>Liopterus atriceps</i>           | PR         | DI, CL, SW | ?    | <i>Clinotanypus nervosus</i>           | PR         | BU     | 4    |
| <i>Dytiscus</i> sp.                 | PR         | DI, SW     | 4    | <i>Macropelopia</i> sp.                | PR         | SP     | 4    |
| <i>Agabus bipustulatus</i>          | PR         | DI, SW     | 2    | <i>Procladius</i> sp.                  | CG, PR     | SP     | 4    |
| <i>Colymbetes fuscus</i>            | PR         | DI, SW     | 2    | <i>Psectrotanypus varius</i>           | PR         | SP     | 4    |
| <i>Noterus clavicornis</i>          | PR         | DI, CL, SW | ?    | <i>Tanypus kraatzii</i>                | CG, PR     | SP     | 4    |
| <i>Rhantus suturalis pulverosus</i> | PR         | DI, SW     | 2, 4 | <i>T. punctipennis</i>                 | CG, PR     | SP     | 4    |
| <i>Deronectes</i> sp.               | PR         | CL, SW     | ?    | <i>Corynoneura scutellata</i>          | CG         | SP     | 2    |
| <i>Oreodytes</i> sp.                | PR         | CL, SW     | ?    | <i>Isocladius sylvestris</i>           | CG, SH     | BU, SP | 2    |
| <i>Scarodytes</i> sp.               | PR         | CL, SW     | ?    | <i>Limnophyes</i> sp.                  | CG, SC     | SP     | 3    |
| <i>Cybister lateralimarginalis</i>  | PR         | CL, SW     | 4    | <i>Psectrocladius</i> sp.              | CG, SH     | BU, SP | 2    |
| <i>C. tripunctatus africanus</i>    | PR         | CL, SW     | 4    | <i>P. (Allopectrocladius) obvius</i>   | CG, SH     | BU, SP | 2    |
| ? <i>Eretes sticticus</i>           | PR         | DI, SW     | ?    | <i>P. (Psectrocladius) sordidellus</i> | CG, SH     | BU, SP | 2    |
| <i>Aulacochthebius exaratus</i>     | PR         | CL, SW     | 4    | <i>Smittia</i> sp.                     | CG         | BU     | 3    |
| <i>Limnobia furcatus</i>            | CG, SC     | CL         | 4    | Orthocladiinae undet.                  | CG, SC     | BU, SP | 2    |
| <i>Helophorus alternans</i>         | SH         | CL         | 2    | <i>Cladotanytarsus mancus</i> gr.      | CF, CG     | BU     | 2    |
| <i>H. maritimus</i>                 | SH         | CL         | 2    | <i>Micropsectra</i> sp.                | CG         | CL, SP | 2    |
| <i>H. fulgidicollis</i>             | SH         | CL         | 2    | <i>Paratanytarsus</i> sp.              | CF, CG     | SP     | 2    |
| <i>H. minutus</i>                   | SH         | CL         | 2    | <i>Tanytarsus</i> sp.                  | CF, CG     | CL, SP | 2    |
| <i>H. brevipalpis</i>               | SH         | CL         | 2    | <i>Chironomus plumosus</i> gr.         | CG, SH     | BU     | 2    |
| <i>Hydrochus elongatus</i>          | SH         | CL         | 4    | <i>C. thummi</i> gr.                   | CG, SH     | BU     | 2    |
| <i>H. brevis</i>                    | SH         | CL         | 4    | <i>Cladopelma laccophila</i> gr.       | CG         | BU     | 2    |
| <i>Hydrobius fuscipes</i>           | CG, PR     | CL, SP     | 2    | <i>Cryptochironomus</i> sp.            | PR         | BU, SP | 2    |
| <i>Limnoxenus niger</i>             | CG         | DI, SW     | ?    | <i>Dicrotendipes nervosus</i> gr.      | CF, CG     | BU     | 2    |
| <i>Cymbiodyta marginella</i>        | PR         | BU         | 4    | <i>Einfeldia insolita</i> gr.          | CG         | BU     | 2    |
| <i>Anacaena limbata</i>             | CG         | BU         | 2    | <i>Endochironomus tendens</i>          | CF, CG, SH | CL, SP | 2    |
| <i>A. lutescens</i>                 | CG         | BU         | 2    | <i>Kiefferulus tendipediformis</i>     | CG         | BU     | 2    |
| <i>Enochrus</i> sp.                 | CG, SH     | BU, SP     | 4    | <i>Microchironomus</i> sp.             | CG         | BU     | 2    |
| <i>Helochaeres griseus</i>          | CG, PR     | DI, CL, SW | 4    | <i>Microtendipes pedellus</i> gr.      | CF, CG     | CL, SP | 2    |
| <i>H. lividus</i>                   | CG, PR     | DI, CL, SW | 4    | <i>Paratendipes</i> sp.                | CG         | BU     | 2    |
| <i>Berosus affinis</i>              | CG, SH     | DI, CL, SW | 2    | <i>Phaenopsectra</i> sp.               | CG, SC     | CL, SP | 2    |
| <i>B. signaticollis</i>             | CG, SH     | DI, CL, SW | 2    | <i>Polypedilum convictum</i> gr.       | CG, SH, PR | CL     | 2    |
| <i>Hydrochara caraboides</i>        | CG         | DI, CL, SW | 4    | <i>P. nubeculosum</i> gr.              | CG, SH, PR | CL, SP | 2    |
| <i>Hydrophilus piceus</i>           | CG         | DI, CL, SW | 4    | <i>P. ? nubifer</i>                    | CG, SH, PR | CL, SP | 2    |
| <i>Coelostoma</i> sp.               | PR         | CL         | 4    | <i>Sergentia</i> sp.                   | CG         | BU     | 2    |
| <i>Dryops algiricus</i>             | SH         | CL         | 4    | <i>Stictochironomus</i> sp.            | CG, SH     | BU     | 2    |
| <i>D. striatellus</i>               | SH         | CL         | 4    | Limoniidae undet.                      | CG, SH, PR | BU     | 2    |
| <i>Gyrinus urinator</i>             | PR         | DI, SW     | 4    | Dixidae undet.                         | CG         | CL, SP | 2, 3 |
| ? <i>Hydroscapha</i> sp.            | SC         | CL         | ?    | Stratiomyidae undet.                   | CG         | CL, SP | 2    |
| <i>Helodes</i> sp.                  | CG, SC, SH | CL, SP     | ?    | Tabanidae undet.                       | PR         | BU, SP | 2    |
| <i>Donacia</i> sp.                  | SH         | CL, SP     | 4    | Empididae undet.                       | CG, PR     | BU, SP | 2, 3 |
| <b>MEGALOPTERA</b>                  |            |            |      | Dolichopodidae undet.                  | PR         | BU, SP | 2    |
| Sialidae undet.                     | PR         | BU, CL, SP | 4    | <i>Lispe</i> sp.                       | PR         | SP     | ?    |
| <b>DIPTERA</b>                      |            |            |      | Tipulidae undet.                       | CG, SH, PR | BU, SP | 4    |
| <i>Chaoborus flavicans</i>          | PR         | BU, SP, SW | 4    | Ephyridae undet.                       | CG, SC, PR | BU, SP | 2    |
| <i>C. pallidus</i>                  | PR         | BU, SP, SW | 4    | Psychodidae undet.                     | CG         | BU     | 2, 3 |
| <i>Culex theileri</i>               | CF         | SW         | 4    | <b>BIVALVIA</b>                        |            |        |      |
| <i>C. modestus/laticinctus</i>      | CF         | SW         | 4    | <i>Musculium lacustre</i>              | CF         | BU     | 1    |
| <i>C. impudicus</i>                 | CF         | SW         | 4    | <i>Pisidium</i> sp.                    | CF         | BU     | 1    |

**Appendix 1.** (Continued).

| <b>TAXA</b>                  | <b>FFG</b> | <b>HAB</b> | <b>WIG</b> |
|------------------------------|------------|------------|------------|
| <b>GASTROPODA</b>            |            |            |            |
| <i>Physella acuta</i>        | SC, SH     | CL, SP     | 1          |
| <i>Stagnicola cf. corvus</i> | SC, SH     | CL, SP     | 1          |
| <i>Radix auricularia</i>     | SC, SH     | CL, SP     | 1          |
| <i>Bithynia leachi</i>       | SC, SH     | CL, SP     | 1          |
| <i>Anisus spirorbis</i>      | SC, SH     | CL, SP     | 1          |
| <i>Gyraulus laevis</i>       | SC, SH     | CL, SP     | 1          |
| <i>Ferrissia wautieri</i>    | SC         | CL, SP     | 1          |