

WCSRT (JB) invertebrate sampling

River Dun Lockerley Mill (08.03.18)

Site c.10m d/str of Larinier fish pass on side channel upstream of mill.

(noon 08.03.18, water depth over top Larinier baffle = 19cm)

Summary

Four months have passed since completion of the engineering work to install a fish pass at Lockerley Mill on an enlarged side-channel of the River Dun. Despite the wintery weather in early March there are already signs of aquatic vegetation starting to grow. A high proportion of aquatic invertebrates live happily within and on the riverbed gravel and using the standard pondnet sampling technique for just 3 minutes WCSRT have confirmed natural re-colonisation is well underway. Around 20 different invertebrate 'groups' were retrieved using the pondnet, including one species (*Simulium noelleri*) generally confined to lake outlets and possibly displaced from the upstream fishing lakes.

- for info - see below the list of f/w invertebrates found -- one or two remain to be checked.

Standard 3-minute pondnet kick sample

Site c.10m d/str of Larinier fish pass on side channel upstream of mill.

BMWP Scoring taxa (bold) - 19 or 20 (extra beetle awaits check)

* 'Riverfly' invertebrate group

Numbers in sample ()

Nematoda (3)

Flatworms/**Planaridae** - Polycelis sp (54)

Worms/**Oligochaeta** (2)

Leeches

Glossiphonidae - G. complanata (1)

Piscicolidae - P. geometra (1)

Snails

Lymnaidae - Radix peregra (4)

Planorbidae - Planorbis vortex (1)

Crustacea

*Shrimps/**Gammaridae spp** (104)

Hoglouse/**Asellus spp** (4)

Mayflies/Ephemeroptera

***Ephemerellidae** - Seratella sp (24)

***Baetidae** spp (122)

Caenidae sp (1)

*Caddisflies/cased caddis

Limnephilidae spp (23)

Goeridae spp (3)

Sericostomatidae - S. personatum (3)

*Caddisflies/uncased caddis

Rhyacophilidae

Rhyacophilidae spp (3)

Agapetus spp (to count)

Hydropsychidae sp (1)

Beetles

Riffle beetles/**Elminthidae**

Elmis aenea larvae(3), adults (6)

other beetle larvae

to check? (small bristly black larvae (4)

Blackflies/Simuliidae

S. ornatum gp larvae (7) pupae (3)

S. vernum gp larvae (3) pupa (1)

S. angustipes/velutinum larvae (2)

S. noelleri larvae (2) empty pupa 1

+65 larvae (unpicked)

Non-biting midges/Chironomidae

orthoclad spp larvae

+ 60 larvae (unpicked)

other Diptera larvae

Ceratopogonidae (2)

Nemotilus (1)

Dicranota (2)