# Glasnamullen Commonage

# 2019 Ecological Survey



**Final Report** 

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## Glasnamullen Commonage

## 2019 Ecological Survey

# 1. Introduction

A baseline habitat condition and ecological survey and habitat management plan was prepared for the Glasnamullen Commonage in 2018<sup>1</sup> and the measures within same underwent screening for Appropriate Assessment<sup>2</sup>.

A Commonage Management group was established for the commonage and the implementation of the management prescriptions in the plan began in 2019.

The management prescriptions in the plan set out to address the impacts highlighted in the report and to ensue that progress is made towards attaining **Favourable status** for the Annex I habitats present on the site – principally **4030 Dry Heath** and **4060 Alpine and Boreal Heath**.

The major negative impacts on these habitats arise from under grazing, lack of active shepherding, lack of vegetation management, and recreational access resulting in localised peat erosion. Self seeding of Sitka spruce and rhododendron in the southern part of the commonage and the encroachment of bracken into grassland areas are also being addressed.

The extent of habitats present within the commonage and their affinities to either Fossitt (Level 3) or Annex I habitats on the Glasnamullen Commonage were mapped as presented on **Figures 1** and **2** (See Appendix 1) and their conservation status was assessed and mapped as shown on **Figure 3** (See Appendix 1). A series of management prescriptions were drawn up for the commonage as detailed in **Table 1** below and mapped on **Figure 4** (See Appendix 1).

# 2. SUAS Vegetation Management Measures

The proposed management measures for the Glasnamullen commonage under SUAS are as follows:

## Year 1 (2019)

- 1. Cut/burn a number of small sections in areas 1 & 2. Cut up to a maximum of 18ha, in sections of approx. 2-3ha in size. These areas should be dispersed around areas 1 & 2 to encourage sheep to spread out more over these areas. Fire control lines, at least 3m wide shall be cut around each section, either by tractor mounted machine or by hand, to ensure these controlled burning areas are contained. This controlled burning will help build up experience among the farmers and in future years they may be able to work with much smaller control lines. Controlled burning may be carried out either in the spring or the autumn (or both) so long as it is within the legal burning season and has the approval of NPWS.
- 2. Cut/mulch a firebreak in area 2 west joining the forestry. Approx. 30m wide area to be cut (400m long X 30m wide = 1.2ha).
- 3. Cut/burn gorse in plot 2 west.
- 4. Spray Bracken in area 11. A number of small areas, totalling up to 2ha, to be trialled in 2019.

<sup>&</sup>lt;sup>1</sup> Wilson, F. (2019). Ecological Baseline Survey prepared for Glasnamullen Commonage as part of the Commonage Management Plan for SUAS. 27th January 2019. Unpublished report for SUAS EIP. <sup>2</sup> Wilson, F. (2019). Report for Screening for Appropriate Assessment for a Commonage Management Plan at Glasnamullen, Roundwood, Co. Wicklow in accordance with the requirements of Article 6(3) of the EU Habitats Directive. 11th February 2019. Unpublished report for SUAS EIP.

## Year 2 (2020)

- 1. Cut or burn a further number of sections in areas 1 & 2 (up to a max of 20ha). Follow the guidelines for year 1 in relation to the size and distribution of controlled burning/cutting areas.
- 2. Control gorse in area 2 by either cutting or burning
- 3. Spray a section in area 11, up to 10ha for bracken during 2020.
- 4. Control the rhododendron and cut out the self-seeded Sitka spruce plants in area 1.

#### Year 3 (2021)

- 1. Cut or burn a further number of sections in areas 1 & 2 (up to a max of 20ha). Follow the guidelines for year 1 in relation to the size and distribution of controlled burning/cutting areas.
- 2. Spray a section in area 11, up to 10ha for bracken during 2021.

#### Year 4 (2022)

- 1. Cut or burn a further number of sections in areas 1 & 2 (up to a max of 20ha). Follow the guidelines for year 1 in relation to the size and distribution of controlled burning/cutting areas.
- 2. Spray a section in area 11, up to 10ha for bracken during 2022.

#### Shepherding

Average time per shepherding: 6 Hours

**No of times sheep are to be shepherded:** 2-3 Times per week from 1<sup>st</sup> May to 30<sup>th</sup> November.

#### Identified objective of the shepherding;

- Sheep are to be kept from straying off the commonage onto surrounding areas.
- Move off sheep from other commonages.
- Monitor sheep health for signs of tick diseases.
- Count numbers of deer grazing the commonage and areas they are grazing.

#### Other works to be carried out for entire commonage

Repair the sheep gathering pen in area 2 in year 1. New wire fence to replace the old one, some new gates, a race and a sorting gate shall be required.

Use feed buckets to encourage more sheep grazing the commonage in the Jan/Feb and the April/May period.

#### Use the feed buckets to move grazing pressure to overgrown areas in Jan/Feb time.

#### **Ecological Assessment**

The commonage was surveyed in November 2019 by Faith Wilson to examine and review the implementation of the proposed measures and make any recommendations regarding same. The observations and recommendations from this visit are set out below.

# 3. 2019 Walkover Survey

# The following observations, comments on same and recommendations on the works completed in 2019 are presented.

#### Bracken control

There has been some bracken control implemented in Area 11 which is great to see as this is one of the main challenges in many upland sites. This was done on 22/08/2019 by spraying from a tractor. A rate of 11 litres of asulox per ha was applied and an area of 2 ha was treated. The results of this will not be clear until the growing season begins in 2020.

#### Observations/Challenges

It was difficult to find a contractor willing to do it. It was difficult to get the tractor & sprayer on to the hill and then the booms of the sprayer were hitting the ground when the tractor went over a hump or into a hole. The booms were also catching the bracken meaning the tractor had to go very slowly.



Plate 1. Bracken control in Area 11 - the tracks from the tractor in the bracken can be clearly seen.

In year 1, the aim was to see if the tractor sprayer was an option at all, and what the issues with it are, so the easier most accessible parts of the hill were chosen for spraying. Hopefully the areas sprayed in 2019 will help open up the heavy bracken areas and that we can move into the more difficult areas as the project progresses.

The browsed bilberry beneath the bracken should begin to show signs of recovery as light levels are increased.

It is great to see a good dense area of bracken had been sprayed. If possible it would be good in 2020 to attempt to target those areas of bracken which are encroaching on or invading dry heath as this is compromising the favourable condition of this Annex I habitat.

## **Firebreaks for controlled burning**

This is the first time that controlled burning has been carried out by upland farmers in County Wicklow and many invaluable lessons were learned in the first year it was implemented as part of SUAS.

The original plan agreed to control burn an area of up to 18ha in sections of 2-3ha in size. To do this, fire breaks were cut around the proposed burning areas on the 14th & 16th February 2019. A flail mulcher on the back of a tractor was used, and two widths of the machine were cut. On the inside of the cut area, it was cut a second time in the opposite direction to the first cut to see what difference that made to the creation of fire breaks and also to the recovery rates.

These firebreaks can be seen in the Bing Maps imagery of the commonage as presented on Figure 1 below.



Figure 1. Firebreaks cut on Glasnamullen Commonage in 2019 (Bing Maps).

The prepared control burning areas were located up towards the top of the commonage to encourage the sheep up away from the hill ditch (on the advice of the farmers who are aware of how their sheep use the hill).

The areas prepared varied in size from 1 to 2ha. As it was the first year of burning on the project, only one area got burnt each day, but with experience, one could expect to do 2 or even 3 sections per

day. If we get 2 suitable days in the year and can do 3 sections in a day that is 6 sections in a year (which is optimistic and probably wouldn't happen every year). The maximum area that should be burnt is 18 ha per year (but note that applies to areas actually requiring burning).

## Observations/Challenges

The project was constrained as to where areas could be prepared for burning by where the tractor could travel, and where the contractor could access the hill from.



Plate 2. Looking south across the Glasnamullen Stream – area prepared for burning on the slope – the lower part of this large area should not be burnt and smaller areas prepared over the brow of the slope...

The cut areas have generally avoided those areas which were previously burnt which is very welcome and were obviously constrained as to where the machine could safely travel and work.

In general the areas prepared for burning may possibly be too large and would allow sheep to remain grazing in them on the regrowth for a long time and possibly not move across the hill? This may not of course be the case but was just an observation based on what had been seen in the large flailed

areas on Powerscourt Paddock where sheep were then tending to congregate. It might be worth seeing if smaller patches of heather in a patchwork are prepared for burning would this encourage sheep to move on more readily as fodder within regenerated areas will be browsed out earlier and the sheep will have to find fresh forage.

The majority of the cut areas appear to have been prepared in and around the valley slopes of the Glasnamullen Stream. It was previously noted that sheep were favouring this area for shelter and that they should be moved out of here. As the prepared areas are burnt this will create a mosaic of areas for the sheep to move through and out of the valley.

No preparation of ground for burning/cutting appears to have yet taken place towards the Ballinastoe end of the commonage which is where we ultimately want sheep to move to. Although the contractor could have kept further out to the west of the site towards Ballinastoe, but there was no one available to bring him out on the day. This area will be mulched in 2020.

It would be advisable that any burning planned for 2020 is limited to very small patches within the areas prepared in 2019 and that additional areas are prepared and burnt to the south and west of here to encourage sheep movement across the commonage.

I would have concerns about the preparation of an area for burning on the slopes of the watercourse as if a controlled burn got out of hand here/was too intense resulting in areas of bare peat this could wash into the Glasnamullen Stream and the Vartry River downstream.

#### **Burnt areas**

It was initially unclear to the ecologist as to why the areas where the controlled burning had taken place had been chosen as the heather was not that tall and sheep could move through and graze the area. Other areas that were taller and in need of burning did not appear to have been selected but it is understood that this was a combination of where the machine could travel and this was also to reduce risk of a fire getting out of control with a large fuel loading.

Within the prepared burning areas there was already some good regeneration of ling heather and bilberry within the flailed firebreak.

The burning that was completed within the two areas which were burnt in 2019 was favourable in that not every patch of vegetation within the prepared area had been burnt and some areas of tall standing heather were left. This resulted in a nice mosaic of differing vegetation heights and material was left to provide seed source for regeneration and ensure stability of the soil. It is understood that it actually proved quite difficult to get the fire established but there are lessons to be learned here in terms of a favourable outcome from burning...

#### Sitka spruce removal

Sitka spruce removal from within the commonage will take place in 2020.

#### Rhododendron control

Rhododendron removal from within the commonage will take place in 2020.



Plate 3. Regeneration of ling heather and bilberry within the flailed firebreak.



Plate 4. Patches of unburnt vegetation in the controlled burn area – this is a good outcome of burning as a diversity of vegetation heights and ages have been achieved resulting in a good structural mosaic of grazing habitat.



Plate 5. Flailed areas in preparation for burning.

4. Appendix 1. Maps & Management Recommendations



Figure 1. Habitats mapped to Level Three (Fossitt, 2000) within the Glasnamullen commonage.



Figure 2. Habitats mapped according to their correspondence with Annex I habitats within the Glasnamullen commonage.



Figure 3. Habitat Condition Assessment for Glasnamullen Commonage.



Figure 4. Management measures for Glasnamullen.

| Id | Annex I<br>Code | Fossitt Code | Conservation Status               | Habitat                             | Area (m<br>Sq) | Area<br>(hectares) | Management Measure   |
|----|-----------------|--------------|-----------------------------------|-------------------------------------|----------------|--------------------|--|
| 1  | 4030            | HH1          | Unfavourable - Inadequate         | Dry Heath                           | 1201285        | 120.13             | Controlled burning measures as detailed above. Removal of Sitka spruce and rhododendron regeneration.  |
| 2  | 4030            | HH1          | Unfavourable - Inadequate         | Dry Heath                           | 669959         | 67.00              | Controlled burning measures as detailed above.   |
| 3  | 7130            | PB2          | Favourable                        | Upland Blanket Bog                  | 598            | 0.06               | Monitor grazing and sheep movements to keep in good condition.   |
| 4  | 7130            | PB2          | Favourable                        | Upland Blanket Bog                  | 65059          | 6.51               | Monitor grazing and sheep movements to keep in good condition.   |
| 5  | 3160            | FL1          | Favourable                        | Bog Pool                            | 1117           | 0.11               | Monitor grazing and sheep movements to keep in good condition.   |
| 6  | 7130            | PB2          | Favourable                        | Upland Blanket Bog                  | 24676          | 2.47               | Monitor grazing and sheep movements to keep in good condition.   |
| 7  |                 | HD1          | Not assessed but needs management | Dense Bracken                       | 16654          | 1.67               | Control bracken.   |
| 8  |                 | HD1          | Not assessed but needs management | Dense Bracken                       | 2955           | 0.30               | Control bracken.   |
| 9  | 4030            | HH1/GS3/HD1  | Unfavourable - Inadequate         | Dry Heath/Acid<br>grassland/Bracken | 83534          | 8.35               | Monitor grazing and sheep movements.<br>Control bracken.   |
| 10 |                 | WS1          | Retained for breeding birds       | Gorse Scrub                         | 1973           | 0.20               | No measures required.  |
| 11 |                 | HD1          | Not assessed but needs management | Dense Bracken                       | 51663          | 5.17               | Control bracken.   |
| 12 |                 | HH3/PF2/GS4  | Unfavourable - Inadequate         | Wet<br>Heath/Flush/Wet<br>Grassland | 103105         | 10.31              | Monitor grazing and sheep movements. Move sheep out of this area<br>where they tend to congregate.   |
| 13 | 4060            | HH4          | Unfavourable - Bad                | Montane Heath                       | 251955         | 25.20              | Restoration work to the walking path.  |
| 14 | 4030            | HH1          | Unfavourable - Inadequate         | Dry Heath                           | 982            | 0.10               | Very small area – monitor.   |
| 15 |                 | HD1          | Not assessed but needs management | Dense Bracken                       | 14494          | 1.45               | Control bracken.   |
| 16 |                 | HH1/GS3/HD1  | Unfavourable - Inadequate         | Dry Heath/Acid<br>grassland/Bracken | 55680          | 5.57               | Monitor grazing and sheep movements. Move sheep out of this area<br>where they tend to congregate.<br>Control bracken.                         |
| 17 | 4030            | HH1/GS3      | Unfavourable - Inadequate         | Dry Heath/Acid<br>grassland         | 238734         | 23.87              | Monitor grazing and sheep movements. Move sheep out of this area<br>where they tend to congregate.<br>Monitor erosion along the walking track. |
| 18 | 4030            | HH1          | Favourable                        | Dry Heath                           | 116876         | 11.69              | Monitor grazing and sheep movements. Move sheep out of this area if it begins to get overgrazed.   |

# Table 1. Habitats present on Glasnamullen Commonage and Management Recommendations.

# 5. Appendix 2. Water Quality

Water samples were taken in the Glasnamullen Stream in February 2019 at two sampling locations as shown on **Figure 5** below. The water samples were assessed by Carl Dixon and the Glasnamullen Stream was assessed at both the downstream and upstream sampling points (GM1 and GM2) as a stream at risk of not achieving 'Good' water quality status.

The Small Streams Risk Score (SSRS) is a biological risk assessment system for identifying rivers that are definitely 'at risk' of failing to achieve the 'good' water quality status goals of the Water Framework Directive (WFD). It was developed by the Environmental Protection Agency (EPA) in association with the Western River Basin District (WRBD) in 2006. The main aim of the SSRS is to support the programme of measures for the WFD, which has its main objective to achieve 'good' water quality status in all water bodies by 2020.



Figure 5. Water quality sample locations at Glasnamullen.

# SUAS Water Quality Sampling

| River:              | Code:                 | Date:                 | Sample Taken By:   |
|---------------------|-----------------------|-----------------------|--------------------|
| Glasnamullen Stream | IE_EA_10V010050       | 22/02/2019            | Faith Wilson       |
|                     |                       |                       |                    |
| Sample Number:      | Location:             | Stream Order:         | Grid Reference:    |
| GM1                 | Glasnamullen          | 2 <sup>nd</sup> order | O 19193 09621      |
|                     | Commonage – just      |                       |                    |
|                     | above the oak tree    |                       |                    |
|                     |                       |                       |                    |
| Velocity:           | Clarity:              | Colour:               | Discharge:         |
| Torrential          | Very clear            | None                  | Flood              |
| Fast                | Clear                 | Slight                | Normal             |
| Moderate            | Slightly turbid       | Moderate              | Low                |
| Slow                | Highly turbid         | High                  | Very low           |
| Very Slow           |                       |                       | Dry                |
|                     |                       |                       | Recent flood       |
|                     |                       |                       |                    |
| Modifications: Y/N  | Dominant Types:       | Slope:                | Geology:           |
| Canalised           | Bedrock               | Low                   | Calcareous         |
| Widened             | Boulder (>128mm)      | Medium                | Siliceous          |
| Bank erosion        | Cobble (32 - 128mm)   | High                  | Mixed              |
| Arterial drainage   | Gravel (8 – 32mm)     | Very high             |                    |
|                     | Fine gravel (2 - 8mm) |                       |                    |
|                     | Sand (0.25mm – 2mm)   |                       |                    |
|                     | Silt (<0.25mm)        |                       |                    |
|                     |                       |                       |                    |
| Substratum          | Substratum:           | Degree of Siltation:  | Depth of Mud:      |
| Condition:          |                       |                       | -                  |
| Compacted           | Stoney bottom         | Clean                 | None               |
| Loose               | Muddy bottom          | Slight                | <1cm               |
| Normal              | Mud over stones       | Moderate              | 1-5cm              |
|                     |                       | Heavy                 | 5-10cm             |
|                     |                       |                       | >10cm              |
|                     |                       |                       |                    |
| Litter:             | Filamentous Algae:    | Stream Flow:          | Shading:           |
| None                | None                  | Riffle                | High               |
| Present             | Present               | Riffle/glide          | Moderate           |
| Moderate            | Moderate              | Slow flow             | Low                |
| Abundant            | Abundant              |                       | None               |
|                     |                       |                       |                    |
| Stock Access:       | Sewage Fungus:        | Sample Type           | Main Land Use      |
|                     |                       | (Mins):               | Adjacent/Upstream: |
| Sheep               | None                  | Kick sample - 2       | Pasture            |
| Deer                | Present               | Stone washing - 1     | Bog                |
|                     | Moderate              | Weed sweep            | Forestry           |
|                     | Abundant              | •                     | Tillage            |
|                     |                       |                       | Urban              |
|                     |                       |                       | Other              |
|                     |                       |                       |                    |



Plate 1. Photographic record of sampling location.

Fm 1

| Kiver:  |  | coue:   | Date  | E1   | I HIIC:   |   |            |
|---|--|---|---|--|---|---|------------|
| Station no.   | States and states  | Location:   |   | and the second second  | Grid (6 figure):  |   | -          |
|   |  | Stream Ord  | lor:  |  | Stream flow:  |   |            |
| 5.00  | and allow  | Stream one  | STREET,   |  | Riffle  |   |            |
| DOR6  | emistry  | Piodifications:   | : 1/N Canaliseo-w   | Koened-bank erosion-   | Riffie/Glide  |   |            |
| DO mo/l   |  | DominantTyp   | NEST:   |  | SIOW TIOW   |   | -          |
| Temp (*C)   |  | Bedrock   |   |  |   |   | _          |
| Conductivity  |  | Boulder (>128m  | 1177)   |  |   |   |            |
| pH  |  | Gravel (8-32-128)   | nm)   |  |   |   |            |
| Bank width (om)   |  | Fine Gravel (2-8  | (mm)  |  |   |   | -          |
| Wet width (cm)  |  | - Sand (0.25-2mm  | n)  |  |   | 1   |            |
| Aug Depth (cm)  |  | sit ( <u.zsmm)< td=""><td></td><td></td><td></td><td></td><td>_</td></u.zsmm)<>   |   |  |   |   | _          |
| Staff gauge   |  | Slope: Low - M  | ledium – High – V   | Very High  | Shading: Hoh - Mod  | ante - Low- S   | -          |
| Velocity  | Colour   | Geology: Calca  | neous-Silceous-M  | fined  | A CONTRACTOR OF THE OWNER   | concer com m  | No.        |
| Torrential  | None   | Substratum Co   | ondition: Calcare   | eous-Compacted-  | Cattle access Y: upst   | nsam - downstr  | ream.      |
| Moderate  | Signe  | Loose - Normal  |   |  | and the state of the state  |   |            |
| Slow  | High   | Substratum  |   | and the second second  | Dhut w V / M  |   | _          |
| Very slow   |  | Sioney bottom-a   | NUCRY DOCENT-ML   | ad over stones   | Photo: T/ N   |   |            |
| Clarity   | Discharge  | Degree of silta   | ition: Cean-Sigh  | e-Moderate-Heavy   |   |   |            |
| Very clear  | Filood   | Depth of mud:   | None: <1cm: 1-  | 5cm: 5-10cm: >10cm   |   |   |            |
| Oear  | Normal   | Litter: None - P  | resent - Moderat  | te - Abundant  |   |   |            |
| -   |  | Filamentous A   | loae:   |  | Sewane Fundator   |   | -          |
| slightly turbid   | Low  | None - Present -  | - Moderate - Abur   | ndant  | None - Present - Mode   | rate - Abundari   |            |
| Highly turbid   | Very Low   | Main land use   | u/s:  | Sample   | Sampled in Minutes:   |   | -          |
|   | Dry<br>Person Floor  | Pasture   | Urban   | retained:  | Pondinetix  |   |            |
|   | ABCENC PRODO   | bog   | mage  | 1 2 / 16   | Stone wash v  |   |            |
|   | the state of the s   | POPESTY   | CEPART  |  | where we approve  |   |            |
| Seneral Commen  | its:   | Macroinverte  | brate Comp  | osition  | Weed sweep x  | Relativ   | e          |
| Seneral Commen<br>he macroinventeb<br>Group 1 = E<br>Group 2 = R<br>Group 3 = 1<br>Group 3 = 1  | its:<br>ates are divided into<br>obernaruptera (3-ta<br>ichostera<br>ichostera   | Macroinverte<br>sthe following5 sp<br>ils) - note that tails may  | brate Comp<br>ecific groups<br>smay be damage<br>be damageddur  | osition<br>dduring sampling<br>ing sampling  | Weed sweep x  | Relative<br>Abunda<br>1-5<br>6-20<br>21-50  | e          |
| he macroirivestable<br>Group 1 = E<br>Group 2 = E<br>Group 2 = I<br>Group 4 = G<br>Group 5 = A<br>Calculate the   | Itta:<br>ates: are divided into<br>phemasuptera. (3-tails) -<br>ischoptera.<br>.OL.D. (Gastropoda<br>entitize<br>a total number of tai   | Macroinverte<br>the following5 sp<br>ist) – note that tails<br>note that tails may<br>Oligochesta and D<br>se and relative.abu  | brate Comp<br>ecfic groups<br>may be damage<br>the damageddur<br>iptera)<br>rdance of eachm   | osition<br>Idduring sampling<br>ing sampling   | Weed sweep x  | Relativ<br>Abunda<br>1-5<br>6-20<br>21-50<br>51-100<br>101+   | e          |
| ieneral Commen<br>Group 1 = E<br>Group 2 = E<br>Group 2 = I<br>Group 4 = G<br>Group 5 = A<br>Calculate th<br>phomeroptera   | Ites<br>Intes are divided into<br>photosacotesa (3-tails) -<br>schanosa<br>cotto (2-tails) -<br>schanosa<br>cotto (1)<br>cotto (1)<br>cot   | Macroinverte<br>the following S up<br>in the following S up<br>of the statule<br>note that tails may<br>Oligochema and D<br>to and relative abu   | brate Comp<br>edite groups<br>may be damage<br>be damageddur<br>ptera)<br>rdance of eachm<br>gleco  | esition<br>dduring sampling<br>ing sampling<br>nacroinvertabrate grou<br>oterae  | Weed sweep x  | Relative<br>Abunda<br>1-5<br>6-20<br>21-50<br>51-100<br>101+  | e          |
| leneral Commen<br>Group 1 = B<br>Group 2 = B<br>Group 2 = B<br>Group 4 = G<br>Group 5 = A<br>Calculate th<br>phomeropiteca  | Ites:<br>rates: are divided into<br>photomotores: (1-a-is)-<br>schooters:<br>discoters: (2-a-is)-<br>schooters:<br>areillar<br>tribut<br>reillar<br>tribut<br>momber of tac  | Macroinverte<br>to the following 5 sp<br>in) - note that tails may<br>Oligochera and D<br>so and relative abu<br>Enthonourus Ab   | brate Comp<br>echc groups<br>may be damage<br>be damageddur<br>(para)<br>rdance of eachm<br>Pieco   | esition<br>diduring sampling<br>ing sampling<br>nacroinvertebrate grou<br>piterar  | weed sweep x  | Relative<br>Abunda<br>1-5<br>6-20<br>21-50<br>50-100<br>101+<br><i>Leuctra Ab</i>   | e          |
| Internal Comment<br>Group 1 = E<br>Group 2 = E<br>Group 2 = E<br>Group 4 = C<br>Group 5 = A   | Hts:<br>Pates are divided reso<br>phomesoptera (3-tail)-<br>iscoptera (3-tail)   | Macroinvertel<br>othe followingS sp<br>int) - note thatsall<br>note that tails may<br>Olgochesta, and D<br>na and relative abu<br><u>Stationuster Ab</u><br><u>Richtmann Ab</u>   | brate Comp<br>edic groups<br>may be damage<br>be damagedour<br>(para)<br>ndance of eachm<br>Plecos  | osition<br>Idduring sampling<br>Ing sampling<br>Ing convertabrate grou<br>pterar   | weed sweep x  | Relative<br>Abunda<br>1-5<br>6-20<br>21-50<br>51-100<br>101+<br>Leuctia Ab<br>Jaconela Ab   | e<br>100   |
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| Seneral Commen<br>Seneral Commen<br>Group 1 = E<br>Group 2 = D<br>Group 4 = G<br>Group 4 = G<br>Group 4 = G<br>Group 4 = G<br>Group 5 = G<br>G<br>G<br>G<br>G<br>G<br>G<br>G<br>G<br>G<br>G<br>G<br>G<br>G | Ites:  | Macroinverte<br>the following 5 pp<br>inia - note chartals<br>more chartals may<br>Oligocheata and<br><i>Dis and relative abu</i><br><i>Stationnust Ab</i><br><i>Rhithapagena Ab</i><br><i>Alextagena Ab</i><br><i>Geosir Ab</i><br><i>Geo</i>  | brate Comp<br>edit groups<br>may be damage<br>be damageddur<br>ptera)<br>rdance of eachm<br>ptera)<br>Pleco<br>Dr Lottal (<br><u>Bitamagy</u><br><u>Biand</u>   | esition<br>dduring sampling<br>ing sampling<br>racroinvertabrate gro-<br>ptera:  | Weed sweep x<br>Weed sweep x<br>up below: (Abundance – Al<br>Br<br><u>Anu</u><br>Oct<br>Chronomides (D) Ab<br><u>Chronomides (D) Ab</u><br><u>Smultides (D) Ab</u>  | Relativ<br>Abunda<br>1-5<br>6-20<br>21-50<br>51-100<br>101+<br><i>Leuctra Ab</i><br><i>Based Ab</i><br><i>Ab</i><br><i>Based Ab</i><br><i>Based Ab</i><br><i>Based</i> |            |
| Total no. of taxo   | Intes are divided into<br>photospetag. D-to<br>ischoore (2-tails)-<br>ischoore (2-tails)-<br>ischo   | Macroinvert el<br>sthe following 5 sp<br>isl) – note that talls<br>note that talls<br>conte that talls<br>conte that talls<br>conte that talls<br>conte that talls<br>context<br>statisconstant<br>Allocate<br>the Allocate<br>Allocate<br>the Allocate<br>Allocate<br>the Allocate<br>Allocate<br>the Allocate<br>Allocate<br>Allocate<br>the Allocate<br>Allocate<br>Allocate<br>Allocate<br>Allocate<br>Allocate<br>Allocate<br>Allocate<br>Allocate<br>Allocate<br>Allocate<br>Allocate<br>Allocate<br>Allocate<br>Allocate<br>Allocate<br>Allocate<br>Allocate<br>Allocate<br>Allocate<br>Allocate<br>Allocate<br>Allocate<br>Allocate<br>Allocate<br>Allocate<br>Allocate<br>Allocate<br>Allocate<br>Allocate<br>Allocate<br>Allocate<br>Allocate<br>Allocate<br>Allocate<br>Allocate<br>Allocate<br>Allocate<br>Allocate<br>Allocate<br>Allocate<br>Allocate<br>Allocate<br>Allocate<br>Allocate<br>Allocate<br>Allocate<br>Allocate<br>Allocate<br>Allocate<br>Allocate<br>Allocate<br>Allocate<br>Allocate<br>Allocate<br>Allocate<br>Allocate<br>Allocate<br>Allocate<br>Allocate<br>Allocate<br>Allocate<br>Allocate<br>Allocate<br>Allocate<br>Allocate<br>Allocate<br>Allocate<br>Allocate<br>Allocate<br>Allocate<br>Allocate<br>Allocate<br>Allocate<br>Allocate<br>Allocate<br>Allocate<br>Allocate<br>Allocate<br>Allocate<br>Allocate<br>Allocate<br>Allocate<br>Allocate<br>Allocate<br>Allocate<br>Allocate<br>Allocate<br>Allocate<br>Allocate<br>Allocate<br>Allocate<br>Allocate<br>Allocate<br>Allocate<br>Allocate<br>Allocate<br>Allocate<br>Allocate<br>Allocate<br>Allocate<br>Allocate<br>Allocate<br>Allocate<br>Allocate<br>Allocate<br>Allocate<br>Allocate<br>Allocate<br>Allocate<br>Allocate<br>Allocate<br>Allocate<br>Allocate<br>Allocate<br>Allocate<br>Allocate<br>Allocate<br>Allocate<br>Allocate<br>Allocate<br>Allocate<br>Allocate<br>Allocate<br>Allocate<br>Allocate<br>Allocate<br>Allocate<br>Allocate<br>Allocate<br>Allocate<br>Allocate<br>Allocate<br>Allocate<br>Allocate<br>Allocate<br>Allocate<br>Allocate<br>Allocate<br>Allocate<br>Allocate<br>Allocate<br>Allocate<br>Allocate<br>Allocate<br>Allocate<br>Allocate<br>Allocate<br>Allocate<br>Allocate<br>Allocate<br>Allocate<br>Allocate<br>Allocate<br>Allocate<br>Allocate<br>Allocate<br>Allocate<br>Allocate<br>Allocate<br>Allocate<br>Allocate<br>Allocate<br>Allocate<br>Allocate<br>Allocate<br>Allocate<br>Allocate<br>Allocate<br>Allocate<br>Allocate<br>Allocate<br>Allocate<br>Allocate<br>Allocate<br>A  | brate Comp<br>edit groups<br>may be damage down<br>poera)<br>relance of eachm<br>Plecos<br>D: Listica<br>Batamagay<br>Batamagay<br>Children   | no. of Taxa<br>m(G)Ab<br>tar(G)Ab<br>tar(G)Ab  | weed sweep x<br>Weed sweep x<br>up below: (Abundance – Al<br>Bra<br>Anu<br>Orl<br>Orl<br>Orl<br>Orl<br>Orl<br>Orl<br>Orl<br>Orl   | Relativ<br>Abunda<br>1-50<br>5-20<br>51-50<br>51-10<br>101+<br>))<br>Leuctru Ab<br>Baneda Ab<br>Staneburg Ab<br>Helemurg Ab  |            |
| Ieneral Commen<br>Seneral Commen<br>Group 1 = E<br>Group 3 = I<br>Group 4 = C<br>Group 4 = C<br>Group 4 = C<br>Group 4 = C<br>Group 5 = A<br>Calculate th<br>phemeropheras<br>Total no. of taxa   | Ites:  | Macroinvert el<br>the following 5 sp<br>in) - note that talls<br>note that talls may<br>Cligochera and D<br>sta and relative abu<br>Estivonust Ab<br>Alexagenin Ab<br>Celebit Ab  | brate Comp<br>ecfic groups<br>may be damage<br>be damageddur<br>poera)<br>rdance of eachm<br>Piecos<br>Discussion<br>Discussion<br>Botamagage<br>Alacti<br>Botamagage<br>Alacti<br>Botamagage<br>Alacti<br>Botamagage   | esition<br>dduring sampling<br>ing sampling<br>sarctinvertebrate gro-<br>gitera:   | Weed sweep x<br>Weed sweep x<br>up below: (Abundance – Al<br>Any<br>Any<br>Oct<br>Total Relative<br>Chicocomdes (D) Ab<br>Simulicite (D) Ab<br>Simulicite (D) Ab<br>Tatalicae (D) Ab  | Relative<br>Abunda<br>1-5<br>6-20<br>51-100<br>101+<br>))<br>Leuctra Ab<br>Economica Ab<br>formenuca Ab<br>Fiscia Ab<br>Relata Ab<br>Relata Ab<br>Relata Ab<br>Abundiance<br>Asse<br>Asse<br>Fire (1-20<br>Common<br>(>20   |            |
| Seneral Commen<br>Seneral Commen<br>Group 1 = E<br>Group 2 = I<br>Group 4 = G<br>Group 4 = G<br>Group 4 = G<br>Group 4 = G<br>Group 5 = G<br>G<br>Group 5 = G<br>G<br>G<br>G<br>G<br>G<br>G<br>G<br>G<br>G<br>G<br>G<br>G<br>G<br>G<br>G<br>G<br>G<br>G  | Ites:  | Macroinverte<br>the following 5 pp<br>init – note chartale<br>more chartale may<br>of gootbars, and phatoman<br><i>Esthomouse ba</i><br><i>Esthomouse ba</i><br><i>Estho</i>  | brate Comp<br>edit groups<br>may be damage<br>be damaged during<br>para)<br>rdance of eaching<br>para)<br>Pleco<br>Dr. Liptica<br>Bitancary<br>Basancary<br>Basancary<br>Basancary<br>Basancary<br>Basancary<br>Basancary<br>Basancary<br>Basancary<br>Basancary<br>Basancary<br>Basancary<br>Basancary<br>Basancary<br>Basancary<br>Basancary<br>Basancary<br>Basancary<br>Basancary<br>Basancary<br>Basancary<br>Basancary<br>Basancary<br>Basancary<br>Basancary<br>Basancary<br>Basancary<br>Basancary<br>Basancary<br>Basancary<br>Basancary<br>Basancary<br>Basancary<br>Basancary<br>Basancary<br>Basancary<br>Basancary<br>Basancary<br>Basancary<br>Basancary<br>Basancary<br>Basancary<br>Basancary<br>Basancary<br>Basancary<br>Basancary<br>Basancary<br>Basancary<br>Basancary<br>Basancary<br>Basancary<br>Basancary<br>Basancary<br>Basancary<br>Basancary<br>Basancary<br>Basancary<br>Basancary<br>Basancary<br>Basancary<br>Basancary<br>Basancary<br>Basancary<br>Basancary<br>Basancary<br>Basancary<br>Basancary<br>Basancary<br>Basancary<br>Basancary<br>Basancary<br>Basancary<br>Basancary<br>Basancary<br>Basancary<br>Basancary<br>Basancary<br>Basancary<br>Basancary<br>Basancary<br>Basancary<br>Basancary<br>Basancary<br>Basancary<br>Basancary<br>Basancary<br>Basancary<br>Basancary<br>Basancary<br>Basancary<br>Basancary<br>Basancary<br>Basancary<br>Basancary<br>Basancary<br>Basancary<br>Basancary<br>Basancary<br>Basancary<br>Basancary<br>Basancary<br>Basancary<br>Basancary<br>Basancary<br>Basancary<br>Basancary<br>Basancary<br>Basancary<br>Basancary<br>Basancary<br>Basancary<br>Basancary<br>Basancary<br>Basancary<br>Basancary<br>Basancary<br>Basancary<br>Basancary<br>Basancary<br>Basancary<br>Basancary<br>Basancary<br>Basancary<br>Basancary<br>Basancary<br>Basancary<br>Basancary<br>Basancary<br>Basancary<br>Basancary<br>Basancary<br>Basancary<br>Basancary<br>Basancary<br>Basancary<br>Basancary<br>Basancary<br>Basancary<br>Basancary<br>Basancary<br>Basancary<br>Basancary<br>Basancary<br>Basancary<br>Basancary<br>Basancary<br>Basancary<br>Basancary<br>Basancary<br>Basancary<br>Basancary<br>Basancary<br>Basancary<br>Basancary<br>Basancary<br>Basancary<br>Basancary<br>Basancary<br>Basancary<br>Basancary<br>Basancary<br>Basancary<br>Basancary<br>Basancary<br>Basancary<br>Basancary<br>Basancary<br>Basancary<br>Basancary<br>Basancary<br>Basancary<br>Basancary<br>Basancary<br>Basancary<br>Basancary<br>Basancary<br>Basancary<br>Basancary<br>Basancary<br>Basancary<br>Basancary<br>Basancary<br>Basancary<br>Basancary<br>Basancary<br>Basancary<br>Basancary<br>Basancary<br>Basancary<br>Basancary<br>Basancary<br>Basancary<br>Basancary<br>Basancary<br>Bas | esition<br>dduring sampling<br>ing sampling<br>racroinvertabrate gro-<br>ptera:<br>(G) Ab<br>(G) (G) Ab<br>(G) (G) Ab<br>(G) Ab<br>(G) (G) Ab<br>(G) (G) (G) (G) (G) (G) (G) (G) (G) (G)   | Weed sweep x<br>Weed sweep x<br>up below: (Abundance – Al<br>Br<br>Anz<br>Oct<br>Chronomides (D) Ab<br>Simulistae (D) Ab<br>Disconser (D) Ab<br>Simulistae (D) Ab<br>Disconser (D) Ab                               | Relativ<br>Abunda<br>1-5<br>6-20<br>21-50<br>51-100<br>101+<br><i>Leuctra Ab</i><br><i>Based Ab</i>           |            |
| Total no. of taxo   | Intes are divided into<br>photospotena D-to<br>ischoorena D-to<br>ischoorena<br>Landiar<br>Bata<br>Bata<br>Bata<br>Bata<br>Bata<br>Bata<br>Bata<br>Ba  | Macroinvertei<br>the following's sp<br>ist) - note that sails<br>more that tails<br>of goodbarra, and D<br>Stationaust Ab<br><u>Stationaust Ab</u><br><u>Stationaust Ab</u><br><u>Statio</u>   | brate Comp<br>edit groups<br>may be damage<br>be damaged during<br>the damage during<br>poera)<br>relance of eaching<br>Plecos<br>Total (<br>D: Listica<br>Rotamageog<br>Rotamageog<br>Rotamageog<br>Rotamageog<br>Rotamageog<br>Rotamageog<br>Rotamageog<br>Rotamageog<br>Rotamageog<br>Rotamageog<br>Rotamageog<br>Rotamageog<br>Rotamageog<br>Rotamageog<br>Rotamageog<br>Rotamageog<br>Rotamageog<br>Rotamageog<br>Rotamageog<br>Rotamageog<br>Rotamageog<br>Rotamageog<br>Rotamageog<br>Rotamageog<br>Rotamageog<br>Rotamageog<br>Rotamageog<br>Rotamageog<br>Rotamageog<br>Rotamageog<br>Rotamageog<br>Rotamageog<br>Rotamageog<br>Rotamageog<br>Rotamageog<br>Rotamageog<br>Rotamageog<br>Rotamageog<br>Rotamageog<br>Rotamageog<br>Rotamageog<br>Rotamageog<br>Rotamageog<br>Rotamageog<br>Rotamageog<br>Rotamageog<br>Rotamageog<br>Rotamageog<br>Rotamageog<br>Rotamageog<br>Rotamageog<br>Rotamageog<br>Rotamageog<br>Rotamageog<br>Rotamageog<br>Rotamageog<br>Rotamageog<br>Rotamageog<br>Rotamageog<br>Rotamageog<br>Rotamageog<br>Rotamageog<br>Rotamageog<br>Rotamageog<br>Rotamageog<br>Rotamageog<br>Rotamageog<br>Rotamageog<br>Rotamageog<br>Rotamageog<br>Rotamageog<br>Rotamageog<br>Rotamageog<br>Rotamageog<br>Rotamageog<br>Rotamageog<br>Rotamageog<br>Rotamageog<br>Rotamageog<br>Rotamageog<br>Rotamageog<br>Rotamageog<br>Rotamageog<br>Rotamageog<br>Rotamageog<br>Rotamageog<br>Rotamageog<br>Rotamageog<br>Rotamageog<br>Rotamageog<br>Rotamageog<br>Rotamageog<br>Rotamageog<br>Rotamageog<br>Rotamageog<br>Rotamageog<br>Rotamageog<br>Rotamageog<br>Rotamageog<br>Rotamageog<br>Rotamageog<br>Rotamageog<br>Rotamageog<br>Rotamageog<br>Rotamageog<br>Rotamageog<br>Rotamageog<br>Rotamageog<br>Rotamageog<br>Rotamageog<br>Rotamageog<br>Rotamageog<br>Rotamageog<br>Rotamageog<br>Rotamageog<br>Rotamageog<br>Rotamageog<br>Rotamageog<br>Rotamageog<br>Rotamageog<br>Rotamageog<br>Rotamageog<br>Rotamageog<br>Rotamageog<br>Rotamageog<br>Rotamageog<br>Rotamageog<br>Rotamageog<br>Rotamageog<br>Rotamageog<br>Rotamageog<br>Rotamageog<br>Rotamageog<br>Rotamageog<br>Rotamageog<br>Rotamageog<br>Rotamageog<br>Rotamageog<br>Rotamageog<br>Rotamageog<br>Rotamageog<br>Rotamageog<br>Rotamageog<br>Rotamageog<br>Rotamageog<br>Rotamageog<br>Rotamageog<br>Rotamageog<br>Rotamageog<br>Rotamageog<br>Rotamageog<br>Rotamageog<br>Rotamageog<br>Rotamageog<br>Rotamageog<br>Rotamageog<br>Rotamageog<br>Rotamageog<br>Rotamageog<br>Rotamageog<br>Rotamageog<br>Rotamageog<br>Rotamageog<br>Rotamageog<br>Rotamageog<br>Rotamageog<br>Rotamageog<br>Rotamageog<br>Rotamageog<br>Rotamageog<br>Rotamageog<br>Rotamageog<br>Rotamageog<br>Rotamageog<br>Rotamag  | no. of Taxa<br>m(G)Ab<br>at(G)Ab<br>at(G)Ab<br>at(G)Ab<br>at(G)Ab<br>at(G)Ab<br>at(G)Ab<br>at(G)Ab<br>at(G)Ab<br>at(G)Ab<br>at(G)Ab<br>at(G)Ab<br>at(G)Ab<br>at(G)Ab<br>at(G)Ab<br>at(G)Ab<br>at(G)Ab<br>at(G)Ab<br>at(G)Ab<br>at(G)Ab<br>at(G)Ab<br>at(G)Ab<br>at(G)Ab<br>at(G)Ab<br>at(G)Ab<br>at(G)Ab<br>at(G)Ab<br>at(G)Ab<br>at(G)Ab<br>at(G)Ab<br>at(G)Ab<br>at(G)Ab<br>at(G)Ab<br>at(G)Ab<br>at(G)Ab<br>at(G)Ab<br>at(G)Ab<br>at(G)Ab<br>at(G)Ab<br>at(G)Ab<br>at(G)Ab<br>at(G)Ab<br>at(G)Ab<br>at(G)Ab<br>at(G)Ab<br>at(G)Ab<br>at(G)Ab<br>at(G)Ab<br>at(G)Ab<br>at(G)Ab<br>at(G)Ab<br>at(G)Ab<br>at(G)Ab<br>at(G)Ab<br>at(G)Ab<br>at(G)Ab<br>at(G)Ab<br>at(G)Ab<br>at(G)Ab<br>at(G)Ab<br>at(G)Ab<br>at(G)Ab<br>at(G)Ab<br>at(G)Ab<br>at(G)Ab<br>at(G)Ab<br>at(G)Ab<br>at(G)Ab<br>at(G)Ab<br>at(G)Ab<br>at(G)Ab<br>at(G)Ab<br>at(G)Ab<br>at(G)Ab<br>at(G)Ab<br>at(G)Ab<br>at(G)Ab<br>at(G)Ab<br>at(G)Ab<br>at(G)Ab<br>at(G)Ab<br>at(G)Ab<br>at(G)Ab<br>at(G)Ab<br>at(G)Ab<br>at(G)Ab<br>at(G)Ab<br>at(G)Ab<br>at(G)Ab<br>at(G)Ab<br>at(G)Ab<br>at(G)Ab<br>at(G)Ab<br>at(G)Ab<br>at(G)Ab<br>at(G)Ab<br>at(G)Ab<br>at(G)Ab<br>at(G)Ab<br>at(G)Ab<br>at(G)Ab<br>at(G)Ab<br>at(G)Ab<br>at(G)Ab<br>at(G)Ab<br>at(G)Ab<br>at(G)Ab<br>at(G)Ab<br>at(G)Ab<br>at(G)Ab<br>at(G)Ab<br>at(G)Ab<br>at(G)Ab<br>at(G)Ab<br>at(G)Ab<br>at(G)Ab<br>at(G)Ab<br>at(G)Ab<br>at(G)Ab<br>at(G)Ab<br>at(G)Ab<br>at(G)Ab<br>at(G)Ab<br>at(G)Ab<br>at(G)Ab<br>at(G)Ab<br>at(G)Ab<br>at(G)Ab<br>at(G)Ab<br>at(G)Ab<br>at(G)Ab<br>at(G)Ab<br>at(G)Ab<br>at(G)Ab<br>at(G)Ab<br>at(G)Ab<br>at(G)Ab<br>at(G)Ab<br>at(G)Ab<br>at(G)Ab<br>at(G)Ab<br>at(G)Ab<br>at(G)Ab<br>at(G)Ab<br>at(G)Ab<br>at(G)Ab<br>at(G)Ab<br>at(G)Ab<br>at(G)Ab<br>at(G)Ab<br>at(G)Ab<br>at(G)Ab<br>at(G)Ab<br>at(G)Ab<br>at(G)Ab<br>at(G)Ab<br>at(G)Ab<br>at(G)Ab<br>at(G)Ab<br>at(G)Ab<br>at(G)Ab<br>at(G)Ab<br>at(G)Ab<br>at(G)Ab<br>at(G)Ab<br>at(G)Ab<br>at(G)Ab<br>at(G)Ab<br>at(G)Ab<br>at(G)Ab<br>at(G)Ab<br>at(G)Ab<br>at(G)Ab<br>at(G)Ab<br>at(G)Ab<br>at(G)Ab<br>at(G)Ab<br>at(G)Ab<br>at(G)Ab<br>at(G)Ab<br>at(G)Ab<br>at(G)Ab<br>at(G)Ab<br>at(G)Ab<br>at(G)Ab<br>at(G)Ab<br>at(G)Ab<br>at(G)Ab<br>at(G)Ab<br>at(G)Ab<br>at(G)Ab<br>at(G)Ab<br>at(G)Ab<br>at(G)Ab<br>at(G)Ab<br>at(G)Ab<br>at(G)Ab<br>at(G)Ab<br>at(G)Ab<br>at(G)Ab<br>at(G)Ab<br>at(G)Ab<br>at(G)Ab<br>at(G)Ab<br>at(G)Ab<br>at(G)Ab<br>at(G)Ab<br>at(G)Ab<br>at(G)Ab<br>at(G)Ab<br>at(G)Ab<br>at(G)Ab<br>at(G)Ab<br>at(G)Ab<br>at(G)Ab<br>at(G)Ab<br>at(G)Ab<br>at(G)Ab<br>at(G)Ab<br>at(G)Ab<br>at(G)Ab<br>at(G)Ab<br>at(G)Ab<br>at(G)Ab<br>at(G)Ab<br>at(G)Ab | weed sweep x<br>Weed sweep x<br>up below: (Abundance – Al<br>Bra<br>Anu<br>Oel<br>Oth<br>Total Relative<br>Chirosomidae.(D) Ab<br>Simulitale.(D) Ab<br>Discance.(D) Ab<br>Simulitale.(D) Ab<br>Simulitale.(D) Ab<br>Simulitale.(D) Ab   | Relativ<br>Abunda<br>1-5<br>5-20<br>51-100<br>101:+<br>2-20<br>51-100<br>101:+<br>2-20<br>51-100<br>101:+<br>2-20<br>51-100<br>101:+<br>2-20<br>51-100<br>101:+<br>2-20<br>51-100<br>101:+<br>2-20<br>51-100<br>101:+<br>2-20<br>51-100<br>101:+<br>2-20<br>51-100<br>101:+<br>2-20<br>51-100<br>101:+<br>2-20<br>51-100<br>101:+<br>2-20<br>51-100<br>101:+<br>2-20<br>51-100<br>101:+<br>2-20<br>51-100<br>101:+<br>2-20<br>51-100<br>101:+<br>2-20<br>51-100<br>101:+<br>2-20<br>51-100<br>101:+<br>2-20<br>51-100<br>101:+<br>2-20<br>51-100<br>101:+<br>2-20<br>51-100<br>101:+<br>2-20<br>51-100<br>101:+<br>2-20<br>51-100<br>2-20<br>51-100<br>2-20<br>51-100<br>2-20<br>51-100<br>2-20<br>51-100<br>2-20<br>51-100<br>2-20<br>51-100<br>2-20<br>51-100<br>2-20<br>51-100<br>2-20<br>51-100<br>2-20<br>51-100<br>2-20<br>51-100<br>2-20<br>51-100<br>2-20<br>51-100<br>2-20<br>51-100<br>2-20<br>51-100<br>2-20<br>51-100<br>2-20<br>51-100<br>2-20<br>51-100<br>2-20<br>51-100<br>2-20<br>51-100<br>2-20<br>51-100<br>2-20<br>51-100<br>2-20<br>51-100<br>2-20<br>51-100<br>2-20<br>51-100<br>2-20<br>51-100<br>2-20<br>51-100<br>2-20<br>51-100<br>2-20<br>51-100<br>2-20<br>51-100<br>2-20<br>51-100<br>2-20<br>51-100<br>2-20<br>5-20<br>5-20<br>5-20<br>5-20<br>5-20<br>5-20<br>5-   |            |
| Seneral Commen<br>Seneral Commen<br>Group 1 = E<br>Group 3 = I<br>Group 4 = C<br>Group 5 = A<br>Calculare th<br>phemeropheras<br>Total no. of taxo<br>richopteras  | Ites:  | Macroinvert el<br>sthe following 5 sp<br>in) - note that tails may<br>Oligochera and D<br>sta and relative abu<br>Estherapenia Ab<br>Anotagenia Ab<br>Ab<br>Ab<br>Ab<br>Ab<br>Ab<br>Ab<br>Ab<br>Ab  | brate Comp<br>ecfic groups<br>may be damage<br>be damageddur<br>poara)<br>rdance of eachm<br>Piecos<br>De Lottos<br>Bitamagug<br><u>Planad</u><br><u>Ascol</u><br><u>Lumbonh</u><br><u>Discos</u>   | no. of Taxa 3<br>mic(G) Ab<br>tat(G)  | Weed sweep x<br>Weed sweep x<br>up below: (Abundance – Al<br>Anu<br>Anu<br>Oet<br>Chronomides (D) Ab<br>Situations (D) Ab | Relative<br>Abunda<br>1-50<br>5-1-50<br>51-50<br>51-50<br>51-50<br>51-50<br>51-50<br>51-50<br>51-50<br>500000000<br>70000000000000000000000000  |            |
| Seneral Commen<br>Seneral Commen<br>Group 1 = E<br>Group 2 = I<br>Group 4 = G<br>Group 4 = G<br>Group 4 = G<br>Group 5 = G<br>Group 1 = E<br>G<br>Group 1 = E<br>G<br>G<br>G<br>G<br>G<br>G<br>G<br>G<br>G<br>G<br>G<br>G<br>G  | Ites:  | Macroinverte<br>the following 5 pp<br>inla - note chartals<br>mand relative abou<br><u>Estitionumer Ab</u><br><u>Rhitepapone Ab</u><br><u>Alexose Ab</u><br><u>Abb</u><br><u>Abb</u><br><u>Abb</u><br><u>Abb</u><br><u>Abb</u><br><u>Abb</u><br><u>Abb</u><br><u>Abb</u><br><u>Abb</u><br><u>Abb</u><br><u>Abb</u><br><u>Abb</u><br><u>Abb</u><br><u>Abb</u><br><u>Abb</u><br><u>Abb</u><br><u>Abb</u><br><u>Abb</u><br><u>Abb</u><br><u>Abb</u><br><u>Abb</u><br><u>Abb</u><br><u>Abb</u><br><u>Abb</u><br><u>Abb</u><br><u>Abb</u><br><u>Abb</u><br><u>Abb</u><br><u>Abb</u><br><u>Abb</u><br><u>Abb</u><br><u>Abb</u><br><u>Abb</u><br><u>Abb</u><br><u>Abb</u><br><u>Abb</u><br><u>Abb</u><br><u>Abb</u><br><u>Abb</u><br><u>Abb</u><br><u>Abb</u><br><u>Abb</u><br><u>Abb</u><br><u>Abb</u><br><u>Abb</u><br><u>Abb</u><br><u>Abb</u><br><u>Abb</u><br><u>Abb</u><br><u>Abb</u><br><u>Abb</u><br><u>Abb</u><br><u>Abb</u><br><u>Abb</u><br><u>Abb</u><br><u>Abb</u><br><u>Abb</u><br><u>Abb</u><br><u>Abb</u><br><u>Abb</u><br><u>Abb</u><br><u>Abb</u><br><u>Abb</u><br><u>Abb</u><br><u>Abb</u><br><u>Abb</u><br><u>Abb</u><br><u>Abb</u><br><u>Abb</u><br><u>Abb</u><br><u>Abb</u><br><u>Abb</u><br><u>Abb</u><br><u>Abb</u><br><u>Abb</u><br><u>Abb</u><br><u>Abb</u><br><u>Abb</u><br><u>Abb</u><br><u>Abb</u><br><u>Abb</u><br><u>Abb</u><br><u>Abb</u><br><u>Abb</u><br><u>Abb</u><br><u>Abb</u><br><u>Abb</u><br><u>Abb</u><br><u>Abb</u><br><u>Abb</u><br><u>Abb</u><br><u>Abb</u><br><u>Abb</u><br><u>Abb</u><br><u>Abb</u><br><u>Abb</u><br><u>Abb</u><br><u>Abb</u><br><u>Abb</u><br><u>Abb</u><br><u>Abb</u><br><u>Abb</u><br><u>Abb</u><br><u>Abb</u><br><u>Abb</u><br><u>Abb</u><br><u>Abb</u><br><u>Abb</u><br><u>Abb</u><br><u>Abb</u><br><u>Abb</u><br><u>Abb</u><br><u>Abb</u><br><u>Abb</u><br><u>Abb</u><br><u>Abb</u><br><u>Abb</u><br><u>Abb</u><br><u>Abb</u><br><u>Abb</u><br><u>Abb</u><br><u>Abb</u><br><u>Abb</u><br><u>Abb</u><br><u>Abb</u><br><u>Abb</u><br><u>Abb</u><br><u>Abb</u><br><u>Abb</u><br><u>Abb</u><br><u>Abb</u><br><u>Abb</u><br><u>Abb</u><br><u>Abb</u><br><u>Abb</u><br><u>Abb</u><br><u>Abb</u><br><u>Abb</u><br><u>Abb</u><br><u>Abb</u><br><u>Abb</u><br><u>Abb</u><br><u>Abb</u><br><u>Abb</u><br><u>Abb</u><br><u>Abb</u><br><u>Abb</u><br><u>Abb</u><br><u>Abb</u><br><u>Abb</u><br><u>Abb</u><br><u>Abb</u><br><u>Abb</u><br><u>Abb</u><br><u>Abb</u><br><u>Abb</u><br><u>Abb</u><br><u>Abb</u><br><u>Abb</u><br><u>Abb</u><br><u>Abb</u><br><u>Abb</u><br><u>Abb</u><br><u>Abb</u><br><u>Abb</u><br><u>Abb</u><br><u>Abb</u><br><u>Abb</u><br><u>Abb</u><br><u>Abb</u><br><u>Abb</u><br><u>Abb</u><br><u>Abb</u><br><u>Abb</u><br><u>Abb</u><br><u>Abb</u><br><u>Abb</u><br><u>Abb</u><br><u>Abb</u><br><u>Abb</u><br><u>Abb</u><br><u>Abb</u><br><u>Abb</u><br><u>Abb</u><br><u>Abb</u><br><u>Abb</u><br><u>Abb</u><br><u>Abb</u><br><u>Abb</u><br><u>Abb</u><br><u>Abb</u><br><u>Abb</u><br><u>Abb</u><br><u>Abb</u><br><u>Abb</u><br><u>Abb</u><br><u>Abb</u><br><u>Abb</u><br><u>Abb</u><br><u>Abb</u><br><u>Abb</u><br><u>Abb</u><br><u>Abb</u><br><u>Abb</u><br><u>Abb</u><br><u>Abb</u><br><u>Abb</u><br><u>Abb</u><br><u>Abb</u><br><u>Abb</u><br><u>Abb</u><br><u>Abb</u><br><u>Abb</u><br><u>Abb</u><br><u>Abb</u><br><u>Abb</u><br><u>Abb</u><br><u>Abb</u><br><u>Abb</u><br><u>Abb</u><br><u>Abb</u><br><u>Abb</u><br><u>Abb</u><br><u>Abb</u><br><u>Abb</u><br><u>Abb</u><br><u>Abb</u><br><u>Abb</u><br><u>Abb</u><br><u>Abb</u><br><u>Abb</u><br><u>Abb</u><br><u>Abb</u><br><u>Abb</u><br><u>Abb</u><br><u>Abb</u><br><u>Abb</u><br><u>Abb</u><br><u>Abb</u><br><u>Abb</u><br><u>Abb</u><br><u>Abb</u><br><u>Abb</u><br><u>Abb</u><br><u>Abb</u><br><u>Abb</u><br><u>Abb</u><br><u>Abb</u><br><u>Abb</u><br><u>Abb</u><br><u></u> | brate Comp<br>edit groups<br>may be damage<br>be damaged but<br>pears)<br>relance of each<br>pears)<br>dance of each<br>pears)<br>Pleco<br>Dr. Lotte<br>Batamagug<br>Batamagug<br>Batamagug<br>Batamagug<br>Batamagug<br>Batamagug<br>Batamagug<br>Batamagug<br>Batamagug<br>Batamagug<br>Batamagug<br>Batamagug<br>Batamagug<br>Batamagug<br>Batamagug<br>Batamagug<br>Batamagug<br>Batamagug<br>Batamagug<br>Batamagug<br>Batamagug<br>Batamagug<br>Batamagug<br>Batamagug<br>Batamagug<br>Batamagug<br>Batamagug<br>Batamagug<br>Batamagug<br>Batamagug<br>Batamagug<br>Batamagug<br>Batamagug<br>Batamagug<br>Batamagug<br>Batamagug<br>Batamagug<br>Batamagug<br>Batamagug<br>Batamagug<br>Batamagug<br>Batamagug<br>Batamagug<br>Batamagug<br>Batamagug<br>Batamagug<br>Batamagug<br>Batamagug<br>Batamagug<br>Batamagug<br>Batamagug<br>Batamagug<br>Batamagug<br>Batamagug<br>Batamagug<br>Batamagug<br>Batamagug<br>Batamagug<br>Batamagug<br>Batamagug<br>Batamagug<br>Batamagug<br>Batamagug<br>Batamagug<br>Batamagug<br>Batamagug<br>Batamagug<br>Batamagug<br>Batamagug<br>Batamagug<br>Batamagug<br>Batamagug<br>Batamagug<br>Batamagug<br>Batamagug<br>Batamagug<br>Batamagug<br>Batamagug<br>Batamagug<br>Batamagug<br>Batamagug<br>Batamagug<br>Batamagug<br>Batamagug<br>Batamagug<br>Batamagug<br>Batamagug<br>Batamagug<br>Batamagug<br>Batamagug<br>Batamagug<br>Batamagug<br>Batamagug<br>Batamagug<br>Batamagug<br>Batamagug<br>Batamagug<br>Batamagug<br>Batamagug<br>Batamagug<br>Batamagug<br>Batamagug<br>Batamagug<br>Batamagug<br>Batamagug<br>Batamagug<br>Batamagug<br>Batamagug<br>Batamagug<br>Batamagug<br>Batamagug<br>Batamagug<br>Batamagug<br>Batamagug<br>Batamagug<br>Batamagug<br>Batamagug<br>Batamagug<br>Batamagug<br>Batamagug<br>Batamagug<br>Batamagug<br>Batamagug<br>Batamagug<br>Batamagug<br>Batamagug<br>Batamagug<br>Batamagug<br>Batamagug<br>Batamagug<br>Batamagug<br>Batamagug<br>Batamagug<br>Batamagug<br>Batamagug<br>Batamagug<br>Batamagug<br>Batamagug<br>Batamagug<br>Batamagug<br>Batamagug<br>Batamagug<br>Batamagug<br>Batamagug<br>Batamagug<br>Batamagug<br>Batamagug<br>Batamagug<br>Batamagug<br>Batamagug<br>Batamagug<br>Batamagug<br>Batamagug<br>Batamagug<br>Batamagug<br>Batamagug<br>Batamagug<br>Batamagug<br>Batamagug<br>Batamagug<br>Batamagug<br>Batamagug<br>Batamagug<br>Batamagug<br>Batamagug<br>Batamagug<br>Batamagug<br>Batamagug<br>Batamagug<br>Batamagug<br>Batamagug<br>Batamagug<br>Batamagug<br>Batamagug<br>Batamagug<br>Batamagug<br>Batamagug<br>Batamagug<br>Batamagug<br>Batamagug<br>Batamagug<br>Batamagug<br>Batamagug<br>Batamagug<br>Batamagug<br>Batamagug<br>Batamagug<br>Batamagug<br>Batamagug<br>Batamagug<br>Batamagug<br>Batamagug<br>Batamag | esition<br>dduring sampling<br>ing sampling<br>racroinvertabrate gro-<br>ptera:<br>m(G) Ab<br>tar(G)   | Weed sweep x<br>Weed sweep x<br>up below: (Abundance – Al<br>Br<br>Am<br>Oct<br>Oct<br>Chronomides (D) Ab<br>Simulidae (D) Ab<br>Accance (D) Ab<br>Simulidae (D) Ab<br>Accance (D) Ab<br>Chronomides (D) Ab   | Relativ<br>Abunda<br>1-5<br>6-20<br>21-50<br>51-100<br>101+<br><i>Leuctra Ab</i><br><i>Based Ab}</i><br><i>Based Ab</i><br><i>Based Aba</i>         | e<br>smoot |

NOTE Bactis is an Ephemeropteran and is the most commonly occurring invertebrate genus in streams in Ireland. It is vital that Bactis is not counted in SSRS. See Appendix B for more details on how to identify Bactis.

Strong odder

Gm 1



Step.1. Calculate the Index Score by circling the appropriate box representing the total number of taxa and the total abundance calculated from *each macroinvertebrate group* calculated from page 1 of the recording sheet and enter in to the boxes in Step 2.

| River:              | Code:                  | Date:                 | Sample Taken By:   |
|---------------------|------------------------|-----------------------|--------------------|
| Glasnamullen Stream | IE EA 10V010050        | 22/02/2019            | Faith Wilson       |
|                     |                        |                       |                    |
| Sample Number:      | Location:              | Stream Order:         | Grid Reference:    |
| GM2                 | Glasnamullen           | 2 <sup>nd</sup> order | O 18643 09762      |
|                     | Commonage – just       |                       |                    |
|                     | below the confluence   |                       |                    |
|                     |                        |                       |                    |
| Velocity:           | Clarity:               | Colour:               | Discharge:         |
| Torrential          | Very clear             | None                  | Flood              |
| Fast                | Clear                  | Slight                | Normal             |
| Moderate            | Slightly turbid        | Moderate              | Low                |
| Slow                | Highly turbid          | High                  | Very low           |
| Very Slow           |                        |                       | Dry                |
|                     |                        |                       | Recent flood       |
|                     |                        |                       |                    |
| Modifications: Y/N  | <b>Dominant Types:</b> | Slope:                | Geology:           |
| Canalised           | Bedrock                | Low                   | Calcareous         |
| Widened             | Boulder (>128mm)       | Medium                | Siliceous          |
| Bank erosion        | Cobble (32 - 128mm)    | High                  | Mixed              |
| Arterial drainage   | Gravel (8 – 32mm)      | Very high             |                    |
|                     | Fine gravel (2 - 8mm)  |                       |                    |
|                     | Sand (0.25mm – 2mm)    |                       |                    |
|                     | Silt (<0.25mm)         |                       |                    |
|                     |                        |                       |                    |
| Substratum          | Substratum:            | Degree of Siltation:  | Depth of Mud:      |
| Condition:          |                        |                       |                    |
| Compacted           | Stoney bottom          | Clean                 | None               |
| Loose               | Muddy bottom           | Slight                | <1cm               |
| Normal              | Mud over stones        | Moderate              | 1-5cm              |
|                     |                        | Heavy                 | 5-10cm             |
|                     |                        |                       | >10cm              |
|                     |                        |                       |                    |
| Litter:             | Filamentous Algae:     | Stream Flow:          | Shading:           |
| None                | None                   | Riffle                | High               |
| Present             | Present                | Riffle/glide          | Moderate           |
| Moderate            | Moderate               | Slow flow             | Low                |
| Abundant            | Abundant               |                       | None               |
|                     |                        |                       |                    |
| Stock Access:       | Sewage Fungus:         | Sample Type (Mins):   | Main Land Use      |
|                     |                        |                       | Adjacent/Upstream: |
| Sheep               | None                   | Kick sample - 2       | Pasture            |
| Deer                | Present                | Stone washing - 1     | Bog                |
|                     | Moderate               | Weed sweep            | Forestry           |
|                     | Abundant               |                       | Tillage            |
|                     |                        |                       | Urban              |
|                     |                        |                       | Other              |



Plate 1. Photographic record of sampling location.

Em 2

| Kiver:   |  | COMC:   |  | Mars.  |  | FRIDC.   |   | _   |              |
|--|--|---|--|--|--|--|---|---|--------------|
| Station no.  |  | Location  | n:   |  |  | Grid (6 fig  | are):   |   |              |
|  |  | Stream  | Order:   |  |  | Stream flow:   |   |   | -            |
| Field Ch   | amistry  | Madillent   | County V/N   | Carbles ut   | dama hank arrests  | Riffie   |   |   |              |
| DONE   | 1  | arterial dra  | inace  | Carl and page - the  | Gener-Venice usin  | Class Rom  |   |   |              |
| DO ma/l  |  | Dominan   | Types:   |  |  | SIGN NOW   |   |   | _            |
| Temp (°C)  |  | Bedrock   |  |  |  |  |   |   | -            |
| Port of the  |  | Bouider (>  | 128mm)   |  |  |  |   |   |              |
| conductority   |  | Cobbie (32  | -128mm)  |  |  |  |   |   |              |
| pri  |  | Gravel (8-3   | 2mm)   |  |  |  |   |   | 1.1.1        |
| Bank width (cm)  |  | Fine Grave  | ile-emmy   | N  |  |  |   | 124.71.07   | -            |
| Wet width (cm)   |  | Sit (c0.25  | mm)  |  |  |  |   |   |              |
| Aug Depth (cm)   |  |   |  | -  | and the second second  | 1  |   |   | -            |
| Staff gauge  |  | - Stope: Lov  | v – Mediu  | m – High – Ve  | ery High   | Shadinor Ho  | - Modera  | TH - LOW-N  | 0.04         |
| Velocity   | Colour   | Geology   | Calcarepu  | s-Sliceaus-Mi  | bred   |  | Conserved.  |   |              |
| Torrential   | None   | Substratu   | m Condit   | tion Calcane   | aut Company  | Cattle access  | Y: upstrea  | m - downer  | eam          |
| Fast   | Slight   | Loose - Nor   | mal  |  | nen onriderent.  |  |   |   |              |
| Moderata   | Moderate   | Substratu   |  |  |  | a la construction  |   |   |              |
| Silver   | High   | Stoney both   | torn-Mudd  | ly bottom-Mus  | d over stores  | Photo: Y/ N  | A COLORADO  | U.S. PARA   | 2            |
| Clarity  | Dischasse  | Degree of   | siltation  | Clean-Slight   | Moderate-Heavy   |  |   |   |              |
| Vacy class   | Eloud  | The second second   |  |  |  |  |   |   |              |
| Call Caral   | 1000   | Depthon   | nud: Non   | HE <1071 1-5   | cm: 5-10cm: >10c   | m  |   |   |              |
| Gear   | Nomal  | Litter: Non   | e - Prese  | nt - Moderate  | e - Abundant   |  |   |   |              |
| PERSON IN AND  |  | Filamento   | us Algae   |  |  | Sewage Fund  |   |   |              |
| signoy suicid  | LOW  | None - Pres   | sent - Mox   | derate-Abun  | dant   | None - Present   | -Moderat  | te-Abundant   | -            |
| Highly turbid  | Very Low   | Main land   | use u/si   | 1  | Sample   | Sampled in M   | inutes:   |   | -            |
|  | Dry  | Pasture   |  | Urtain   | retained:  | Pond net x   |   |   |              |
|  | Recent Flood   | Bog   |  | Tillage  | Y/N  | Stone wash y   |   |   |              |
|  | the second s   | Porestry  |  | Other  | A Statistical and  |  |   |   |              |
| Seneral Commen   | its:   | Macroinve<br>o the following  | rtebra<br>S specific   | te Compo   | osition  | Weed sweep x   |   | Relative  | :            |
| General Commen<br>Free macroinvertebr<br>Group 1 = 5<br>Group 2 = 8<br>Group 3 = 1<br>Group 4 = 0  | Hs:<br>Inter are divided into<br>phemanopresa (3-ca<br>accontera,<br>(2-calis)-<br>schaptera,<br>(0-L) (Sestropoda   | Macroinve<br>o the following<br>sits) – note that<br>note that tails<br>ofligocherts a  | rtebra<br>S specific<br>ttals may<br>i may be d<br>and Dipter  | te Compr<br>groups<br>y be damaged<br>famageddurir<br>a)   | dduring sampling<br>ng sampling  | Weed sweep x   |   | Relative<br>Abunda<br>1-5<br>6-20<br>21-50<br>51-100  | ence         |
| Seneral Commen<br>The macroinvertebr<br>Group I = <u>B</u><br>Group 2 = <u>B</u><br>Group 4 = <u>G</u><br>Group 4 = <u>G</u><br>Group 4 = <u>C</u><br>Group 4 = <u>C</u>   | Its:<br>ats: are divided in<br>phemeropresa (3-c)<br>inchaptera,<br>inchaptera,<br>inchaptera,<br>inchaptera,<br>inchaptera,<br>inchaptera,<br>inchaptera,<br>inchaptera,<br>inchaptera,<br>inchaptera,<br>inchaptera,<br>inchaptera,<br>inchaptera,<br>inchaptera,<br>inchaptera,<br>inchaptera,<br>inchaptera,<br>inchaptera,<br>inchaptera,<br>inchaptera,<br>inchaptera,<br>inchaptera,<br>inchaptera,<br>inchaptera,<br>inchaptera,<br>inchaptera,<br>inchaptera,<br>inchaptera,<br>inchaptera,<br>inchaptera,<br>inchaptera,<br>inchaptera,<br>inchaptera,<br>inchaptera,<br>inchaptera,<br>inchaptera,<br>inchaptera,<br>inchaptera,<br>inchaptera,<br>inchaptera,<br>inchaptera,<br>inchaptera,<br>inchaptera,<br>inchaptera,<br>inchaptera,<br>inchaptera,<br>inchaptera,<br>inchaptera,<br>inchaptera,<br>inchaptera,<br>inchaptera,<br>inchaptera,<br>inchaptera,<br>inchaptera,<br>inchaptera,<br>inchaptera,<br>inchaptera,<br>inchaptera,<br>inchaptera,<br>inchaptera,<br>inchaptera,<br>inchaptera,<br>inchaptera,<br>inchaptera,<br>inchaptera,<br>inchaptera,<br>inchaptera,<br>inchaptera,<br>inchaptera,<br>inchaptera,<br>inchaptera,<br>inchaptera,<br>inchaptera,<br>inchaptera,<br>inchaptera,<br>inchaptera,<br>inchaptera,<br>inchaptera,<br>inchaptera,<br>inchaptera,<br>inchaptera,<br>inchaptera,<br>inchaptera,<br>inchaptera,<br>inchaptera,<br>inchaptera,<br>inchaptera,<br>inchaptera,<br>inchaptera,<br>inchaptera,<br>inchaptera,<br>inchaptera,<br>inchaptera,<br>inchaptera,<br>inchaptera,<br>inchaptera,<br>inchaptera,<br>inchaptera,<br>inchaptera,<br>inchaptera,<br>inchaptera,<br>inchaptera,<br>inchaptera,<br>inchaptera,<br>inchaptera,<br>inchaptera,<br>inchaptera,<br>inchaptera,<br>inchaptera,<br>inchaptera,<br>inchaptera,<br>inchaptera,<br>inchaptera,<br>inchaptera,<br>inchaptera,<br>inchaptera,<br>inchaptera,<br>inchaptera,<br>inchaptera,<br>inchaptera,<br>inchaptera,<br>inchaptera,<br>inchaptera,<br>inchaptera,<br>inchaptera,<br>inchaptera,<br>inchaptera,<br>inchaptera,<br>inchaptera,<br>inchaptera,<br>inchaptera,<br>inchaptera,<br>inchaptera,<br>inchaptera,<br>inchaptera,<br>inchaptera,<br>inchaptera,<br>inchaptera,<br>inchaptera,<br>inchaptera,<br>inchaptera,<br>inchaptera,<br>inchaptera,<br>inchaptera,<br>inchaptera,<br>inchaptera,<br>inchaptera,<br>inchaptera,<br>inchaptera,<br>inchaptera,<br>inchaptera,<br>inchaptera,<br>inchaptera,<br>inchaptera   | Macroinve<br>o the following<br>alls) – rota tha<br>nose that tails<br>o Gligochesta a<br>sia and relative  | rtebra<br>5 specific<br>ttalis may<br>may be d<br>and Dipten<br>a abundan  | te Compr<br>groups<br>y be damagad<br>lamagad durir<br>a)<br>ce of eachmi  | osition<br>during sampling<br>ng sampling<br>scroinvertabrate.gr   | Weed sweep x   | nce-Ab)   | Relative<br>Abunda<br>1-5<br>6-20<br>21-50<br>51-100<br>101+  | ence         |
| Seneral Commen<br>The macroinventebr<br>- Group 1 = 5<br>- Group 3 = 1<br>- Group 3 = 1<br>- Group 4 = 0<br>- Group 4 = 0<br>- Galculata the<br>gheomeropticae   | Its:<br>stess are divided in<br>obsensecopies (3-to<br>iscoperes, (2-to its)-<br>schoperes,<br>coll-D (Sessecopoda<br>settur<br>estur<br>to total number of to   | Macroinve<br>o the following<br>alls) - rota tha<br>robe that tails<br>of Gigochesta a<br>coa and relative<br>Extheorunat   | rtebra<br>5 specific<br>ttali may<br>imay be d<br>ind Dipter<br>e abundan<br>Ab  | te Compo<br>groups<br>y be damaged<br>lamaged<br>during<br>a)<br>ce of each mi<br>Plecop   | dduring sampling<br>ng sampling<br>scroinvertabrate.gr<br>stera:   | Weed sweep x   | nce-Ab)   | Relative<br>Abunda<br>1-5<br>6-20<br>21-50<br>51-100<br>101+  | e<br>nct     |
| Seneral Commen<br>Pre macroinvensbr<br>Group 1 = B<br>Group 2 = B<br>Group 3 = B<br>Group 4 = G<br>Group 5 = A<br>Calculata for<br>jahomenopteca   | Ites:<br>There are divided into<br>internetocrites (3-vaile)<br>inchaotera.<br>OL:D (Gastropode<br>settiar<br>e total number of ta   | Macroinwe<br>o the following<br>sils) – rote tha<br>note that tails<br>oligochesta a<br>use and relative<br><u>Ectly abunut</u><br><u>Ahthrogena</u>  | rtebra<br>S specific<br>ttalis may<br>imay be d<br>ind Dipter<br>e abundan<br>Ab   | te Compr<br>groups<br>y be damaged<br>tamaged durit<br>a)<br>ca of each mi<br>Plecop   | osition<br>during sampling<br>ng sampling<br>scroinvertabrate.gr<br>stera:   | Weed sweep x   | nce-Ab)   | Relative<br>Abunda<br>1-5<br>6-20<br>21-50<br>51-100<br>101+<br>Levena Ab   | ence         |
| General Commen<br>file macroinventels<br>Group 2 = 5<br>Group 4 = 0<br>Group 4 = 0<br>Group 4 = 0<br>Group 5 = A<br>Calculate file<br>ghomeropterae  | Its:<br>Its: ane divide in<br>phomeropera (3-citi)-<br>phomeropera (3-citi)-<br>phomeropera<br>(3-citi)-<br>phomeropera<br>(3-citi)-<br>phomeropera<br>(3-citi)-<br>phomeropera<br>(3-citi)-<br>phomeropera<br>(3-citi)-<br>phomeropera<br>(3-citi)-<br>phomeropera<br>(3-citi)-<br>phomeropera<br>(3-citi)-<br>phomeropera<br>(3-citi)-<br>phomeropera<br>(3-citi)-<br>phomeropera<br>(3-citi)-<br>phomeropera<br>(3-citi)-<br>phomeropera<br>(3-citi)-<br>phomeropera<br>(3-citi)-<br>phomeropera<br>(3-citi)-<br>phomeropera<br>(3-citi)-<br>phomeropera<br>(3-citi)-<br>phomeropera<br>(3-citi)-<br>phomeropera<br>(3-citi)-<br>phomeropera<br>(3-citi)-<br>phomeropera<br>(3-citi)-<br>phomeropera<br>(3-citi)-<br>phomeropera<br>(3-citi)-<br>phomeropera<br>(3-citi)-<br>phomeropera<br>(3-citi)-<br>phomeropera<br>(3-citi)-<br>phomeropera<br>(3-citi)-<br>phomeropera<br>(3-citi)-<br>phomeropera<br>(3-citi)-<br>phomeropera<br>(3-citi)-<br>phomeropera<br>(3-citi)-<br>phomeropera<br>(3-citi)-<br>phomeropera<br>(3-citi)-<br>phomeropera<br>(3-citi)-<br>phomeropera<br>(3-citi)-<br>phomeropera<br>(3-citi)-<br>phomeropera<br>(3-citi)-<br>phomeropera<br>(3-citi)-<br>phomeropera<br>(3-citi)-<br>phomeropera<br>(3-citi)-<br>phomeropera<br>(3-citi)-<br>phomeropera<br>(3-citi)-<br>phomeropera<br>(3-citi)-<br>phomeropera<br>(3-citi)-<br>phomeropera<br>(3-citi)-<br>phomeropera<br>(3-citi)-<br>phomeropera<br>(3-citi)-<br>phomeropera<br>(3-citi)-<br>phomeropera<br>(3-citi)-<br>phomeropera<br>(3-citi)-<br>phomeropera<br>(3-citi)-<br>phomeropera<br>(3-citi)-<br>phomeropera<br>(3-citi)-<br>phomeropera<br>(3-citi)-<br>phomeropera<br>(3-citi)-<br>phomeropera<br>(3-citi)-<br>phomeropera<br>(3-citi)-<br>phomeropera<br>(3-citi)-<br>phomeropera<br>(3-citi)-<br>phomeropera<br>(3-citi)-<br>phomeropera<br>(3-citi)-<br>phomeropera<br>(3-citi)-<br>phomeropera<br>(3-citi)-<br>phomeropera<br>(3-citi)-<br>phomeropera<br>(3-citi)-<br>phomeropera<br>(3-citi)-<br>phomeropera<br>(3-citi)-<br>phomeropera<br>(3-citi)-<br>phomeropera<br>(3-citi)-<br>phomeropera<br>(3-citi)-<br>phomeropera<br>(3-citi)-<br>phomeropera<br>(3-citi)-<br>phomeropera<br>(3-citi)-<br>phomeropera<br>(3-citi)-<br>phomeropera<br>(3-citi)-<br>phomeropera<br>(3-citi)-<br>phomeropera<br>(3-citi)-<br>phomeropera<br>(3-citi)-<br>phomeropera<br>(3-citi)-<br>phomeropera<br>(3-citi)-<br>phomeropera<br>(3-citi)-<br>phomeropera<br>(3-citi)-<br>phomer   | Macroinve<br>o the following<br>sits) - note that<br>note that tails<br>. Oligocherta a<br>usa and relative<br><u>Entheorema</u><br><u>Rhithmoanna</u><br><u>Meanagenia</u>   | ertebra<br>5 specific<br>titalis may<br>may be d<br>and Dipter<br>eaburdan<br>Ab<br>Ab   | te Compe<br>concest<br>ybe damaged<br>tamaged durit<br>a)<br>ca of sachmi<br>Placog  | dduring sampling<br>ng sampling<br>scroinvertabrate gr<br>stera:   | Weed sweep x   | nce-Ab)   | Relation<br>Abunda<br>1-5<br>6-20<br>21-50<br>51-100<br>101+<br>Lauctra Ab<br>Inconcut Ab   | e<br>Bict    |
| Seneral Commen<br>The macroinvestebr<br>Group 1 = 5<br>Group 2 = 9<br>Group 4 = 6<br>Group 5 = 4<br>Calculate the<br>calculate the<br>calculate the  | HS:<br>This are divided in<br>the set of the set of the<br>iscontex, (2-tails)-<br>iscontex, (2-   | Macroinve<br>o the following<br>sits) – note that<br>note that tails<br>of ligochesta.s<br>con and relative<br><u>Endyacuutat</u><br><u>Rhichtogena</u><br><u>Heangangi</u>   | rtebra<br>S specific<br>ttalis may<br>imay be d<br>ind Dipter<br>a abundan<br>Ab<br>Ab<br>Ab   | te Compo<br>groups<br>y be domaged<br>famagedduri<br>a)<br>ca of sachmi<br>Plecop  | sition<br>during sampling<br>is sampling<br>scroinvertabrate gr<br>stera:  | Weed sweep x   | nce-Ab)<br>A<br>Biumak  | Relative<br>Abunda<br>1-5<br>6-20<br>21-50<br>51-100<br>101+<br>Leuctra Ab<br>Benetia Ab<br>menura Ab   | ence         |
| Seneral Commen<br>Seneral Commen<br>Group 1 = E<br>Group 2 = B<br>Group 3 = B<br>Group 3 = C<br>Group 5 = C<br>Calculata the<br>phomenopteca   | Its:<br>Its: and divided im<br>interneropera: (3-a<br>iscontra: (3-ain)-<br>iscontra: (3-ain)-   | Macroinve<br>o the following<br>sills) - rote that<br>note that tails<br>Gligochesta a<br>usa and relative<br><u>Enthermoena</u><br><u>Heptaponin</u><br>Eshermoena<br><u>Heptaponin</u>  | ertebra<br>5 specific<br>ttalis may be d<br>and Dipten<br>a abundan<br>Ab<br>Ab<br>Ab  | te Compr<br>groups<br>y be damaged<br>lamaged duri<br>a)<br>cn of each mu<br>Plecog  | dduning sampling<br>ng sampling<br>scroinvertabrate gr<br>stera:   | Weed sweep x   | nce-Ab)<br>A<br>Brotos<br>Anasbie   | Relative<br>Abunda<br>1-5<br>6-20<br>21-50<br>51-100<br>101+<br>Lewitra Ab<br>Beaseda Ab<br>nemura Ab<br>beasura Ab   | enco         |
| Seneral Commen<br>The macroinventebr<br>Group 1 = E<br>Group 2 = T<br>Group 4 = T<br>Group 5 = A<br>Calculate the<br>phomemptace   | HS:<br>This are divided in<br>phomeropites (3-temp<br>phomeropites (3-temp)<br>controls (2-tem)<br>controls (2-t   | Macroinve<br>othe following<br>sits) - note that<br>note that take<br>of goodestan<br>and relative<br>Extraorante<br>Extraorante<br>Extensione<br>Enternante<br>Connor<br>Connor<br>Connor<br>Connor<br>Connor<br>Connor<br>Connor<br>Connor<br>Connor<br>Connor<br>Connor<br>Connor<br>Connor<br>Connor<br>Connor<br>Connor<br>Connor<br>Connor<br>Connor<br>Connor<br>Connor<br>Connor<br>Connor<br>Connor<br>Connor<br>Connor<br>Connor<br>Connor<br>Connor<br>Connor<br>Connor<br>Connor<br>Connor<br>Connor<br>Connor<br>Connor<br>Connor<br>Connor<br>Connor<br>Connor<br>Connor<br>Connor<br>Connor<br>Connor<br>Connor<br>Connor<br>Connor<br>Connor<br>Connor<br>Connor<br>Connor<br>Connor<br>Connor<br>Connor<br>Connor<br>Connor<br>Connor<br>Connor<br>Connor<br>Connor<br>Connor<br>Connor<br>Connor<br>Connor<br>Connor<br>Connor<br>Connor<br>Connor<br>Connor<br>Connor<br>Connor<br>Connor<br>Connor<br>Connor<br>Connor<br>Connor<br>Connor<br>Connor<br>Connor<br>Connor<br>Connor<br>Connor<br>Connor<br>Connor<br>Connor<br>Connor<br>Connor<br>Connor<br>Connor<br>Connor<br>Connor<br>Connor<br>Connor<br>Connor<br>Connor<br>Connor<br>Connor<br>Connor<br>Connor<br>Connor<br>Connor<br>Connor<br>Connor<br>Connor<br>Connor<br>Connor<br>Connor<br>Connor<br>Connor<br>Connor<br>Connor<br>Connor<br>Connor<br>Connor<br>Connor<br>Connor<br>Connor<br>Connor<br>Connor<br>Connor<br>Connor<br>Connor<br>Connor<br>Connor<br>Connor<br>Connor<br>Connor<br>Connor<br>Connor<br>Connor<br>Connor<br>Connor<br>Connor<br>Connor<br>Connor<br>Connor<br>Connor<br>Connor<br>Connor<br>Connor<br>Connor<br>Connor<br>Connor<br>Connor<br>Connor<br>Connor<br>Connor<br>Connor<br>Connor<br>Connor<br>Connor<br>Connor<br>Connor<br>Connor<br>Connor<br>Connor<br>Connor<br>Connor<br>Connor<br>Connor<br>Connor<br>Connor<br>Connor<br>Connor<br>Connor<br>Connor<br>Connor<br>Connor<br>Connor<br>Connor<br>Connor<br>Connor<br>Connor<br>Connor<br>Connor<br>Connor<br>Connor<br>Connor<br>Connor<br>Connor<br>Connor<br>Connor<br>Connor<br>Connor<br>Connor<br>Connor<br>Connor<br>Connor<br>Connor<br>Connor<br>Connor<br>Connor<br>Connor<br>Connor<br>Connor<br>Connor<br>Connor<br>Connor<br>Connor<br>Connor<br>Connor<br>Connor<br>Connor<br>Connor<br>Connor<br>Connor<br>Connor<br>Connor<br>Connor<br>Connor<br>Connor<br>Connor<br>Connor<br>Connor<br>Connor<br>Connor<br>Connor<br>Connor<br>Connor<br>Connor<br>Connor<br>Connor<br>Connor<br>Connor<br>Connor<br>Connor<br>Connor<br>Connor<br>Connor<br>Connor<br>Connor<br>Connor<br>Connor<br>Connor<br>Connor<br>Connor<br>Connor<br>Connor<br>Connor<br>Connor<br>Connor<br>Connor<br>Connor<br>Connor<br>Connor<br>Connor<br>Connor<br>Connor<br>Connor<br>Connor<br>Connor<br>Connor<br>Connor<br>Connor<br>Connor<br>Connor<br>Connor<br>Connor<br>Connor<br>Connor<br>Connor<br>Connor<br>Connor<br>Connor<br>Connor<br>Connor<br>Connor<br>Connor<br>Conno<br>Connor<br>Connor<br>Conno<br>Connor<br>Connor  | ertebra<br>5 specific<br>ttalis may<br>may be d<br>and Dipten<br>e aburdan<br>Ab<br>Ab<br>Ab   | te Compr<br>groups<br>ybe damaged<br>lamaged durie<br>a)<br>cn of eachmu<br>Plecog   | stition<br>during sampling<br>ng sampling<br>scroinvertabrate gr<br>stera:   | Weed sweep x   | nce-Ab)<br>Anabi<br>Amabi   | Relative<br>Abunda<br>1-5<br>6-20<br>21-50<br>51-100<br>101+<br>Levena Ab<br>Benura Ab<br>Benura Ab   | e<br>nce     |
| Seneral Commen<br>The macroinvender<br>Group I = 5<br>Group 2 = 9<br>Group 3 = 1<br>Group 5 = 4<br>Group 5 = 4<br>Calculate the<br>ghemiempiterae  | HS:<br>This are divided in<br>phomesopera. O-<br>inductors. (2-sals)-<br>inductors.<br>Co. D (Settorpoold<br>testian<br>estian<br>estian<br>estian<br>estian<br>estian<br>estian<br>estian<br>estian<br>estian<br>estian<br>estian<br>estian<br>estian<br>estian<br>estian<br>estian<br>estian<br>estian<br>estian<br>estian<br>estian<br>estian<br>estian<br>estian<br>estian<br>estian<br>estian<br>estian<br>estian<br>estian<br>estian<br>estian<br>estian<br>estian<br>estian<br>estian<br>estian<br>estian<br>estian<br>estian<br>estian<br>estian<br>estian<br>estian<br>estian<br>estian<br>estian<br>estian<br>estian<br>estian<br>estian<br>estian<br>estian<br>estian<br>estian<br>estian<br>estian<br>estian<br>estian<br>estian<br>estian<br>estian<br>estian<br>estian<br>estian<br>estian<br>estian<br>estian<br>estian<br>estian<br>estian<br>estian<br>estian<br>estian<br>estian<br>estian<br>estian<br>estian<br>estian<br>estian<br>estian<br>estian<br>estian<br>estian<br>estian<br>estian<br>estian<br>estian<br>estian<br>estian<br>estian<br>estian<br>estian<br>estian<br>estian<br>estian<br>estian<br>estian<br>estian<br>estian<br>estian<br>estian<br>estian<br>estian<br>estian<br>estian<br>estian<br>estian<br>estian<br>estian<br>estian<br>estian<br>estian<br>estian<br>estian<br>estian<br>estian<br>estian<br>estian<br>estian<br>estian<br>estian<br>estian<br>estian<br>estian<br>estian<br>estian<br>estian<br>estian<br>estian<br>estian<br>estian<br>estian<br>estian<br>estian<br>estian<br>estian<br>estian<br>estian<br>estian<br>estian<br>estian<br>estian<br>estian<br>estian<br>estian<br>estian<br>estian<br>estian<br>estian<br>estian<br>estian<br>estian<br>estian<br>estian<br>estian<br>estian<br>estian<br>estian<br>estian<br>estian<br>estian<br>estian<br>estian<br>estian<br>estian<br>estian<br>estian<br>estian<br>estian<br>estian<br>estian<br>estian<br>estian<br>estian<br>estian<br>estian<br>estian<br>estian<br>estian<br>estian<br>estian<br>estian<br>estian<br>estian<br>estian<br>estian<br>estian<br>estian<br>estian<br>estian<br>estian<br>estian<br>estian<br>estian<br>estian<br>estian<br>estian<br>estian<br>estian<br>estian<br>estian<br>estian<br>estian<br>estian<br>estian<br>estian<br>estian<br>estian<br>estian<br>estian<br>estian<br>estian<br>estian<br>estian<br>estian<br>estian<br>estian<br>estian<br>estian<br>estian<br>estian<br>estian<br>estian<br>estian<br>estian<br>estian<br>estian<br>estian<br>estian<br>estian<br>estian<br>estian<br>estian<br>estian<br>estian<br>estian<br>estian<br>estian<br>estian<br>estian<br>estian<br>esti | Macroinve<br>o the following<br>with - note that calls<br>. Oligochesta a<br>us and relative<br><u>Enformante</u><br><u>Rhithmoana</u><br><u>Heangenie</u><br><u>Calenie</u><br><u>Calenie</u><br><u>alentochébia</u>   | ertebra<br>S specific<br>ttalis may<br>may be d<br>and Dipter<br>e abundan<br>Ab<br>Ab<br>Ab<br>Ab   | te Compr<br>groups<br>ybe damaged<br>anged during<br>a)<br>ca of aschmu<br>Plecog  | sosition<br>dduning sampling<br>nampling<br>scroinvertabrate gr<br>steriar   | Weed sweep x   | nce-Ab)<br>Anabi<br>D   | Relative<br>Abunda<br>1-5<br>6-20<br>51-100<br>101+<br>Lauctru Ab<br>Benarda Ab<br>Recla Ab<br>Recla Ab<br>Recla Ab   | ence         |
| Seneral Commen<br>The macroinventebr<br>Group 1 = E<br>Group 2 = T<br>Group 4 = C<br>Group 4 = C<br>Group 5 = A<br>Calculate fix   | Its:<br>Its: ane divide in the phemacopana (3-a finite contract) (3-   | Macroinve<br>of the following skill<br>note that tails<br>Oligochesta a<br>us and relative<br><u>Striptopung</u><br><u>Ahlshopang</u><br><u>Eshemanilip</u><br><u>Eshemanilip</u><br><u>emers duoice</u>  | ertebra<br>5 specific<br>trails may be d<br>and Dipten<br>Ab<br>Ab<br>Ab<br>Ab<br>Ab<br>Ab   | te Compe<br>groubs<br>y be damaged<br>anaged duri<br>a)<br>cs of aschmi<br>Placop  | dduring sampling<br>ng sampling<br>seroinvertabrate.gr   | Weed sweep x   | nce-Ab)<br>Anobi<br>Anobi   | Relative<br>Abunda<br>1-5<br>6-20<br>21-50<br>51-100<br>101+<br>Lauctra Ab<br>Beaerla Ab<br>Beaerla Ab<br>Beaerla Ab<br>Beaerla Ab<br>Beaerla Ab<br>Beaca Ab  | e<br>nce     |
| Seneral Commen<br>The macroinventebr<br>Group 1 = 5<br>Group 2 = 1<br>Group 5 = 4<br>Group 5 = 4   | HS:<br>Tables are divided in<br>phoemesonese (3-tails)-<br>ophoemesonese (2-tails)-<br>ophoemesonese (2-tails)-<br>control number of ta<br>  | Macroinve<br>o the following is<br>into a train<br>out and relative<br>Exclusions<br>Alexandria<br>Alexandria<br>Alexandria<br>Alexandria<br>Alexandria<br>Alexandria<br>Alexandria<br>Alexandria<br>Alexandria<br>Alexandria<br>Alexandria<br>Alexandria<br>Alexandria<br>Alexandria<br>Alexandria<br>Alexandria<br>Alexandria<br>Alexandria<br>Alexandria<br>Alexandria<br>Alexandria<br>Alexandria<br>Alexandria<br>Alexandria<br>Alexandria<br>Alexandria<br>Alexandria<br>Alexandria<br>Alexandria<br>Alexandria<br>Alexandria<br>Alexandria<br>Alexandria<br>Alexandria<br>Alexandria<br>Alexandria<br>Alexandria<br>Alexandria<br>Alexandria<br>Alexandria<br>Alexandria<br>Alexandria<br>Alexandria<br>Alexandria<br>Alexandria<br>Alexandria<br>Alexandria<br>Alexandria<br>Alexandria<br>Alexandria<br>Alexandria<br>Alexandria<br>Alexandria<br>Alexandria<br>Alexandria<br>Alexandria<br>Alexandria<br>Alexandria<br>Alexandria<br>Alexandria<br>Alexandria<br>Alexandria<br>Alexandria<br>Alexandria<br>Alexandria<br>Alexandria<br>Alexandria<br>Alexandria<br>Alexandria<br>Alexandria<br>Alexandria<br>Alexandria<br>Alexandria<br>Alexandria<br>Alexandria<br>Alexandria<br>Alexandria<br>Alexandria<br>Alexandria<br>Alexandria<br>Alexandria<br>Alexandria<br>Alexandria<br>Alexandria<br>Alexandria<br>Alexandria<br>Alexandria<br>Alexandria<br>Alexandria<br>Alexandria<br>Alexandria<br>Alexandria<br>Alexandria<br>Alexandria<br>Alexandria<br>Alexandria<br>Alexandria<br>Alexandria<br>Alexandria<br>Alexandria<br>Alexandria<br>Alexandria<br>Alexandria<br>Alexandria<br>Alexandria<br>Alexandria<br>Alexandria<br>Alexandria<br>Alexandria<br>Alexandria<br>Alexandria<br>Alexandria<br>Alexandria<br>Alexandria<br>Alexandria<br>Alexandria<br>Alexandria<br>Alexandria<br>Alexandria<br>Alexandria<br>Alexandria<br>Alexandria<br>Alexandria<br>Alexandria<br>Alexandria<br>Alexandria<br>Alexandria<br>Alexandria<br>Alexandria<br>Alexandria<br>Alexandria<br>Alexandria<br>Alexandria<br>Alexandria<br>Alexandria<br>Alexandria<br>Alexandria<br>Alexandria<br>Alexandria<br>Alexandria<br>Alexandria<br>Alexandria<br>Alexandria<br>Alexandria<br>Alexandria<br>Alexandria<br>Alexandria<br>Alexandria<br>Alexandria<br>Alexandria<br>Alexandria<br>Alexandria<br>Alexandria<br>Alexandria<br>Alexandria<br>Alexandria<br>Alexandria<br>Alexandria<br>Alexandria<br>Alexandria<br>Alexandria<br>Alexandria<br>Alexandria<br>Alexandria<br>Alexandria<br>Alexandria<br>Alexandria<br>Alexandria<br>Alexandria<br>Alexandria<br>Alexandria<br>Alexandria<br>Alexandria<br>Alexandria<br>Alexandri<br>Alexandri<br>Alexandri<br>Alexandri<br>Alexandria<br>Alexandria   | rtebra<br>5 specific<br>ttalis may<br>may be d<br>and Dipter<br>e abundan<br>Ab<br>Ab<br>Ab<br>Ab<br>Ab<br>Ab  | te Compe<br>groups<br>be damaged<br>tamagedduri<br>a)<br>ca of each m<br>Placop  | stition<br>during sampling<br>ng sampling<br>scroinvertabrate.gr   | Weed sweep x   | nce-Ab)<br>Brons<br>Amabi<br>Other<br>Other   | Relative<br>Abunda<br>1-5<br>6-20<br>21-50<br>151-100<br>101+<br>Levers Ab<br>Beaseda Ab<br>Beasua Ab<br>Beasua Ab<br>Beasua Ab<br>Beasua Ab<br>Beasa Ab  | e not        |
| Seneral Commen<br>The macroinvended<br>Seroup 1 = 5<br>Group 2 = B<br>Group 3 = I<br>Group 5 = A<br>Group 5 = A<br>Calculate the<br>ghemieropiterae  | HS:<br>This are divided in<br>phomesopera. C-allo<br>inductors.<br>Co.L 0 (Settingooda<br>terification<br>to tall number of ta<br>Allo<br>Allo<br>Allo<br>Tattar Res   | Macroinve<br>offerfolking<br>silo - cota the<br>cost of the following<br>silo - cota the<br>cost of the<br>c   | rtebra<br>Sspecific<br>tsalis may be d<br>and Dipten<br>e abundan<br>Ab<br>Ab<br>Ab<br>Ab<br>Ab<br>Ab  | te Compe<br>groups<br>pouss<br>be damaged<br>lamaged<br>lamaged<br>lamaged<br>lamaged<br>lamaged<br>lamaged<br>lamaged<br>lamaged<br>lamaged<br>lamaged<br>lamaged<br>lamaged<br>lamaged<br>lamaged<br>lamaged<br>lamaged<br>lamaged<br>lamaged<br>lamaged<br>lamaged<br>lamaged<br>lamaged<br>lamaged<br>lamaged<br>lamaged<br>lamaged<br>lamaged<br>lamaged<br>lamaged<br>lamaged<br>lamaged<br>lamaged<br>lamaged<br>lamaged<br>lamaged<br>lamaged<br>lamaged<br>lamaged<br>lamaged<br>lamaged<br>lamaged<br>lamaged<br>lamaged<br>lamaged<br>lamaged<br>lamaged<br>lamaged<br>lamaged<br>lamaged<br>lamaged<br>lamaged<br>lamaged<br>lamaged<br>lamaged<br>lamaged<br>lamaged<br>lamaged<br>lamaged<br>lamaged<br>lamaged<br>lamaged<br>lamaged<br>lamaged<br>lamaged<br>lamaged<br>lamaged<br>lamaged<br>lamaged<br>lamaged<br>lamaged<br>lamaged<br>lamaged<br>lamaged<br>lamaged<br>lamaged<br>lamaged<br>lamaged<br>lamaged<br>lamaged<br>lamaged<br>lamaged<br>lamaged<br>lamaged<br>lamaged<br>lamaged<br>lamaged<br>lamaged<br>lamaged<br>lamaged<br>lamaged<br>lamaged<br>lamaged<br>lamaged<br>lamaged<br>lamaged<br>lamaged<br>lamaged<br>lamaged<br>lamaged<br>lamaged<br>lamaged<br>lamaged<br>lamaged<br>lamaged<br>lamaged<br>lamaged<br>lamaged<br>lamaged<br>lamaged<br>lamaged<br>lamaged<br>lamaged<br>lamaged<br>lamaged<br>lamaged<br>lamaged<br>lamaged<br>lamaged<br>lamaged<br>lamaged<br>lamaged<br>lamaged<br>lamaged<br>lamaged<br>lamaged<br>lamaged<br>lamaged<br>lamaged<br>lamaged<br>lamaged<br>lamaged<br>lamaged<br>lamaged<br>lamaged<br>lamaged<br>lamaged<br>lamaged<br>lamaged<br>lamaged<br>lamaged<br>lamaged<br>lamaged<br>lamaged<br>lamaged<br>lamaged<br>lamaged<br>lamaged<br>lamaged<br>lamaged<br>lamaged<br>lamaged<br>lamaged<br>lamaged<br>lamaged<br>lamaged<br>lamaged<br>lamaged<br>lamaged<br>lamaged<br>lamaged<br>lamaged<br>lamaged<br>lamaged<br>lamaged<br>lamaged<br>lamaged<br>lamaged<br>lamaged<br>lamaged<br>lamaged<br>lamaged<br>lamaged<br>lamaged<br>lamaged<br>lamaged<br>lamaged<br>lamaged<br>lamaged<br>lamaged<br>lamaged<br>lamaged<br>lamaged<br>lamaged<br>lamaged<br>lamaged<br>lamaged<br>lamaged<br>lamaged<br>lamaged<br>lamaged<br>lamaged<br>lamaged<br>lamaged<br>lamaged<br>lamaged<br>lamaged<br>lamaged<br>lamaged<br>lamaged<br>lamaged<br>lamaged<br>lamaged<br>lamaged<br>lamaged<br>lamaged<br>lamaged<br>lamaged<br>lamaged<br>lamaged<br>lamaged<br>lamaged<br>lamaged<br>lamaged<br>lamaged<br>lamaged<br>lamaged<br>lamaged<br>lamaged<br>lamaged<br>lamaged<br>lamaged<br>lamaged<br>lamaged<br>lamaged<br>lamaged<br>lamaged<br>lamaged<br>lamaged<br>lamaged<br>lamaged<br>lamaged<br>lamaged<br>lamaged<br>lamaged<br>lamaged<br>lamaged<br>lamaged<br>lamaged<br>lamaged<br>lamaged<br>lamaged<br>lamaged<br>lamaged<br>lamaged<br>lamaged<br>lamaged<br>lamaged<br>lamaged<br>lamaged<br>lamaged<br>lamaged<br>lamag  | during sampling<br>g sampling<br>scroinvertabrate gr<br>stera:   | Weed sweep x   | nce-Ab)<br>4<br>Anabi<br>Other<br>Other<br>datee Ab                                 | Relative<br>Abunda<br>1-5<br>6-20<br>21-50<br>51-100<br>101+<br>Levctra Ab<br>Beaneda Ab<br>Resta Ab<br>Resta Ab<br>Resta Ab<br>Resta Ab<br>Resta Ab  | E BCC        |
| Seneral Commen<br>The macroinversity<br>Group 1 = 5<br>Group 2 = 7<br>Group 4 = 7<br>Group 5 = 4<br>Calculate for<br>phomeropierae   | Its:<br>Its: and divide in<br>becases (2-sit)-<br>schapters<br>OL-D (Sastropoda<br>estis<br>total number of ta<br>Ann<br>Ann<br>Ann<br>Ann<br>Ann<br>Ann<br>Ann<br>An  | Macroinve<br>othe following skill-<br>note that tails<br>Oligochesta a<br>us and relativ-<br><u>Esthemanik</u><br><u>Esthemanik</u><br><u>Esthemanik</u><br><u>Glentit</u><br><u>Alextophika</u><br><u>ethemanika</u><br><u>Other Epheno</u> .  | ertebra<br>5 specific<br>ttaiis may<br>imay be d<br>and Dipter<br>a aburdan<br>Ab<br>Ab<br>Ab<br>Ab<br>Ab<br>Ab<br>Ab<br>Ab<br>Ab<br>Ab                  | te Compe<br>groups<br>yoe damaged<br>ismaged durie<br>a)<br>ca of aachm<br>Plecos<br>Total n<br><i>Lysmas</i>  | osition<br>during sampling<br>ng sampling<br>scroinvertabrate.gr<br>stera:   | Weed sweep x   | nce-Ab)<br>4<br>80000<br>Amabie<br>Other<br>Other<br>Abl                            | Relative<br>Abunda<br>1-5<br>5-20<br>21-50<br>51-100<br>101+<br>Leven Ab<br>Beace Ab<br>Recon Ab<br>Recon Ab<br>Recon Ab<br>Recon Ab<br>Secon Ab  | ence         |
| General Commen<br>The macroinvender<br>Group I = E<br>Group J = B<br>Group J = B<br>Group S = A<br>Group S = | Its:<br>Its: ane divided in<br>phomesones. (3-rais)-<br>obsenses. (3-rais)-<br>obsenses.<br>Col. D. Gastropoda<br>setUs:<br>   | Macroinve<br>o the following in<br>hose that tails<br>of ligochesta a<br>use and relative<br>Exclusionant<br>Reharmanic<br>Cherris<br>Cherris<br>Cherris<br>Cherris<br>Cherris<br>Cherris<br>Cherris<br>Cherris<br>Cherris<br>Cherris<br>Cherris<br>Cherris<br>Cherris<br>Cherris<br>Cherris<br>Cherris<br>Cherris<br>Cherris<br>Cherris<br>Cherris<br>Cherris<br>Cherris<br>Cherris<br>Cherris<br>Cherris<br>Cherris<br>Cherris<br>Cherris<br>Cherris<br>Cherris<br>Cherris<br>Cherris<br>Cherris<br>Cherris<br>Cherris<br>Cherris<br>Cherris<br>Cherris<br>Cherris<br>Cherris<br>Cherris<br>Cherris<br>Cherris<br>Cherris<br>Cherris<br>Cherris<br>Cherris<br>Cherris<br>Cherris<br>Cherris<br>Cherris<br>Cherris<br>Cherris<br>Cherris<br>Cherris<br>Cherris<br>Cherris<br>Cherris<br>Cherris<br>Cherris<br>Cherris<br>Cherris<br>Cherris<br>Cherris<br>Cherris<br>Cherris<br>Cherris<br>Cherris<br>Cherris<br>Cherris<br>Cherris<br>Cherris<br>Cherris<br>Cherris<br>Cherris<br>Cherris<br>Cherris<br>Cherris<br>Cherris<br>Cherris<br>Cherris<br>Cherris<br>Cherris<br>Cherris<br>Cherris<br>Cherris<br>Cherris<br>Cherris<br>Cherris<br>Cherris<br>Cherris<br>Cherris<br>Cherris<br>Cherris<br>Cherris<br>Cherris<br>Cherris<br>Cherris<br>Cherris<br>Cherris<br>Cherris<br>Cherris<br>Cherris<br>Cherris<br>Cherris<br>Cherris<br>Cherris<br>Cherris<br>Cherris<br>Cherris<br>Cherris<br>Cherris<br>Cherris<br>Cherris<br>Cherris<br>Cherris<br>Cherris<br>Cherris<br>Cherris<br>Cherris<br>Cherris<br>Cherris<br>Cherris<br>Cherris<br>Cherris<br>Cherris<br>Cherris<br>Cherris<br>Cherris<br>Cherris<br>Cherris<br>Cherris<br>Cherris<br>Cherris<br>Cherris<br>Cherris<br>Cherris<br>Cherris<br>Cherris<br>Cherris<br>Cherris<br>Cherris<br>Cherris<br>Cherris<br>Cherris<br>Cherris<br>Cherris<br>Cherris<br>Cherris<br>Cherris<br>Cherris<br>Cherris<br>Cherris<br>Cherris<br>Cherris<br>Cherris<br>Cherris<br>Cherris<br>Cherris<br>Cherris<br>Cherris<br>Cherris<br>Cherris<br>Cherris<br>Cherris<br>Cherris<br>Cherris<br>Cherris<br>Cherris<br>Cherris<br>Cherris<br>Cherris<br>Cherris<br>Cherris<br>Cherris<br>Cherris<br>Cherris<br>Cherris<br>Cherris<br>Cherris<br>Cherris<br>Cherris<br>Cherris<br>Cherris<br>Cherris<br>Cherris<br>Cherris<br>Cherris<br>Cherris<br>Cherris<br>Cherris<br>Cherris<br>Cherris<br>Cherris<br>Cherris<br>Cherris<br>Cherris<br>Cherris<br>Cherris<br>Cherris<br>Cherris<br>Cherris<br>Cherris<br>Cherris<br>Cherris<br>Cherris<br>Cherris<br>Cherris<br>Cherris<br>Cherris<br>Cherris<br>Cherris<br>Cherris<br>Cherris<br>Cherris<br>Cherris<br>Cherris<br>Cherris<br>Cherris<br>Cherris<br>Cherris<br>Cherris<br>Cherris<br>Cherris<br>Cherris<br>Cherris<br>Cherris<br>Cherris<br>Cherris<br>Cherris<br>Cherris<br>Cherris<br>Cherris<br>Cherris<br>Cherris<br>Cherris<br>Cherris<br>Cherris<br>Cherris<br>Cherris<br>Cherris<br>Cherri<br>Cherris<br>C  | ertebra<br>5 specific<br>ttalis may<br>may be d<br>ind Dipter<br>e abundan<br>Ab<br>Ab<br>Ab<br>Ab<br>Ab<br>Ab<br>Ab<br>Ab<br>Ab<br>Ab<br>Ab<br>Ab<br>Ab | te Compe<br>groups<br>be camaged<br>tamagedduri<br>a)<br>ca of each mu<br>Placop<br>Placop<br>Total a<br><i>ismase</i>   | stition<br>during sampling<br>ng sampling<br>scroinvertabrate.gr<br>stera:   | Uved sweep x   | nce-Ab)<br>4<br>Anobi<br>Other<br>Other<br>Ababi<br>Ab                              | Relative<br>Abunda<br>1-5<br>6-20<br>21-50<br>21-50<br>101+<br>Leucma Ab<br>Beasura Ab  | e not        |
| General Commen<br>The macroinvendeb<br>Croup 1 = 5<br>Group 2 = B<br>Group 3 = I<br>Group 5 = A<br>Calculate the<br>calculate   | Its: Its: Its: Its: Its: Its: Its: Its:  | Macroinve<br>of the following<br>islo – roots this<br>note that tails<br>of ligochesta a<br>construction<br>of the state<br>characealing<br>characealing<br>construction<br>of the state<br>construction<br>of the state<br>of the  | ertebra<br>5 specific<br>ttain may be d<br>and Dipten<br>e abundan<br>Ab<br>Ab<br>Ab<br>Ab<br>Ab<br>Ab<br>Ab<br>Ab<br>Ab<br>Ab<br>Ab                     | te Compe<br>groups<br>yo compe<br>ismaged duri<br>a)<br>ca. of eachmu<br>Plecop<br>Total n<br><i>Lismase</i><br><i>Basemagya</i>   | osition<br>dduning sampling<br>ng sampling<br>scroinvertabrate gr<br>stera:<br>  | Weed sweep x   | nce-Ab)<br>Anobi<br>Anobi<br>Other<br>Other<br>Ab<br>Ab                             | Relative<br>Abunda<br>1-5<br>6-20<br>21-50<br>51-100<br>101+<br>Levena Ab<br>Baseda Ab  | = nce        |
| General Commen<br>The macroinventebr<br>Group 1 = E<br>Group 2 = T<br>Group 4 = C<br>Group 5 = A<br>Calculate the<br>phomeropterae<br>Total no. of taxa  | HS:<br>Tables are divided in<br>phomeroperal (3-a<br>incontex) (3-aris)-<br>orbaperal<br>(CLD) (Castropoda<br>aetiar<br>a total number of ta   | Macroinve<br>othe following site<br>note that tails<br>of gochesta a<br>use and relative<br><u>Esthements</u><br><u>Cleans</u><br><u>Alettophilo</u><br><u>Cleans</u><br><u>Alettophilo</u><br><u>Other Ephem</u><br><u>Alet</u><br><u>Alettophilo</u><br><u>Other Ephem</u>  | rtebra<br>5 specific<br>ttali ma<br>maybe d<br>and Dipter<br>a aburdan<br>Ab<br>Ab<br>Ab<br>Ab<br>Ab<br>Ab<br>Ab<br>Ab<br>Ab                             | te Compe<br>groups<br>yo damaged<br>lamaged duri<br>a)<br>ca of aachmi<br>Plecos<br>Plecos<br>Rozinaovija<br>Bozinaovija<br>Bozinaovija  | osition<br>dduring sampling<br>ng sampling<br>scroinvertabrate gr<br>stera:  | Weed sweep x<br>oup below: (Abunda<br>Chiconomides (D<br>Chiconomides (D<br>Chiconomides (D<br>Chiconomides (D<br>Chiconomides (D<br>Chiconomides (D   | nce - Ab)<br>4<br>870thu<br>Astable<br>Other<br>0ther<br>elative Ab<br>Ab<br>Ab     | Relative<br>Abunda<br>1-5<br>5-20<br>21-50<br>51-100<br>101+<br>Lauctru Ab<br>Bescura Ab<br>Ab<br>Bescura Ab<br>Ab<br>Ab<br>Bescura Ab<br>Bescura Ab<br>Bes   | e nee        |
| General Commen<br>The macroinvender<br>Group 1 = 5<br>Group 2 = 9<br>Group 3 = 1<br>Group 4 = 0<br>Group 5 = 4<br>Group 5 = 5<br>Group 5 = | HS:<br>Tables are divided in<br>the set of the set of the<br>incontrase (2-tails)-<br>forbacters, (2-tails)-   | Macroinve<br>or the following is<br>the note that tails<br>of goochesta a<br>use and 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NOTE Baets is an Ephemeropheran and is the most commonly occurring invertebrate genus in streams in Ireland. It is vital that Baets is not counted in SSRS. See Appendix B for more details on how to identify Baets: 6m2



Step 1. Calculate the Index Score by circling the appropriate box representing the total number of taxa and the total abundance calculated from *each macroinvertebrate group* calculated from page 1 of the recording sheet and enter in to the boxes in Step 2.