

Appendix A - Aquatic Insect Sampling

for Hagensborg, Fish and School House Creeks

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Included within this presentation is:

- an air photo view of sample sites.
- ground view photos of sample sites.
- photos of aquatics collected and captioned with their names. Some are to Family level and others to Genus or Genus species level.

See the separate report document (in Word) to which this appendix relates.

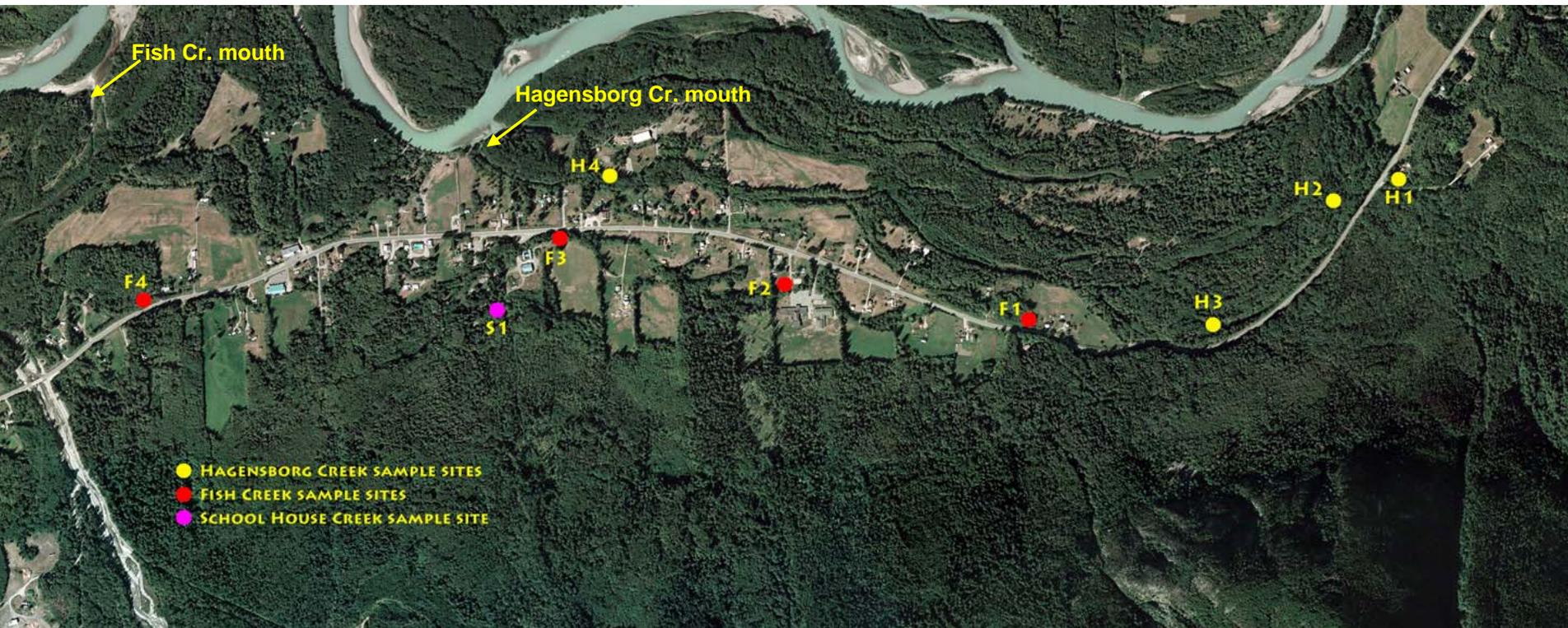
All aquatic insect photos in this presentation are from the actual fauna collected at each site between Jan.19 to Jan. 25, 2010.

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Aquatic Insect Sample sites for Hagensborg, Fish and School House Creeks



Fish Creek (F)

Hagensborg Creek (H)

School House Creek (S)

Fish Creek F1 sample site



Downstream end of Hwy. 20 culvert crossing on the east end of Hagensborg

Fish Creek F1 site

Aquatic Insect Nymphs and Larvae



Stonefly: *Visoka cataractae*



Stonefly: *Zapada columbiana*



Mayfly: *Ironopsis* sp.



Stonefly: *Megarcys* sp.

Fish Creek F1 site

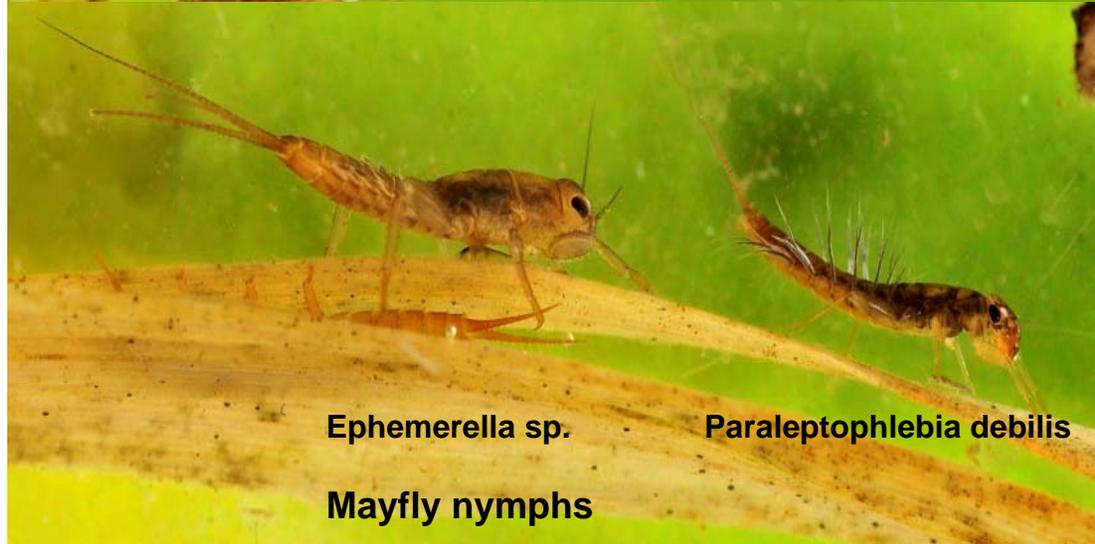
Aquatic Insect Nymphs and Larvae



Above: Stonefly - Chloroperlid nymph



Upper Right: Caddis larva – Rhyacophila sp.



Ephemerella sp.

Paraleptophlebia debilis

Mayfly nymphs

Fish Creek F1 site

Aquatic Insect Nymphs and Larvae



Mayfly: *Baetis* sp. nymph



Stonefly: *Zapada columbiana*

Mayfly: *Ironodes* sp.



Mayfly: *Rithrogena* sp.



Stonefly: Capnidae family

Fish Creek

F2 sample site



Downstream end of the west culvert crossing at SAMS school grounds

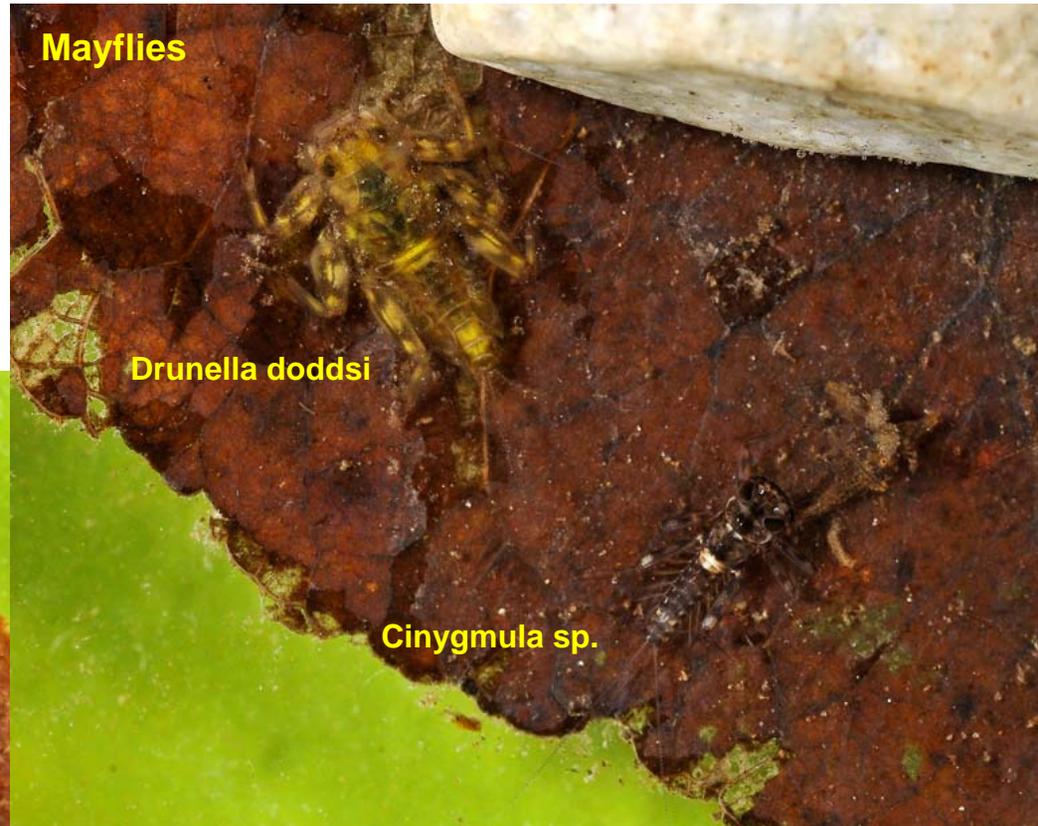
Fish Creek F2 sample site

Also collected at this site:

Mayfly nymphs – Ironodes sp., Baetis sp.

Stonefly nymphs – Family: Capnidae

Caddisfly larva – Rhyacophila sp.



Mayflies

Drunella doddsi

Cinygmula sp.



Mayflies: *Rithrogena* sp.



Cinygmula sp.

Note:

Cinygmula sp. nymphs as well as many other very early instar Heptageniid (“Flathead”) mayfly nymphs were most dominant in the sample at this site.

Fish Creek

F3 sample site



On the Sollid property adjacent to the south side of Hwy. 20

Fish Creek F3 sample site

Also collected at this site:

Mayfly nymphs – *Cinygmula* sp.

Stonefly nymphs – *Zapada* sp.

Blackfly larvae
Family: **Simuliidae**



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Stonefly
mature nymph of the Family: **Capnidae**



Fish Creek

F4 sample site



Downstream end of Hwy. 20 bridge crossing on the west end of Hagensborg

Fish Creek F4 sample site



Above: Stonefly nymph – Zapada cinctipes

At Left: Perlodidae family Stonefly nymph

**Also collected at this site:
Blackfly larvae – Family: Simuliidae**

Hagensborg Creek

Sample Site H1 (Stenner Creek tributary)



Upstream side of the Hwy. 20 culvert crossing

Hagensborg Creek

Sample Site H1 (Stenner Creek tributary)

Also collected at this site: Capnidae family stoneflies



Mayfly: Rithrogena sp.



Free-swimming Caddis larvae: Rhyacophila sp.



Mayflies: Ironodes sp. and Baetis sp.

Hagensborg Creek

Sample Site H2



Hagensborg Creek

Sample Site H2

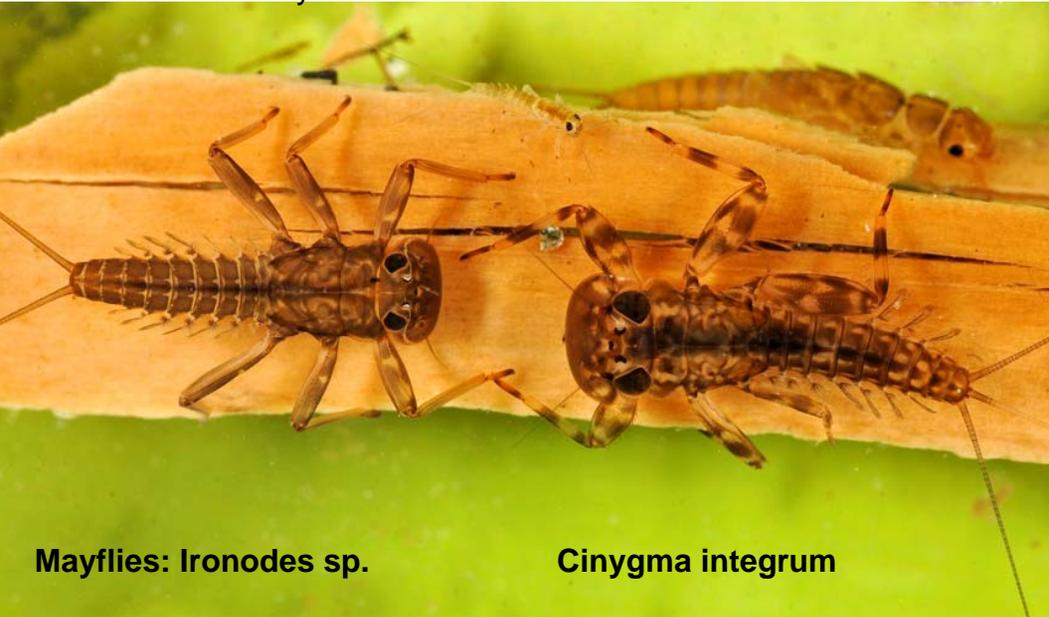
Also collected at this site:

Mayflies – Baetis sp. and Cinygmula sp.

Blackflies – Family: Simuliidae

Stoneflies – Family: Capnidae

Caddisflies – Dicosmoecus sp.



Mayflies: Ironodes sp.

Cinygma integrum



Mayfly: Rithrogena sp.



Stonefly: Chloroperlidae family



Mayflies: early instar Heptageniid and Paraleptophlebia debilis

Hagensborg Creek

H3 sample site



The graveled reach on the downstream end of the Scout Pond

Hagensborg Creek

H3 sample site

Stonefly: Perlodidae family



Caddisfly: Rhyacophila sp.



Chironomid larva



Mayfly: Cinygma integrum nymphs



Hagensborg Creek

H3 sample site



Megaloptera: Sialidae family – Alderfly larva

Also collected at this site:

Mayfly nymphs – Cinygmula sp.
- Baetis sp.

Stonefly nymphs – Zapada sp.
- Capnidae family

Blackfly larvae – Family: Simuliidae

Hagensborg Creek

H4 sample site



Hagensborg Creek

H4 sample site

Also collected at this site:

Mayflies – Baetis sp., Cinygma integrum and Cinygmula sp.

Stoneflies – Family: Capnidae, Leuctridae and Zapada cinctipes

Blackflies – Family: Simuliidae



School House Creek (Fish Creek tributary) S1 Sample Site



School House Creek aquatic insect sample site

School House Creek (Fish Creek tributary) S1 Sample Site



Blackfly larva



Stonefly: Capnidae family



Mayfly nymphs – Cinygmula sp.

Baetis sp.



Stonefly nymphs – Zapada cinctipes & Perlodid

School House Creek (Fish Creek tributary) S1 Sample Site



Freshwater worm. Possibly a Tubificid

