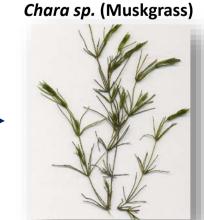
# **Starry Stonewort Identification Guide**



Photo Source: T.J. Harrow-Lyle. Some photos have been adapted from Harrow-Lyle and Kirkwood (2021).

Here are some **similar looking species** that can grow with Starry Stonewort, and be misidentified as Starry Stonewort



Source: C. Fischer via Wikipedia and licensed under <u>CC BY-SA</u>

Tolypella sp.

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Nitella sp.

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## **Starry Stonewort Identification Checklist**

You likely have a Starry Stonewort specimen if you can check all of the following boxes:

- □ Specimen is one of the following colours: **bright green**, **yellow**, **brown**, or **black** 
  - Note: Colour varies according to environmental conditions
- □ Stems are smooth or rough
- □ Specimen with multiple stems has a messy or tangled appearance
- No noticeable odour
- □ Irregular whorled branches ranging from 5-8 branches at each whorl

segment

- Antheridia (small red balls) present on branches
  - Small red balls may not be present so their absence does not disqualify your sample from being Starry Stonewort
- □ Star-shaped bulbils
  - bulbils may not be present so their absence does not disqualify your sample from being Starry Stonewort
- □ Clear monofilament (like fishing line) at the base of each stem





## **Specimen Sample Confirmation**

We encourage volunteers to consider sending a suspected Starry Stonewort sample to Ontario Tech University to confirm its identity. Starry Stonewort can be very delicate and/or brittle, requiring special care when preserving a sample for transport to the lab. **AVOID SQUISHING THE BRANCHES AND STEMS IF POSSIBLE**.

A specimen sample can be a portion of stem with whorls and branches, it can also consist of a stem and bulbil (if present).

#### Steps for preparing your sample for mailing:

- Before you prepare the sample for shipment, take photos prior to washing and drying
  - Photos of a tangled mass and individual stems and branches are especially important. You will email digital photos to the email address provided below
- □ Rinse any dirt or debris off of the specimen sample, and ensure other entangled plants are removed
- □ Allow to air dry for 60 minutes or until fully dry
- Gently place in a small ziplock bag, remove air, and seal
- Place ziplock bag in a small bubble-lined envelope with your name and address and mail to Ontario Tech University (address below). For best results, we recommend expedited mail (1-3 days) if possible

#### When sending a specimen, please complete the following steps:

- 1. Fill out the **specimen submission form** included with your Volunteer Sampling Kit.
- 2. E-mail digital photos, including your full name and lake name, to this email address: **StarryStonewortID@gmail.com**
- Mail dried specimen with completed submission form to this address within 1-3 days of collection: Ontario Tech University 2000 Simcoe St.N. Oshawa, ON L1G 0C5 Attention: Andrea Kirkwood, Faculty of Science

Photo Source: T.J. Harrow-Lyle