# **Chara globularis**

### **COMMON NAME**

Stonewort

#### **FAMILY**

Characeae

#### **AUTHORITY**

Chara globularis Thuillier

#### **FLORA CATEGORY**

Non-vascular - Native

#### **BRIEF DESCRIPTION**

Small branched submerged plant with a distinctive sulphur or musky smell.

#### **DISTRIBUTION**

Indigenous. New Zealand: North, South and Chatham Islands. Widespread globally.

#### HABITAT

Lakes and slow flowing waters, both fresh to slightly brackish conditions.

#### **DETAILED DESCRIPTION**

Aquatic, submerged, macro-algae. Often a tall plant (0.3-0.5 m) with slender shoots and a grey-green colour. Branches are not forked and branches and stems are mostly covered by a secondary cell layer (cortication), making them more resistant to physical damage. Small accessory cells at junctions between branchlet cells are either not obvious or longer around the fruiting bodies. Stems are anchored in the sediment by colourless rhizoids. Plant is monoecious, with antheridia and oogonia on the same plant, often located together. with fruiting bodies dispersed over the upper stem portions. The plant has a distinctive musky odour, and can be lime-encrusted in some water bodies.

## **SIMILAR TAXA**

None, this is the only New Zealand charophyte with corticated branchlets and stems.

#### **FRUITING**

Produces elongate (>500µm long) black oospores that are round in transverse section. Oospore has 10-12 sinistral spiral ridges.

## **PROPAGATION TECHNIQUE**

Fragments or oospores.

#### **ETYMOLOGY**

chara: Origin unknown, possibly from the Greek charis 'grace' or 'beauty'

## REFERENCES AND FURTHER READING

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Casanova, M.T.; de Winton, M.D.; Karol, K.G.; Clayton J.S. (2007). Nitella hookeri A. Braun (Characeae,

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de Winton, M.D.; Dugdale, A.M.; Clayton, J.S. (2007). An identification key for oospores of the extant charophytes of New Zealand. New Zealand Journal of Botany:463-476

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#### **MORE INFORMATION**

https://www.nzpcn.org.nz/flora/species/chara-globularis/

