



Invasive Mussels Lake Monitoring Example Equipment and Supplier List

This list is intended to be a starting point for groups looking to purchase materials and supplies for invasive mussel monitoring. It is not a comprehensive list nor is it an endorsement of specific suppliers or equipment; these are examples only and proponents are **not** required to use the suppliers or equipment listed below.

Note: Remember that the minimum parameters you are required to collect when veliger sampling are GPS coordinates of the sample site, surface water temperature and pH of the sample collected. If equipment is available, additional parameters include Secchi depth, pH, and calcium, and temperature of the water column from the depth sampled.

Water Quality Measurement Equipment

Here are some portable meters convenient for field use for measuring pH, temperature and calcium:

- The [HI96752 Hanna](#) portable photometer is for the measurement of calcium
- Test kits that measure water hardness can be used for calcium measurements
 - LAQUA Twin Calcium Meter
 - The Extech PH50 Waterproof pH and Temperature Pen Meter (inexpensive) and other small hand held probes are available by Hanna, YSI, HACH and Hydrolab

Some water quality probes capable of measuring the full suite of parameters include:

- Eureka Manta
- AquaRead 900
- Hydrolab Quanta Multi-probe

There are several Lower Mainland suppliers that offer a wide range of different equipment and their contact information is below:

Hoskin Scientific:

Telephone (toll free): 1-800-663-3023

Website: www.hoskin.ca

Allan Environmental Services Inc.

Telephone: 250-812-5646

Website: www.allanenv.ca

Dynamic Aqua-Supply Ltd.

Telephone: 1-604-543-7504

Website: www.dynamicaqua.com/waterquality.html

General Sampling Equipment

Other equipment required for sampling, including plankton nets, sample bottles, etc., can be purchased from various scientific and general equipment suppliers including Hoskin Scientific Ltd., Dynamic Aqua-Supply Ltd and ThermoFisher Scientific. Some of this equipment will be available at your local hardware store or Amazon.

Plankton Net

When conducting plankton tows (vertical and horizontal) the following type of net must be used:

- Simple, conical plankton-tow net
- 64 um mesh size,
- 50cm diameter net opening is preferred, but 30cm is also acceptable, (30cm diameter by 120 cm length net)
- PVC weighted cod-end (2 piece removable)

A supplier that has been used in the past for purchasing plankton nets is:

Aquatic Research Instruments

Telephone (toll free): 1-800-320-9482

208-264-5266

Preservative Chemicals

Regular ethanol (with purchase permit) and isopropyl alcohol can be ordered from Fisher Scientific or other chemical scientific lab suppliers. Isopropyl alcohol can be purchased at some local pharmacies. 99% should be used over 70% isopropyl alcohol whenever possible.