

Target Species

The primary target species within these programs are floodwater mosquitoes (some *Aedes* spp.). These mosquitoes lay eggs on damp substrate proximate to lakes, rivers, streams, or even tidal flats. The eggs are triggered to hatch when water covers them and when the weather is warm enough.



Why Larval Mosquitoes?

- Larval mosquito control is more efficient and effective than adult control
- Larval mosquito control is more precise than adult spraying
- Most larval mosquito control products have a lower environmental impact than adult control products

Social and Environmental Sustainability Efforts

- ❖ Each year, MBL purchases carbon offsets to compensate for the fuel usage within each of our programs.
- ❖ In 2014, MBL adopted a section of the Vedder River. We're in charge of making sure that section remains free of debris and is looking healthy.
- ❖ MBL employees participate in annual BC Rivers Day clean-up events.
- ❖ MBL has donated funds toward wetland restoration efforts across the province.
- ❖ MBL has supplied municipalities with bird and bat houses to install in local wetlands, with the hopes of increasing mosquito predators.

Contact Information

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MOSQUITO CONTROL INFORMATION

What is being done around your community to reduce mosquito annoyance

Who We Are

Morrow BioScience Ltd. (MBL) is the longest established mosquito management firm in British Columbia - we have been managing mosquitoes for over 30 years! Our team is comprised of biologists, field technicians, and GIS specialists. Our goal is to provide clients and residents with excellent mosquito control.



What We Do

Using an integrated pest management approach, MBL conducts larval mosquito control for floodwater mosquitoes only when deemed necessary. Control products and techniques have the least possible impact on the ecosystem.



Our Methodology

- Using mosquito larval dippers, floodwater mosquito development sites are regularly monitored for larvae from March – August
- If larvae are found in high enough numbers and in the correct larval stages (2nd – 4th instar), the site is treated
- Sites are treated with Aquabac® - a bacterial larvicide - which is highly specific to mosquitoes
- Sites may be treated using a backpack blower, by hand, or by helicopter
- Post-treatment monitoring also takes place to ensure the treatment was successful



Larval Control Products



- We primarily use Aquabac® for larval mosquito control.
- The active ingredient in Aquabac® is a natural, soil-borne bacterium called *Bacillus thuringiensis israelensis* (Bti).
- The carrier for Bti is corn cob granules.
- When ingested by mosquito larvae, the Bti quickly effects the mosquito's gut, causing abrupt larval death.
- The granules come in a variety of sizes to target different mosquito development areas.
- This product is relatively target-specific, meaning that there are few non-target effects.
- The field efficacy for Aquabac® is usually 80-90%.