

## SUCCESS STORY:

### SANTA MARGARITA PILOT PROJECT

The Lago Santa Margarita Ad Hoc Committee was formed in 2017 to provide input and recommendations related to the treatment and management of golden algae, with the primary goal of providing an aquatic environment where fish could thrive and fishing be restored.

#### HOW DID FLOATING ISLANDS HELP?



*Lake infrastructure modifications included the installation of (22) floating botanical islands along the perimeter of the Lake. Floating botanical islands will absorb excess nutrient buildup, provide underwater havens for fish, and help oxygenate the water.*

“Floating Islands West and Jonathan Todd Consulting have transformed our lake. What was budgeted to be a pilot, proved to keep the entire lake clear of any ill effects from the Golden Algae. The water quality, clarity, and overall health of the lake are better than in my memory going back to childhood. We have original homeowners on our lake that have lived here for over thirty years coming in to tell us how wonderful the water looks and that it has never looked anywhere near this nice. Using ecological design strategies JTC and FIW have transformed this lake without the use of any chemicals.”

#### CONTACT US TODAY TO DISCUSS YOUR PROJECT.



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**YOUR FIRST RESPONDER  
FOR HARMFUL ALGAE  
BLOOM CONTROL**

**CHEMICAL FREE, INSTANTLY DEPLOYABLE,  
COST-EFFECTIVE WETLAND RESTORATION**



# WHAT ARE HARMFUL ALGAL BLOOMS (HABS) AND WHO IS AFFECTED?

*Harmful algal blooms, or HABS, occur when colonies of microscopic algae growing in waterways multiply out of control causing environmental and health effects.*

## HARMFUL ALGAE BLOOMS IMPACT BOTH PEOPLE AND THE ENVIRONMENT:



The toxins released effect neuro and respiratory failures to fish, amoebas and their entire food web



There have been at least two recent reports of dogs dying as a result of swimming or drinking water contaminated with toxic blue green algae



Local lakes or ponds can be temporarily shut down as swimming becomes unsafe



Algae can migrate to another body of water via wind and grow and cause harmful effects in multiple locations



Algae toxins can not be removed by boiling and treating them with chemicals can do more harm than good in the ecosystem



## WHEN DOES AN ALGAE BLOOM HAPPEN?

1. Water temperatures in the warm to hot range
2. Heavy concentrations of excess nutrients such as phosphorus
3. Non circulating, stagnate water
4. Migration of algae via wind/circulation to a congested area
5. Prior storage of nutrients in the localized sludge area, resurgence of prior blooms

### DON'T WAIT UNTIL IT'S TOO LATE

**PRIOR TO A BLOOM** - there is a time for mitigating or even eliminating the exposures allowing the bloom to occur...i.e. add oxygen, move nutrients out of area (reductions of concentrations), cool water, circulate and flush -



**BEFORE CONSIDERING DANGEROUS CHEMICAL OPTIONS TO BATTLE ALGAL BLOOMS...**

**MAKE FLOATING ISLANDS YOUR FIRST RESPONDER TO REDUCE THE TIME AND EFFECT OF THE BLOOM**



## HOW ARE FLOATING ISLANDS AN EFFECTIVE FIRST RESPONDER?

### BIOHAVEN® FLOATING ISLANDS



#### IMPROVE WATER QUALITY

- Shading will cool water within influence of island
- Increase of available oxygen
- Elimination of static surface tension allowing circulation

#### CHEMICAL-FREE MAINTENANCE

- Beautify your pond or tank
- Provide a maintenance-free sustainable water restoration process
- Safe non-toxic planter option for your koi pond or aquatic garden
- Shade your pond without harsh chemicals, a perfect pond dye alternative
- Help remove phosphates, ammonia, nitrate and nitrite

#### COUNTER-EFFECTS OF HARMFUL ALGAE BLOOMS

- Ability to immediately place them where needed knowing surface algae will migrate with current and wind to shallower, warmer water area, (perfect storm)
- Starve algae at the source
- Ongoing accrual of colonies of beneficial bacteria to absorb excess nutrients and reduce exposure of bloom stage
- Increase beneficial bacteria and consume

#### CREATE A SAFE HAVEN FOR WILDLIFE

- Create non toxic, aerobic refuge for fish and amphibians as a safe haven during bloom event
- Improve nesting habitat
- Grow plants in deep areas of pond where there are no plant shelves

