

# MD PELLETS

POWERFUL MUCK REMOVING PROBIOTIC



**MD Pellets** are a slow-release probiotic (beneficial bacteria) pellet designed to directly target the muck / sludge layer at the bottom of lakes and ponds. MD Pellets sink to the bottom and penetrate the muck layer to deliver essential bio-stimulants and select bacterial cultures that speed the breakdown of organic debris and muck. This pelletized probiotic reduces the available internal nutrient reservoir on the bottom of lakes and ponds to improve water quality and clarity.

MD Pellets are applied by broadcasting the pellets evenly over the entire surface of the water body or the specific targeted area. MD Pellets **DO NOT** kill aquatic plants or algae.

MD Pellets are recommended for use in lakes, ponds, water gardens, reservoirs and similar water bodies. This product is non-toxic and will not harm fish or other aquatic organisms.

## KEY BENEFITS & HIGHLIGHTS

- Pellet technology sinks and slowly releases directly in the organic sediment layer
- Removes build up of organic matter and reduces nutrient loading
- Boosts biological nutrient removal and improves water quality
- Safe for fish and other aquatic organisms

# Muck Reduction Assessment Using MD Pellets & Bottom Aeration



## Study Summary

Foster Lake and Pond Management (FLPM) began a pond maintenance program with a new HOA in March 2017. On March 22, 2017 an initial assessment of the muck layers was done in pond 6 and pond 7. Pond 6 had an existing aerating fountain centered in the middle of the pond. Pond 7 had a diffused aeration head installed in April of 2017 with no existing aeration prior to the installation. During monthly pond maintenance, a muck reducing bacteria, made by Naturalake Biosciences, was also added to each pond. FLPM added the MD Pellets at a rate of 10 pounds per acre, per month when water temperatures were above 60 degrees. On May 21, 2018, 1 year after starting, sampling of the muck layer was completed. This report will review the results from the last sampling and compare bottom aeration to fountain aeration.

**Average reduction of  
muck depth by**

**41%**

**when MD Pellets are  
combined with bottom  
aeration vs**

**15%**

**average reduction with  
fountain aeration alone**

**Before  
5.625"**

**After  
4.75"**

**Fountain Aeration**

**Before  
6"**

**After  
3.5"**

**MD Pellets & Bottom Aeration**



# Dose Rate

ONCE PER MONTH OR AS NEEDED

Do not mix directly with algaecides or herbicides. If used in conjunction with algaecides or herbicides, apply MD Pellets after chemical treatments for best results.

# Available Sizes

- 10 lb container, bulk
- 30 lb container, bulk
- 50 lb container, bulk

Surface Acres	Targeted Muck Reduction	Muck Maintenance & Prevention	Degradation of Floating Debris
1/2	10-25 lbs	5-12.5 lbs	2.5-7.5 lbs
1	20 - 50 lbs	10 - 25 lbs	5-15 lbs
10	200 - 500 lbs	100 - 250 lbs	50 - 150 lbs
100	2000 - 5000 lbs	1000 - 2500 lbs	500 - 1500 lbs

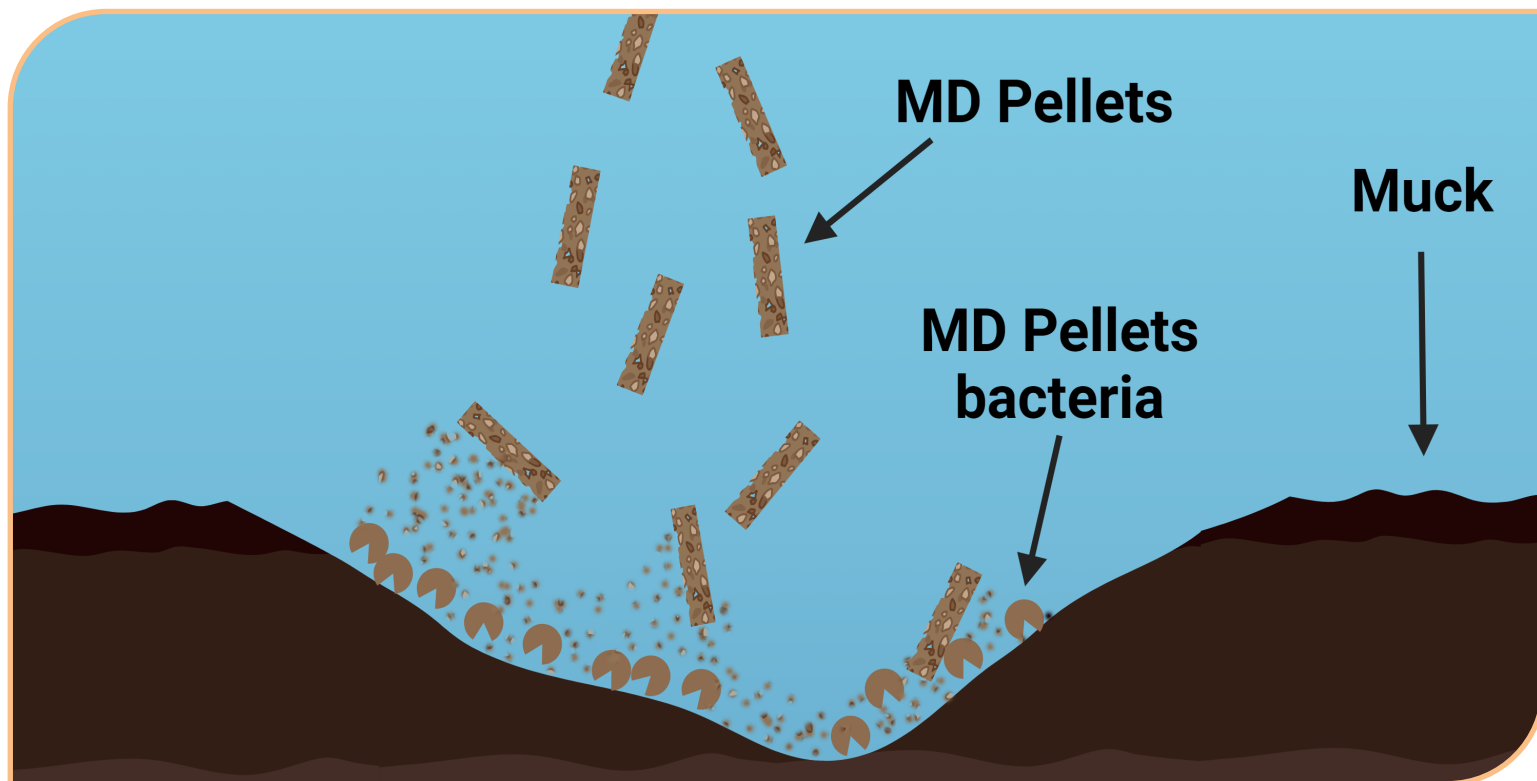


# Professional Tip

MD Pellets are easy to apply from a backpack blower. Stihl and Vortex blowers are commonly recommended by professionals.

# The Science Behind It

Lakes and ponds are catch basins for the many sources of nutrient pollution. Excess nitrogen and phosphorus from animal or fish waste, stormwater runoff, grass clippings or leaves, and fertilizers from agriculture are a just a few examples of the nutrient pollution that eventually settles at the bottom of lakes and ponds. Lake and pond bottoms that are overloaded with these nutrients can experience oxygen depletions, fish kills, or harmful algae blooms that negatively impact the water bodies' recreation and economic uses.



## IMPROVING PROBIOTICS

MD Pellets were formulated through years of research on how to enhance the natural digestion of the organic debris and muck that stores nitrogen and phosphorus. This scientifically tested product works in harmony with natural microbial communities to break down the complex compounds into smaller units and release carbon dioxide, water and energy in the process.

## IMPROVING ALGAECIDES/HERBICIDES

Reducing muck buildup in an aquatic environment can lead to increased capacity, improvements in dissolved oxygen levels, reduced nitrogen and phosphorus compounds, and increased water quality. MD Pellets restore the balance in the aquatic ecosystems on the bottom of lakes and ponds. Real science. Real results.