

BIO-HEALTH POD SYSTEMS



Patented

By  **RIGERO**

Nutrient Reduction System Marco Island Waterways



Patented BioGen-Aeration

HOST → GROW → DISTRIBUTE

Typical Aeration + Bacteria Applications Fall Short

Work continuously, 24-7 producing billions of beneficial bacteria microbes that consume & digest nutrients



Bio-Health Pod
Beneficial Bacteria Grow
Factory

Nano Pods
Beneficial Bacteria
Grow Hubs

Continuous 24-7
powerful treatment



BIO-HEALTH POD SYSTEMS



Our Customers

700+ BHPs

Campgrounds
Marinas

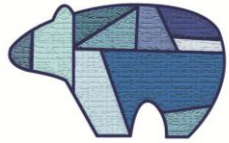
100+ Lakes

Private Ponds
Golf Ponds

300+ Ponds

HOAs
Government

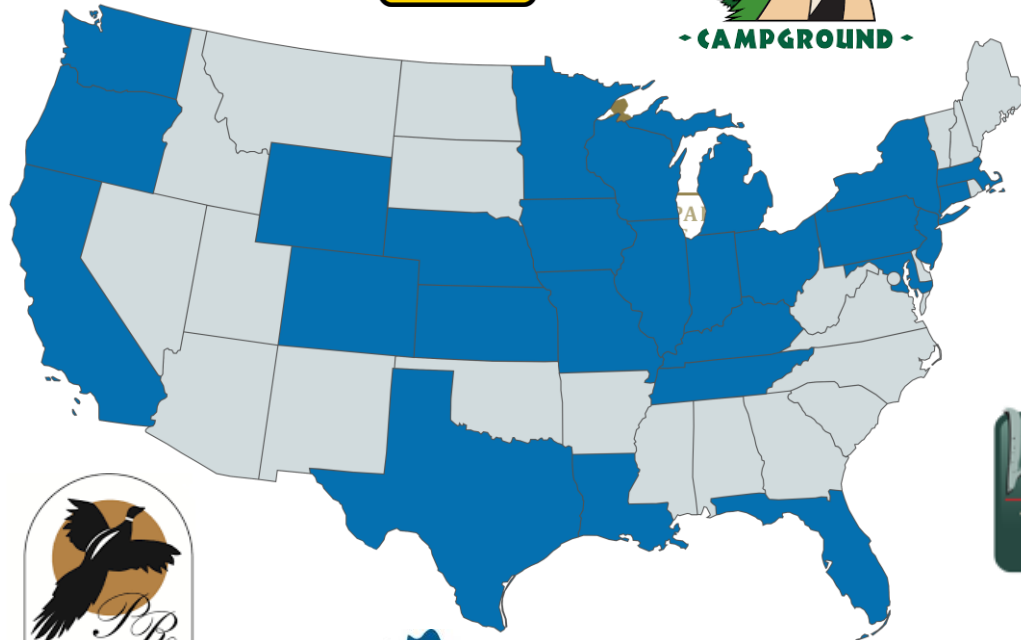
Agriculture
Lakes



Indigo Bluffs



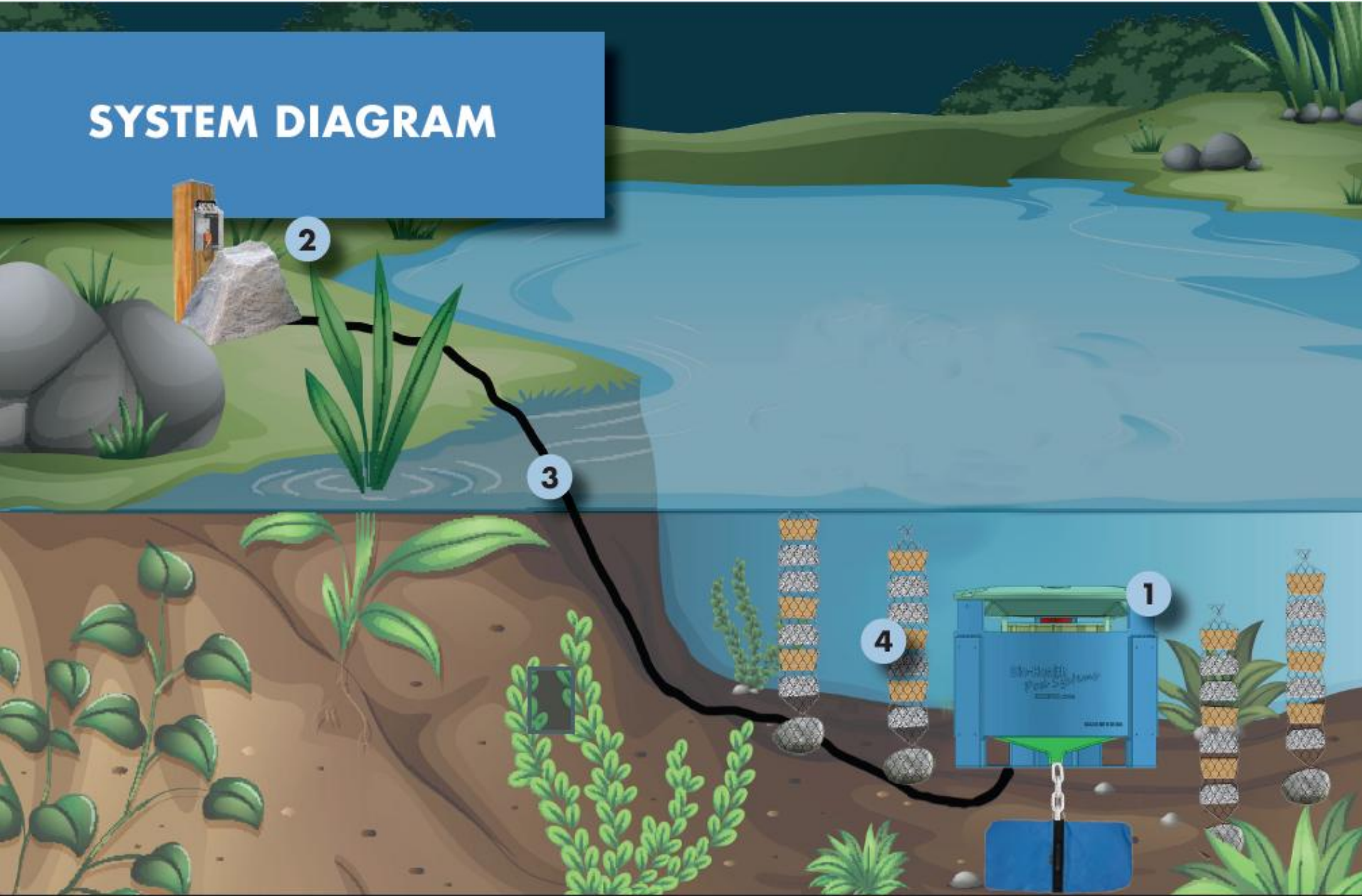
Pheasant Run
Golf Club





**BIO-HEALTH
POD SYSTEMS**

SYSTEM DIAGRAM



Pond Algae Reduction – 7 Hole, Canton Michigan



BEFORE



AFTER



7th Hole Pond Restoration – Canton, Michigan

The Problem

Deep Muck, Heavy Algae, Foul Odor
Unhappy Homeowners & Golfers

2.5-Year Combined Results

Total Muck Reduction On Average 10.38"

Algae Greatly Reduced

Very Happy Neighbors, and Golfers

Results Timeline

2019

- July Bio-Health Pod Installation
- Muck Reduced on Average of -4.38"
- Algae Greatly Reduced
- Foul Odor Gone

2020

- Muck Reduction on Average -2.75"
- Algae low occurrences and smaller blooms
- Foul Odor Still Gone

2021

- Muck Reduction on Average -3.25"
- Early season algae
- July Installation of more Nano Pods
- Algae reduced
- No Odor Problems

Overview

- Testing Period: June 12, 2019 through October 8, 2021
- Muck Test Locations: 4 Locations



Muck Level Change (inches)

Test Locations	1	2	3	4
6-12-19 (Baseline)	0	0	0	0
10-23-19	-4.5	-3.5	-4	-5.5
10-15-20	-3.5	-4	-2	-1.5
10-15-20 to 10-8-21	-4	-2	-4.5	-2.5
Total Muck Level Change	-12"	-9.5"	-10.5"	-9.5"

Before



Woodland Lakefront Muck & Lily Pad Reduction

1 Year



3 Years



"We have next to zero noticeable lily pads and very few weeds! I would recommend the system to anyone who has muck and/or excess lake weeds."

Dave Buckenberger
Lakefront Homeowner

Private Lakefront Woodland Lake, Brighton MI

The Problem

Deep Muck, and Heavy Lily Pad Growth

1.5-Year Combined Results

Total Muck Reduction On Average 6.41"

Muck Level Change (inches)

	1	2	3	4	5	6
8-14-18	0	0	0	0	0	0
10-22-18	-4	-3	-5	-3	-3	-5
10-22-18 to 10-20-29	-3	-1.5	-2	-3.5	-3.5	-2
Total Muck Level Change	-7	-4.5	-7	-6.5	-6.5	-7

Overview

- Testing Period: Aug 14, 18 through October 20, 19
- Muck Test Locations: 4 Locations



Campground Water Lake & Pond Restoration Pardeeville, Wisconsin Algae & Muck Reduction



BAD FOR BUSINESS

TRANSFORMATION



HAPPY CAMPERS



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POD SYSTEMS**

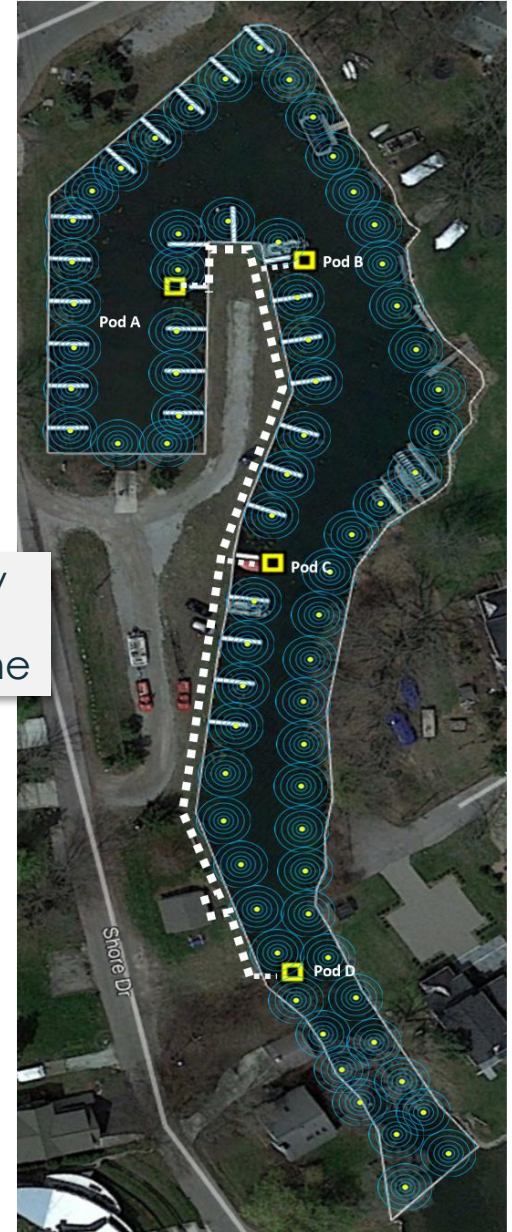
Marina Restoration – Orchard Lake, MI

Marina

BEFORE

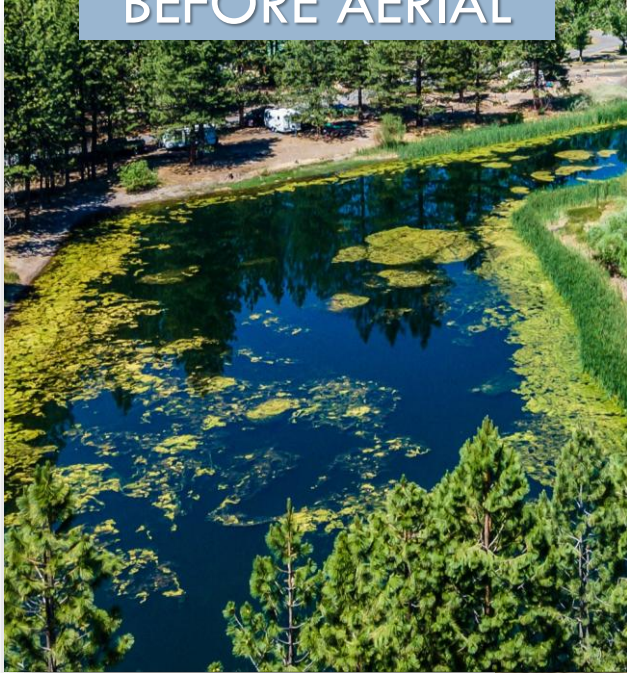
"The algae was terrible, now it's just a healthy ecosystem, all thanks to your product."
Brad Filips - Past Pres., Shady Beach Marine

AFTER



Campground Algae Reduction - Northern California

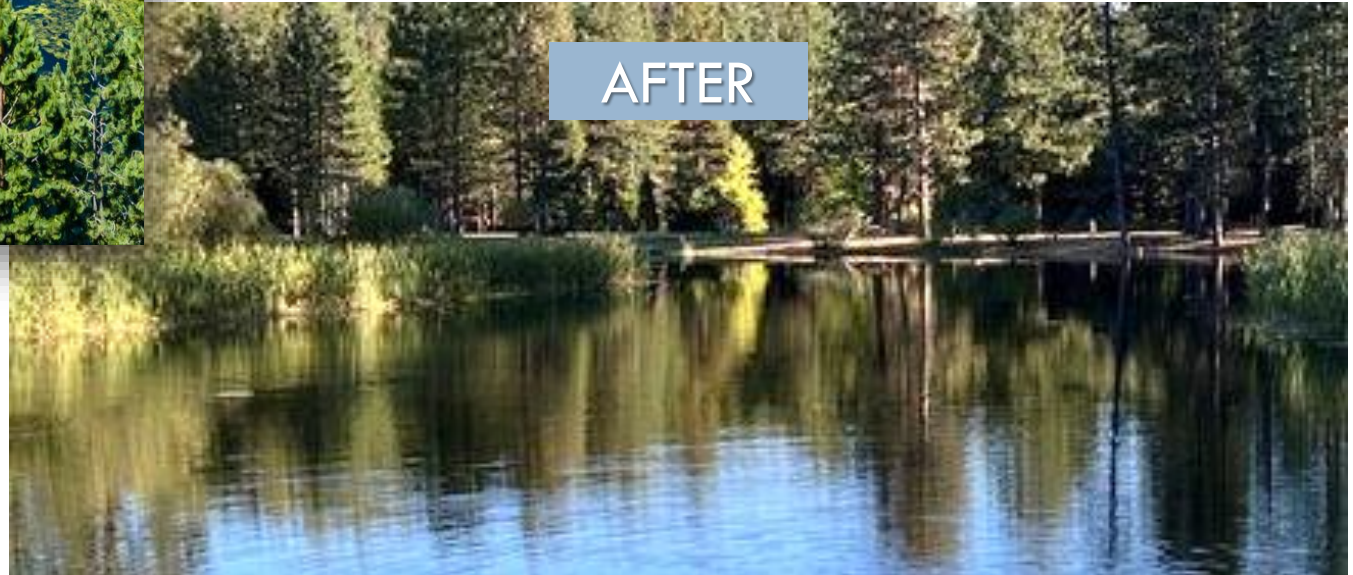
BEFORE AERIAL



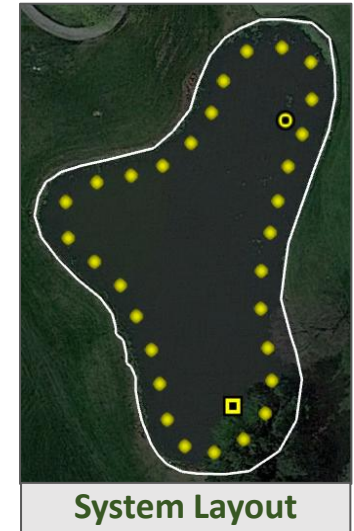
BEFORE



AFTER



Country Club Irrigation Pond Transformation - Ann Arbor, MI



Preliminary Locations for Initial Pilot

Canal Between
N Barfield & Juniper Ct




Canal Between
Orleans Ct & Begonia Ct



N Barfield / Juniper Canal



Key

-  Bio-Health Pod
-  Air Pump
-  Air Hose

Details

2.45 Acres

1050 Ft Long

Equipment




9 Bio-Health Pod

150 Nano Pods

Orleans / Begonia Canal



Key

-  Bio-Health Pod
-  Air Pump
-  Air Hose

Details

1.45 Acres
635 Ft Long
Equipment
6 Bio-Health Pod
100 Nano Pods



Pilot System Cost

Description	Qty	Unit Price	Total Cost
Bio-Health Pod Anchor Mount Systems: (Includes 150 Nano Pods, 750 ft Weighted Air Hose) MSRP	15	\$6,500.00	
<u>*15 UNIT</u> Bio-Health Pod System Membership Pricing			\$48,000.00
Additional Nano Pods (Case of 10)	10	\$690.00	\$6,900.00
*Additional Weighted Hose Per Ft (Estimated)	750	\$2.50	\$1,875.00
Installation – Includes: Customizations, Labor, Materials, Travel Expenses			\$10,100.00
Shipping Via LTL Freight (Estimated)			\$1,750.00
Total \$68,625.00			

Pilot Yearly Cost After First Year

Recharge Every 4 Weeks

Recharge Kits (1 Per Season Per BHP)

Includes **12 Bio-Health Blend Cartridges & 1 Nest Layer**

Description	Qty	Price	Total Cost
Recharge Kit with 12 Bio-Blend Cartridges & 1 Nest Layer	15	\$1,550.00	\$23,250.00
Marco Island Discounted Price	15	\$1,000.00	\$15,000.00
Yearly Maintenance by RIGERO			\$4,500.00

Yearly Total Cost (after 1st year) \$19,500.00

Cost Per 1 Mile of Canals – 50 Bio-Health Pods

(Up to 125 ft avg width)

1 Mile Year 1 Total Cost Includes Upfront Costs, Serv. Mnt. & Electric	\$230,000
Yearly Run Cost (after 1st Year)	\$65,000
1 Mile of Canals 3-Year Total Cost	\$360,000
1 Mile of Canals 3-Year Amortization	\$120,000

Key Points for Bio-Health Pod System Pilot Program

- **Power Nutrient Reduction**
 - Lowers suspended phosphorus & nitrogen levels
 - Reduces organic muck restoring depth & volume
 - Promote healthy, beautiful aquatic systems
- **Very Cost Effective**
 - Much less expensive than dredging
 - Avoid dredging in areas where Bio-Health Pods can solve the issues.
 - Focus dredging on specific areas to save money
- **Affordable to Pilot** – Very low risk, very high reward
- **Can Start Now** – Install, Test, & Expand
- **Will Complement Other Efforts / Approaches**
 - Not a silver bullet, but rather a powerful tool in the toolbox
- **All Natural**
- **Simple Plan To Solve The Core Issue Of Excessive Nutrients**
 1. Pilot
 2. Lower Nutrient Levels
 3. Expand the program
- **Brackish Water & Beneficial Bacteria**
 - Beneficial bacteria used in oil spills
 - Used in aquaculture