



MICROBE-LIFT® Restores Retention Pond at South Point Office Park in Jacksonville, FL

Location: South Point Office Park, Jacksonville, FL

Background: This 12-acre office park in Florida was designed with a one-acre pond at its bottom edge for water retention. However, as the surrounding areas were maintained with fertilizers and pesticides the pond became filled with surface scum creating a very unattractive eyesore. The primary points of pollution were run-off from fertilizer applied by the lawn care company, grass clippings from the lawn maintenance company, storm water from the parking lot, and debris from surrounding trees. The pond had been previously treated by a different company with chemical algaecide and blue dye to remediate algae but this treatment was not effective long-term.

Objective: In search of improved remediation technology, the management company discovered **MICROBE-LIFT®** technology. **MICROBE-LIFT®** (ML) is a series of biological products marketed by Applied & Experimental Microbiology (AEM) of Jacksonville, FL, often under the private label of **Quantum Growth®**. This biotechnology-based product line is manufactured by **Ecological Laboratories Inc.**

When contacted, AEM's technical staff evaluated the problem. They determined that the pond had a significant layer of debris, including leaves, branches, and 3 to 4 inches of bottom solids. In addition, there was high nitrogen loading from grass clippings and fertilizer. Initially, AEM removed approximately 35% of the surface muck by raking it off from the bank. Then they implemented a **MICROBE-LIFT®** dosage schedule as follows:

Dose	ML Gal	ML SA Gal	ML PBD 8 oz packets	ML BSF 40 lb bag
Initial Dosage	8	3	20	1
Weekly Doses (4)	2	1	4	
Monthly Maintenance	2	.25	2	

Results achieved:

After initiation of treatment in May of 2007, water clarity improved within 48 hours and the offending green water condition was completely gone by September.

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Results achieved

After initiation of treatment in May of 2007, water clarity improved within 48 hours, and green water events ceased by September 2007.

BEFORE



AFTER

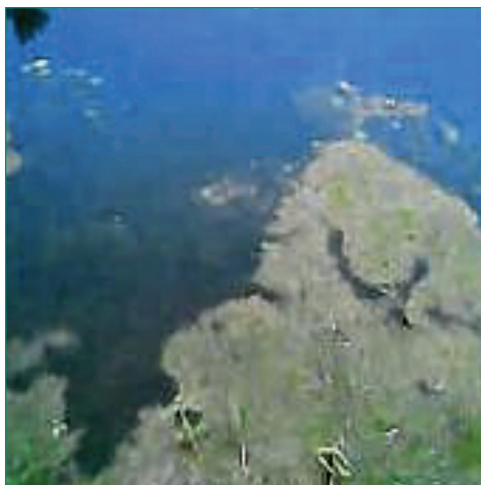
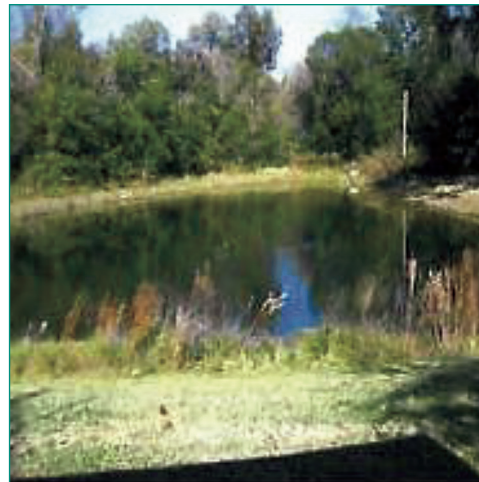


Fig. 1: The “before” pictures on the left are not indicative of the actual coverage of the surface muck on the pond because the wind had blown it to one side. On a calm day the coverage was actually 80% of the surface area.

The office park management was very pleased with the results and the very small maintenance dose required to maintain a clear and aesthetic pond.

For more information on MICROBE-LIFT® Technology contact
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CS17112