



## Private Equestrian Park Uses MICROBE-LIFT® to Restore Two Ponds

**Location:** Private Equestrian Park, St. Johns County, FL

**Background:** The design of this privately held, large equestrian park included 3 acre, 1 acre, and 0.5 acre ponds. These ponds became polluted from high levels of organics and inorganics from the surrounding environment, as well as fertilizer run-off from its use on surrounding grass and other landscape features. Eutrophic conditions had developed and there was no longer aquatic life in the ponds.

In search of a solution, the management 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.**

**Objective:** When contacted, AEM's and ELI's technical staff assessed that the ponds had very little bottom solids or leaves and twigs but did have high levels of nutrient, which caused the high organic loads resulting in eutrophication. They implemented a MICROBE-LIFT® dosage schedule to the one acre pond as follows:

Dose	ML Gal	ML SA Gal	ML PBD 8 oz packets	ML BSP 40 lb bags
Initial Dosage	8	3	20	5
Weekly doses (4)	2	1	4	
Monthly Maintenance	2	.25	2	

**\*Note:** Dosage for the one-acre pond is provided. Dosages for the other ponds were extrapolated from this dosage.

The pond treatment was initiated in December 2006. The eutrophic conditions were substantially reduced in the following few months. The most notable observations were made on the ponds' ecosystem and water quality. Predatory waterfowl and snakes were observed the following May. An alligator sighting was reported by a construction worker in June. The most notable observation was the absence of odor.

For more information on MICROBE-LIFT® Technology contact  
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