

# 2006 Lake Water Analysis Report Update To the Lake Monticello Board of Directors

15 June 2006

Lake Preservation is well into our annual lake quality, testing program. We have scheduled 12 testing days this year and have already completed 4. Our basic program has not changed for 2006. Within the 12 testing sessions, we sample three times for nutrients, pH, alkalinity, dissolved oxygen, and clarity, 11 times for E-coli monitoring, 5 times for sediment measurements, 6 for hydrilla, and 2 for Hydrogen Sulfide.

I would like to highlight a few of the sample results:

**Dissolved Oxygen:** Our initial sampling session has DO higher than last year, even as deep as 10 meters. This is good for the fish population. As the water gets hotter they need to dive deeper to cooler water. Incidentally, the Thursday Bass Club is reporting larger and heavier fish than last year. Our fishermen are pleased with the improved conditions.

**Clarity:** Remains good...No change

**Nitro/Phosph:** Both are down from last year, but even better, they are at a 10 to 1 ratio across the entire lake, which is great. Traditionally these nutrient levels increase during the warm season. This increase raises our susceptibility to algae blooms.

**Hydrilla:** Hydrilla is still in the lake; it did not graciously decide to leave. We did not see any evidence of hydrilla on our two scheduled sessions; however, I have some now growing between my bulkhead and dock stairs, where the big fish cannot reach it. We did not see any around the Marina docks on Tuesday, but we did receive a homeowner report of Carp feeding vigorously in his cove. Again, hydrilla is in the lake, its growth season is upon us, and so far in check. Hopefully, the hydrilla will remain in check this year, as it has in the past two years.

On the subject of **CARP:** We again received permission from the State to add more carp to the lake. This year we also placed some of the allocation in the golf course ponds, to help with the hydrilla infestation there.

**E-coli:** We have tested 4 times and the numbers are great. Tuesday was our latest testing session. We are in our bi-weekly testing period to keep up with the swimming season. We test again on the 28<sup>th</sup>, just prior to the busy holiday weekend. Again this year, AquaVirginia's efforts are helping to keep the lake cleaner. This year I have only received one sewage spill incident.

**Sedimentation:** This is our second year of sampling. We are expanding our sampling locations to develop a database and get a fuller picture of our 4 major coves. From our first sampling session of 2006...

**Van Buren:** 36 inches...last year's site average 7.5  
**Jackson:** 60 inches...last year's site average 14.5  
**Monroe:** 24 inches...last year's site average 8.1  
**Adams:** 36 inches...last year's site average 46

Finally,

**Loose Leaves and Silt (LLS) Removal:** Working with the LMOA staff, we have received a permit from the Corps and DEQ, which is valid through 2008, to remove LLS from the lake. We have made a minor drawing change to a required structure, requested by Fluvanna County, and should have the county onboard by month's end. We have a few serious vendors, and over 72 interested homeowners. We expect to be able to begin operations this October.

**Bottom Line:** The lake is healthy

This concludes my update and will answer any questions.

Respectfully submitted,

Rich Barringer