



Log Details - #8

Aurora Lake

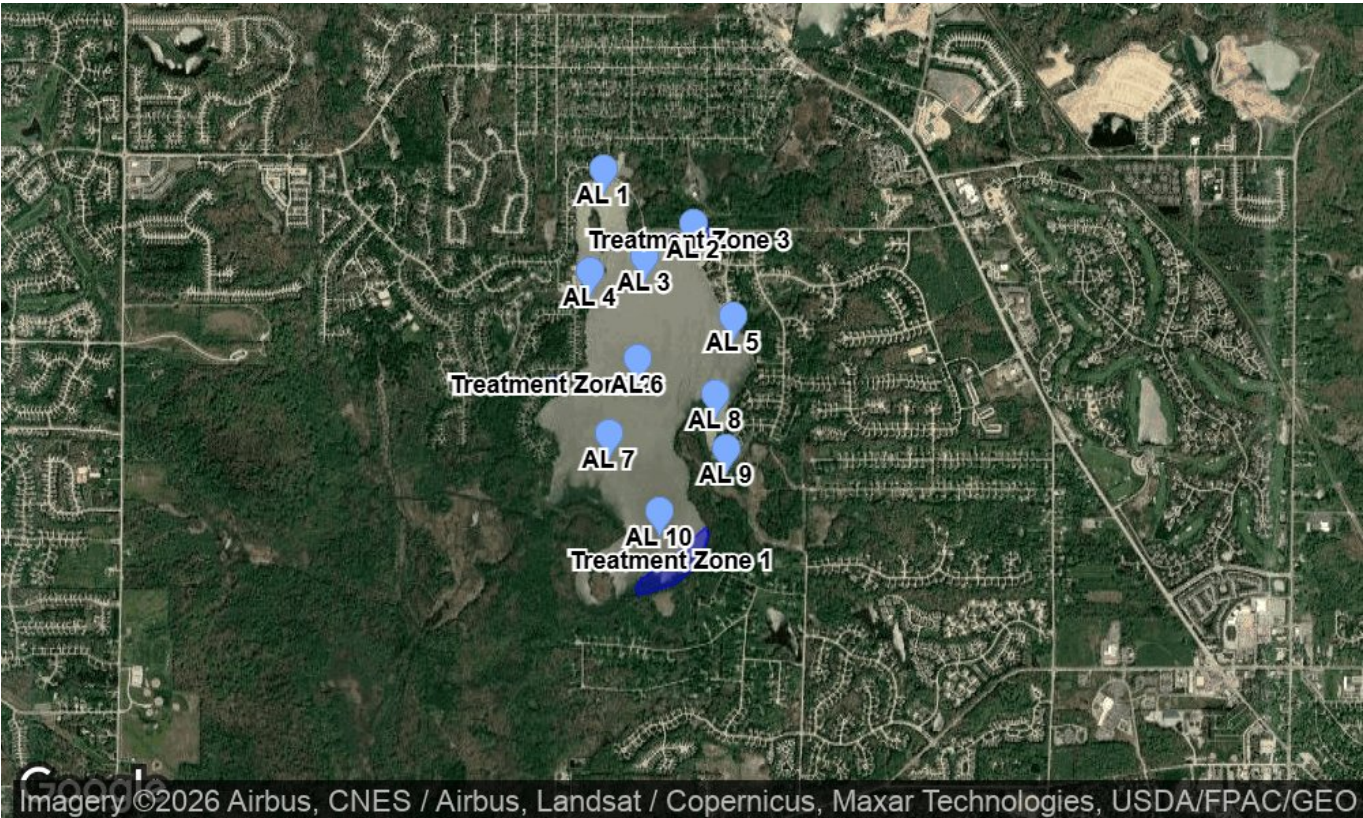
1206 Surfside Cir, Aurora, OH 44202,
USA

General Info

General Info

Weather Data				General Information	
Temperature	85°F			Start Date/Time	08/05/2026 10:30 AM
Conditions	Rain	Wind	3.07 mph South-East	Lead Staff	Ed Kwietniewski
				Additional Staff	Zachary Hughes
Humidity	60%	Pressure	1017 hPa		
Sunrise/Sunset	6:25 AM / 8:37 PM				

Map



Map Graphics

Type	Coordinates	Label	Area	Perimeter
polygon	41.322461, -81.384472	Treatment Zone 1	11.5 acres	3623 ft
polygon	41.330824, -81.392004	Treatment Zone 2	1.2 acres	899 ft
polygon	41.337607, -81.383357	Treatment Zone 3	3.5 acres	2263 ft
marker	41.334934, -81.389631	AL 4	N/A	--
marker	41.337174, -81.383108	AL 2	N/A	--
marker	41.330809, -81.386605	AL 6	N/A	--
marker	41.332775, -81.380597	AL 5	N/A	--
marker	41.327281, -81.388429	AL 7	N/A	--
marker	41.329118, -81.381691	AL 8	N/A	--
marker	41.335611, -81.386155	AL 3	N/A	--
marker	41.326555, -81.381048	AL 9	N/A	--
marker	41.339767, -81.388743	AL 1	N/A	--
marker	41.323558, -81.385232	AL 10	N/A	--

Depth Profile

Aurora Lake 1 | 08/05/2026 10:25 AM

No depth profile data recorded.

Observation

Species	Type	Severity	Location	Treated
Cyanobacteria	Other	High	Site Wide	Yes

Species	Type	Severity	Location	Treated
Eurasian watermilfoil	Submerged plants	Very slight	Aurora Lake 1	No

Products and Services

Item	Amount	Units	Rate	Rate Units	Inventory	Location	Target	Method	Notes
Chemical Target: Algae Method: Boat Notes: Cyanobacteria Control in Mapped Zones Above.									
Copper Sulfate	0		1	ppm	none	Site Wide	Algae	Boat	Cyanobacteria Control in Mapped Zones Above.
Chemical Type: [object Object] EPA ID: 56576-1 State #: N/A Active Ingredient: Copper Sulfate Pentahydrate									

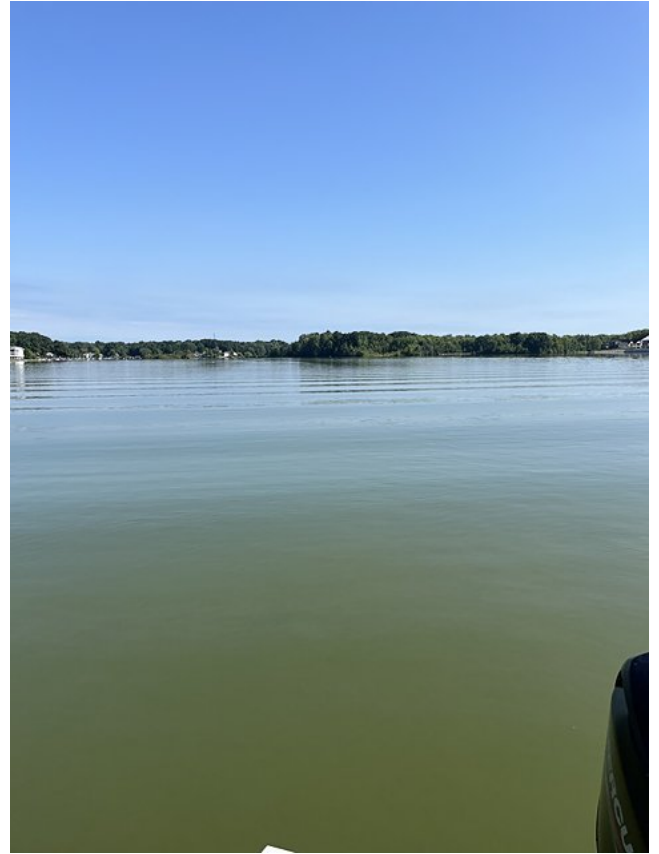
Restrictions

Restriction	Days	Notes
Swimming	-	None
Drinking	-	None
Contact	-	None
Irrigation	-	None
Fishing	-	None

Photos



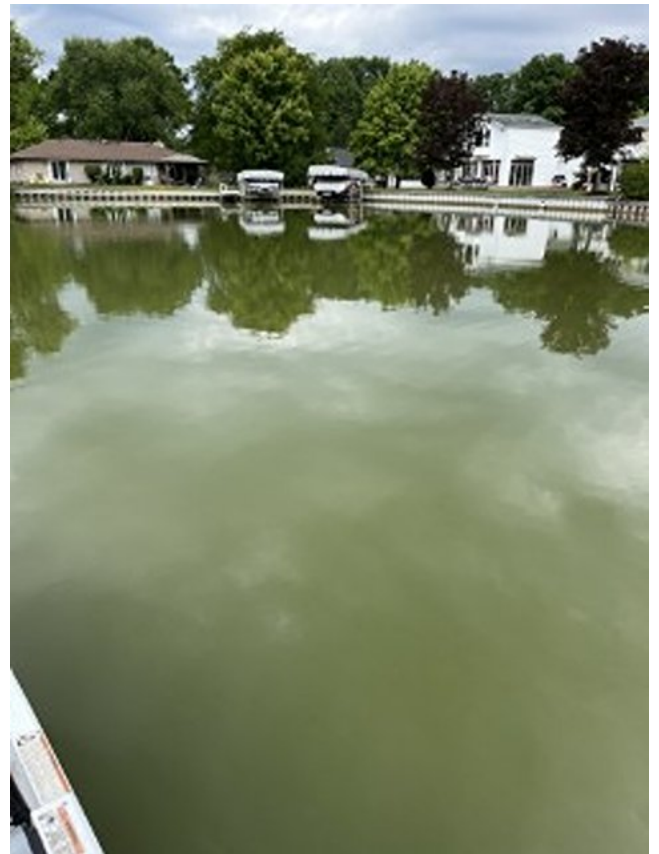
Near launch 8/5/2026



Center of lake 8/5/2026



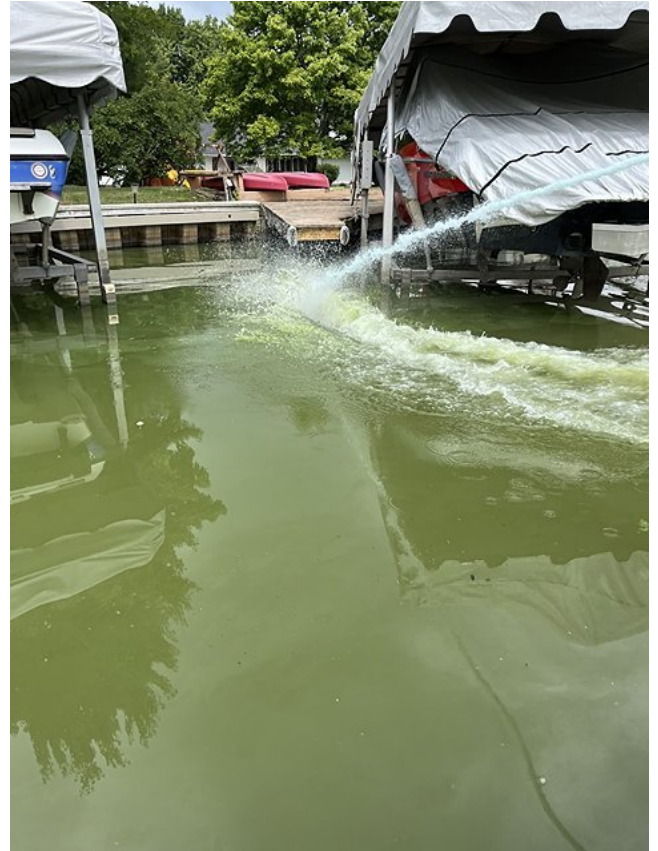
Center of lake 8/5/2026



West Cove 8/5/2026



Concentrated cyanobacteria in West Cove
pre-application 8/5/2026



Application of West Cove 8/5/2026



White film bubbles from spray adjuvant
post-application of West Cove 8/5/2026



Condensed cyanobacteria at southern end of lake
8/5/2026



Condensed cyanobacteria at southern end of lake
8/5/2025



Treatment of cyanobacteria at southern end of lake
8/5/2026



Example of rooted submersed milfoil 8/5/2026



NE Cove 8/5/2026



Coontail (*Ceratophyllum demersum*) found in lake
8/5/2026

Notes

AQUA DOC - Visitation 8 - 8/5/2026

AQUA DOC conducted our 8th visitation of the 2026 season on 8/5/2026. The lake was experiencing a higher amount of algae density throughout the lake which had us conduct our second application of the season (first was 5/28/2026). Unfortunately, there was no significant wind direction to condense all of the algae to one end of the lake. However, algae levels (chlorophyll-a) was higher at the southern end of the lake and contained a larger amount of the visual bloom. These observations prompted us to focus our treatment at the southern end of the lake (similarly to the May application) but we also treated in the West Cove and NE Inlet. In addition to the treatments, general water quality work was also conducted including a depth profile at the deep point of the lake, chlorophyll-a spot checking at our 10 sample locations, and wet chemistry including E.coli at the beaches, Microcystin, and total phosphorus. It should be noted that our first observation of submersed, rooted vegetation was made during today's visit with Eurasian watermilfoil being found rooted at the NE inlet. Coontail was also noted floating in the lake (pics above).

Depth profile data highlight observations from previous visitations with the lake showcasing weak thermal stratification and hypoxic conditions closer to the bottom of the lake. ORP values remained positive. pH levels were normal for a typical Ohio reservoir. Chlorophyll-a and phycocyanin concentrations were registered as the highest we have observed so far this season. This is true for

the deep point sampling as well as the spatial chlorophyll-a sampling which was as high as 20 plus ug/L in areas of the southern end of the lake (AL 10, AL7). Although we primarily treated the southern end of the lake due to this substantial increase, it is unlikely that ALL of the algal biomass will be controlled. A larger scaled application would be necessary to accomplish whole-lake algal elimination. Rather, the goal was to reduce concentrated algae density as much as possible while limiting chemical usage in the lake. Specific spatial chlorophyll-a levels are described below:

AL1: 10.06 ug/L
AL2: 5.97
AL3: 12.23
AL4: 8.72
AL5: 6.38
AL6: 9.72
AL7: 21.26
AL8: 11.12
AL9: 14.43
AL10: 20.45
Cove: 10.85

Buoy data did showcase a substantial increase in phycocyanin levels over the past week likely due to concentrated cyanobacteria movement through wind action. Levels have been in decline over the past 2 or so days since before the visitation. We will watch closely to see if concentrations rebound to substantial levels to be able to schedule a quick application appearance if necessary.

Concerning E.coli or Microcystin sample levels will be reported as soon as results are returned.

We will return in approximately 2 weeks from this visit.

Thanks!