



Log Details - #3

Aurora Lake

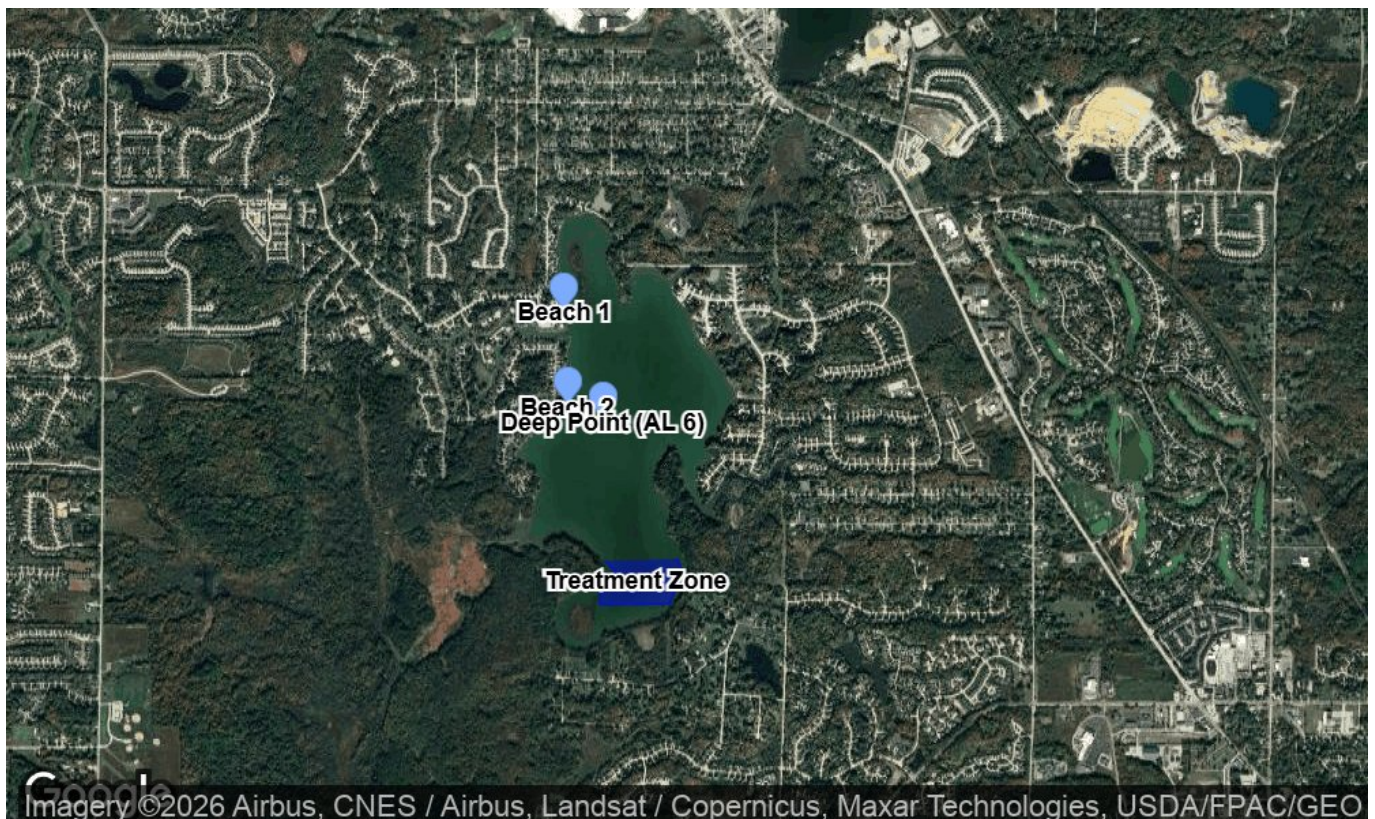
1206 Surfside Cir, Aurora, OH 44202,
USA

General Info

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Weather Data				General Information	
Temperature	67°F			Start Date/Time	05/28/2026 10:30 AM
Conditions	Clear	Wind	4.77 mph North	Lead Staff	Ed Kwietniewski
Humidity	44%	Pressure	1019 hPa	Additional Staff	
Sunrise/Sunset	5:56 AM / 8:49 PM				

Map



Map Graphics

Type	Coordinates	Label	Area	Perimeter
marker	41.335859, -81.390009	Beach 1	N/A	--
marker	41.331364, -81.389762	Beach 2	N/A	--
marker	41.330671, -81.387531	Deep Point (AL 6)	N/A	--
polygon	41.323177, -81.385211	Treatment Zone	22.0 acres	4241 ft

Observation

Species	Type	Severity	Location	Treated
Microcystis	Algae	Low	Site Wide	Yes

Photos



Boat launch



General appearance of water 5-28-2026



spatterdock in northwest cove



Image of beach



AL 6 (deep point)



slight wind coming in from north



Microcystis "balls" at southern end of lake



Microcystis "balls" at southern end of lake



Application of copper sulfate



Application of copper sulfate

Products and Services

Item	Amount	Units	Rate	Rate Units	Inventory	Location	Target	Method	Notes
Chemical Target: Algae Method: Boat Notes: Micocystis control									
Copper Sulfate	0		1		none	Aurora Lake 1	Algae	Boat	Micocystis control
<i>Chemical Type: [object Object]</i> <i>EPA ID: 56576-1</i> <i>State #: N/A</i> <i>Active Ingredient: Copper Sulfate Pentahydrate</i>									

Restrictions

Restriction	Days	Notes
Swimming	-	N/A
Drinking	-	N/A
Contact	-	N/A
Irrigation	-	N/A
Fishing	-	N/A

Notes

Visitation 3 - 5-28-2026

AQUA DOC conducted our 3rd visitation to Aurora Lake today to assess the lake. Today we noted planktonic Microcystis growing in the water (not Aphanizomenon). The Microcystis was presented as round "blobs" in the water column (picture above) and does this due to mucilage allowing colonial cells to "stick" together. YSI data was not available during today's visitation, but a nutrient sample and microcystis sample was collected at the deepest point of the lake (AL 6) along with E.coli samples at the lake's beaches (Beach 1 and 2).

A slight amount of wind was blowing in from the north to the south causing masses of Microcystis "blobs" to be present at the southern end of the lake (pictures above). It was decided to treat the southern end while the Microcystis was condensed at this end of the lake. Although not as condensed as previously seen in northern coves, getting on top of the mass "blobs" could help slow potential growth into the coming weeks. We treated at approximately 1.0 ppm of copper sulfate along the southern cove (figure above in map). Concentration of product was applied slightly higher at the northern end of the treatment zone to take advantage of the wind direction in spreading product. Boat speed for application remained between 2.5 - 3.0 mph and we treated in an east-west direction to accommodate the entirety of the cove width. It is anticipated that this application will at least reduce a substantial chunk of noted Microcystis growth but, not all of it in the lake.

The monitoring buoy also had maintenance conducted on it while visiting today, cleaning off and accumulated debris on the sensors and outer casing. The buoy appears to be functioning perfectly well. A noted substantial increase in chlorophyll-a was noted last week. This could be attributed to movement of algae into the cove causing a spike potentially due to wind. The chlorophyll may have backed up once wind changed direction or subsided. Please keep in mind that algae cell size is important to the readings generated by chlorophyll sensor. The large "blob" cells noted during today's visit would not register as a substantial amount of increased chlorophyll despite its appearance in the lake. This highlights the importance of watching trends with the incoming data in combination with physical observations.

We will return for another assessment in 2 weeks. Thanks!