



Northeast Aquatic Research, LLC

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74 Higgins Highway
Mansfield Center, CT 06250
July 20, 2022 (Provisional data)



TO: Residents of East Hampton, CT
ATTN: Jeremy Hall, Parks and Recreation Director
Town of East Hampton Conservation Lake Commission
FROM: Hillary Kenyon, Limnologist & Certified Lake Manager

RE: Results from July 2022 Water Quality Monitoring Visit

Please see the water clarity and oxygen profile results from the July 11, 2022 monitoring visit. Water clarity was very similar across all monitoring stations and slightly worse than clarity values recorded in June 2022. Some dissolved oxygen loss was observed at the bottom of Oakwood and South stations. The lake was green throughout. Water samples were taken and sent to the laboratory for nutrient analyses. The lab has not yet reported nutrient test results from May or June, follow-up reminders have been sent and we expect to see test results shortly. Cyanobacteria cell counts are elevated in the water column per usual, but it seems that the cyanobacteria have not accumulated on the surface enough to create any noticeable surface scums in public swim areas. The dominant taxa are currently Dolichospermum (Anabaena), Microcystis, and Planktolynbya.

Markham Station (41.59949, -72.49493)

Sampling Date: 07/11/22
Water clarity: 1.2 meters
Water depth: 8.0 meters
Weather: Sunny/bright, light breeze

Depth (m)	Temp (°C)	Oxygen (mg/L)	Oxygen Saturation %
0	26.8	8.1	103
1	26.5	8.2	103
2	26.2	8.2	103
3	26.0	8.3	103
4	26.0	8.4	105
5	25.9	8.1	102
6	25.8	7.5	93
7	25.9	8.0	99
8	25.8	7.6	95

Island Station (41.59668722, -72.50117)

Sampling Date: 07/11/22
Water clarity: 1.15 meters
Water depth: 5.8 meters
Weather: Sunny/bright, light breeze

Depth (m)	Temp (°C)	Oxygen (mg/L)	Oxygen Saturation %
0	25.8	8.5	101
1	25.8	8.4	99
2	25.8	8.4	98
3	25.7	8.3	97
4	25.7	8.3	97
5	25.6	8.2	96
5.8	25.0	7.8	91

Oakwood Station (41.59758, -72.50849)

Sampling Date: 07/11/22
Water clarity: 1.2 meters
Water depth: 10.5 meters
Weather: Sunny/bright, light breeze

Depth (m)	Temp (°C)	Oxygen (mg/L)	Oxygen Saturation %
0	25.8	8.6	101
1	25.5	8.6	101
2	25.5	8.3	98
3	25.5	8.1	95
4	25.4	8.0	94
5	25.4	8.0	94
6	25.4	8.0	94
7	25.4	7.9	92
8	25.4	6.5	73
9	25.1	5.0	58
10	23.3	2.2	26
10.5	23.7	0.2	2.3

South/Outlet Station (41.587383, -72.501875)

Sampling Date: 07/11/22
Water clarity: 1.2 meters
Water depth: 3.5 meters

Depth (m)	Temp (°C)	Oxygen (mg/L)	Oxygen Saturation %
0	26.3	8.8	111
1	26.0	8.9	111
2	25.7	8.2	105
3	25.4	5.8	70
3.5	25.2	5.0	61