

Glen Echo Water Testing (September 2023)

Date: September 15, 2023

Weather: Mostly Cloudy and windy, 60s

Daytime Avg.Temp (48hrs). – 70's, Weather (48hrs) – P. Cloudy/Sunny

Site	Depth (M)	Secchi (M)	Temp (C)	Temp (F)	RDO (mg/L)	pH	Cond. (uS/cm)	Turb. (NTU)
Dam	0.5		22.8	73.05	7.65	7.8	156.9	1.15
Dam	1.5		22.8	73.05	7.12	7.47	157.2	1.17
Dam	2.5	2	22.77	72.98	7.02	7.39	157.2	0.82
Dam	3.5		22.78	73	7.01	7.34	157.3	1.13
Dam	4		22.76	72.97	7.03	7.27	157.3	1.55
RT 31 Outlet	0.5		22.9	73.22	7.92	7.31	157.8	1.54
2 Sunset	0.5		22.85	73.14	7.63	7.26	158.1	0.97
83 Sunset	0.5		22.91	73.23	7.96	7.26	157.4	1.31
Narrows	0.5		22.99	73.39	7.87	7.25	157.4	0.97
Red Buoys North End	0.5		22.03	71.66	7.51	7.18	152.8	1.45
Jackie	0.5		22.84	73.12	7.06	7.19	157.1	1.14

	Secchi (M)	Temp.C	RDO mg/L	pH	uS/cm	NTU
Excellent Readings	> 4.5	<25.0	>= 6	6.5 – 8.0	<120	0-1.0
Good Readings	3 to 4.5	<= 27	5 to 6	6.5 - 8.5	>120.1	1.1.–5.0
Fair Readings	1.2 to 3	<= 28.3	4 to 5	6.0 - 9.0	>240	5.1-- 10
Poor Readings	< 1.2	>28.3	<4	<6.0, >9.0	>360	>10

Secchi and Turbidity (NTU) – Measure of the cloudiness in the water, can be caused by soil erosion, run-off, waste discharge, algal growth, boat traffic and pollen.

Temperature (C) – Measure of the temperature of water which has an impact on the dissolved oxygen, weed and algal growth, and the fish.

Dissolved oxygen (mg/L) – Measure of dissolved oxygen, colder water holds more oxygen, fish become stressed at levels below 4mg/L. At 10C – 11.3 mg/L, at 30C – 7.5mg/L

pH - Measure of the acid/alkaline relationship in a water body.

Conductivity (uS/cm) – Measure of dissolved inorganic solids such as road salt, fertilizers, or contaminants from a failed septic system.