

Glen Echo Water Testing (September, 2018)

Date: September 21, 2018

Weather: Sky – Cloudy, 60's

Daytime Avg.Temp (48hrs). – 60's, Weather (48hrs) – Cloudy

Site	Depth (M)	Secchi (M)	Temp (C)	Temp (F)	RDO (mg/L)	pH	Cond. (uS/cm)	Turb. (NTU)
Dam	0.5		20.53	69	7.62	7.21	171.4	1.4
Dam	1.5		21.32	70	7.52	7.22	170.4	2.1
Dam	2.5	2.6	21.33	70	7.43	7.22	170.5	1.5
Dam	3.5		21.01	70	5.21	7.22	171.8	2.1
Dam	4.5		20.17	68	2.36	7.18	173.4	2.8
Rte 31 Outlet	0.5		20.92	70	7.89	7.24	170.3	2.2
North Inlet	0.5		20.68	70	7.27	7.34	165.7	1.8
Narrows	0.5		20.78	70	7.11	7.29	169	1.6

	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.

The **Secchi** disk, as created in 1865 by Angelo **Secchi**, is a plain white, circular disk 30 cm (12 in) in diameter used to measure water transparency or turbidity in bodies of water. The disc is mounted on a pole or line, and lowered slowly down in the water.

Secchi disk - Wikipedia

https://en.wikipedia.org/wiki/Secchi_disk

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.

