



BIOLOGIST:
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Call/Text with any questions!



FIELD NOTES SUMMARY

Customer: Town of Winchester Recreation Department (Wedge Pond)

Site Location: Winchester, MA

Date: 5/19/23, 10:00 AM

Observations / Notes: On May 19th, Aquatic Biologist, Scott Conrade, completed a site visit to Wedge Pond. The visit consisted of performing a survey and collecting basic water quality data. Conditions during the visit were sunny and 54 degrees F.

Upon arrival, a survey was conducted using visual observation paired with a standard throw-rake and handheld GPS/ArcGIS Field Maps, as applicable. The purpose of the survey was to gauge a baseline of 2023 Spring conditions as well as to guide the timing and necessity of the planned proactive algacide treatment. During this survey a plethora of native species were observed in varying densities. These species included coontail, elodea canadensis, thin leaf pondweed, sago pondweed, benthic filamentous algae, and waterlily species. All of these species were observed in trace to sparse densities. Curly leaf pondweed (invasive) was also detected during the survey. This occurred in trace to moderate densities throughout Wedge Pond. The densest areas were located near the inlet, allowing it to feed the rest of the pond. The curly leaf was only half way through the water column in most occurrences. Some consideration to curly-leaf pondweed management should be considered in subsequent years. Curly-leaf pondweed is a colder water invasive species which typically dies off late in June or early July.

While on-site, basic water quality was collected using calibrated meters. The water temperature was consistent with other similar waterbodies we manage in the area, and the dissolved oxygen was sufficient to support fish and wildlife. Water clarity was also assessed using a Secchi disk. A Secchi disk is a disk with alternating black and white quadrants. It is lowered into the water of a lake until it can no longer be seen by the observer. This depth of disappearance, called the Secchi depth, is a measure of the transparency of the water. The Secchi reading was 4ft 2in. This is about average for Wedge Pond during our time managing the Pond. We have seen Secchi depths get down to just above 1' and as high as nearly 7', with the average being around 4'-4'6".

The June treatment is anticipated to control algae proactively rather than reactively, so conditions documented with only slight amounts of benthic algae and minimal microscopic algae will be ideal for a mid-June treatment.

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We will notify you prior to the next scheduled visit. Please let us know if you have any questions at all.

Pond	Surface Temp (°C)	Surface DO (mg/L)
Wedge Pond	17.5	10.20

Photos

