



ENVIRONMENTAL SCIENTIST:
 JAMES LACASSE
 JAMES@WATERANDWETLAND.COM
 C: (774) 276-6098
 CALL/TEXT WITH ANY QUESTIONS!



FIELD NOTES SUMMARY

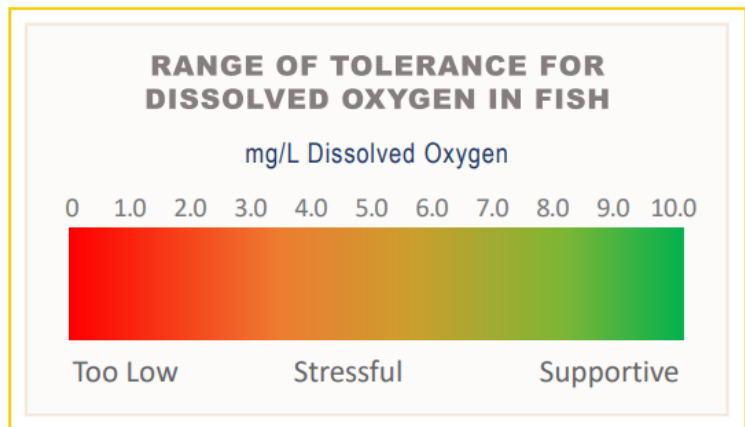
Customer: City of Lynn
Pond Name: Goldfish Pond
Site Location: Lynn, MA
Date: 5/7/24

On 5/7/24, Senior Environmental Scientist, James Lacasse, made a visit to Goldfish Pond. The following services were completed during the visit:

Upon arrival to the site, a survey was conducted using visual observation paired with a standard throw-rake and handheld GPS/ArcGIS Field Maps, as applicable. Plants documented during the survey are documented in the table below. (*) denotes an invasive species. Invasive species are non-native to the ecosystem and are likely to cause economic harm, environmental harm, or harm to human health.

Species Identified	
Common Name	Latin Name
Microscopic Algae	

While on-site, dissolved oxygen (DO) and temperature readings were collected using a calibrated YSI meter with optical sensor. Dissolved oxygen is the amount of oxygen in water that is available to aquatic organisms. DO is necessary to support fish spawning, growth, and activity. Tolerance varies by species, but the figure below provides a general range of fish tolerance (Source: epa.gov). Dissolved oxygen can be affected by



many outside factors, such as: temperature, time of day, and pollution. Dissolved oxygen levels are typically lowest early in the morning. Healthy water should generally have concentrations of about 6.5-8+ mg/L.

Results from the visit are included in the table below:

Temperature & Dissolved Oxygen	
Surface Temp (°C)	Surface DO (mg/L)
20.1	13.15

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.

Secchi Disk Clarity	
Secchi Disk Depth (Feet)	
	9 inches

Water Quality Parameters
Algae ID, Classification, Biomass
Microbial Bacteria (total coliforms & E. coli)
Phosphorus, Total & Free Reactive (Water)

Additional samples were collected from the contracted locations. The samples were properly preserved, and shipped on-ice via FedEx Overnight, or transported directly to the most appropriate lab. The lab will analyze the samples for the

contracted/required parameters which are listed in the table above. Results will be provided upon receipt from the lab or in the year end-summary report, as applicable. Any concerning results will immediately be brought to the attention of the Client.

A treatment was conducted for the control of algae. The liquid contact algaecide was applied using a treatment boat equipped with a calibrated sub-surface injection system. This application methodology allows for even coverage within the treatment areas. The treatment was completed without issue.

Additional Notes from the Biologist
<p>A treatment was conducted to target microscopic algae. There are no restrictions associated with this treatment. Foam and pollen were noted on the surface of the pond, especially toward the windblown shorelines. The fountains were running per normal. Water samples were collected and shipped to the laboratory for further analysis. Trash was observed scattered throughout the pond floating at the surface. A goose was hit by a car while on site, the goose hobbled its way from the street to the pond - I tried to call animal control several times but was not able to get a hold of anyone. It is important to note that if the goose dies in the water, that it was not because of treatment or water quality, but from the car incident.</p> <p>Howie asked about screens for the fountains as he noted turtles and ducks go in them when off. AquaMaster Fountains offers discharge guards for \$54.35 each. Shipping, and sales tax (if applicable) would be extra, plus a few hundred dollars for installation. Please let us know if this is something you'd like to explore further.</p>

As always, we will notify you prior to any upcoming visits, as applicable. Please feel free to reach out to us directly with any questions.

