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CALL/TEXT WITH ANY QUESTIONS!

## FIELD NOTES SUMMARY

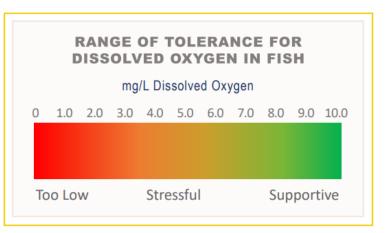
Customer: City of Lynn Pond Name: Goldfish Pond Site Location: Lynn, MA Date: 6/6/24

On 6/6/24, Senior Aquatic Biologist, Colin Gosselin, 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:

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| Temperature & Dissolved Oxygen |                   |  |
|--------------------------------|-------------------|--|
| Surface Temp (°C)              | Surface DO (mg/L) |  |
| 23.1                           | 9.72              |  |

A Secchi disk is a disk with alternating black and white quadrants. It is lowered into the water of a lake until it

| Secchi Disk Clarity      |     |  |
|--------------------------|-----|--|
| Secchi Disk Depth (Feet) | 10" |  |

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.

| Water Quality Parameters                       |  |  |
|--|--|--|
| Microbial Bacteria (total coliforms & E. coli) |  |  |
| Algae ID, Classification, Biomass              |  |  |
| 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\*

Treatment was conducted to target microscopic algae that was observed throughout the pond. There are no restrictions affiliated with this treatment. Water samples were collected and sent to the lab for analysis of various parameters noted above. Bacteria packets were applied to the pond. The bacteria packets help reduce muck on the bottom of the pond as well as increase the breakdown of excess nutrients. The fountains were running per normal. It appears the foam on the surface of the pond has decreased significantly since earlier in the Spring.

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.

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Photo 4



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