



Biologist:
Grace Adams
888-493-8526
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Call/Text With Any Questions!



FIELD NOTES SUMMARY

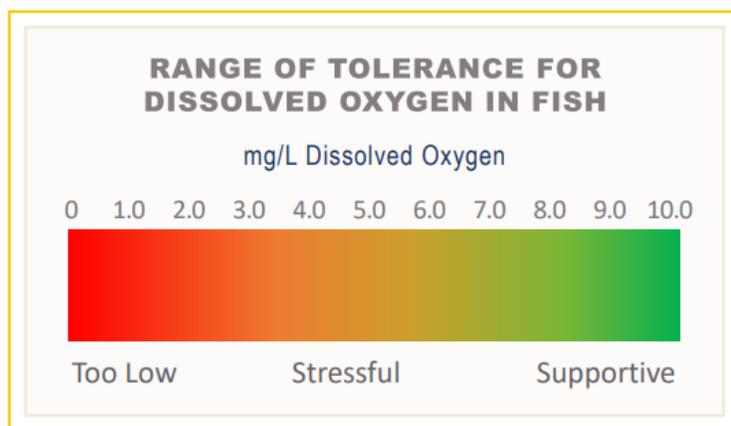
Customer: City of Framingham
Pond Name: Norton Pond
Site Location: Framingham, MA
Date: 7/30/24

On 7/30/24, Aquatic Biologist, Grace Adams, made a visit to Norton 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
Duckweed	<i>Lemna</i>
Watermeal	<i>Wolffia</i>
Filamentous 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.



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Upton, MA
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Results from the visit are included in the table below:

Temperature & Dissolved Oxygen	
Surface Temp (°C)	Surface DO (mg/L)
25.9	11.03

Additional Notes from the Biologist

A site visit was conducted at Norton Pond to determine current condition and any upcoming management needs. Dense mats of filamentous algae were observed around the pond's perimeter, while the center remained largely free of algae with only a few scattered patches. Additionally, duckweed and watermeal were interspersed with the algae mats. An algae treatment is recommended for the next visit to address the algae bloom, treatment of nuisance watermeal and duckweed should be conducted at the same time.

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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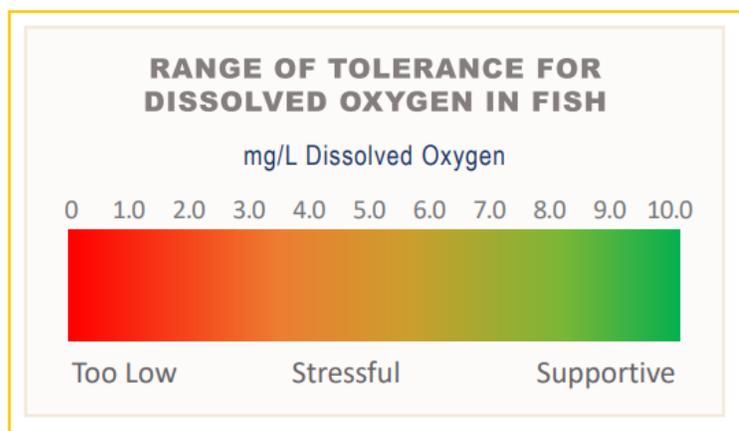
Customer: City of Framingham
Pond Name: Mohawk Pond
Site Location: Framingham, MA
Date: 7/30/24

On 7/30/24, Aquatic Biologist, Grace Adams, made a visit to Mohawk 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
Cattails	<i>Typha</i>
Variable Milfoil*	<i>Myriophyllum heterophyllum</i>
Waterlilies	<i>Nymphaeaceae</i>

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)
26.8	7.29

Additional Notes from the Biologist

An interim visit was conducted at Mohawk Pond. The purpose of the visit was to assess the previous management and to determine upcoming/future management needs of the pond. The survey confirmed that the previous treatment successfully managed both filamentous algae and variable milfoil. Minimal regrowth of variable milfoil was observed (Photo 3), it does not warrant treatment at this time. The dissolved oxygen measurement indicated that the pond is in good health.

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.



Photo 4





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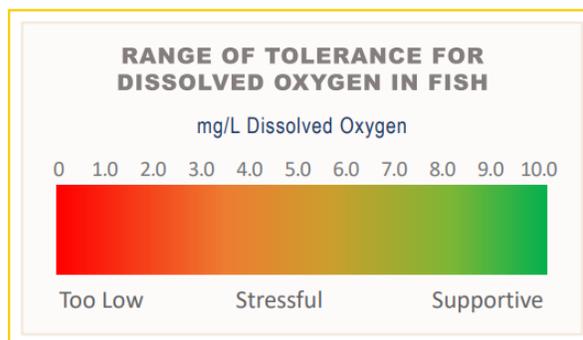
Customer: City of Framingham
Pond Name: Sudbury River
Site Location: Framingham, MA
Date: 7/30/24

On 7/30/24, Aquatic Biologist, Grace Adams, made a visit to Sudbury River. 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
Fanwort*	<i>Cabomba caroliniana</i>
Water Chestnut*	<i>Trapa natans</i>
Purple Loosestrife*	<i>Lythrum salicaria</i>
Thinleaf Pondweed	<i>Potamogeton pusillus</i>
Ribbon Leaf Pondweed	<i>Potamogeton epihydrus</i>
Arrowhead	<i>Sagittaria latifolia</i>
Common Waterweed/Elodea	<i>Elodea canadensis</i>
Waterlilies	<i>Nymphaeaceae</i>
Watershield	<i>Brasenia schreberi</i>

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).



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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)
25.9	7.98

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)	
	4' 3"

Additional Notes from the Biologist
<p>A site visit was conducted at the Sudbury River to evaluate water chestnut populations. The survey focused largely on water chestnut; however, we documented additional species during the visit. The survey indicated that the water chestnut remains at a level where hand pulling is an effective removal method. As the water chestnut seeds continue to develop and drop in August, it is important that removal of the water chestnut occurs as soon as possible. Additionally, fanwort was observed in high densities throughout most of the stretch of river, with some areas experiencing surface mats and flowering. Attached is a map showing the locations where water chestnut was found. We recommend that hand-pulling efforts be completed by mid-August. Should you need our assistance with hand-pulling, please let us know.</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.

Photo 1



Photo 2



Photo 3



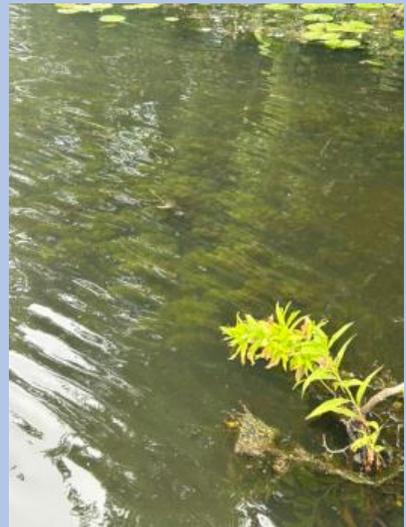
Photo 4



Photo 5

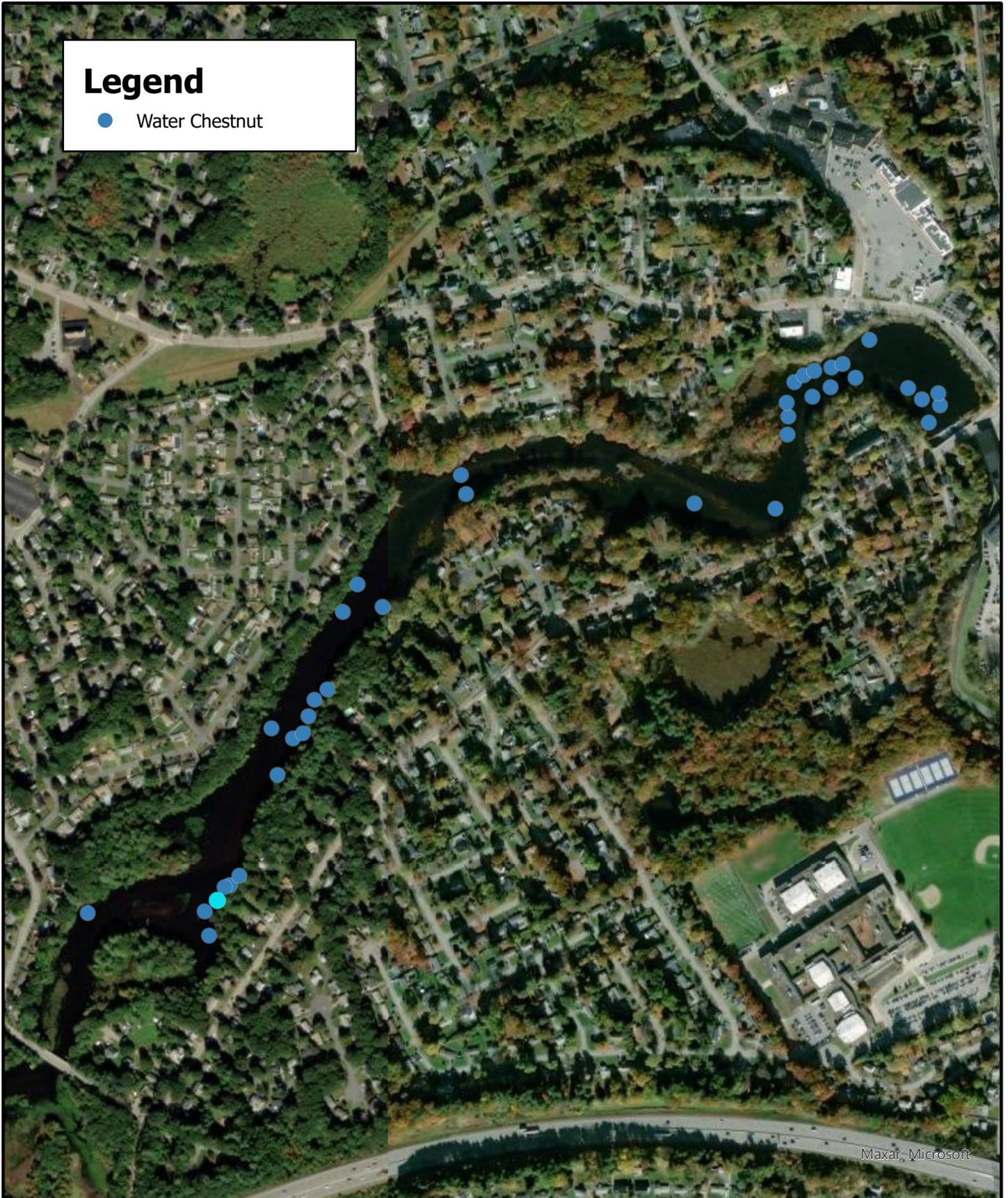


Photo 6



Legend

● Water Chestnut



Maxar, Microsoft



Sudbury River
Water Chestnut Distribution Map
Framingham, MA

Survey Date
7/30/2024
Map Date
8/1/2024

