

PURCHASING DIVISION
CITY OF WORCESTER
MASSACHUSETTS 01608-1895
ROOM 201 - CITY HALL, 455 MAIN ST.
PHONE (508) 799-1220

SEALED BID INVITATION
(Supplies, Material, Equipment, Services)

AN EQUAL OPPORTUNITY AFFIRMATIVE ACTION EMPLOYER

SEALED BID NO. CR-8379-J5

DATE: February 27, 2025

CITY OF WORCESTER
Christopher J. Gagliastro, MCPPO
Purchasing Agent

BUYER: Jerry S. Kucera

NOTICE TO BIDDERS
TERMS AND CONDITIONS

All bids are subject to the terms and conditions and specificity herein set forth except where specifically deleted by the City of Worcester in Section No. 6 below.

COMPLETE ORIGINAL COPY (including ALL pages) OF THIS BID MUST BE SUBMITTED IN A SEALED ENVELOPE:

DATE: MARCH 26, 2025 TIME: 10:00 A.M. LOCAL TIME

PLACE: Purchasing Division, Room 201, City Hall, Worcester, Massachusetts

MARK SEALED ENVELOPE **"Sealed Bid No. CR-8379-J5, Weed Control Services (Lakes + Ponds) / DSR"**

The name and address of the bidder must appear in the upper left hand corner of the envelope. The City of Worcester is not responsible for bids not properly marked.

GENERAL

1. This Bid Invitation covers: Provide all labor, materials, equipment and supplies necessary for Weed Control Services as per the attached requirements and specifications of the City of Worcester for a period of one year from May 16, 2025 through May 15, 2026. This contract may be extended for a second and third year at the sole discretion of the City, the option of which will be determined near the end of the current contract term. (See page 10)
2. A certified check or bid bond made payable to the "City Treasurer, City of Worcester" in the Amount of \$ N/A must accompany this bid.
3. All bids received will be publicly opened and read in the Bid Room at City Hall at date and time shown above.
NO BID WILL BE ACCEPTED AFTER TIME AND DATE SPECIFIED
4. A performance bond in the amount of \$ N/A of the total dollar award is required.
5. A payment bond in the amount of \$ N/A of the total dollar award is required.
6. All terms and conditions are applicable to this proposal except the following section numbers which are hereby deleted from this invitation: all apply
7. **Questions pertaining to this bid must be directed to Jerry S. Kucera via e-mail at kucerajs@worcesterma.gov**

Please go to the closed bids page of our site to obtain bid results. www.worcesterma.gov

8. The following meanings are attached to the defined words when used in this bid form.
 - (a) The word “City” means The City of Worcester, Massachusetts.
 - (b) The word “Bidder” means the person, firm or corporation submitting a bid on these specifications or any part thereof.
 - (c) The word “Contractor” means the person, firm or corporation with whom the contract is made by carrying out the provisions of these specifications and the contract.
 - (d) The words “Firm Price” shall mean a guarantee against price increases during the life of the contract.
9. Any prospective bidder requesting a change in or interpretation of existing specifications of terms and conditions must do so within five (5) days (Saturdays, Sundays and Holidays excluded) BEFORE scheduled bid opening date. All requests are to be in writing to the Purchasing Division (or e-mailed at: kucerajs@worcesterma.gov). *No changes will be considered or any interpretation issued unless the request is in our hands within five (5) days (Saturdays, Sundays and Holidays excluded) BEFORE scheduled bid opening date.*
10. The contractor will be required to indemnify and save harmless the City of Worcester, for all damages to life and property that may occur due to his negligence or that of his employees, subcontractors, etc., during this contract.
11. The Contract Agreement will be in the form customarily employed by the City of Worcester and is on file in the Purchasing Division at City Hall.
12. Bids which are incomplete, not properly endorsed, or signed, or otherwise contrary to these instructions will be rejected as informal by the Purchasing Agent. **Conditional bids will not be accepted.**
13. The Bidder must certify that no official or employee of the City of Worcester, Massachusetts is pecuniarily interested in this proposal or in the contract which the bidder offers to execute or in expected profits to arise therefrom, unless there has been compliance with provisions of G.L. C. 43 Sec. 27, and that this bid is made in good faith without fraud or collusion or connection with any other person submitting a proposal.
14. As the City of Worcester is exempt from the payment of Federal Excise Taxes and Massachusetts Sales Tax, prices quoted herein are not to include these taxes.
15. All prices are to be firm F.O.B. Destination, City of Worcester, Massachusetts, unless otherwise indicated by the City. **Time reserved for award is ninety days.**
16. In case of error in the extension prices quoted herein, the unit price will govern.
17. It is understood and agreed that should any price reductions occur between the opening of this bid and delivery of any order, the benefit of all such reductions will be extended to the City.
18. The City of Worcester reserves the right to reject any and all bids, wholly or in part, and to make awards in a manner deemed in the best interest of the City.
19. Awards will be made to the bidder quoting the lowest net price in accordance with the specifications.
20. The supplier will be bound by all applicable statutory provisions of law of the Federal Government, the Commonwealth of Massachusetts, the City of Worcester, and the Department of Public Safety of the Commonwealth of Massachusetts.
21. Any bid withdrawn after time and date specified, the bidder shall forfeit deposit on bid as liquidated damages.
22. The contractor will not be permitted to either assign or underlet the contract, not assign either legally or equitably any monies hereunder, or its claim thereto without the previous written consent of the City Treasurer and of the Purchasing Agent of the City of Worcester.
23. If this bid shall be accepted by the City, and the bidder shall fail to contract as aforesaid and to give a bond in the amount as specified in Section 4, within ten (10) days, (not including Sunday or a legal Holiday) from the date of the mailing of a notice from the City to him/her, according to the address given herewith, that the contract is ready for signature, the City may by option determine that the bidder has abandoned the contract and thereupon the proposal and

acceptance shall be null and void and the bid security accompanying this proposal shall become the property of the City as liquidated damages.

24. When quoting, the bidder shall submit a signed copy of this bid form, and if bid accepted by the City shall constitute part of the contract of purchase. Do not detach any part of this form 30B (Sealed Bid Goods & Services) when submitting a bid. Bidder must sign and return complete form 30B (Sealed Bid Goods & Services).
25. If in the judgment of the Purchasing Agent any property is needlessly damaged by an act or omission of the contractor or his/her employees, servants or agent, the amount of such damages shall be determined by the Purchasing Agent of the City of Worcester and such amount shall be deducted from any money due the contractor or may be recovered from said contractor in actions at law.
26. It is agreed that deliveries and/or completion are subject to strikes, lockouts, accidents and/or Acts of God.

INSURANCE AND WORKER'S COMPENSATION

27. COMMERCIAL GENERAL LIABILITY INSURANCE: Contractor to supply the City of Worcester with certificates of insurance evidencing general liability coverage of not less than \$ 1,000,000.00 per occurrence / \$ 2,000,000.00 aggregate.
28. AUTOMOBILE LIABILITY INSURANCE: Contractor to supply the City of Worcester with certificates of insurance evidencing automobile liability coverage, bodily injury and property damage combined single limit, of \$ 1,000,000.00 (all owned, hired, and non-owned autos).
29. COMPENSATION INSURANCE: The contractor shall furnish the City of Worcester with certificates showing that all of his/her employees who shall be connected with this work are protected under Massachusetts' statutory worker's compensation insurance policies.
30. The Contractor shall carry public liability insurance with an insurance company satisfactory to the City so as to save the City harmless from any and all claims for damages arising out of bodily injury to or death of any person or persons, and for all claims for damages arising out of injury to or destruction of property caused by accident resulting from the use of implements, equipment or labor used in the performance of the contractor or from any neglect, default or omission, or want of proper care, or misconduct on the part of the Contractor or for anyone of his employ during the execution of the contract.
31. Prior to starting on this contract, the Contractor shall deposit with the Contracting Officer certificates from the insurer to the effect that the insurance policies required in the above paragraphs have been issued to the Contractor. The certificates must be on a form satisfactory to the Purchasing Agent.
32. Except as may otherwise be stated herein, the Contractor shall also carry bodily injury and property damage insurance in an amount not less than those set forth above covering the operation of all motor powered vehicles owned or operated by the Contractor and engaged in this contract.

DISCOUNT

33. Prompt pay discounts will be considered when determining the low bid except when discounts are for a period of less than 30 days. In this event discounts will not be taken into consideration when determining low bid.
34. Time, in connection with discount offered, will be computed from date of completion and/or delivery and acceptance at destination, or from date correct bill or voucher properly certified by the contract is received if the latter date is later than the date of completion and acceptance and/or delivery and acceptance.

GUARANTEE

35. The bidder to who a contract is awarded guarantees to the City of Worcester all equipment, materials and or workmanship for a period of one (1) year after final inspection and acceptance and shall replace promptly any defective equipment, materials and/or workmanship required without additional cost to the City.

DELIVERIES AND COMPLETION

36. It is understood and agreed that in the event of failure on the part of the bidder to indicate date of delivery and/or completion, delivery and/or completion will be made within twelve (12) days from date of notification. Should the successful bidder fail to make delivery or complete contract within time specified, the City reserves the right to make the purchase on such orders at the open market and charge any excess over contract price to the account of the successful bidder, who shall pay the same.
37. The contractor shall familiarize himself with the location and facilities for storage.
38. The City through its Purchasing Division reserves the right to divert delivery from one location to another, and to allow for any change in operating conditions or for any other cause not now foreseen and to proportion deliveries according to available storage facilities.

SAMPLING AND ANALYSIS

39. Each bidder must state the commercial name of the product quoted, name, and address of operator or agent from whom the product will be purchased and in addition shall furnish an analysis of the product, date of analysis, by whom made and their address.
40. Samples of the product to be delivered may be taken by a representative of the City, either prior to delivery or while it is being delivered in the storage facilities at destination, or will be taken from the storage facilities to which the product has been delivered as determined from time to time by the Purchasing Agent. Bidder agrees to furnish the necessary manual labor, without additional cost required to assemble the physical samples, which is to be performed under the direction of the City representative.
41. The representative of the City taking the samples shall be given the opportunity, while sampling, to affix his or her signature to the delivery slip each item represented in his/her sample.
42. Any product after the sampling and analysis, not found meeting the requirements of the contract shall be sufficient cause for the cancellation of the contract at the option of the Purchasing Agent.
43. If any product is found that does not meet the analysis submitted by the bidder in his/her proposal, the Purchasing Agent may, at his or her option, exercise his/her right to reject the product and require that all or any part thereof shall be removed promptly by and at the expense of the contractor and replace it forthwith with a product satisfactory to the Purchasing Agent, or to retain the product and compensate the contractor in an amount as determined by the Purchasing Agent and the City Manager.
44. It is understood and agreed that it shall be a material breach of any contract resulting from this bid for the Contractor to engage in any practice which shall violate any provisions of Massachusetts General Laws, Chapter 151B, relative to discrimination in hiring, discharge, compensation, or terms, conditions or privileges of employment because of race, color, religious creed, national origin, sex, age or ancestry.
45. The undersigned as bidder, declares that the only parties interested in this proposal as principals are named herein; that this proposal is made without collusion with any other person, firm or corporation, that no officer or agent of the City is directly or indirectly interested in this bid; and he/she proposes and agrees that if this proposal is accepted he/she will contract with the City in accordance with the specifications, also the terms and conditions as spelled out in this bid form.
46. No Person, including but not limited to corporations, partnerships, limited partnerships or limited liability corporations, shall be eligible to receive a contract under this invitation to bid and/or requires for proposal if that person has been convicted of any felony offense involving the distribution of controlled substances as that term is defined under Chapter 94C of the General Laws and, for contracts to be performed for on-site services to the Worcester Public Schools, if that person or any person to be employed by that person in the performance of such on-site services has been convicted of a "sex offense" or a "sex offense involving a child" or a "sexually violent offense" or would meet the definition of "sexually violent predator" as those terms are defined in Section 178C of the General Laws and who must register with the sex offender registry board.

47. The Contractor shall at all times enforce strict discipline and good order among his employees and shall not employ for work or services relating to this contract any unfit person or anyone not skilled in the task assigned to him. In light of the fact that the performance of this contract requires the Contractor and its employees to have significant interaction with the public, the Contractor shall require all employees who may perform services under this contract to conduct themselves in a courteous, professional manner. If the Contractor is notified by the Contract Officer that any person engaged upon the work is incompetent, unfaithful, disorderly, discourteous, or otherwise unsatisfactory, then such person shall be discharged from providing services or work pursuant to this contract. Without limiting the generality of the foregoing, intimidation, threats and/or violent conduct of any kind or nature directed to members of the public are absolutely prohibited. Failure to comply with this requirement shall be grounds for termination of the contract.
48. The Contractor's performance may be evaluated on an ongoing basis including but not limited to consideration of complaints received from members of the public. In order to facilitate this evaluation, the Contractor shall provide the City with documents and records upon request. The Contractor shall further obtain from its employees authorization that appropriate City personnel may obtain all available criminal offender information ("CORI") from the Criminal History Systems Board. A high number of unresolved complaints, any number of complaints that are particularly severe, or employment of individuals who have been convicted of assault or other violent crimes shall be grounds for the early termination or non-renewal of the contract by the City.
49. The procurement officer shall award the contract to the lowest responsible and responsive bidder. The term "responsible bidder" means "a person who has the capability to perform fully the contract requirements, and the integrity and reliability which assures good faith performance." Consistent with its duty to maintain public order and promote public safety, the City has determined that this contract is of a type and nature so as to be particularly sensitive due, at least in part, to the contractor's inherent access and dealings with the members of the general public. Therefore, the City has concluded that additional scrutiny is justified as it determines whether a particular bidder is responsible, having the integrity and reliability to properly perform the requested services. This may entail consideration of the contractor's system of oversight, training and supervision of its employees, including but not limited to its requirement of a high standard of customer service and courtesy in its dealings with the public. The bidder's care and diligence in hiring and assigning its employees will also be considered. In making its determination, the City reserves the right to examine any and all information at its disposal, including but not limited to prior City contracts, the experiences and information obtained from current and former customers (whether identified by the bidder as references or not), as well as other sources available to the City, including but not limited to court documents, newspapers, financial reports (such as DUNS), and certain police data and reports.
50. The Contractor, acting through its owner(s) or any of its employees, or its agents or sub-contractors and any of their employees, shall not engage in any behavior, whether during the course of its duties under this contract or at any other time, that is illegal, criminal or otherwise shocking or offensive to the general public. The determination whether any particular behavior is illegal, criminal or shocking to the general public shall rest in the sound judgment of the Contracting Officer or the City Manager. In making such determination, the Contracting Officer or the City Manager shall apply the general standards of the community. No criminal conviction or formal charges shall be required to make such determination. Such behavior need be something more than trivial and something which would cause the general public to have concerns either about the safety of individuals coming in contact with the Contractor or about the character and integrity of the individuals with which the City does business. Violation of this provision shall be grounds for immediate and unilateral termination of this contract by the City upon five days' notice as otherwise provided herein

GIVE FULL NAMES AND RESIDENCES OF ALL PERSONS INTERESTED IN THE FOREGOING PROPOSAL.

(NOTICE: Give first and last name in full; in case of corporations, give corporate name and names of President, Treasurer, and Manager; and in case of firms give names of the individual members)

Name	Address	Zip Code
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_____	_____	_____
_____	_____	_____
_____	_____	_____
_____	_____	_____

KINDLY FURNISH THE FOLLOWING INFORMATION REGARDING BIDDER:

(1) If a Proprietorship

Name of Owner _____

Business Address _____

Zip Code _____ Telephone No. _____

Home Address _____

Zip Code _____ Telephone No. _____

(2) If a Partnership

Full names and addresses of all partners

<u>Name</u>	<u>Address</u>	<u>Zip Code</u>
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_____	_____	_____
_____	_____	_____
_____	_____	_____

Business Address _____ Zip Code _____

Tel. No. _____

(3) If a Corporation

Full Legal Name _____

State of Incorporation _____ Qualified in Massachusetts ? Yes _____ No _____

Principal Place of Business _____

Street P.O. Box

City/Town State Zip

Telephone No. _____

Place of Business in Massachusetts _____

Street P.O. Box

City/Town State Zip

Telephone No. _____

GIVE THE FOLLOWING INFORMATION REGARDING SURETY COMPANY

Full Legal Name of Surety Company _____

State of Incorporation _____ Admitted in Massachusetts ? Yes _____ No _____

Principal Place of Business _____

Street P.O. Box

City/Town State Zip

Place of Business in Massachusetts _____

Street P.O. Box

City/Town State Zip

Telephone No. _____

NOTE

The Office of the Attorney General, Washington, D.C. requires the following information on all bid proposals amounting to \$1,000.00 or more.

F.I.D. Number of bidder _____

This number is regularly used by companies when filing their "EMPLOYER'S FEDERAL TAX RETURN, U.S." Treasury Department Form 941.

AUTHORIZED SIGNATURE OF BIDDER _____ TITLE _____
PLEASE SIGN

DATE _____ BID SECURITY \$ N/A

The name of Customer Service Representative and the Contract Administrator responsible for servicing this account in the event of contract award are:

NAME (PLEASE PRINT) *Customer Service Rep.* _____ TEL. NO. _____

NAME (PLEASE PRINT) *Contract Administrator* _____ TEL. NO. _____

FAX NUMBER _____ FAX # _____

E-MAIL (Customer Service Rep.): _____

E-MAIL (Contract Administrator): _____

UNDER MASSACHUSETTS GENERAL LAWS, CHAPTER 30B: SECTION 10, THE FOLLOWING CERTIFICATION MUST BE PROVIDED:

Section 10. A person submitting a bid or a proposal for the procurement or disposal of supplies, or services to any governmental body shall certify in writing, on the bid or proposal, as follows:

" The undersigned certifies under penalties of perjury that this bid or proposal has been made and submitted in good faith and without collusion or fraud with any other person. As used in this certification, the word "person" shall mean any natural person, business, partnership, corporation, union, committee, club, or other organization, entity, or group of individuals."

(Please Print) _____
Name of Person Signing Bid

Signature of Person Signing Bid

Company

No award will be made without vendor certification of the above.

Bidders must state and identify the product offered, such as manufacturer's name, trade name, brand name and quality next to each item. WE MUST KNOW WHAT HAS BEEN OFFERED.

The quantities shown herein are estimated only and the Contractor will be required to furnish all quantities ordered by the City during the period of the contract.

YES ☒ NO ☐

Delivery to be made to: as required by the City, Worcester, MA

This Bid includes addenda numbered _____

NO PRICE ADJUSTMENTS ALLOWED. PRICES QUOTED ARE FINAL. CHECK BEFORE SIGNING!

BIDDER TO COMPLETE ITEMS BELOW

Item No.	Estimated Quantity	Description			Unit Price	Total Amount
		<p>Provide weed control services for lakes & ponds as per the attached requirements and specifications of the City of Worcester.</p> <p>Bidder must bid all items. Award to be made in the aggregate.</p>				<p>See Pricing & Specification Pages</p> <p>Bidders must use the attached pricing page.</p>
		<p>All questions must be sent via email to kucerajs@worcesterma.gov</p>				

TERMS, CASH DISCOUNT _____% 30 DAYS, NET 45 DAYS.

DELIVERY AND/OR COMPLETION TO BE MADE WITHIN as required by the City DAYS FROM DATE OF NOTIFICATION BY THE CITY.

NAME OF BIDDER _____

DISCLOSURE OF CONTRACT RENEWAL

This contract may be renewed for a second and third year at the sole discretion of the City of Worcester, the option of which will be determined at the end of the current contract year.

In no event will increase exceed _____ % for the second contract year.
(TO BE COMPLETED BY BIDDER)

In no event will increase exceed _____ % for the third contract year.
(TO BE COMPLETED BY BIDDER)

Name

Date

Title

IF VENDOR DOES NOT WISH TO BE CONSIDERED FOR A SECOND OR THIRD YEAR OPTION,
PLEASE INDICATE BY CHECKING THIS BOX: ☐

IMPORTANT

It is understood and agreed, that failure by the bidder to complete the above increase statement, it is the bidders intent to accept a second and third year option at zero (0) percent increase.

All other Terms and Conditions to remain the same.

Worcester Lakes and Ponds Invasive Aquatic Plant Control

Specifications for Management at Indian Lake, Coes Reservoir, Bell Pond, and City Park Ponds

Overview

The City of Worcester Department of Sustainability and Resilience (DSR) seeks a qualified Contractor to manage invasive aquatic vegetation at Indian Lake, Coes Reservoir, Bell Pond, Lincoln Pond in Elm Park, Crystal Pond in University Park, and the Veterans Memorial Pond in Green Hill Park. Determination of necessity will be made by DSR.

DSR will be responsible for obtaining approvals from the Worcester Conservation Commission under the Wetlands Protection Act. The Contractor will be responsible for maintaining certified applicators licenses and the waterbody License to Apply from the Massachusetts Department of Environmental Protection.

Task Breakdown

The Contractor will perform the following tasks on a directed basis:

1. *Phragmites australis* treatment: Apply glyphosate to control the growth of *Phragmites australis* (Common Reed) to the extent possible along the shoreline of Indian Lake and/or Bell Pond. Application may be done in August through September. Price per acre.
2. *Phragmites australis* physical removal: Cut plant stalks with hand tools to arrest growth or remove treated plants to the extent possible along the shoreline of Indian Lake and/or Bell Pond. Stalks should either be removed and disposed of by the Contractor, or cut in such a way to biodegrade in place. Price per day.
3. *Myriophyllum spicatum* treatment: Apply spot treatments of diquat bromide to control growth of *Myriophyllum spicatum* (Eurasian Milfoil) in Indian Lake and/or Coes Reservoir. Price per acre.
4. *Myriophyllum spicatum* treatment: Apply florpyrauxifen-benzyl to control large acreages of *Myriophyllum spicatum* in Indian Lake and/or Coes Reservoir. Price per acre.
5. *Cabomba caroliniana* treatment: Apply spot treatments of flumioxazin to control growth of *Cabomba caroliniana* (Fanwort) in Indian Lake and/or Coes Reservoir. Price per acre.
6. *Potamogeton pusillus* treatment: Apply diquat bromide to control large acreages of *Potamogeton pusillus* (Thinleaf Pondweed) in Indian Lake. Price per acre.
7. *Trapa natans* physical removal: Pull water chestnut by hand from Coes Reservoir as a follow up to volunteer removal events. Price per day.
8. Park pond weed control with flumioxazin: Apply flumioxazin to not more than one acre to control invasive or nuisance aquatic vegetation in Lincoln Pond in Elm Park, Crystal Pond in University Park, or the Veterans Memorial Pond in Green Hill Park. Price for one acre.
9. Park pond weed control with diquat: Apply diquat to not more than one acre to control invasive or nuisance aquatic vegetation in Lincoln Pond in Elm Park, Crystal Pond in University Park, or the Veterans Memorial Pond in Green Hill Park. Price for one acre.
10. Park pond algae and cyanobacteria control with copper-based algaecide: Apply copper algaecide to not more than one acre to control algae and cyanobacteria in Lincoln Pond in Elm Park, Crystal Pond in University Park, or the Veterans Memorial Pond in Green Hill Park. Price for one acre.
11. DEP permitting: File and complete Licenses to Apply for waterbodies included in this project as specified by MassDEP.

Problem Identification and Project Location

Site descriptions are included below, and a site map is in Figure 1. Management goals for the ponds and permit conditions are detailed in Appendix A – Orders of Conditions.

Indian Lake

Indian Lake is a 190-acre, shallow lake in Worcester, MA with a maximum depth of 19 feet and a mean depth of 8 feet. See Appendix B for a bathymetric map produced by MassWildlife. *Phragmites australis* is a current concern for its obstruction of access to the water and its ability to rapidly fill in the lake. Worcester DPW&P/DSR has contracted applications of glyphosate to control *Phragmites*, though some years have been missed. The most recent treatment was contracted in fall 2024, and a follow-up cutting of some stalks was done several weeks later to assist in assessing regrowth in 2025. See Figure 2 for locations of *Phragmites* in 2024. *Myriophyllum spicatum* was successfully treated in 2021 with Procellacor and was not observed in a comprehensive plant map from 2022 (see Figure 3). DSR will update plant maps in summer 2025 and may request management of *Myriophyllum* if necessary. In 2022 and 2023, *Potamogeton pusillus* succeeded *Myriophyllum*, requiring treatment with diquat bromide to maintain navigability. In 2024, this area was succeeded by *Elodea nuttalli*, which did not require management. DSR would like to be able to respond to a *P. pusillus* infestation if needed.

Coes Reservoir

Coes Reservoir is a 90-acre lake in Worcester, MA with a maximum depth of 15 feet. See Appendix B for approximate bathymetry. *Trapa natans* has historically been of significant concern, but in 2024 was observed at greatly reduced levels manageable through hand pulling. *Cabomba caroliniana* was successfully treated with Sonar in 2019 and regrowth has been managed through spot treatments of diquat bromide. *C. caroliniana* was not observed in 2022 (see Figure 4). DSR will update plant maps in summer 2025 and may request management of *Myriophyllum* and *C. caroliniana* if necessary.

Bell Pond

Bell Pond is a 10-acre spring fed pond in Worcester, MA with a maximum depth of 17 feet and a mean depth of 9 feet. *Phragmites australis* was observed in several patches along the shoreline of Bell Pond in 2022 and have not been managed to date. In 2024, an informal survey of *Phragmites* extent estimated a total acreage of approximately 0.25 acres spread between multiple small patches (see Figure 5). DSR would like to pilot removal via a volunteer hand removal program, but contracted management may be necessary. DSR is currently in the process of filing a Notice of Intent and requesting an Order of Conditions to implement Bell Pond's aquatic management plan.

Crystal Pond, University Park

Crystal Pond is an approximate 2-acre waterbody located within University Park adjacent to Crystal Street (Figure 6). The pond has an estimated mean depth of 3-feet and a maximum depth of approximately 8-feet. The pond's watershed is small and its main source of water is surficial runoff from the immediate area. The shoreline is surrounded by walking paths and turf with scattered trees. Historically, Eurasian Milfoil (*Myriophyllum spicatum*) and pondweeds (*Potamogeton sp.*) have occurred

throughout the pond in moderate densities. Overgrowth of Duckweed (*Lemna minor*) has become a particular problem in recent years and dense growth led to a fish kill in 2023. Several stands of the invasive reed *Phragmites australis* occur along the edges of the pond. Microscopic and filamentous algae can become problematic due to the lack of water movement within the pond over the course of the summer. Two aerating fountains improve circulation.

Green Hill Veterans Memorial Pond

The Green Hill Veterans Memorial Pond is an approximate 0.8-acre waterbody located within Green Hill Park adjacent to the Massachusetts Viet Nam Veterans Memorial (see Figure 7). The pond has an estimated mean depth of 5-feet and a maximum depth of approximately 8-feet. The pond's watershed is small and its main source of water is surficial runoff from the immediate area. Walking paths and turf with scattered trees abut the western half of the shoreline with undeveloped forests and trails along the eastern half. Historically, Eurasian Milfoil (*Myriophyllum spicatum*), pondweeds (*Potamogeton sp.*), and duckweed (*Lemna minor*) have occurred throughout the pond in moderate densities. Microscopic and filamentous algae can become problematic due to the lack of water movement within the pond over the course of the summer. An aerating fountain assists in circulation.

Lincoln Pond, Elm Park

Lincoln Pond is an approximate 5-acre waterbody located within Elm Park adjacent to Park Avenue and Highland Street (see Figure 8). The pond has an estimated mean depth of 3-feet and a maximum depth of approximately 6-feet. The pond consists of three connected basins, or meres. The pond's watershed is small, and its main source of water is surficial runoff from the immediate area. During periods of drought, water levels may become drastically reduced. The shoreline is surrounded by walking paths and turf with scattered trees. The pond has a history of scattered invasive Variable Milfoil (*Myriophyllum heterophyllum*), but very low water clarity in recent years has hindered identification. Several stands of the invasive reed *Phragmites australis* occur along the edges of the pond, particularly in the northern mere. Microscopic and filamentous algae can become problematic due to the lack of water movement within the pond over the course of the summer. The pond experiences consistent cyanobacteria bloom conditions throughout the summer months. Sedimentation also impacts Lincoln Pond, and a small dredging project is planned for 2025 to improve flow between the northern and central meres.

Arrangements for bidders to view the site can be made directly with Katie Liming, Lakes and Ponds Program Coordinator, DSR at 508-799-8324 x31212 or limingk@worcesterma.gov.

Dosage and Application Rate

DSR will contract updated plant maps of Coes Reservoir, Indian Lake, and Bell Pond which will be used to determine the necessity of treatment of *Myriophyllum spicatum*, *Cabomba caroliniana*, and *Potamogeton pusillus*. These maps and informal surveys by DSR staff will be resources to inform the treatment plan. If more detailed information is required, the Contractor will be responsible for a pre-treatment survey. Dosages will always be applied at or below the rate specified on product labels and in compliance with the Order of Conditions. In consultation with DSR, the Contractor will apply products at the minimum dosage believed feasible to control target species.

Treatment Application Personnel

Chemical applications must be performed by a qualified lake management professional with at least 2 years of experience in the application of aquatic herbicides and algaecides. The Contractor must have all necessary licenses and certifications for herbicide and algaecide applications. The Contractor will provide and be responsible for all labor, mobilization, demobilization, materials, equipment, and incidentals required to complete the work specified in this proposal including chemicals, application equipment, sampling equipment, storage equipment, spill containment equipment, etc.

Treatment Application Schedule

It is important to complete any treatments in as short of a time as possible to minimize the impacts to lake recreational use. While DSR will work with the Contractor to schedule in advance as much as possible, if needed, the Contractor will provide services within three (3) business days of DSR's request. Services required at Coes Reservoir, Indian Lake, and Bell Pond are highly likely to have greater advance notice, while response within three business days is more likely to be needed at the park ponds. Services will begin no earlier than June 1, 2025 and end no later than November 30, 2025.

Project Coordination

DSR will conduct periodic visual inspections of the sites to monitor ecosystem health and determine the need for treatment. Algal and aquatic vegetation treatment implementation will be designed by the Contractor with approval by DSR. Once approved, the Contractor will work independently to complete assigned tasks, providing materials and personnel, and providing brief reports to DSR within 10 days of each treatment implementation.

Permitting

The Contractor will be responsible for the following:

- Obtaining any state pesticide use permits required to perform any work specified in this contract where applicable.
- Filing of any notices or year-end reports with the appropriate agency as required by any related permit.
- Notifying the client of any restrictions or special conditions put on the site with respect to any permit received, where applicable.
- Complying with the Orders of Conditions.

DSR will be responsible for the following:

- Obtaining the Orders of Conditions under the Wetlands Protection Act.

Safety, Storage & Handling

The Contractor shall be responsible for all safety issues related to recommended treatment. This includes employee training, storage, handling and distribution of material. The Contractor shall be responsible for providing any temporary storage of equipment, materials or supplies. During applications, the Contractor must ensure that full containment of chemical be maintained at all times to ensure no contamination of the waterbodies.

Emergency Notifications

The Contractor shall be responsible for providing notification to the DSR of any incidents with local property owners, accidents, and/or issues with the application of the treatment to the lake.

Reporting

The Contractor shall be responsible for the following:

- a. Providing a service report summarizing all practices and observations within 10 days of service;
- b. Fulfilling annual regulatory compliance reporting as required; and
- c. Providing a year-end report for each waterbody summarizing all services by or before December 31, 2025.

Compensation

- a. Pricing on all items shall be firm-fixed for the entire contract period.
- b. Quantities stated in this bid document are estimates based on empirical data for bid purposes only and are not a commitment or obligation by the City. The City will compensate the Contractor on actual work performed.
- c. The total awarded bid price shall be all-inclusive. In no event shall the City be liable for additional charges such as interest, penalties, attorney's fees, preparation of performance reports or any other expenses incurred by the Contractor, such as travel, telephone, or duplication expenses.
- d. The Contractor shall not be compensated for any services not included in the Contract, such as services made necessary by the fault or negligence of the Contractor or its sub-contractors, or additional work that should have been anticipated in preparation of the Bid, as reasonably determined by the City.
- e. The Contractor shall submit invoices for services rendered on a schedule agreed upon between the City and the Contractor. The Contractor's invoices shall include a description of the services performed under tasks with such supporting detail such that the City can reasonably ascertain the computational basis for the charges.
- f. All materials, supplies, parts, etc., shall be procured by the Contractor for performance of services under this Contract, and may be a charge to the City at a rate not to exceed 10% over the Contractor's net costs.

Award

Contract award will be based on the proposal that matches the above specifications and at the lowest price.

Bid #: CR-8379-J5 - Pricing Sheet

Summary price sheet

Item #	Item	Unit price	Estimated quantity	Total price (USD)
1	<i>Phragmites australis</i> treatment (Indian Lake/Bell Pond) – per acre		1 acre	
2	<i>Phragmites australis</i> hand cutting (Indian Lake/Bell Pond) – per day		2 days	
3	<i>Myriophyllum spicatum</i> spot treatment with diquat bromide (Indian Lake/Coes Reservoir) – per acre		2 acres	
4	<i>Myriophyllum spicatum</i> treatment with florpyrauxifen-benzyl (Indian Lake/Coes Reservoir) – per acre		5 acres	
5	<i>Cabomba caroliniana</i> spot treatment with flumioxazin (Indian Lake/Coes Reservoir) – per acre		3 acres	
6	<i>Potamogeton pusillus</i> treatment with diquat bromide (Indian Lake/Coes Reservoir) – per acre		20 acres	
7	<i>Trapa natans</i> hand pulling (Coes Reservoir) – per day		1 day	
8	Park pond weed control with flumioxazin – per acre		2 acres	
9	Park pond weed control with diquat bromide – per acre		1 acre	
10	Park pond algae and cyanobacteria control with copper-based algaecide – per acre		2 acres	
11	DEP permitting for all waterbodies		6 waterbodies	
Award Based On This Amount >>>> TOTAL				\$

Figure 1: Project locations and area.

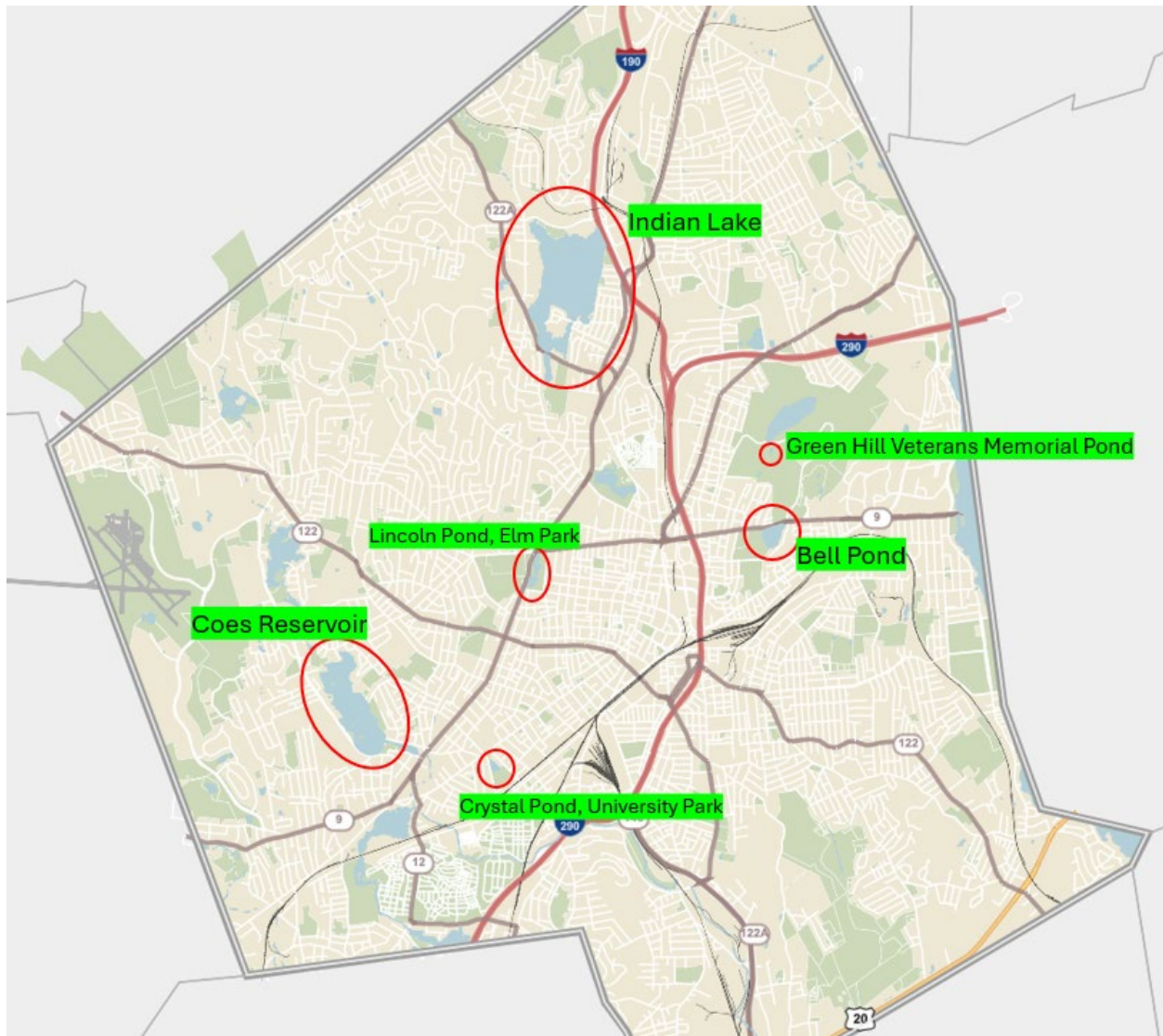
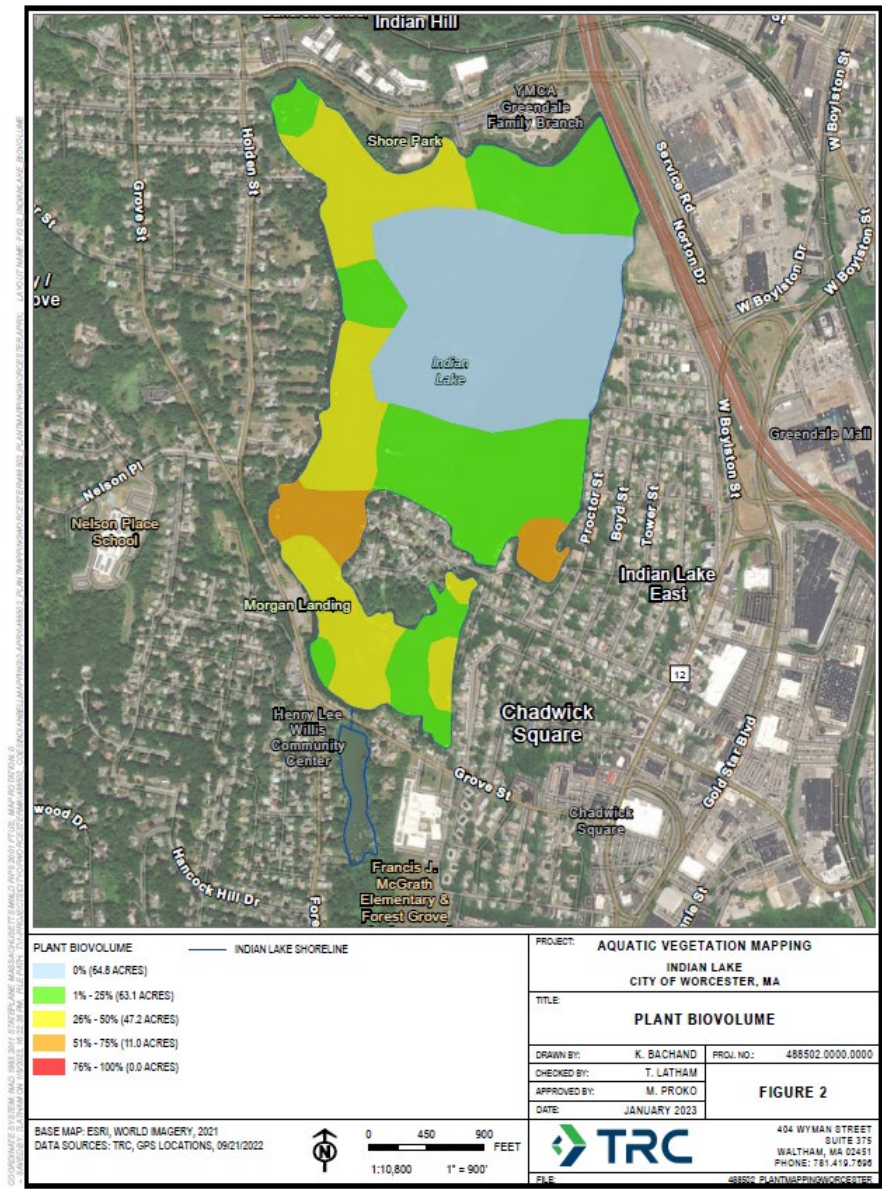


Figure 2: *Phragmites australis* observed and treated at Indian Lake in 2024

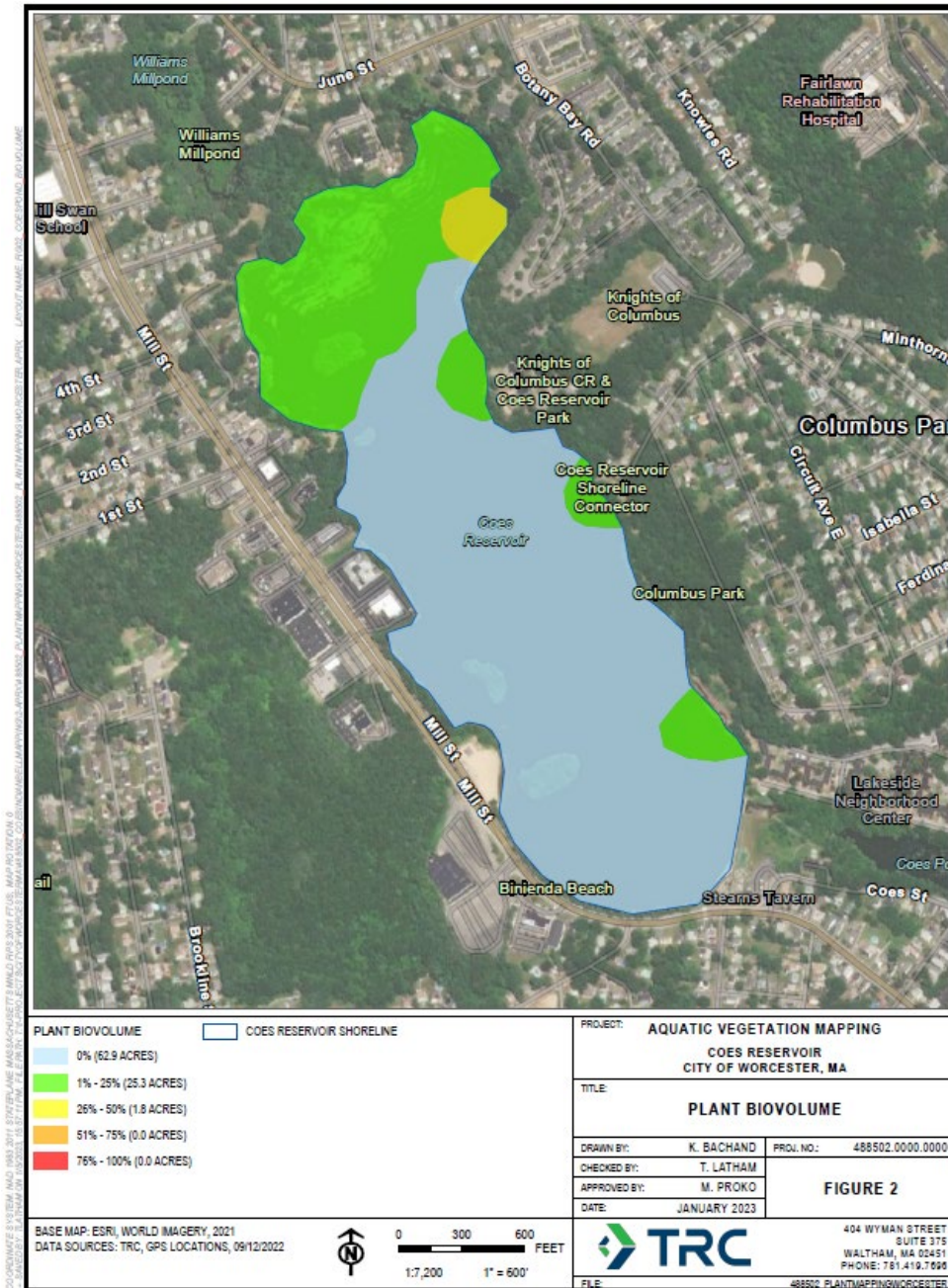


Figure 3: Plant biovolume in Indian Lake, 2022, and observed species



Common Name	Scientific Name
Western Waterweed	<i>Elodea nuttalli</i>
Slender Naiad	<i>Najas gracillima</i>
Yellow Water Lily	<i>Nuphar lutea variegata</i>
White Water Lily	<i>Nymphaea odorata</i>
Clasping-leaf Pondweed	<i>Potamogeton perfoliatus</i>
Thinleaf Pondweed	<i>Potamogeton pusillus</i>
Cattails	<i>Typha sp.</i>
Common Reed	<i>Phragmites australis</i>

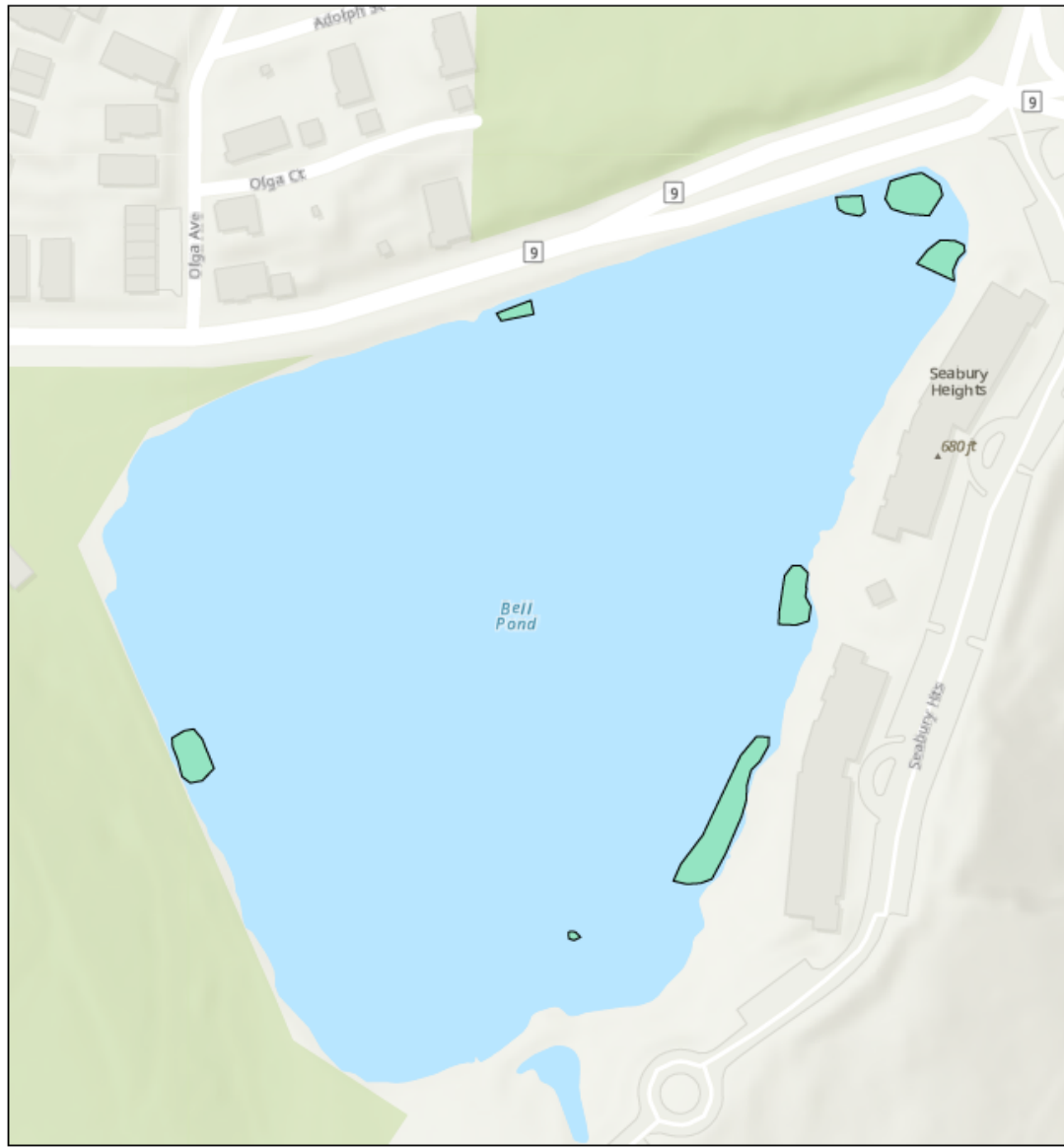
Figure 4: Plant biovolume in Coes Reservoir and observed species, 2022



Common Name	Scientific Name
Stonewort	<i>Nitella Spp.</i>
Clasping-leaf Pondweed	<i>Potamogeton perfoliatus</i>
Thinleaf Pondweed	<i>Potamogeton pusillus</i>
Water Chestnut	<i>Trapa natans</i>
Cattails	<i>Typha sp.</i>

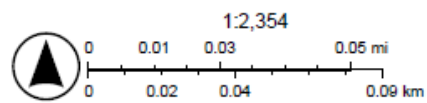
Figure 5: Bell Pond Phragmites Extent, 2024

Bell Pond Phragmites Extent 2024



2/24/2025

World Hillshade



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USDA, USFWS, Sources: Esri, Airbus DS, USGS, NGA, NASA, CGIAR, N
Robinson, NCEAS, NLS, OS, NMA, Geodatastyreisen, Rijkswaterstaat, GSA,
City of Worcester Department of Sustainability and Resilience

Figure 6: Crystal Pond Site Map

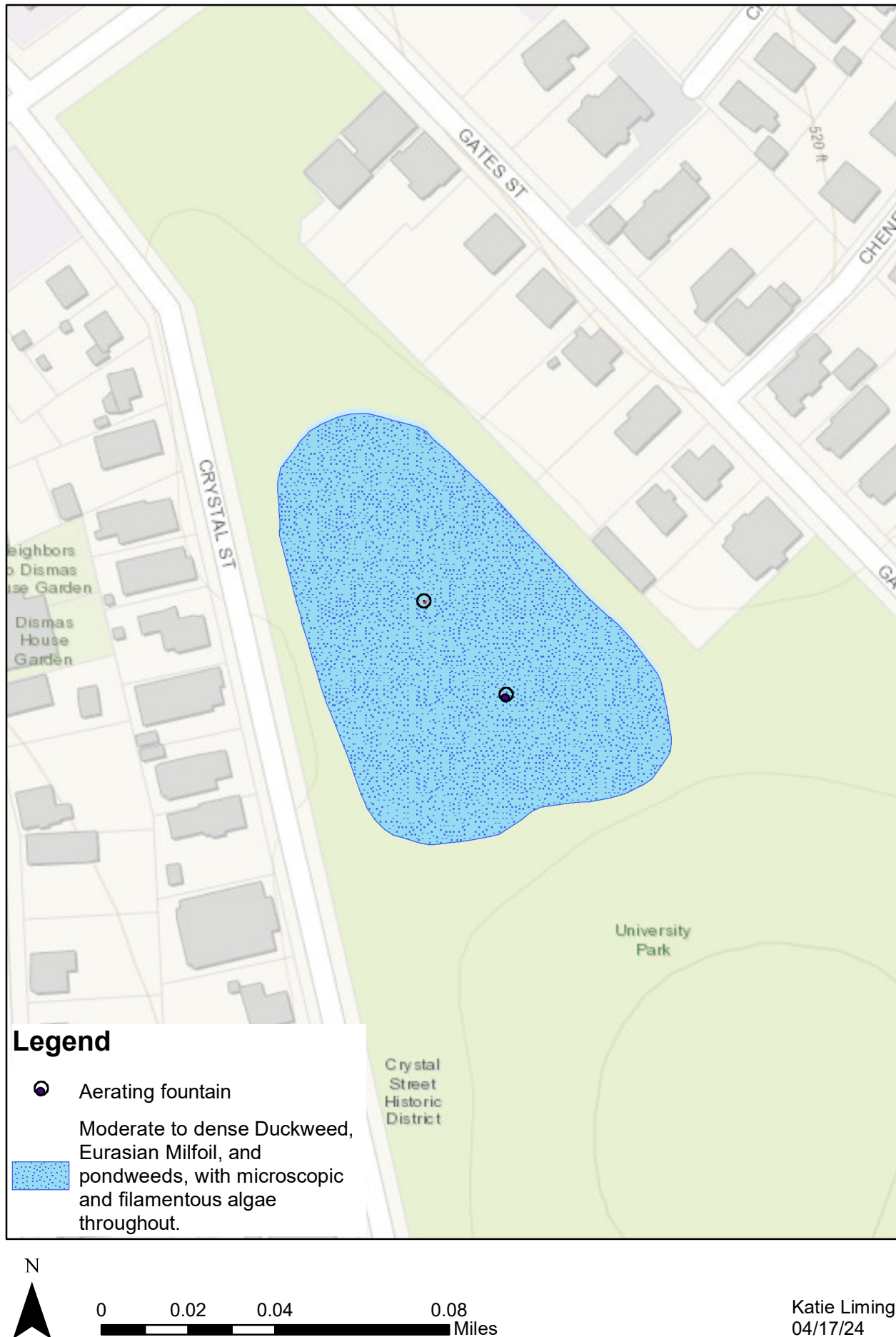


Figure 7: Green Hill Veterans Memorial Pond Site Map

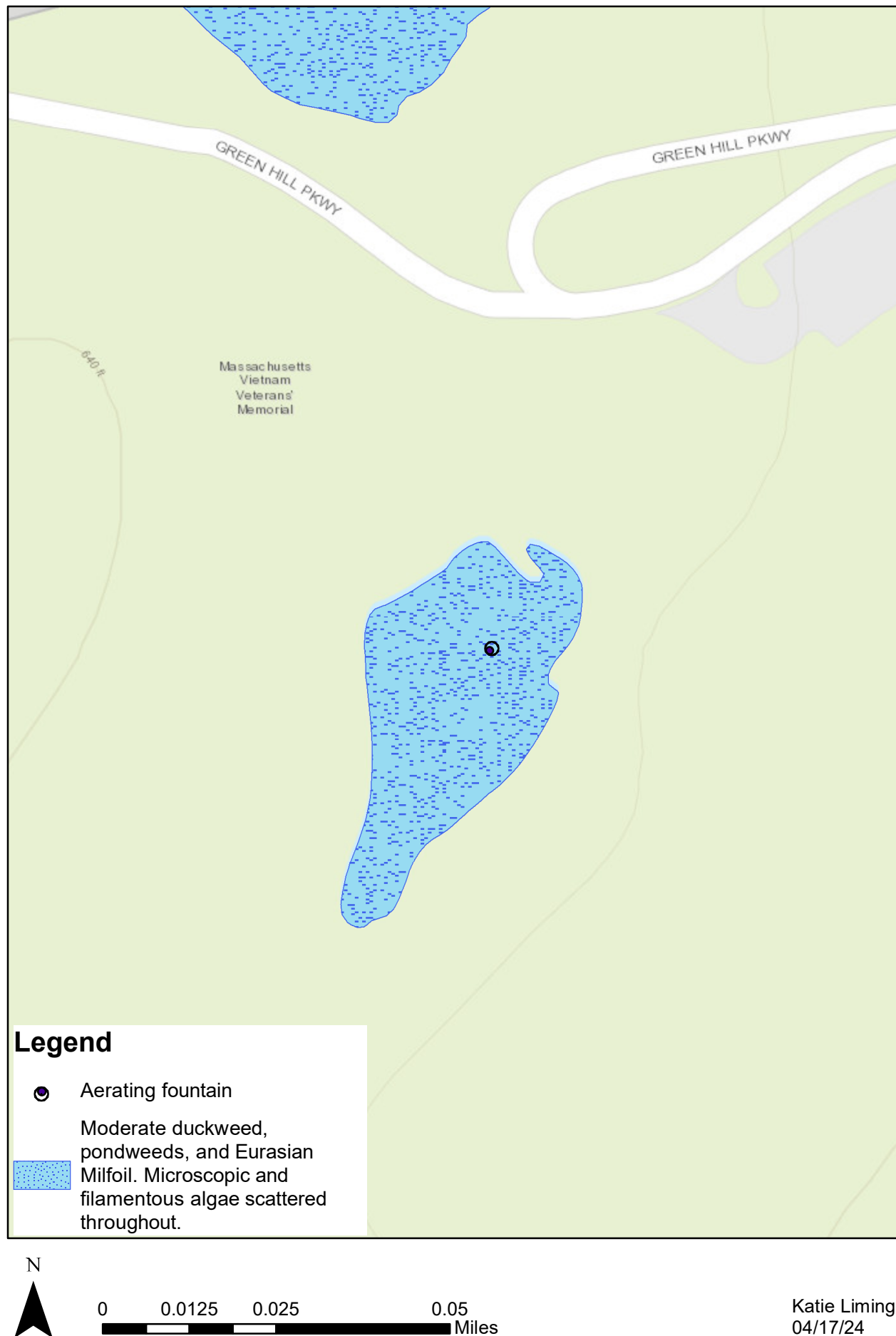


Figure 8: Lincoln Pond (Elm Park) Site Map



0 0.04 0.08 0.16 Miles

Katie Liming
04/17/24