



Community Preservation Committee Meeting

Thursday, February 15, 2024 at 7:00 PM
Remote Participation Only

Agenda

Pursuant to Chapter 2 of the Acts of 2023, the meeting and public hearing will be conducted with remote opportunities for participation. Remote participation and access methods include:

ACCESS INFORMATION:

- A. This meeting will be held on February 15, 2024, at 7PM. Location: Remote Participation Only
- B. The meeting will be recorded by WCATV (Watertown Cable Access Television): <http://vodwcatv.org/CablecastPublicSite/watch-now?site=3> and may be viewed on demand at a later date.
- C. The Public may join the virtual meeting online: <https://watertown-ma.zoom.us/j/91525442843>
- D. Public may join the virtual meeting audio only by phone: (877) 853-5257 or (888) 475-4499 (Toll Free) and enter Webinar ID: 915 2544 2843
- E. Public may comment via email prior to the meeting: lhandy@watertown-ma.gov
- F. Please Visit the Community Preservation Committee Website here: <https://www.watertown-ma.gov/352/Community-Preservation-Committee>

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- 1. Call to Order
 - 2. Walker Pond Application Amendment
 - A. Amended Scope of Services - Ecological Study
 - 3. Committee Discussion - FY 2024 CPA Funding Recommendations
 - 4. Acceptance of Minutes
 - A. 2024-1-18-Draft-CPC-Minutes
 - B. 2024-2-1-Draft-CPC-Minutes
 - 5. Committee Discussion - Return to In-Person Meetings
 - 6. Adjourn

Mark Krackiewicz, Chair
Jonathan Bockian, Vice Chair
Bob DiRico

Dennis J. Duff
Allen Gallagher
Abigail Hammett

Jamie O'Connell
Elodia Thomas
Matthew Walter



February 8, 2024

Mr. Steven Magoon
Assistant City Manager for Community Development and Planning
149 Main St, 3rd Floor
Watertown, MA 02472-4410

smagoon@watertown-ma.gov

Re: Supplemental Services Proposal : Ecological Assessment for Walker Pond Feasibility Study

Dear Mr. Magoon:

We are pleased to provide this supplemental proposal for the ecological assessment requested by the Community Preservation Committee (CPC) at their meeting on January 18, 2024. Our proposal is based on the attached proposal from Normandeau Associates who provided the most favorable cost, from the qualified firms we solicited proposals from. Watertown CPC members familiarity with Normandeau Associates from their experience with Black's Nook at Fresh Pond in Cambridge is another factor in recommending them for the Walker Pond ecological assessment.

Normandeau Associates' proposal identifies Tasks 1-5 as a minimum scope to include with the initial Walker Pond feasibility study and master plan phase, and suggests Tasks 6-10 may be appropriate to include after a master plan is established when funds are available for design, permitting and construction. We are presenting this as such, but leaving that decision up to the City.

Please note that Normandeau Associates' fees are estimated amounts. Warner Larson's standard 10% fee for coordinating subconsultant services is applicable to them. Therefore, we are proposing the following not-to-exceed budget:

•	Tasks 1 through 5	\$30,000
•	Tasks 6 through 10	\$25,000
	Total	\$55,000

Sincerely,
WARNER LARSON, INC.

David Warner, ASLA, RLA
Principal

APPROVED BY:

Signature

Printed Name

Title

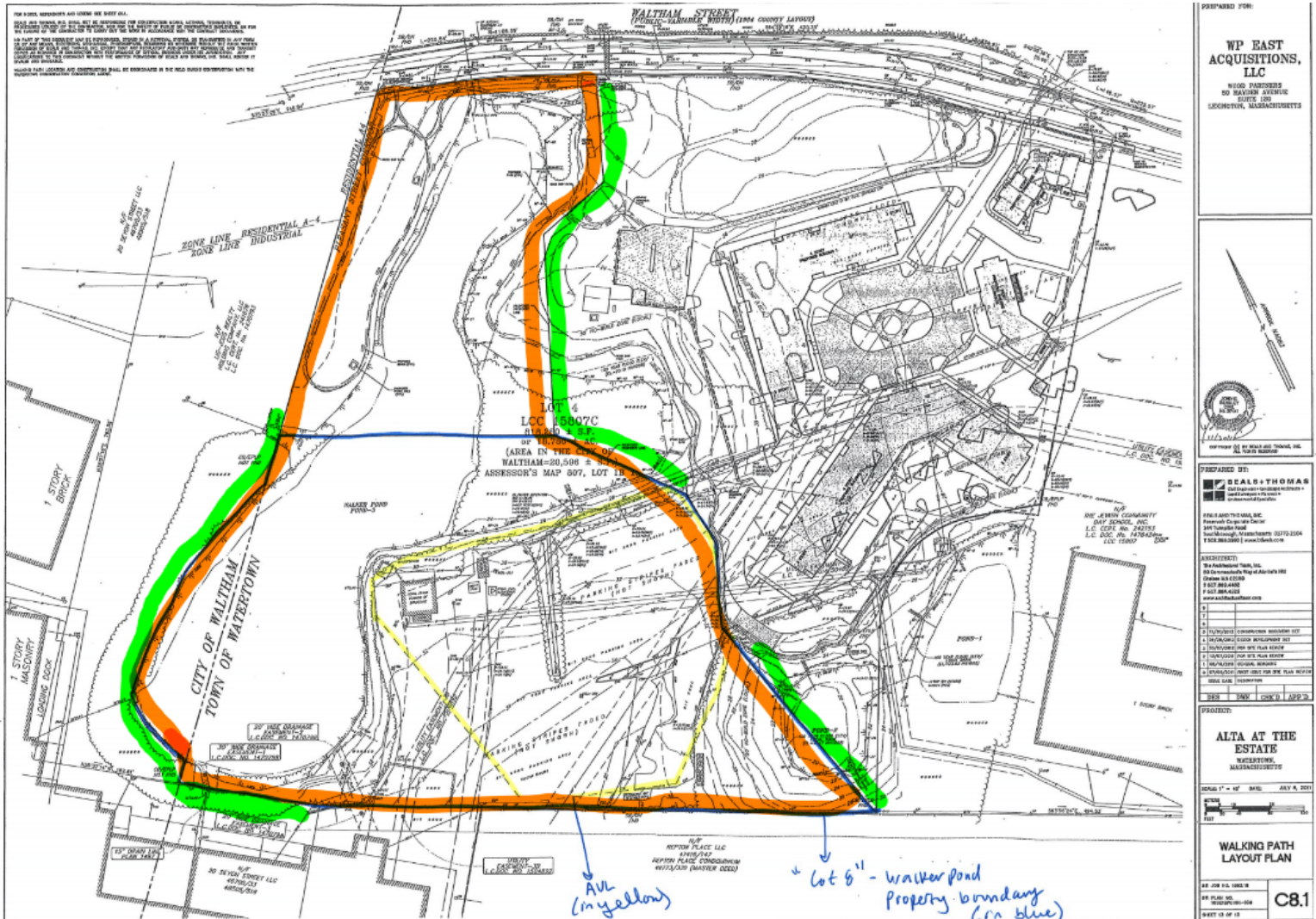
Date

Attached: Normandeau Associates proposal dated February 7, 2024

Cc: Ms. Katie Swan, Environmental Planner/Conservation Agent, kswan@watertown-ma.gov
Mr. Gideon Schreiber, AICP, Assistant Director of Planning, gschreiber@watertown-ma.gov

Walker Pond Ecological Study Extents (orange outline)

Green border identifies abutting natural areas excluded from the study, but their character will be referenced generally as it relates to the study area.



NORMANDEAU AGREEMENT/LETTER OF AUTHORIZATION (LOA)

February 7, 2024

David Warner
Warner Larson, Inc.
130 W Broadway
Boston, MA 02127

Re: Agreement
Project Title Walker Pond
Normandeau Associates, Inc. Opportunity No. 2024-07-028

Dear Mr. Warner:

Normandeau Associates, Inc. ("Normandeau") is pleased to provide this proposal in response to Warner Larson, Inc. ("Client") request to provide professional environmental services as outlined below. This letter along with the accompanying Standard Terms and Conditions is to be considered an Agreement when executed by Client's duly authorized agent.

SCOPE OF SERVICES: A summary of professional services to be performed by Normandeau and proposed compensation are included below. Services and associated costs are organized by Task. It is Normandeau's understanding that the Client wishes to obtain a baseline ecological assessment of features within the approximately 7-Acre Walker Pond Property Boundary/Lot 8 (Attachment A; "Study Area") with an overall goal of improving quality and health of water and shoreline while creating opportunities for conservation and recreation. A desktop look at the Walker Pond watershed and pollutant sources will be conducted to inform possible restoration and regulatory compliance. Normandeau believes that Tasks 1 through 4 represent an appropriate level of investigation to assess feasibility of restoration at Walker Pond given what information is currently available on the site's history, surrounding land use, and mapped resources. Additional tasks are included for wildlife inventories should the Community Preservation Committee ("CPC") require further assessment or need input on habitat enhancement during the second Phase of the project, particularly for habitats with potential impacts from construction of a recreational pathway around the Pond.

Task 1. Project Management and Meetings

Normandeau will support Warner Larson, Inc. during the community engagement process by attending one meeting with the Community Preservation Committee on February 15, 2024, at 6 PM and three public meetings including a kickoff/idea generation, design review, and final design meeting. These meetings are assumed to be two hours in duration. Any additional meetings will be subject to a scope/cost adjustment.

Task 2. Wetland Delineation Review and Invasive Species Mapping

Normandeau will field-delineate wetland Resource Areas within the Study Area. Wetlands will be delineated in accordance with the requirements of the U.S. Army Corps of Engineers ("USACE") Wetland Delineation Manual and Northcentral and Northeast Regional Supplement (2012), the Massachusetts Wetlands Protection Act ("WPA") regulations (MGL Ch. 131 § 40 and 310 CMR 10.00), Watertown Wetland Ordinance (2008), and the

Massachusetts Department of Environmental Protection (“MassDEP”) wetland delineation guidance document entitled “Massachusetts Handbook for Delineation of Bordering Vegetated Wetlands” (September 2022).

The field delineation will include the identification and flagging of wetland resources in and within 150 feet the Study Area. Wetland boundaries will be flagged with sequentially numbered, pink flagging or pink pin-flags. Waterbodies, such as streams and ponds, will be demarcated with sequentially numbered blue flagging. Perennial streams within 200-feet of the Study Area will be identified. Stream evaluations will be based on the ordinary high water mark (“OHWM”), as defined by Corps regulations and guidance documents. For the purposes of this scope, it is assumed that the OHWM will be generally coincident with the upper boundary of Inland Bank as described under 310 CMR 10.54 and the mean annual high water mark for determining Riverfront Area under 310 CMR 10.58. Field notes and photographs will be taken to characterize dominant plant species, soil conditions, and hydrologic conditions. U.S. Army Corps of Engineers field data sheets will be collected for representative wetland areas in the Study Area. Normandeau will provide a wetland delineation sketch to the Client to assist with the survey-location of wetland flags.

The Study Area will be reviewed for vernal pool breeding amphibian species concurrently with the wetland resource area delineation. For the purposes of this study, spotted salamander (*Ambystoma maculata*), blue-spotted salamander (*Ambystoma laterale*), Jefferson’s salamander (*Ambystoma jeffersonianum*), and wood frog (*Lithobates sylvaticum*) will be specifically targeted using egg mass surveys of suitable breeding habitat. Suitable breeding habitat includes seasonally flooded depressions as well as shaded pond shores. Egg masses of other amphibian species will be identified if incidentally noted during the survey, but it is anticipated that anuran-call surveys will better characterize the pond-breeding species of amphibians at the site. Vernal pool surveys will take place in the spring, coinciding with peak breeding season for obligate species. In the vicinity of Watertown, this typically occurs between April 15 and May 15, but survey timing will be adjusted as necessary based on reports of vernal pool breeding activity in eastern Massachusetts.

Concurrently with the wetland delineation, invasive terrestrial plant species will be identified, and GPS located. These locations and approximate extent will be identified on the wetland delineation sketch.

The wetland delineation and invasive species survey will be conducted during the growing season, beginning approximately in April and will be completed by June 30, 2024. A brief memo report will describe the findings of the delineation, vernal pool survey, and invasive species mapping as well as describe the pond’s physical condition including inlets and outlets.

Task 2 Assumptions:

- Access to the Study Area will be granted by the City of Watertown.
- One vernal pool visit is sufficient to document vernal pool activity at the Study Area.
- A land surveyor will be responsible for locating Resource Area flags. Normandeau does have this capability if needed for an additional fee.
- No permitting is included in this work scope or fee but can be added through a change order if requested.
- An add-on will be required if the assumptions or estimated fees outlined above are exceeded.

Task 3. Water Quality

The Community Preservation Act five-year plan (2021-2025) notes that Walker Pond is fed by stormwater runoff that feeds algal blooms. To better identify the water quality issues facing the Pond, nutrient, chlorophyll-a, and cyanobacteria sampling are proposed, along with instrument readings for the collection

of dissolved oxygen, pH, temperature, and conductivity. Prior to sampling, a review of existing water quality data will be conducted to establish baseline data to the extent practicable. Two sampling rounds are proposed for nutrients, chlorophyll-a, cyanobacteria, and instrument measurements to inform water quality. One sampling event will occur in May and one in June. Additional water quality sampling between July and September could provide additional information but is outside of the proposed timeframe from the Client and outside of this work scope.

All field measurements will be collected in accordance with standard protocols. Water quality measurements will be made with a YSI ProDSS multiparameter field meter. Laboratory samples will be collected in accordance with typical study plan requirements (e.g. integrated core for chlorophyll-a, discrete layer sampling for nutrients in stratified waters). Samples will be preserved and stored in accordance with laboratory requirements and delivered to the laboratory within the required hold times. Samples collected for cyanobacteria will be analyzed in the Normandeau taxonomy lab; all other laboratory samples will be submitted to an independent accredited laboratory. The fees associated with laboratory identification of cyanobacteria are included in this proposal; however, the fees associated with all other laboratory analysis are not included.

These metrics can be used to identify specific potential water quality concerns within the proposed project area and inform the need for future watershed scale studies of potential pollution sources and identify specific regulatory concerns. Lab results, sampling methods, and recommendations for more targeted studies conducted in subsequent phases of design will be detailed in a brief memo report.

This task will be conducted between May 15 and June 30, 2024.

Task 4. Submerged Aquatic Vegetation (SAV)

The Community Preservation Act five-year plan (2021-2025) indicates the vegetation within Walker Pond is comprised of invasive species. Eradication of invasive species can be costly and detrimental to other organisms in the ecosystem, and determining SAV composition would determine the feasibility of restoring the pond through means such as dredging or diver assisted suction harvesting.

Submerged Aquatic Vegetation (“SAV”) will be inventoried and mapped. A GPS unit is employed to map the areal coverage and determine the boundaries of the respective vegetative types present. The pond can be traversed back and forth along parallel transects with the beginning and end-points of the respective vegetative types located. These data are entered into an ArcGIS Pro database system for mapping and area calculations of each type.

A map is produced that includes a legend showing the respective coverages.

Task 5. Tree inventory

Consistent with the Watertown Wetlands Ordinance (2008), Normandeau will conduct a tree inventory to document existing trees in the Project area for inclusion on wetland permitting plan sets. Normandeau will record GPS location, tree species, diameter at breast height (“DBH”), and tree condition/vigor. Using the USACE definition for tree strata from the Northeast regional supplement, all woody plants three inches or more in DBH, regardless of height, will be recorded.

A table of tree species by size class will be produced, and a map showing tree type and locations.

Task 6. Herptiles and Breeding Anuran Survey

The presence and of breeding anurans (frogs and toads) can readily be identified by their breeding calls, which are also distinctive by species. Following the North American Amphibian Monitoring Program¹ survey protocols, surveys for breeding frogs and toads will be conducted to verify their presence in the Study Area. These surveys will consist of a five-minute listening period at each listening location, conducted 30 minutes after sunset or later and completed by 1 a.m. under conditions with minimal wind, and an appropriate air temperature, based on the sampling period. Light rain that does not interfere with listening is also a suitable survey condition. The survey locations will be visited three times from late May through June. Survey locations will be established at two locations on Walker Pond, one at the southern end and one at the north, outside of the Study Area. It is assumed that the northern area is publicly accessible from the walking path off Waltham Street or from the Bell Watertown Public Dog Park. Survey conditions and results will be recorded on standardized data forms. Information collected will include survey beginning and end times, weather conditions (wind and precipitation), air temperature, water temperature, and qualitative notes regarding ambient noise levels. All species of amphibians heard calling will be recorded. For each species of amphibian heard, calls will be coded as: 1 = non-overlapping calls; 2 = intermittently overlapping calls; or 3 = continuously overlapping calls, for that species. Calling intensity provides an index of population size at that location, at the time of the survey. The survey effort and results will be summarized in a memo report.

This study will be conducted in May-June period of 2024.

Opportunistic observations of turtles, snakes, newts, and salamanders made during other surveys will be recorded. Additionally, an active search for these species will be conducted on two occasions under suitable weather conditions. Active searches involve disturbing cover to look for hidden animals, as well as spending time quietly at Walker Pond to observe basking turtles. All cover-disturbing activities will be minimal, targeted, and thoughtful to avoid destroying habitat where availability is limited. The survey effort and results will be summarized in a memo report.

This study will be conducted concurrently with other survey activities in 2024.

Task 7. Breeding Bird Survey

Walker Pond may serve as an oasis for migrating and breeding birds. The surrounding landscape is heavily industrialized and developed, which limits populations for many wildlife groups in terms of genetic diversity and abundance. Birds are able to circumvent many of these development obstacles, and require undeveloped areas for many needs including: foraging by species that use the pond as a primary source of food; nesting for those that use the pond and surrounding forest for breeding, nesting, foraging and rearing young; as a stopover resting and foraging site for migrating birds; and as supplemental foraging area for birds more often found in and around the Charles River. Breeding birds will be surveyed three times in the spring of 2024, using standardized census methods² to detect birds, and Breeding Bird Atlas (“BBA”) criteria to confirm the breeding status of the birds detected. Because the Study Area is only about 100 meters in diameter and point count methodologies require points be located at least 150 meters apart, an area-census method has been selected to completely characterize avifauna within approximately 100 feet of the pond. In accordance with BBA criteria, this survey will

¹ https://www.usgs.gov/centers/pwrc/science/north-american-amphibian-monitoring-program?qt-science_center_objects=0#qt-science_center_objects

² Gregory, R. D., D. W. Gibbons, and P. F. Donald. Bird census and survey techniques. Bird ecology and conservation (2004): 17-56.

begin after May 25, the Massachusetts “safe” date, after which migration is assumed complete and all birds present are presumed summer residents. Species recorded on at least two of three survey dates per site are assumed to be resident breeders at that site, so long as the surveys are at least three days apart. Other behaviors, including carrying of nesting material, fecal material, or food, as well as begging young will also be considered evidence of breeding. Each survey will consist of a surveyor walking the perimeter of the pond slowly and locating individual birds found within the Study Area. The surveyor will spend a minimum of two hours on site and starting point and direction of travel along the pond shore will vary such that no location is surveyed at the same time of day during subsequent visits. The survey effort and results will be summarized in a memo report.

The breeding bird survey will be conducted as follows:

- On three occasions, between May 25 and June 30, at least three days apart, between 45 minutes before sunrise and 8:00 a.m.
- All birds seen and heard, including flyovers, will be recorded.
- The behavior of the birds observed, including counter-calling by conspecifics, will be recorded.
- Data will be recorded in a standardized format on a hand-held electronic device, for automatic download in spreadsheet format for analysis and list generation.
- Surveys will be conducted under appropriate weather conditions, i.e., when temperatures are above 40°F, there is no precipitation, and winds are light (<10 mph).

This study will be conducted between May 25 and June 30 in 2024.

Task 8. Bat Acoustic Survey

Acoustic bat surveys, conducted with automated high frequency recording devices, provide a reliable, non-invasive, and cost-effective means of confirming the presence of bats and identifying the species present. The proposed survey will be conducted using full spectrum recording equipment that meets US Fish and Wildlife³ (“USFWS”) specifications, and it will be placed in the field to meet USFWS data collection standards. Two recording units will be placed on the Walker Pond shoreline for seven consecutive nights, which would meet the recommended survey level of effort for one non-linear project area, assuming weather meets the requirements outlined in the current USFWS guidelines for valid survey. In addition to collecting call data, ancillary habitat data and nightly weather data from the nearest NOAA weather station to estimate nightly weather conditions in the survey area will be collected. Data analysis methods will meet USFWS standards, and all bat calls recorded will be analyzed by USFWS approved software to determine presence/absence of species in the Study Area. The survey effort and results will be summarized in a simple report, and tables of the call data provided.

This study would be conducted between May 15 and June 30, 2024.

Task 8 assumptions:

- Should any tree clearing or limbing be necessary for trail construction during the bat active season (generally April 1 through October 15), this task should be performed; this scope assumes clearing and limbing will be outside of this date range and it is therefore presented as an optional task.
- This task assumes the survey is not an official survey for submittal to USFWS and therefore does not require creation and review of a study plan or coordination with USFWS.

³https://www.fws.gov/sites/default/files/documents/USFWS_Range-wide_IBat_%26_NLEB_Survey_Guidelines_2023.05.10.pdf

- No manual review of acoustic calls is included in this scope or costing.
- Weather is unlikely to meet the requirements outlined in the current USFWS guidelines seven days in a row, however, as this study is for informational purposes, it is assumed that one week of survey will be representative of the existing bat use for the Study Area.
- Similar to Task 4, public access is assumed at the northern end of Walker Pond.

Task 9. Fish

Walker Pond is a relatively isolated pond with no perennial inlet or outlet based on aerial imagery. It is not a fishing pond nor is it navigable. This type of pond is common in similar settings, and fish species likely present include those adapted to low oxygen levels and nutrient enrichment. Species composition within the pond is unlikely to change due to the restricted movement in or out of this environment, so a fisheries study is not thought necessary other than for providing information on species and their condition. Should a fisheries study be requested by the CPC, it is assumed that motorboat access is possible at the northern end of Walker Pond. It is further assumed that the grade to the water from the shoreline is low enough to accommodate getting the boat back out of the water and it should be noted that rutting can occur at the takeout location depending on the ground substrate type and condition. If boat access is not possible given the existing conditions, netting can be used as an alternative survey method but may be subject to additional costing.

Fish will be captured, primarily from SAV, which is their preferred habitat. Meaning, SAV provides both refuge and an abundant food source for juvenile and adult fishes.

The fisheries investigation is conducted using a john-boat electro-fishing system powered by a generator that establishes a continuous DC-field of approximately 5-amperes between boat-mounted cathode and anode arrays. This method is particularly effective in depths up to six feet. The electric field temporarily immobilizes any fish encountering it, so they can be netted and placed in a live well for processing, and then released unharmed. For this project, the perimeter of the pond (the littoral zone) will be traversed in a sinewave (sinuous) pattern as a single-pass effort. Following this, additional areas of the pond in the middle can be fished (if shallow enough) to provide more comprehensive information.

Captured fish are identified, measured to the nearest 1-mm total length, observed for disease or parasitism, and released.

The fish samples can be analyzed using appropriate indices of richness, density, diversity, relative abundance, and community composition.

For the fish samples, the following metrics are calculated:

- Richness: the total number of species
- Catch per Unit Effort: the number of fish caught per hour
- Diversity: a measure of distribution among all species present
- Relative Abundance: the percent abundance of each species
- Community Composition: the identity of all species captured
- Incidence of Disease and/or parasitism: as a percent by species
- Size Class: gives an indication of successful reproduction for each species

The results from the fisheries investigation and all metric calculations will be provided in report-ready table format.

Task 10. Macroinvertebrates

Macroinvertebrates are commonly used to assess water quality by presence of certain taxa that are more or less sensitive to pollution and other environmental factors. Because water quality sampling is proposed under Task 3, a macroinvertebrate study is not likely to be necessary, but can be conducted if needed.

Macroinvertebrates will be collected from two habitat types one benthic (soft bottom sediment) and a second littoral zone (submerged aquatic vegetation). To produce a representative collection effort that encompasses the entire area of the pond, it will be divided into four quadrants (NE, NW, SE, and SW): and macroinvertebrate sampling conducted from each.

Quantitative benthic samples are collected from soft sediment (silt, clay, detritus), that tends to become anoxic (poor quality), yet often represents the predominant habitat type found in small pond ecosystems. These samples are taken with a Petite Ponar Grab that encompasses an area of 0.023 square meters. Three replicate grabs are collected from each quadrant, sieved in the field using a 500-micron mesh, preserved with isopropanol, and then prepared for shipment to Normandeau's Stowe, PA laboratory.

Many pond ecosystems contain growths (sometimes extensive) of SAV around the perimeter and sometimes throughout if the water is not deep. Because this is the preferred habitat for many invertebrate forms, a robust taxonomic listing is usually developed from samples taken from SAV. To accomplish this a Kick Net is used. A qualitative sample is collected as a composite of five to ten "jabs and sweeps" from each quadrant. To accomplish this, the net is "jabbed" into the SAV to dislodge invertebrate specimens and then "swept" through the disturbed area to collect them. These samples will be preserved and prepared the same way as the Ponar samples.

At the laboratory the sample matrices are processed in entirety and sub-sampling limited to taxonomic groups that are particularly abundant (e.g., > 100). Small aliquots (spoon-sized) of matrix are spread out into a grid-marked pan, partially filled with water and invertebrate specimens removed under magnification using forceps. Sorted specimens are preserved and placed by type into glass vials for identification. This process is repeated until the entire matrix has been processed. For this pre-sort any specimens from taxonomic groups determined to be abundant are left in the matrix. Following initial processing the matrix is placed into a Folsom Sample Splitter and randomly divided into fractions (e/g., ¼). The specimens from abundant groups are removed from randomly selected fractions and counts for these calculated according to the amount of matrix re-processed.

Invertebrate specimens are identified to the genus/species (lowest practicable taxon) endpoint, as their age and condition allows, using dissecting and compound microscopes and peer-reviewed taxonomic literature. Midge (Chironomidae) and tubeworm (Tubificida) specimens are cleaned with either Potassium hydroxide or Ammons' Lacto phenol and slide-mounted prior to identification.

The macroinvertebrate samples can be analyzed using appropriate indices of richness, density, diversity, relative abundance, and community composition.

For the Ponar samples, the following metrics are calculated:

- Richness: the total number of taxa

- Community and Population Density: the number of specimens per square meter
- Diversity: a measure of distribution among all taxa present
- Relative Abundance: the percent abundance of each taxon
- Community Composition: the identity of all taxa present in the samples

For the Kick Net samples, the same metrics are calculated; except for Density which requires a quantitative analysis.

LAB STORAGE: Normandeau will store samples in Stowe, PA. Normandeau will keep samples for one year after completion of project in case questions arise regarding the analysis. The estimated sample disposal date is 06/30/2025.

The results from the benthic macroinvertebrate analysis and metric calculations will be provided in report-ready table format.

PROJECT LOCATION: Watertown and Waltham, MA

Expected Timeline: Normandeau's expected timeline to provide services will be between 2/15/2024 until 6/30/2024. The expected time frame may be subject to change due to client requirements, postponement of services or unforeseen circumstances.

COMPENSATION: The estimated price will be \$47,697.28. Normandeau will invoice time and materials monthly. The below tasks and cost are assumed independent of each other unless otherwise specified. Efforts will be made to combine trips and reduce travel-related hours and fees when possible.

TASK NUMBER	TASK NAME	Estimated Fees (includes time and expense)
1	Project Management/Meetings	\$3,562.72
2	Wetland Delineation and Invasive Survey	\$4,864.36
3	Water Quality Survey	\$6,285.36
4	SAV Survey	\$3,845.68
5	Tree Inventory	\$7,027.36
Estimated Total - Tasks 1-5		\$25,585.48
6	Herptile Survey	\$4,241.04
7	Bird Survey	\$3,776.04
8	Acoustic Bat Survey	\$3,735.68
9	Fish Survey	\$4,749.68
10	Macroinvertebrate Survey	\$5,609.68
Estimated Total - All Tasks		\$ 47,697.28

Payment shall be made to us within thirty (30) days of receipt of Normandeau's invoice. If a credit card is used for payment, then Normandeau's price will increase by the amount of the credit card surcharge. Late payments shall incur interest at the rate of 1.5% per month over thirty (30) days. Normandeau may, at its sole option, terminate its obligations under this Agreement if any invoice is not paid within thirty (30) days of receipt.

RETAINER: Normandeau requires a retainer of \$4,770 to be submitted upon client internal funding approval. The retainer will be credited to the final invoice for services. If the retainer is submitted by check, please send to the address below referencing the opportunity number above:

Normandeau Associates, Inc.
PO BOX 845335
Boston MA 02284-5335

If you would like to submit by ACH please contact abogart@normandeau.com for the transfer information.

NORMANDEAU POINT OF CONTACT: Benjamin Griffith; bgriffith@normandeau.com ; (603) 637-1136
(direct) (603) 801-1856 (cell)

If this Agreement is acceptable, please sign this letter and the Terms and Conditions where indicated as Client and return one (1) executed copy to Normandeau's office, along with your retainer, to confirm the Agreement. If not executed within sixty (60) days from the date of this letter, it may be subject to renegotiation.

Normandeau is pleased to have the opportunity to be of service.

Sincerely,



Benjamin Griffith
Project Manager



Curtis L. Thalken
Chief Executive Officer

Attachments:

- A. Normandeau Standard Terms and Conditions
- B. Normandeau Qualifications
- C. Key Staff Resumes
- D. Selected Project Descriptions

ACKNOWLEDGEMENT

Re: Agreement
Project Title: Warner Larson Walker Pond
Normandeau Associates, Inc. Opportunity No. 2024-07-028

Warner Larson, Inc., Boston, MA hereby acknowledges this to be an Agreement and agrees to the conditions as stated. Normandeau is hereby directed to proceed with the scope of services.

Warner Larson, Inc. hereby acknowledges that it has the financial resources and intends to pay for services rendered in accordance with the conditions as stated herein and acknowledges that if invoices are not paid in full within 30 days of receipt, that the Normandeau may stop work until the invoices are paid.

Warner Larson, Inc. warrants that the signature below represents the Client and possesses the full legal authority to execute this Agreement on behalf of Client.

CLIENT NAME: Warner Larson, Inc.

Duly Authorized Agent

Date of Execution

Printed Name

Title

ATTACHMENT A: NORMANDEAU STANDARD TERMS AND CONDITIONS

NORMANDEAU ASSOCIATES, INC.

STANDARD TERMS AND CONDITIONS

The terms and conditions set forth herein (these 'Terms and Conditions:' have been attached and are part of a written proposal (the 'Proposal') dated 2/1/2024 submitted by Normandeau Associates, Inc. (hereinafter called 'Normandeau') to

Warner Larson, Inc.
130 W Broadway
Boston, MA 02127

(hereinafter called 'Client'), which Proposal sets forth certain services to be undertaken by Normandeau for the Client (the 'Services'). As used herein, the term 'this Agreement' shall mean these Terms and Conditions and the Proposal collectively.

1. PERFORMANCE OF SERVICES

Normandeau agrees to perform the services as set forth in the Proposal, subject to any Unexpected Contingency (as defined in Section 6 below). The Services shall not be changed without the written agreement of both Normandeau and the Client, except for such changes to the Services as may be permitted, authorized, or contemplated by the Proposal.

2. PAYMENT

- (a) The Client agrees to pay for the Services in accordance with the payment terms set forth in the Proposal. Unless otherwise agreed to in writing by Normandeau and the Client, any agreed-upon changes to the Services requiring additional services shall also be paid in accordance with the same terms, whether such additional Services be undertaken (i) pursuant to Section 8 below, (ii) as a result of any governmental or court order or subpoena (including, but not limited to, preparation for and attendance at any hearing, or (iii) otherwise.
- (b) Normandeau will send its invoices to the Client on or before the twentieth (20th) of each month for Services rendered during the preceding month. The Client agrees to pay to Normandeau the amount shown in each invoice upon the Client's receipt of the invoice. Normandeau shall be entitled, at its sole option to apply a finance charge of 1-1/2% per month on accounts 30 days overdue. This is an APR of 18%.

3. WARRANTY

Normandeau warrants to the Client that Normandeau will exercise reasonable care, skill, competence, and judgment consistent with current professional standards in performing the Services and in meeting any estimate of cost or schedule set forth in the Proposal. In consideration of Normandeau's extension of this warranty to the Client, the Client agrees that THIS WARRANTY SHALL BE EXCLUSIVE OF ALL OTHER WARRANTIES, WHETHER EXPRESSED OR IMPLIED.

4. INDEMNITY

- (a) Normandeau agrees to indemnify, and hold harmless the Client and its agents, representatives, employees, successors, and assigns from and against any and all claims, damages, losses, liabilities, costs, and expenses (including, but not limited to, attorney's fees) arising out of, in connection with, or as the result of:
 - (i) negligent performance of the Services or willful neglect; or
 - (ii) any breach or default by Normandeau of any of its obligations herein.
- (b) Likewise, the Client agrees to indemnify and hold harmless Normandeau and its agents, representatives, employees, successors, assigns and subcontractors from and against any and all claims, damages, losses, liabilities, costs, and expenses (including, but not limited to, attorney's fees) arising or alleged to have arisen in any way out of, in connection with, or as the result of:
 - (i) willful neglect, omissions or negligent actions of the Client;
 - (ii) any breach or default by the Client of any of its obligations under this Agreement; and
 - (iii) any unintended use or reliance by the Client or by a third party as described in Section 14 below.
- (c) If requested to do so, Normandeau will provide proof of insurance coverage procured from a responsible insurance company licensed to do business in the State of New Hampshire, or the state in which the work will occur.

5. DAMAGES

The Client agrees that Normandeau's sole liability for any breach of its warranty as set forth in Section 3. or section 4 above, or as the result of any cause or causes of action in any way related to the Services and arising in contract, tort, strict liability, or otherwise, shall, in the aggregate, be limited to the obligation to pay the Client an amount equal to the lesser of:

- (a) the damages suffered by the Client as the direct result thereof, or
- (b) the total amount theretofore paid by the Client to Normandeau for the Services.

In no event shall Normandeau be responsible for any incidental, indirect, special, or consequential damages (including, but not limited to, loss of profits), even if Normandeau has been advised of the possibility of such damages.

6. UNEXPECTED CONTINGENCIES

If Normandeau is unable to commence the Services within the time period set forth in the Proposal (or, if no time period is set forth in the Proposal, then within ninety (90) days from the date of the Proposal) because of any Unexpected Contingency (as defined below), then Normandeau shall have the right, at its option, either to terminate its obligations under this Agreement or to renegotiate the terms and conditions set forth in this Agreement. Further, if Normandeau's performance of any covenant, agreement, condition, or term of this Agreement is prevented, delayed, made impossible, or otherwise interfered with by any Unexpected Contingency, then Normandeau's performance thereof shall be suspended during the continuance of such event and for a reasonable time thereafter, notwithstanding any provision of this Agreement to the contrary.

For purposes of this Agreement, an 'Unexpected Contingency shall mean:

- (i) strikes, lockouts, riots, unavoidable accidents, acts of God or of the public enemy, or unavailability of transportation;
- (ii) any lawful order issued by the United States government or any other federal, state, or local governmental authority;
- (iii) any unforeseen or unexpected contingency the non-occurrence of which was expressly impliedly or assumed in the Proposal; or
- (iv) any other cause beyond Normandeau's reasonable control.

7. HAZARDOUS MATERIALS RISK (where applicable)

- (a) The Client recognizes that there is an inherent risk in drilling borings, excavating trenches, or implementing other exploration methods in connection with a hazardous materials project. For example, penetration of an aquifer may induce cross-contamination.
- (b) The Client recognizes that the state of practice used by Normandeau in performing the Services is consistent with current accepted practice particularly with respect to hazardous materials. The Client recognizes that the standards applicable to the Services to be performed by Normandeau may change subsequent to the performance of the Services because of improvements in the state of practice.

8. RECOMMENDATION RE: ADDITIONAL SERVICES

Normandeau reserves the right to recommend to the Client from time to time whether, in Normandeau's professional judgment and as the result of the discovery of any latent site conditions or any other reason supporting said judgment and unknown to Normandeau at the time the Proposal was prepared, additional services should be performed beyond the Services set forth in the Proposal. If the Client decides that said additional services should not be performed, then Normandeau, at its option, shall be entitled to discontinue performing any further Services for the Client if Normandeau believes that its professional judgment or reputation would be impaired thereby. Upon any such discontinuance, the Client shall pay Normandeau for the Services performed to that date.

9. CONFIDENTIAL INFORMATION; DISCLOSURE

- (a) The Client shall retain and treat as confidential, and shall not disclose to any third party, any information or data furnished to the Client by Normandeau which relate to Normandeau's technologies, formulae, procedures, processes, methods, trade secrets, ideas, improvements, and/or inventions, which are designated in writing by Normandeau as confidential at the time of transmission and are obtained or acquired by the Client in connection with this Agreement.

- (b) Subject to the provisions of subsection (c) and (d) below, Normandeau shall retain and treat as confidential, and shall not disclose to any third party, any information or data furnished to Normandeau by the Client which relate to the Client's technologies, formulae, procedures, processes, methods, trade secrets, ideas, improvements, and/or inventions, which are designated in writing by the Client as confidential at the time of transmission and are obtained or acquired by Normandeau in connection with this Agreement.
- (c) Notwithstanding the provisions of subsection (b) above, the Client acknowledges and agrees that Normandeau shall be entitled to disclose, and/or permit to be inspected and/or copied, information about the Client and the Services performed by Normandeau under this Agreement when required to do so pursuant to governmental or court order or subpoena; provided, that Normandeau agrees to use its best efforts to notify the Client as soon as reasonably possible after Normandeau's receipt of any such order or subpoena. In the event that any governmental agency or court requires Normandeau to disclose, and/or permit to be inspected and/or copied, any information that has been designated in writing by the Client as confidential pursuant to subsection (b) above, Normandeau is hereby authorized by the Client to request that said governmental agency or court treat such information as confidential and not for public disclosure.
- (d) Notwithstanding the provisions of subsection (b) above, if Normandeau, in its professional judgment, believes that a condition exists which poses a significant imminent danger to human health or the environment, Normandeau shall be entitled to disclose the same to the proper authorities; provided that, unless the condition requires immediate disclosure in Normandeau's judgment, Normandeau shall first notify the Client of said condition and afford the Client an opportunity to voluntarily disclose said condition to the proper authorities.
- (e) Any information or data provided to Normandeau or the Client in accordance with (a) or (b) above that subsequently becomes available from other sources not as a result of disclosure by Normandeau or the Client shall not be deemed a breach of this contract.

10. NORMANDEAU'S PROPERTY

Any samples, reports, drawings, plans or other documentation (or copies thereof) furnished hereunder to Normandeau by the Client shall become and remain the property of Normandeau, unless the Client specifically requests their return in writing upon completion of the Services by Normandeau; provided that, in any case, Normandeau shall be permitted to retain for its records one (1) copy of any and all such information furnished hereunder to Normandeau by the Client.

11. NORMANDEAU'S KNOW-HOW

Unless otherwise expressly agreed to in writing by Normandeau and the Client, nothing herein shall be interpreted as preventing Normandeau from further application and/or use of any know-how acquired from the performance of the Services (excluding only confidential information covered by Section 9(b) above) or from applying and using any know-how Normandeau presently possesses.

12. COOPERATION

The Client agrees to cooperate fully with Normandeau and its agents, representatives, and employees in the performance of the Services and to take any and all such actions as reasonably be requested by Normandeau in connection therewith.

13. INDEPENDENT CONTRACTOR STATUS

Normandeau and the Client agree that Normandeau is an independent contractor and not a partner, employee, or agent of the Client for any purpose.

14. SCOPE OF OPINIONS

Unless otherwise specifically set forth in the Proposal, any information, documents, records, data, interpretations, or opinions given to the Client by Normandeau in the course of Normandeau's performance of the Services shall be for the Client's sole use and benefit and only in connection with the specific project for which Normandeau was engaged by the Client, and the same is not intended to be used or relied upon by the Client for any other purpose nor is it intended to benefit or be relied upon by any third party. Any such unintended use or reliance by the Client or by a third party shall be at the Client's or said third party's own risk. Further, any interpretation or opinion given by Normandeau to the Client shall be limited to the specific laws and/or regulations addressed in the Proposal as the same may be further qualified by the interpretation or opinion in question.

15. MISCELLANEOUS

- (a) **SEVERABILITY.** If any term, condition, or provision of this Agreement or the application thereof to any person or circumstance shall to any extent, be held invalid or unenforceable, then the remainder of this Agreement, or the application of such term, condition, or provision to persons or circumstances other than to those to which it is held invalid or unenforceable, shall not be affected thereby, and each term, condition, and provision of this Agreement shall be valid and enforced to the fullest extent permitted by law.
- (b) **BINDING EFFECT.** This Agreement shall be binding upon and shall inure to the benefit of the parties hereto and their respective heirs, personal and legal representatives, successors, and assigns; provided, that neither of the parties hereto shall be entitled to assign any of said party's rights under this Agreement without the prior written consent of the other party hereto.
- (c) **ENTIRE AGREEMENT.** This Agreement sets forth the entire agreement of Normandeau and the Client with respect to the subject matter hereof. Normandeau and the Client expressly represent to and agree with each other that there are no oral or written representations, warranties, covenants, promises, agreements, conditions, or understandings between them other than as set forth in this Agreement.
- (d) **CONFLICTING PROVISIONS.** In the event of any conflict between any of the terms, conditions, or provisions of this Agreement and any of the terms, conditions, or provisions of the Proposal, the terms, conditions, and provisions of this Agreement shall control unless otherwise specifically set forth in this Agreement.
- (e) **MODIFICATION.** This Agreement shall not be modified or amended except in a writing signed by both Normandeau and the Client.
- (f) **GOVERNING LAW.** This Agreement has been accepted and executed in accordance with, and shall be governed by and construed in accordance with, the laws of the State of
New Hampshire

APPROVED BY: Normandeau Associates, Inc.

Authorized Signature

2/7/2024

Name	Title	Date
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APPROVED BY: Warner Larson, Inc.

Authorized Signature

Name	Title	Date
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ATTACHMENT B: NORMANDEAU QUALIFICATIONS



ABOUT NORMANDEAU

Core Values

- Results-oriented environmental services
- Respect for stakeholders, the public, and our natural environment
- Ethical work conduct and scientific integrity at all times
- Safe and positive work environment
- Pride, investment, and accountability through employee ownership

Corporate Office

25 Nashua Road
Bedford, NH 03110
603.472.5191

Nationwide Offices

California
Florida
Maine
Massachusetts
New Hampshire
New York
Pennsylvania
South Carolina
Vermont

For more information on how we can help with your next project, contact us at
marketing@normandeau.com

www.normandeau.com

At Normandeau, we use science, technology, and innovation to address the most complex environmental challenges. We are a science and data-driven natural resources team; our expertise empowers clients to prioritize, plan, and enhance your decision making. Our standards are high, and our analysis is insightful, accurate, scalable, and proven. Since 1970, we have been delivering results clients can be confident in.

As a 100% employee-owned company, our 150 professional staff members take pride in their service-oriented approach. We work closely with clients, regulators, and stakeholders to seek solutions that enhance and achieve project goals, meet regulatory requirements, protect and restore our natural resources, and help improve communities.

Knowledge

Normandeau's scientists and project managers include highly-credentialed bat, bird, fish, and wildlife biologists; botanists; aquatic, marine, and terrestrial ecologists; federal and state permitting experts; NEPA specialists; wetland scientists; environmental scientists; water resource experts; GIS and technology specialists; and other technical and support staff.

Capacity

Our multi-disciplinary staff is located in 9 states. We maintain one of New England's largest staff of field scientists, giving us the ability to mobilize for projects of any size.

Technology

Normandeau's scientists, technology specialists, and software specialists work together to develop cutting edge, scientific tools and technology to meet the demand for cost-effective ways to identify and address regulated resources and protected species issues.



REPRESENTATIVE SERVICES PERFORMED NATIONWIDE

NEPA Documentation, Permitting, & Studies

- Agency scoping, consultation, and coordination
- Environmental Assessments (EA)
- Environmental Impact Statements (EIS)
- Endangered species habitat evaluation
- Geological/hydrogeological and sediment investigations
- Aquatic and terrestrial ecological assessment
- Wetland delineation and functional analysis
- Impact assessments, mitigation planning, and design alternatives evaluation
- Expert testimony
- Public involvement, communication, and facilitation

Marine & Coastal

- Ecological management and habitat restoration planning and design
- Wetland and watershed studies
- Port planning, dredging, disposal analysis, and permitting
- Habitat assessments, surveys, and analysis for fisheries and marine mammals
- Bird and bat detection and monitoring
- High resolution aerial imaging, analysis, and interpretation
- Site conservation planning and preservation design
- Sediment sampling and vibracoring
- Hydroacoustics and scientific diving
- Biological laboratory fish analysis and identification of benthic and planktonic organisms
- Construction monitoring services

Energy Generation & Transmission

- Hydropower fish passage survivability
- Instream flow analysis
- Entrainment and impingement of fish & larvae at intake structures
- Water quality and thermal monitoring at power plant outfalls
- Nuclear Radiological Environmental Monitoring Program support (USNRC compliant)
- Wind-wildlife interactions: bat and bird mortality reduction
- Power line and gas pipeline planning and routing
- Avian/power line interactions
- Aerial high resolution imaging, analysis, and interpretation
- Wetlands surveys and assessments

Protected Species & Environmental Restoration

- Terrestrial wildlife ecology
- Wildlife management and protection
- Human-wildlife issues (coexisting with wildlife)
- Clean Water Act 316(a) and 316(b)
- Hydroacoustic remote sensing
- Instream flow analysis
- Sustainable practices
- Certified dive masters and USCG licensed boat captains
- Habitat restoration
- Fisheries surveys, ESA consultation (Section 7/ Section 10), and Biological Assessments (BA) for sturgeon, salmon, and other species

INNOVATIVE TECHNOLOGY

- Remote Bat Acoustic Technology (ReBAT®) system for data collection and monitoring
- Turbine Integrated Mortality Reduction (TIMRSM) smart curtailment system
- Remote Condor Observation Network (ReCONTM) early detection system
- Acoustic Thermographic Offshore Monitoring (ATOMTM) system for wildlife surveys
- Remote Marine and Onshore Technology (ReMOTE) secure, real-time data portal
- High resolution aerial imaging for wildlife, habitat, and infrastructure surveys (2D, 3D, RGB, near infrared, thermal)
- Hi-Z Turb'N Tag® technology for fish survival studies
- System for Environmental Flow Analysis (SEFATM) for instream flow modeling
- Active hydroacoustics for underwater remote sensing of aquatic resources (sonar, ADCP, ARIS)
- Submarine remote video



AQUATIC AND NATURAL RESOURCES SERVICES

Normandeau Associates, Inc. is one of the largest science-based environmental consulting firms in the United States serving both the private and public sectors. Founded in 1970, it is a trusted leader in delivering sound, innovative scientific solutions to a global clientele.

Normandeau's team of experienced field scientists, research ecologists, data analysts, technical engineers, and permitting specialists deliver the highest standard of scientific information to achieve project goals, meet regulatory requirements, and promote sustainable economic development. Headquartered in Bedford, New Hampshire, Normandeau has offices nationwide.

For more information on how we can help with your project, contact Michael Mettler at 484-945-2612 or mmettler@normandeau.com

Experienced Professionals, Fleet of Vessels, State-of-the-Art Equipment

Normandeau Associates, Inc. is one of the nation's foremost environmental consultants dealing with aquatic and natural resource issues. Our primary aquatic-related services include fisheries and benthic organism studies, water quality, side-scan sonar, and hydrographic surveys, and water and sediment sampling services.

As specialists in aquatic and natural resources assessments, Normandeau maintains a fleet of field vehicles, workboats, and research vessels with state-of-the-art equipment. A description of some of this equipment and Normandeau's aquatic survey and sampling capabilities follows.



Side-Scan Sonar Surveys

(dredging, channelization; dam construction, operation, and removal investigations)

Normandeau's side-scan sonar equipment is used for sediment characterization of submerged land surfaces and harbor/port operations. Installed on company boats and used in coordination with our Trimble Navigation Differential Global Positioning System (DGPS), this system creates a real-time, geo-referenced digital image of submerged substrate and physical features in water from 5 feet to hundreds of feet in depth.

Hydrographic and Bathymetric Surveys

Normandeau complements its side-scan sonar capability with a portable Hydrotrac echosounder for bathymetric surveys. This echosounder, linked to DGPS, allows for the collection of geo-referenced water depth measurements accurate to 0.1 feet. The instrumentation can be deployed on small boats operating in as little as four feet of water. Normandeau's OmniSTAR 3000LR12 DGPS Receivers have sub-meter and sub-centimeter accuracy.

Sediment Survey Equipment

(analytical testing, pre- and post-dredge surveys, beneficial use studies)

With Normandeau's extensive inventory of sediment sampling devices such as vibracores (barge-mounted and portable), Peterson and Ponar® grabs, gravity corers, hand corers and augers, we are capable of sampling in deep or shallow water, lakes, rivers, or bays, lagoons/impoundments, wetlands, tidal flats and other environments.



AQUATIC AND NATURAL RESOURCES SERVICES

Fisheries and Benthic Survey Equipment

(freshwater and marine studies)

Electrofishing units (benthic grids, backpack, pram- and boat-mounted), seines, trawls, gill nets, and ichthyoplankton tow nets, impingement and entrainment systems (316b), radio and sonic fish tags (fish tracking and passage), and Surber and PIBS samplers.

Water Quality Survey Equipment

(dye dispersion studies, plume tracking surveys, water quality monitoring for dredge and NPDES discharge studies, fisheries assessments)

Normandeau has a large assortment of composite samplers (ISCO/SIGMA), Kemmerer water samplers, electric, pneumatic, and peristaltic pumps, flow meters (open and closed channel), flurometers, dissolved oxygen, pH, conductivity, and temperature meters, some with in-situ capabilities.

Survey Vessels

Normandeau's sampling and survey vessels include a 37-foot Pannaway, 42-foot Woody I, two 25-foot Privateers, and a 20-foot Maritime, all fully outfitted for biological research. These boats are equipped with DGPS, LORAN C, VHF radios, electronic depth finders, and deployment booms, davits, and winches. Normandeau's fleet also includes 21-foot and 19-foot work boats, four electrofishing boats, two vibracoring/work barges, as well as inflatable boats, canoes and numerous smaller work boats.



TERRESTRIAL ECOLOGICAL SERVICES

Normandeau Associates, Inc. is one of the largest science-based environmental consulting firms in the United States serving both the private and public sectors. Founded in 1970, we are a trusted leader in delivering sound, innovative scientific solutions to a global clientele.

Normandeau's team of experienced field scientists, analysts, researchers, and permitting and compliance specialists deliver technically credible information to help achieve project goals, meet regulatory requirements, and promote sustainable economic development while protecting and restoring natural resources. Headquartered in Bedford, New Hampshire Normandeau has offices nationwide.

For more information on how we can help with your next project, contact Senior Principal Scientist Lee Carbonneau at 603-637-1150 or by email at lcarbonneau@normandeau.com

www.normandeau.com

Normandeau Associates, Inc. provides a full range of terrestrial ecological services to meet the needs of industry and government in assessing the environmental impact of land use change. Our understanding of complex regulatory processes and our experience preparing accurate information guides project decision making and for meeting regulatory requirements.

Normandeau provides agency consultation and scoping of sensitive issues, forming the basis for work plans and surveys, and ensuring that data collection is conducted adequately to address project licensing and permitting requirements.

Targeted Services

- Aerial Photointerpretation and 3D, GIS mapping
- Botanical Surveys
- Bird and Bat Surveys
- Wildlife Studies
- Habitat Evaluation Procedure (HEP) Analysis
- Endangered Species and Critical Habitats
- Habitat Restoration and Preservation
- Mitigation Planning and Outreach

Using state-of-the-art technology to improve accuracy and efficiency, our professional staff of botanical, wetland and wildlife specialists, soil scientists, and hydrologists bring many years of project experience across the US, Alaska, the Canadian high arctic and in the tropics.

Our senior staff members have published books and professional journal articles on plant taxonomy and ecology, wildlife ecology and impact assessment.

Our experts participate in panels and as speakers at numerous workshops and conferences related to environmental impact assessment.



NORMANDEAU'S TERRESTRIAL ECOLOGICAL EXPERIENCE

CLIENTS

Town of Derry, NH
Town of Londonderry, NH
NH Department of
Transportation

SERVICES PROVIDED

Field delineation of
jurisdictional wetlands

Habitat Characterization

Rare Plant Surveys

Acoustic Bat Surveys

Update to DEIS narrative

Update to Wetlands Mapping

PROJECT HIGHLIGHT

Preparation of a critical demonstration of how additional chloride loading associated with this and other related or reasonably foreseeable projects can comply with the Beaver Brook TMDL.

Interstate 93, Exit 4A Derry and Londonderry, NH

The towns of Derry and Londonderry sought to reduce congestion and improve safety along NH Route 102, from I-93 easterly through Downtown Derry and to promote economic vitality in the Derry/Londonderry area.

The subject of a 2007 Draft Environmental Impact Statement (DEIS), the project required an update of environmental documentation to reflect ten years of land use and regulatory changes. A Supplemental Draft Environmental Impact Statement (SDEIS) was prepared to reflect these changes.

Normandeau provided support for chloride/total maximum daily load (TMDL) studies, water resources, wetlands and vernal pools, botanical, wildlife, threatened/endangered species, and hazardous materials. A chloride compliance study was undertaken early in the environmental review process to demonstrate that the Preferred Alternative could be accommodated within the chloride budget established by the TMDL for the Beaver Brook watershed.

Wetland delineations from previous iterations of the project were updated to reflect current conditions, and wildlife habitat was evaluated using NH Fish and Game's Wildlife Action Plan, aerial photographs, and field evaluation to incorporate recent landscape changes. Stream crossings were evaluated in light of NH Department of Environmental Services' (NHDES) stream crossing rules that were not in effect during previous studies.

Normandeau conducted an acoustic survey for Northern Long-Eared Bats using our patented and USFWS-approved ReBAT® data collection, processing and analysis system and were able to deploy equipment and collect data in an efficient manner as the project demanded. Rare plant surveys were undertaken by qualified botanists.

Normandeau's experienced GIS team prepared updated maps and graphics to accompany technical reports and the SEIS.



ATTACHMENT C: KEY STAFF RESUMES

JOEL M. DETTY, P.H.

Water Resources Scientist

Mr. Detty is a senior water resources scientist and project manager at Normandeau Associates with seventeen years of professional experience specializing in surface water quality monitoring and assessment programs. In addition to completing comprehensive field studies to document water quality conditions, Mr. Detty specializes in evaluating project effects subject to state and federal laws and permitting/ licensing requirements, particularly under state Water Quality Certification programs and the federal National Pollutant Discharge Elimination System program. As a senior scientist, Mr. Detty helps Normandeau clients negotiate often complex regulatory requirements to ensure compliance is met and planned actions can proceed. Mr. Detty has led numerous field investigations and provided analytical support for clients that include power generators, transportation departments, public works operators, municipalities, and commercial/industrial water users. Projects include evaluations of hydropower operations effects on water quality; industrial thermal/chemical discharge effects on receiving waters; mixing zone determination and verification; as well as assisting agencies, municipalities, and developers with stormwater management.

REPRESENTATIVE PROJECT EXPERIENCE

Mine Falls Hydroelectric Project, City of Nashua, Nashua, NH (2019 – Present). Environmental studies in support of FERC hydropower relicensing for a project on the Nashua River. Mr. Detty developed a water quality Sampling and Analysis Plan and authored a study report and draft license application section addressing impacts of hydroelectric operations on water quality. Project Scientist.

Manchester-Boston Regional Airport Environmental Services On-Call Contract (2018-Present). Under Normandeau's "On-Call" Environmental Services contract, Mr. Detty has assisted the Airport with diverse environmental assignments for state and federal permit compliance. His current assignments include all phases of the Airport's NPDES Multi Sector General Permit (MSGP). He leads the required sampling of impaired waters and for deicing area impacts and record keeping and annual reporting to meet the USEPA requirements for the Airport. He also conducts the federally-required annual environmental training courses for airport employees and tenants (airlines, fuel purveyors and others) on USEPA MSGP permit requirements and environmental protection best management practices. Mr. Detty is also currently performing an assessment of Airport tenants' stormwater management practices, record keeping and other procedures to ensure that the Airport and its tenants are fully compliant with the USEPA's MSGP requirements. Project Scientist.

Town of Plaistow MS4 Stormwater Services, Town of Plaistow, NH (2014-Present). Normandeau assists the Town of Plaistow with their MS4 stormwater program and permit compliance activities. This includes development of Notice of Intent applications, developing and coordinating annual compliance activities under the permit, leading the Plaistow Stormwater Task Force, preparing and updating the Plaistow Stormwater Management Plan, and preparing annual MS4 reports. Tasks include developing an illicit discharge detection

EDUCATION

M.S., Environmental Science and Policy,
Concentration in Hydrology, Plymouth
State University, Plymouth, NH

B.S., Atmospheric Science, University at
Albany, State University of New York,
Albany, NY, Cum Laude. Minor in
mathematics

PROFESSIONAL EXPERIENCE

2008-Present Normandeau Associates

2008 New Hampshire Department
of Environmental Services,
Drinking Water and
Groundwater Bureau,
Concord, NH

2006-2008 Plymouth State University,
Center for the Environment,
Plymouth, NH,

2003-2006 U.S. Geological Survey, Water
Resources Division, Reston, VA

PROFESSIONAL REGISTRATIONS

- Registered Professional Hydrologist (AIH
Cert. No. 22-H-1706)

PROFESSIONAL AFFILIATIONS

- American Institute of Hydrology
- American Geophysical Union
- American Water Resources Association

and elimination program, catchment investigation program, dry weather outfall inspections, and stormwater system mapping. Normandeau assists the town with compliance activities including authoring written procedures for the IDDE program, implementation of non-structural best management practices for stormwater, coordinating public outreach and public participation efforts, assisting the Town Conservation Commission, and documenting Town compliance activities. Project Manager.

Nonpoint Source Assessment and Management Plan Wampanoag Tribe- Martha's Vineyard (2018-2019).

Normandeau developed a nonpoint source pollution (NPS) assessment report and management plan for the Wampanoag Tribe of Gay Head (Aquinnah) that met the requirements of the USEPA under Section 319 of the Clean Water Act. Existing water quality was reviewed and significant NPS sources were identified in the NPS Assessment Report. A companion management plan was then developed to establish a NPS program for addressing NPS pollution on tribal lands in accordance with USEPA requirements. For the Tribe, addressing pollution loadings was critical in order to improve water quality in a saltwater embayment system with stressed water quality that is a significant tribal and island resource. The Section 319 assessment and plan were the approved by the USEPA which enables the Tribe to apply for federal grants to mitigate identified water quality problems. Project Scientist.

Upper Blackstone River Periphyton Study, CDM Smith (Upper Blackstone Water Pollution Abatement District), Worcester, MA (2012-2019). Periphyton and macroinvertebrate surveys in the upper Blackstone River, upstream and downstream of a large wastewater treatment plant discharge. The study included semi-quantitative field evaluations and laboratory identification and quantification of algae and macroinvertebrate species. Project Manager.

Confidential Client, Edgartown, MA (2017). Water quality and aquatic vegetation survey on a non-tidal great pond on Martha's Vineyard to determine impairment status. Mr. Detty was responsible for leading a water quality survey in the pond and coauthoring a final report. Project scientist.

Blue Hills Covered Storage Project Water Quality Monitoring, Hazen and Sawyer (for MWRA), Quincy, MA (2015-2016). Water quality monitoring and sampling at former Blue Hill Reservoir: Sampling targets include various water quality parameters at multiple depths, core sampling for phytoplankton and bottom to surface net tows for zooplankton. Lead project Scientist.

Upper Merrimack River Water Quality Study, CDM, Inc. (2008-2016). Assisted with a field investigation in support of the development of a comprehensive watershed management plan for the Merrimack River Watershed. Installed and maintained equipment at multiple sites for continuous monitoring of dissolved oxygen, temperature, conductivity, and pH. Performed data analysis, QA/QC, and reported results. Participated in single day synoptic sampling efforts to characterize water quality under low flow conditions. Performed stream channel cross section profiles utilizing GNSS technology to characterize channel geometry. Project Scientist.

Whittier Bridge/I-95 Improvement Project, Massachusetts Department of Transportation, Amesbury, MA (2009-2015). Bridge replacement project over the Merrimack River and I-95 highway widening project named as one of the FHWA's 14 High Priority Infrastructure Projects nationwide to be expedited through the Federal permitting and review process. Assisted with long-term hydrologic monitoring pre- and post-construction at a compensatory mitigation site. Project Scientist.

Swansea Dye Study, Town of Swansea, MA (2014-2015). Designed and conducted a dye study within a wastewater discharge from a municipal water supply desalination plant using Rhodamine WT dye. Dye concentrations were measured in-situ throughout the dye plume and dye concentration contour plots were prepared that provided input for formal plume modeling by another consultant. Project Scientist.

SEAN P. STIMMELL

Fisheries Biologist

Mr. Stimmell is a biologist with over 20 years of experience encompassing a broad spectrum of aquatic studies including diadromous and resident fish species. With Normandeau Associates he has been involved in aquatic studies associated with FERC relicensing, Clean Water Act 316 (a) and (b), hydroelectric dam diadromous fish passage, instream flow and habitat assessments and fish community assessments. Mr. Stimmell is proficient in many aspects of field biology and has experience including radio telemetry, RFID technology, electrofishing and many sampling gears used in field collection. He worked as the field supervisor for 316(b) studies at the DC Cook nuclear plant on Lake Michigan and has worked or led crews on fish community and habitat assessments. He has experience managing projects and has written and assisted in the completion of technical reports, desktop analyses and analyzed scales and otoliths to determine ages of several species. Mr. Stimmell earned his MS at Northern Michigan University studying migratory timing of brook trout in Lake Superior tributaries using RFID technology in 2006.

EDUCATION

M.S., Biology, Northern Michigan University
B.S., Wildlife Management, University of New Hampshire

PROFESSIONAL EXPERIENCE

2005-Present	Normandeau Associates
1999-2002	Normandeau Associates
1997-1999	New Hampshire Fish and Game Department

REPRESENTATIVE PROJECT EXPERIENCE

Upstream and Downstream Fish Passage Studies, Public Service Company of New Hampshire d/b/a Eversource, Central Rivers Power, Merrimack River, NH (2008-2022). Mr. Stimmell performed diadromous fish passage studies including: adult eel radio telemetry study, juvenile clupeid downstream passage telemetry, and juvenile eel upstream passage studies. Projects include Eastman Falls, Garvins Falls, Hooksett, Amoskeag, Lowell and Lawrence. Responsibilities include on site field crew and study supervision as well as data analysis and reporting. Fisheries Biologist (Field Supervisor).

NPDES Permit Renewal Fisheries Studies, Public Service Company of New Hampshire, NH (2008-2012,2022). Mr. Stimmell worked with a Normandeau team to complete a fisheries community study, a Yellow Perch/White Sucker fecundity study, and a White Sucker ichthyoplankton study in the Merrimack River. Work included use of boat electrofishing, sampling for larval White Sucker in river with ichthyoplankton nets, lab work up of fish and assisting in the analysis and reporting. Fisheries Biologist.

Collection of Fish and Water Samples for PFAS Analyses for Massachusetts Department of Environmental Protection, Eastern Research Group (ERG), MA (2022). Mr. Stimmell worked as the project manager working with ERG to select water bodies for sampling, ensure field teams were appropriately trained for sample collection, and coordinating the field effort, laboratory processing, sample shipping, and data transfer on a weekly basis.

PFAS and Cyanobacteria Sample Collection for Massachusetts Department of Public Health, Eastern Research Group, MA (2022). Mr. Stimmell worked as the project manager working with ERG to select water bodies for sampling, ensure field teams were appropriately trained for sample collection, and coordinating the field effort, laboratory processing, sample shipping, and data transfer on a weekly basis. He also acted as Project Manager with ERG on an on-call basis July through September 2022 to train, prepare, and assign staff to sample selected water bodies for cyanobacteria.

Holyoke Dam Fish Passage Monitoring, Holyoke Gas & Electric, Connecticut River (2019-2022). Mr. Stimmell has acted as project manager for upstream fish passage monitoring at Holyoke Dam that includes; fish lift operations and upstream eel monitoring. Responsibilities include: fish passage staff oversight, data analysis and reporting, agency meetings.

Lowell Hydroelectric Project Relicensing, Central Rivers Power, Merrimack River, MA (2019-2020). Mr. Stimmell worked as a field supervisor for multiple habitat and radio-telemetry studies associated with the relicensing of the Lowell Hydroelectric Project, Lowell, MA. Responsibilities have included project organization, field crew management and oversight, and reporting.

Briar Hydro Associates Relicensing, Contoocook River, NH (2021). Mr. Stimmell worked as a field supervisor and task manager for multiple habitat and radio-telemetry studies associated with the relicensing of three hydroelectric projects on the lower Contoocook River, Penacook, NH. Responsibilities have included project organization, field crew management and oversight, and reporting.

Mine Falls Hydroelectric Project, City of Nashua New Hampshire, Nashua River, NH (2020). Mr. Stimmell has assisted in the relicensing work associated with the Mine Falls Hydroelectric Station on the Nashua River, Nashua NH. Projects radio-telemetry studies evaluating upstream passage of river herring and American Shad, bypass habitat assessments, water quality, and the assembling portions of Exhibit E for the Draft License Application (DLA).

Fisheries Studies related to FERC Relicensing, TransCanada Connecticut River, NH/VT (2013-2016). Mr. Stimmell was part of the Normandeau team working on FERC relicensing effort at the Wilder, Bellows Falls, and Vernon Projects, along the Connecticut River (NH-VT). Responsibilities include field data collection, data analysis and reporting for aquatic resources studies. Fisheries Biologist.

Fish Tissue Mercury Initiative, Great Lakes Hydro America, LLC, Millinocket, ME (2015). Mr. Stimmell worked in remote locations in the West Branch of the Penobscot River watershed collecting and processing fish for mercury and age analysis. The study provided updates on human health risks from consumption of mercury-contaminated fish and wildlife in Project waters, determined ecological health risks to top trophic level wildlife predators of Project area fish (*e.g.*, eagles, loons, and otters), and examined trends in mercury levels in biota over time to see if reduced drawdowns affect mercury accumulation levels. Field Supervisor, Fisheries Biologist.

Downstream Passage of Salmon Smolts using Radio Telemetry, Brookfield Renewable Energy, Penobscot, Union, Kennebec and Androscoggin Rivers, ME (2012-2016). Mr. Stimmell worked on projects to evaluate federally endangered Atlantic salmon smolt passage effectiveness and determination of whole station survival rates at 11 hydroelectric projects on the Penobscot (2016), Union (2016), Kennebec (2012-2015) and Androscoggin Rivers (2013-2015), Maine. Responsibilities include on-site field supervision of working field crews, set-up, equipment maintenance and trouble shooting and surgical implantation of radio tags into 300-400 Atlantic salmon smolts annually. Field Supervisor, Fisheries Biologist.

Radio Telemetry Study, Brookfield Renewable Energy, Kennebec, ME (2015). Mr. Stimmell was part of the Normandeau team working to evaluate the approach of American Shad to the Lockwood Dam fish lift on the Kennebec, Maine. Responsibilities include on-site field supervision during portions of the study and gastric tagging of American Shad. Fisheries Biologist (Field Supervisor).

Downstream Passage of Juvenile Clupeids using RFID, NextEra, Saco, ME (2010, 2012). Mr. Stimmell used stationary RFID (PIT tag) stations to determine juvenile clupeid bypass use through Cataract Dam, Saco ME. using stationary RFID systems. Responsibilities included the study design, set up, field sampling and analysis of data collected. Fisheries Biologist (Project Supervisor).

Black Bass Survey, NextEra, Lake Arrowhead, ME (2009). Mr. Stimmell performed shoreline habitat evaluation and mapping, designed and conducted field a sampling effort for black bass (electrofishing), conducted scale aging, data analysis and reporting. Fisheries Biologist (Project Supervisor).

Downstream Fish Passage Evaluation using Radio Telemetry, Consolidated Hydro Inc. (now ENEL), Lowell, MA (2002). Mr. Stimmell was part of a Normandeau team working to evaluate downstream passage route selection of Atlantic Salmon smolts in the Merrimack River, MA. Fisheries Biologist.

BENJAMIN P GRIFFITH, NHCWS

Senior Wetland Scientist/Wildlife Biologist

Mr. Griffith is a Certified Wetland Scientist and wildlife biologist with fourteen years of professional experience conducting various natural resource studies. He has a diverse set of wetlands and wildlife skills including wetland delineations, vertebrate and invertebrate fauna surveys, and habitat assessments. He has particular expertise in avian surveys coupled with extensive knowledge of species identification and life histories of North American birds. He also is an experienced tracker, certified by the CyberTracker organization. In addition to his field skills, he has experience producing technical reports, permit applications, and GIS-based graphics.

REPRESENTATIVE PROJECT EXPERIENCE

Ripogenus Relicensing, Piscataquis County, ME (2023-Present). Normandeau is part of a team assessing potential impacts to natural resources as part of the Ripogenus Dam along the West Branch Penobscot River in Piscataquis County, ME. As part of this assessment, the Maine Department of Inland Fisheries and Wildlife requested a study evaluating Wood Turtle usage in areas affected by project operations. Mr. Griffith is identifying habitat for wood turtles, searching, capturing, and applying telemetry tags to wood turtles to located nesting and overwintering sites. Wildlife Biologist.

Black Nook Restoration, Hatch, Cambridge, MA (2019-2020). Normandeau was contracted by Hatch, a landscape architecture firm, to complete environmental services related to the Black's Nook In-Pond Restoration Project under the Cambridge Watershed and Fresh Pond Reservation contract for Landscape and Environmental Restoration Design Services. Normandeau designed and conducted studies to evaluate conditions on the pond and inform restoration. Mr. Griffith conducted breeding bird, wetland, and herptile studies as part of this effort as well as attending internal and public meetings to inform design. Wildlife Biologist and Project Manager.

Wetland Assessment, Integral, Inc., North Providence, RI (2018-Present). Normandeau has been tasked with conducting natural resource investigations in association with the remediation of the Centredale Manor superfund site in Providence, RI. Mr. Griffith is conducting delineations and functional assessment of wetlands, vegetation surveys including mapping of invasive species, and hydrology surveys on site to document conditions prior to remediation. Wetland Scientist.

FERC relicensing of Wilder, Bellows Falls and Vernon hydroelectric projects, TransCanada, Westmoreland, NH (2014-2017). Multiple natural resource field studies were required to support FERC relicensing of TransCanada dams on the Connecticut River, including a study of riverine odonates along the route. Mr. Griffith was responsible for development of the workplan for this study, permit acquisition, coordinating and conducting field surveys for riverine odonates, and writing summary reports. Wildlife Biologist.

R193/A126/H141 Line (RASH) Structure Replacement Project, Eversource Energy (2023-Present). Normandeau was contracted to support Eversource's replacement of 76 structures on the existing R193, A126, and H141 Lines in Fremont, Exeter and Brentwood, New Hampshire. Normandeau has completed natural resource evaluations, mapping, successful NHDES Alteration of Terrain permitting, NHDES Shoreland PBN

EDUCATION

B.A, Biology, University of Rochester,
Rochester, NY, Cum Laude

PROFESSIONAL EXPERIENCE

2014-Present	Normandeau Associates
2012-2013	New Earth Ecological Consulting
2011	Normandeau Associates, Inc.
2009-2011	University of Vermont, Research and Teaching Assistantship
2008-2009	Smithsonian Institution
2008	United States Geological Survey

PROFESSIONAL CERTIFICATIONS

- NH Certified Wetland Scientist #298
- Cybertracker Level I Track and Sign

PROFESSIONAL AFFILIATIONS

- NH Association of Natural Resource Scientists

permitting, NHDES Wetland SPN permitting, and USACE Section 404 SV permitting along with local permits in Brentwood and Exeter. Mr. Griffith led the field effort to field verify wetland boundaries and complete vernal pool surveys along part of Eversource's R193, A126, and H141 lines, which are scheduled for replacement. Additionally, he helped identify suitable hibernating habitat for rare turtles in impacted waterbodies based on habitat characteristics and species life histories. Wetland Scientist.

Wetland Services, Terracon, eastern Massachusetts/New Hampshire (2021-Present). Normandeau was tasked by Terracon with providing wetland delineation services at six sites in eastern Massachusetts and one site in southeastern New Hampshire. Mr. Griffith conducted wetland delineations and advised on wetlands protection act jurisdiction over wetland resource areas at each of the seven sites. Wetland Scientist and Project Manager.

Portsmouth Sewer Permitting, NH. Woodard and Curran (2022-2023). Woodard and Curran requested Normandeau's assistance with permitting remediation to Portsmouth's existing sewer system. Mr. Griffith conducted natural resource surveys in preparation of permit submissions, including wetland delineations and conducted rare threatened and endangered species surveys as requested by New Hampshire Natural Heritage Bureau. Mr. Griffith documented four new occurrences of three listed species in the project area. Wetland Scientist.

Seacoast Reliability Project, Eversource Energy, Seacoast Region, NH (2013-2022). Normandeau provided siting, permitting and environmental monitoring services to Eversource for a 115kw, 13-mile transmission project. The project followed along existing right-of-way in 4 towns, and included a 1-mile submarine crossing of Great Bay via jet plow. Normandeau assessed potential impacts to all freshwater and marine natural resources (wetlands, streams, vernal pools, fish, benthic macroinvertebrates, shellfish, eelgrass, wildlife, rare species, and water quality) and led the environmental component for stakeholder outreach. Normandeau provided daily oversight for environmental and SWPPP components for the terrestrial construction. Installation of the submarine cable required 36 days of water quality monitoring, up to 5 boats per day, and collection of over 25,000 water samples. Mr. Griffith conducted wetland delineations, provided terrestrial and marine construction oversight, and conducted post-restoration vegetation monitoring. Wetland Scientist

Biodiversity Assessments. Veolia Energy North America Holdings, Inc., CA, TX, LA, and WI (2017-Present). Normandeau is conducting biodiversity assessments for Veolia operating sites throughout the United States. Mr. Griffith visited and developed species lists at ten sites in California, Massachusetts, Louisiana, Texas, Georgia, Arizona, and Wisconsin, well as writing reports, and recommending opportunities for increasing biodiversity. Wildlife Biologist.

Wetland Monitoring, Charter Construction, Boston, MA (2020-2023). The US Army Corps of Engineers has started Phase II of restoration of the Muddy River in Boston and Brookline, MA. Objectives of this project are to reduce flood damage, improve water quality and to control invasive species. Normandeau was contracted to provide wetland specialist services for restoration on the Muddy River Reservation in Boston and Brookline, MA. Wetland Scientist and Project Manager.

SPECIAL TRAINING

- 40-Hour OSHA Hazardous Waste and Emergency Response
- First Aid and CPR Certification

JAMIE L. O'BRIEN, NH CWS, AWB®

Senior Wetland Scientist/Wildlife Biologist

Ms. O'Brien is a certified wetland scientist and associate wildlife biologist® with over ten years of professional experience in wildlife research, conservation, and natural resource management and permitting throughout New England. Her projects have emphasized protecting and managing threatened and endangered species, assessing environmental impacts, regulating and managing natural resources and wildlife, and ensuring Federal Endangered Species Act compliance. Ms. O'Brien is adept at using visual and auditory clues to identify species. In addition to her field skills, Ms. O'Brien possesses a strong foundation in project planning and implementation, project management and organization, and data analysis and quality control. She is a GIS Analyst and SAS Programmer, competent in working with and running analysis on large datasets. She is skilled at quality control procedures that involve the integrity and quality of data and the generation of final data deliverables.

REPRESENTATIVE PROJECT EXPERIENCE

Biodiversity Assessments. Veolia Energy North America Holdings, Inc., North America (2016-present). Normandeau is designing biodiversity assessments for numerous Veolia operating sites throughout the United States. Ms. O'Brien is conducting desktop analysis, writing reports, generating GIS figures, and recommending opportunities for increasing biodiversity. Additionally, as the project manager she coordinates field assessments and logistics and has performed field assessments when needed. Project Manager.

MassDOT Statewide Northern Long-eared Bat Surveys, Parsons Brinkerhoff, MA (2016-present). In support of over 70 MassDOT projects, Normandeau has conducted acoustic surveys every year since 2016 for the state and federally listed northern long-eared bat. Ms. O'Brien is assisting with Northern long-eared bat surveys, which involve deployment and retrieval of acoustic detectors, weather recording, habitat characterization, and reporting. She is also coordinating field efforts and project logistics as well as report writing and deliverables. Project Manager.

New Boston Black Racer and Hibernaculum Surveys, New Boston, NH (2023). Ms. O'Brien was one of two qualified biologists to conduct surveys for northern black racers and their hibernacula as a requirement for an alteration of terrain permit for the property. Project manager.

Carlisle Wetland Permitting, Carlisle, MA (2023). Ms. O'Brien conducted vernal pools surveys and a wildlife assessment as part of permitting conditions for a new development project. Biologist.

NHDOT Bridge Preservation of Manchester and Hooksett Bridges. HNTB Corporation. Manchester, NH (2019-2023). This Project included preliminary design, public involvement process, final design, and associated environmental and cultural services for the bridge preservation of five bridges in Manchester and Hooksett, NH. Environmental efforts were needed to prepare and complete all appropriate environmental documentation including cultural resource investigations and permitting, to satisfy NEPA and state requirements. Ms. O'Brien

EDUCATION

M.S.E.S., Applied Ecology, Indiana University, Bloomington

M.P.A., Environmental Policy and Natural Resource Management, Indiana University, Bloomington

B.A., (cum laude) Biology, Saint Anselm College

PROFESSIONAL EXPERIENCE

2013-Present	Normandeau Associates
2011-2013	USFWS, Umbagog NWR
2012	Ducks Unlimited, Inc.
	U.S. Great Lakes Region
2009-2011	Office of Sustainability, Indiana University, Bloomington
Fall 2011	USFWS, Big Oaks NWR
Summer 2008	Office of Sustainability, Dickinson College

PROFESSIONAL CERTIFICATIONS

- NH Certified Wetland Scientist #329
- Associate Wildlife Biologist®
- Maine DIFW Credentialed Vernal Pool Observer
- NH Qualified Biologist

PROFESSIONAL AFFILIATIONS

- New Hampshire Audubon
- New Hampshire Association of
- Natural Resource Scientists
- The Wildlife Society

performed wetland delineations, invasive and rare plant species surveys, GIS mapping, bridge surveys for roosting bats and CE documentation for both the northbound and southbound portions of this project. Biologist.

Blacks Nook In-lake Restoration Project, City of Cambridge Water Department, Cambridge, MA (2020).

Once a cove connected to Fresh Pond, Black's Nook is now a separate, shallow two acre pond with a heavily forested wetland border. Over the years, work has been done to minimize inflow of golf-course runoff and improve ecosystem functionality in the directly surrounding watershed. Normandeau was contracted to execute an existing conditions assessment, and develop and execute an in-lake restoration plan that slows cultural eutrophication, keeps Black's Nook an open water body, and ultimately supports downgrading its Category 5 status as an impaired waterbody on the State's 303(d) list. Ms. O'Brien conducted acoustic surveys for bats and a nesting bird survey. Biologist.

Landfill Cap Modifications, City of Plaistow, Plaistow, NH (2020). The City of Plaistow is planning to add additional fill, regrade and recap the existing closed, capped Town of Plaistow landfill and improve the existing methane gas collection system for the landfill. Ms. O'Brien conducted a wildlife assessment as part of the AOT permit application requirement. Biologist.

Job's Neck Farm Aquatic Invasive Species, Confidential Client, Edgartown, MA (2018). Ms. O'Brien assisted with permitting for aquatic invasive plant removal by diver assisted suction harvesting in a freshwater pond in Edgartown, MA. Additionally, she was part of the follow-up assessment to determine success of removal and document plant species three months post treatment. Biologist.

Linking Landscapes for Massachusetts Wildlife Roadkill Mortality Study, MA (2017). The Linking Landscapes data is a collaborative effort between Massachusetts Department of Transportation and the Massachusetts Division of Fisheries and Wildlife – Natural Heritage and Endangered Species Program to reduce wildlife-vehicle collisions and improve public safety, restore and protect habitats, and incorporate conservation strategies into transportation projects. Normandeau was contracted to analyze citizen science data collected over the past ten years and compare it to other available wildlife mortality data to assess what areas should be targeted for conservation projects. Ms. O'Brien performed data analysis on all mortality data collected and co-authored the final report. Biologist.

Kinder Morgan, Northeast Energy Direct Pipeline, PA, NY, MA, CT, NH (2014-2016). This natural gas pipeline project runs from the Marcellus Shale fields across Pennsylvania, New York, Massachusetts and New Hampshire. Ms. O'Brien was involved with various aspects of this project, including wetlands and mitigation in a fatal flaw analysis, map revisions in ArcGIS, wetland compensatory mitigation research and ARM fund numbers. Ms. O'Brien also provided GPS support for delineated wetland boundaries and participating in natural resource surveys including vernal pools and rare species surveys for turtles, snakes, Northern Harriers, and bat hibernacula. Biologist.

Integrated Waterbird Management and Monitoring Program, Ducks Unlimited, NY (2012-2013). Ms. O'Brien evaluated protected waterbird areas by conducting waterbird and vegetation surveys on over 30 wetland impoundment units in the Montezuma Wetlands Complex. Waterbird surveys involved coordination with federal, state and private stakeholders, and identification of all migrant and resident waterfowl, shorebird, wading bird, and secretive marsh birds. Waterbird surveys included driving or walking perimeter surveys as well as periodic flush count surveys on select management units. Vegetation surveys involved both rapid, visual assessment surveys and intensive, plot-based surveys. Biological Contractor.

FrogWatch USA, U.S. Fish & Wildlife Service, Montezuma National Wildlife Refuge, NY (2012). A new volunteer effort at Montezuma National Wildlife Refuge, Ms. O'Brien participated in auditory surveys for frogs and toads by acting as a main observer at site locations and by helping other volunteers with auditory identification techniques. Volunteer.

ATTACHMENT D: SELECTED PROJECT DESCRIPTIONS

CLIENT

City of Cambridge, MA

PROJECT HIGHLIGHTS

Evaluated the benthic community and developed a baseline for wildlife including fish, herptile, birds and bats that was used to inform design alternatives and permitting.

SERVICES PROVIDED

- Regulatory compliance
- Wetland delineation
- Benthos sampling
- Fish and Wildlife surveys
- Design impacts and analysis input

Normandeau Associates, Inc. (Normandeau) was contracted by Hatch, a landscape architecture firm, to complete environmental services related to the Black's Nook In-Pond Restoration Project under the Cambridge Watershed and Fresh Pond Reservation contract for Landscape and Environmental Restoration Design Services.



Black's Nook Pond, once a cove connected to Fresh Pond, is a shallow two acre pond with a heavily forested wetland border. Over the years, work has been done to minimize inflow of golf-course runoff and improve ecosystem functionality in the directly surrounding watershed. Despite these efforts, Black's Nook remains incredibly productive and supports a large population of aquatic plants resulting in a listing of Category 5 status as an impaired waterbody on the State's 303(d) list.

Normandeau's specific goals under this task were to verify and understand the current baseline conditions of the natural environment at Black's Nook. Pond restoration scenarios could be varied, and understanding the potential environmental impact is essential for adhering to the management plan, responding to stakeholder and citizen questions and for obtaining permits. Completing these tasks contributed to achieving a broader, deeper and more current understanding of the following site characteristics: benthos sample analysis; fish inventory and fish use of Black's Nook as a habitat; amphibian and reptile breeding and foraging use of Black's Nook; use of Black's Nook as a breeding bird habitat and passive observations of bird use for feeding; reliance on Black's Nook for feeding bats using acoustic detection; regulatory boundaries including wetlands, water bodies, streams, vernal pools, and resource area buffers; contribution to design alternatives so restoration was designed with a full understanding of the current habitat value and selected final design enhances habitat for the future.

CLIENT

US Army Corps of Engineers,
New England District;
Boston Parks and Recreation
Department

PROJECT HIGHLIGHTS

Successful coordination and completion of construction-related tasks on time, on budget, and with no safety incidents.

SERVICES PROVIDED

- Natural resource planning and monitoring
- Water quality monitoring
- Wetlands restoration and construction oversight
- Post-construction monitoring
- Fisheries assessment, relocation, and training
- Turtle Monitoring and relocation training

Normandeau Associates, Inc. ("Normandeau") served as a subcontractor to Charter Environmental Inc. ("Charter") to provide services associated with the Muddy River Flood Damage Reduction & Environmental Restoration project – Phase 1 – from 2012-2016 and Phase 2 – from 2019 to present.



**During construction -
in-water cofferdam allows fish bypass.**

During the pre-construction period, Normandeau participated in pre-construction meetings, and developed portions of the Environmental Protection Plan ("EPP") in accordance with the project specifications issued by the US Army Corps of Engineers. As part of the EPP, Normandeau assisted with the preparation of the Stormwater Pollution Prevention Plan ("SWPPP"), prepared a written plan for protection of fish and turtles, and provided a Surface Water and Wastewater Quality Monitoring Plan.

During the construction period, Normandeau implemented services prescribed in those sections of the EPP that were developed in the pre-construction phase. These included general terrestrial and

aquatic ecological expertise, oversight of wetland construction and habitat restoration activities, surface water sampling, erosion and sedimentation control oversight, and relevant GIS support.

A key role for Normandeau ecologists and fisheries biologists was to assist in the preparation for and lead the efforts to protect fisheries resources and turtles throughout the project period. Normandeau fish biologists relocated fish from Upper Fens Pond during initial dewatering, capturing stranded fish and relocating them upstream to avoid downstream sedimentation. Additional fish relocation efforts were conducted via electrofishing and dip nets. Normandeau also provided guidance to Charter and interacted with the USACE to minimize impacts to the blueback herring run, and provided guidance materials and trained three designated Charter representatives to relocate fish as needed during subsequent project activities. Normandeau staff also provided training and guidance materials to Charter personnel regarding how to humanely capture and remove turtles from the construction zone, as well as how to differentiate native species (eastern painted, snapping, and musk) designated for relocation from the non-native red eared slider, designated for transport to the Massachusetts Department of Wildlife headquarters.

In addition to these fish and turtle relocation services, Normandeau fisheries biologists assisted during fishkill incidents in May 2013 and May 2014, that involved blueback herring. Normandeau fisheries

biologists were dispatched to the site to assess the site conditions and were able to determine that the kill resulted from weather and other factors not associated with the Project work.



During construction and post-completion aerial photographs of the Project.

Credit: Charter Construction Company, Prime Project Contractor

After construction was completed,

Normandeau performed post-construction monitoring and reporting with respect to the success of the wetland mitigation plantings, as well as post-construction wildlife monitoring and reporting.

Phase 2 of the project consisted of dredging 1 to 8 feet of sediment from the bottom of the river to construct the Flood Risk Management channel, stabilizing the material for transport, and trucking the material for disposal to the landfills. The work on the project includes: 1) Excavate the river in the Back Bay Fens area of the Muddy River; 2) Eradicate phragmites in the Back Bay Fens and Riverway areas where indicated to achieve flood damage reduction; 3) restore wetland vegetation in excavated areas by planting appropriate emergent wetland plants; 4) restore riparian vegetation in upland areas where phragmites are eradicated by planting trees and shrubs; 5) restore vegetation and other landscape features disturbed at staging areas and within the limit of work; install boulders and habitat logs for fish, turtles, and amphibians. Normandeau acted as environmental monitors during all phases of construction for Phase 2.

CLIENT

Vineyard Golf Club

PROJECT HIGHLIGHTS

Preconsultation with MEPA and MADFW enabled major reconstruction of facilities to be advanced without a formal MEPA submission involving public review and comment.

SERVICES PROVIDED

- Regulatory Strategy
- Invasive species monitoring and reporting
- Vegetation management plan
- Compliance monitoring

Normandeau assisted the Vineyard Golf Club in the development of MEPA strategy and obtained necessary approvals through the Massachusetts Division of Fisheries and Wildlife (MADFW), Natural Heritage and Endangered Species Program (NHESP) to re-route several golf holes partially located in mapped rare species habitat, and will continue to provide services relative to compliance with various permit conditions and deed restrictions as requested.

Services in 2011-2012 included preparation of a MEPA Advisory Opinion, successfully arguing that neither a Notice of Project Change nor a new Environmental Notification Form should be required for the modifications to the routing plan, securing a permit amendment under the Massachusetts Endangered Species Act (MESA), and managing efforts related to amending two separate Conservation Restrictions governing activities on the property. A strict interpretation of the MEPA regulations would have indicated that the most recent activities on the site – involving alteration of approximately 17 acres of land, including mapped rare species habitat – would either necessitate a Notice of Project Change or a new Environmental Notification Form. Due to prior controversy surrounding the original development of the golf course, the project proponent did not want to invite additional public scrutiny if MEPA compliance could be achieved in the absence of a formal submission advertised in the Environmental Monitor. Normandeau

initially consulted with the Natural Heritage and Endangered Species Program (NHESP) to achieve its concurrence that area of the property that are presently mapped as rare species habitat are suitable for rare species only because of the active vegetation management activities performed by the golf club, and, further, that certain areas were not mapped as habitat when the golf course was originally proposed. With the backing of NHESP, Normandeau was able to persuade MEPA staff that a Request for Advisory Opinion, with copies simultaneously submitted to MEPA, the local Conservation Commission, and the local land trust, would sufficiently demonstrate that the regulatory and special interest groups most knowledgeable about the nature of the proposed impacts agreed that environmental impacts would be adequately offset through the proposed mitigation package, which called for similar vegetation management activities to take place on another area of the property while allowing four golf holes to be significantly re-constructed or relocated altogether.



Vineyard Golf Club is presently operational and Normandeau will continue to assist the client as requested. Permit issued by MADFW/NHESP.



CITY OF WATERTOWN

Community Preservation Committee

Mark Krackiewicz, Chair
Jon Bockian, Vice Chair
Bob DiRico
Dennis J. Duff
Allen Gallagher
Jamie O'Connell
Elodia Thomas
Matthew Walter

Draft Minutes of CPC Meeting Thursday, January 18, 2024, at 7:00PM, held remotely via Zoom.

Committee Members Present: Mark Krackiewicz, Chair; Jon Bockian, Vice Chair; Bob DiRico; Allen Gallagher; Dennis J. Duff; Elodia Thomas; Jamie O'Connell; and Abigail Hammett

Others Present: Lanae Handy, Community Preservation Coordinator; Michael Albano, Department of Public Works; Michael Cookson, Department of Public Works; Chris Golden, Michael D'Angelo Landscape Architects; Katie Swan, Department of Community Development and Planning; Steve Magoon, Department of Community Development and Planning; David Warner, Warner Larson Landscape Architects; Gideon Schreiber, Department of Community Development; Peter Centola, Department of Recreation; Joyce Kelly, Historical Society of Watertown; Leo Martin, Conservation Commission; Michael Lara, Watertown Housing Authority; Michele Waldman; Jamie Gordon; Linda Scott; Carolyn Gritter; Kathryn Madden; Judy Rose; and Ernesta Krackiewicz.

1. Call to Order

Mark Krackiewicz called the meeting to order at 7:00PM.

2. CPA Project Application Presentations

A. Saltonstall Park

Chris Golden of MDLA presented the Saltonstall Park project, introducing the team and stated the request of \$2,073,256 in funding in the Open Space/Outdoor Recreation CPA category. His presentation included a summary of the project feedback that included: concerns about the removal of pine trees near the Boys and Girls Club; the wall leading to the performance area; and shade trees.

The revised plans saved pines and shade trees. It also restored a version of the wall. According to Chris, all the other components of the plan remained the same as the 100% construction drawings submitted to CPC last summer.

In his presentation, Chris displayed the path layout comparison.

He also showed and/or described the following **materials**:

- clay pavers
- permeable path resin
- furnishings
- stainless steel rails along steps
- lighting to match Linear Path & Main Street
- plantings of native species, pollinator species (no invasive species); and rhododendron to survive acidic conditions under pines.

Performance Pavilion

Chris described the 19-foot stage and how the design selected was composed of a fiberglass membrane roof supported by laminated wood beams and buttressed by a powder coated metal frame. He noted the final design was true to the concept which had never been built. The lights would light the canopy and floodlights would point down for accent and safety. There would be RGB tunable and programmable lighting. The stage would also include a lockable and weather protected electric power box. There would be outlets mounted for users to string lights and I-bolts to install an impermanent 10ft. wide screen.

Costs

	CPA Request	Total
Low Bid	\$1,486,000	\$2,386,000
20% Contingency	\$477,200	
Design/Consultant Fees	\$50,545	\$159,511

Non-CPA funds for the project include \$900,000 from a DCR grant and \$174,572 in city funds for design/consultant fees.

Questions/Comments	Responses
Jamie O'Connell 1. What is the net difference in canopy between existing conditions and the current proposal? 2. Will the drainage be designed during construction? 3. What is the survival required for the plantings? 4. Can you provide something in writing from Trees for Watertown (TFW) given the tree removals?	Chris Golden 1. 3 pines and 2 crab apples will be removed. Pines will be limbed up and 16-17 trees will be planted. A majority will be understory and the red maple will be transplanted on site. 2. The civil engineering consultant came on the project late and the drainage was an addendum to the bid package. 3. At least two years. Michael Cookson 4. The tree warden reached out to TFW. They are reviewing the plans before providing a letter.

Questions/Comments	Responses
Jon Bockian 1. What is the updated timetable? 2. How long do the bids hold?	Chris 1. 6-8 weeks after going to bid. Late fall of 2024 or next year with working around the Farmers' Market. 2. 30 days
Allen Gallagher Will you obtain Certificates of Insurance; Workmen's Compensation?	That will be incorporated in the contract.
Dennis J. Duff Would like to see the plant list.	Chris will send the list.
Elodia Thomas 1. Why isn't the lowest bid broken out into the same structure as in the bid documents? Low bid is missing elements/pavilion. 2. Is the bus stop relocation spot known? 3. Why aren't contemporary lights and benches being used to harmonize with the modern look of the pavilion? Why are the benches oriented facing the street? 4. Didn't engage Joe Levendusky when the City Manager asked her to reach out to him. Where did the 2,000-person spec come from for the sound/lighting/electrical come from? 5. Sign should simply say Saltonstall Park	Chris 1. The bids are for the entire project, and they owe all the project elements once the contract is signed. Contractors may move numbers around and there are no exclusions. UEL gave more unit pricing after the fact. 2. Not yet. 3. New acorn lights are dark sky compliant and directed downward. MDLA was asked to match the lights along Linear Park and the benches used in Irving Park. The benches are generally facing the stage. Reorienting the benches facing Main St. would require the addition of pavement that would damage tree roots. A bench could be added to the pocket where the stairs will be removed. 4. Received specs from Joe Levendusky and the acoustical engineer and lighting consultant thought the amount of power was overkill for the performances planned. 5. Sign will be part of a call for artists design competition.

Questions/Comments	Responses
Mark Krackiewicz 1. Will the pavilion provide shade? Going out to bid there may not be a need to draw on the contingency as construction prices seem to be stabilizing.	Chris 1. The roof will create shade and is self-cleaning. The coverage extends over the stage area. There shouldn't be a huge jump, though the middle bidder may win if the lowest bidder doesn't have time in their schedule.

Bob DiRico stated the biggest expense would be careful removal of concrete to avoid damaging tree roots. He said there shouldn't be any hidden issues or surprise costs.

Michele Waldman asked if the pole lights would be soft lighting and whether more trees could be planted on the plaza. Chris replied the lights would be a warmer brightness and the plaza was not part of the project.

B. Walker Pond

Steve Magoon, Assistant City Manager/Director of Planning, presented the project. He said it was an opportunity to improve a property that was the impetus for the CPA being adopted. Steve noted the request was for \$94,000 for design work and introduced the other project team members present: Katie Swan, Environmental Planner and Conservation Agent; Gideon Shreiber, Assistant Director of Planning; and David Warner, Warner Larson Landscape Architects. Steve noted the northern area of the pond was conservation land not owned by the city.

Katie Swan provided background about the site including previous owners (Gore Estate, Waltham Country Club, Raytheon (leased then purchased), and that the property was subsequently subdivided. She showed images and aerial views of the site.

David Larsen described the process and outcome of the project for design. He pointed out the consultant team was familiar with the site and included Feldman Geospatial (surveyors), VHB, McPhail (geotechnical engineers), and PM&C (Cost Estimators).

Process

There would be a minimum of 3 public meetings. The first would involve mostly listening and recording. At the second meeting David would present a range of design concepts to be distilled into one for the final/preferred concept presentation at the third meeting. The result would be a conceptual design for passive and active recreational use of open space. A six-month timeframe would keep ideas fresh. There would be an effort to provide access around the pond that avoided significant trees and any grading that would disturb tree roots. The feasibility portion of the project would include a site assessment, identification of constraints, and a survey. There would be an \$89,000 fixed cost of that total \$47,000 for the feasibility study and \$42,000 for the schematic design. DCDP would commit to cover any needed contingency.

The team went through their answers to the CPC's questions ([the questions and answers are attached to these minutes](#)).

Questions/Comments	Answers
Allen Is there a way for pedestrians to access the pond and is there parking?	Gideon There are three ways to access the site, and there is parking on Waltham St. There is a sidewalk access point at Bell Towers with parking, and a fire lane off of Waltham St.
Jamie 1. A natural resource inventory with a baseline assessment of trees and patches of invasive species should be part of the project. 2. This would be the time to determine the water quality, to set goals for the pond, and provide thoughts on resource management. 3. The project should provide information about the natural habitat thinking beyond how humans make their way through the site. 4. The project should view the site more broadly than through a regulatory lens.	David 1. Inquired with the tree warden about the capacity to maintain and update a GIS tree inventory. This project can locate larger trees to develop the design and map large clusters of invasive species. 2. The scope could include evaluation of ground water activities to identify gaps in information to determine if future water sampling is necessary. 3. The wetland scientist who does the delineation would provide some baseline information. That wouldn't require a wildlife study. 4. Can scope out the additional cost of an ecological wildlife study. Steve The CPC is asking for an expansion of the scope for an additional cost and the city will provide that information.
Jon 1. What are the parameters for the use of the site? What decisions have already been made about passive and active use of the site? Not reassured and because of the scope of the studies it doesn't appear the city is going into the project with an open mind. 2. How was Warner Larsen selected? 3. The firm's website displays primarily active recreation projects.	Steve 1. Stakeholders spoke about the active and passive use of the site. The use is subject to the public process. They talked about the possibility of active recreation where the parking lot is located. 2. The city identified the design teams, and the staff interviewed them. 3. The city had not predetermined any use of the property.

Mark said the public needs to know more about the quality of the water and the attributes of the pond and whether the site is a valuable wildlife area.

Elodia 1. According to the application the project will consider ways to improve the health of the water and shoreline. 2. No passive recreation projects in Warner Larsen's portfolio. The one site highlighted is a small natural area with an artificial turf field. There are two architects working on other CPC projects who have a great deal of experience with natural areas. 3. There are 3 easements next to the park and the Manley Way easement is not safe. The city can change the easements. There is stormwater going into the pond and there is a truck turnaround at Manley Way. Concerned about an additional survey and what is the \$5,000 line item for.	Steve 1. The project is an opportunity for a public process to decide how to best use the property. 2. Not fair to David to suggest the firm is unable to develop a conceptual design for a natural area. 3. The city can't redo easements because they are joint and can't be amended unilaterally. They must be agreed upon.
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Bob was in favor of seeing the ecology of the pond addressed and expanding the scope of the study. Dennis would like to see a survey of all the trees on the site and thought baseline knowledge of what is on the site is needed.

Mark stated there was a growing consensus for the scope of the project to be expanded. Jamie offered to send an example of a small urban pond study as a frame of reference.

Michele Waldman said that a path around the pond is a given and supports everything Jamie said. She is concerned about the noise and discharge of trucks at Manley way impacting the enjoyment of the property. Michele stated, "there is 'old think' and 'new think'". The new way is conservation and people treasure open space these days.

David Atchison noticed the new survey after two had been performed and wondered what was wrong with the old surveys or could it be fixed. He would second the comments by Michele and Elodia, that the primary purpose of the project is open space.

Steve responded that the city had not surveyed the property. In order to create the final design and perform construction a new survey must be conducted to determine what has changed.

Jon added the city would want a survey certified to the city. Elodia pointed out that Steve signed off on a 2012 survey. Steve explained that was a subdivision plan which was different than a survey.

Leo stated a survey is needed and a 2012 survey is too old for a permit. He agreed with Jamie, and he had preliminary discussions with Steve about a water quality study. Leo said the pond was fed by drainage from Manley Way, the BJ's parking lot, and from Waltham stormwater. He thought the water quality should be improved if possible.

Mark would like to get an amended scope to have committee members review for the

February 15th meeting.

3. Acceptance of Minutes

A. 2023-11-16 CPC Minutes

Mark Krackiewicz asked if there were any changes to the minutes and there were none.

Motion: Jon moved to accept the minutes as written and Dennis seconded the motion.

Vote: Mark Krackiewicz, Elodia Thomas, Dennis J. Duff, Allen Gallagher, Jon Bockian, Bob DiRico, and Jamie O'Connell voted in favor.

4. Adjournment

Motion: Bob DiRico moved to adjourn, and Dennis J. Duff seconded the motion.

Vote: Elodia Thomas, Dennis J. Duff, Bob DiRico, Jon Bockian, Jamie O'Connell, Allen Gallagher, Mark Krackiewicz voted in favor.

Adjournment: 9:45PM

Attachments:

1. Responses to CPC Questions Scots Fence Application



CITY OF WATERTOWN

Community Preservation Committee

Mark Krackiewicz, Chair
Jon Bockian, Vice Chair
Bob DiRico
Dennis J. Duff
Allen Gallagher
Jamie O'Connell
Elodia Thomas
Matthew Walter

Draft Minutes of CPC Meeting Thursday, February 1, 2024, at 7:00PM, held remotely via Zoom.

Committee Members Present: Mark Krackiewicz, Chair; Jon Bockian, Vice Chair; Bob DiRico; Allen Gallagher; Dennis J. Duff; Elodia Thomas; Jamie O'Connell, and Matt Walter.

Others Present: Lanae Handy, Community Preservation Coordinator; Andrew Gambardella, Mt. Auburn Cemetery; Gus Fraser, Mt. Auburn Cemetery; Bethe Brown Mt. Auburn Cemetery; Katherine Pomplum, Historic New England; Jodi Black, Historic New England; Michael Albano, Department of Public Works; Joyce Kelly, Historical Society of Watertown; Leo Martin, Conservation Commission; Margie Wayne; and Jason Cohen, Planning Board.

1. Call to Order

Mark Krackiewicz called the meeting to order at 7:02PM noting the Governor's executive order to extend the suspension of certain open meeting law provisions.

2. CPA Project Application Presentations

A. Browne House Project Application

Katherine Pomplum presented Historic New England (HNE) was applying for \$7,250 for an engineering study for the Browne House constructed circa 1698. The house was distinguished by its unique framing where beams were not tied to posts or a chimney wall. She displayed the damage and stop-gap measures currently being taken. A crack monitor was installed to measure the movement. Additionally, posts and jacks were installed for support.

Katherine pointed out the Browne House doesn't have an endowment for preservation work and there are \$455,000 in work needed on the property. The outcome of the project would be 100% construction documents for the best engineering solution. She also noted the house had public access 12 days a year and admission was free for Watertown residents. HNE shared information through Wicked Local and Watertown Public Library.

Questions/Comments	Responses
Dennis J. Duff 1. How much does Historic New England have available for this project? 2. Is there any thought to opening more day? 3. Why are so few funds available for the house if it's so significant?	Katherine 1. Historic New England will contribute 50% of the \$14,500 total project budget. Historic New England has \$120 million tied up in restricted endowments for the care of individual properties and specific program uses. 2. They were previously only open 5 days per year, so it has grown. 3. They only draw 4.9% from their endowment to prevent overdrawing when times are good and to weather down times.
Jon Bockian The building is not very visible from the street due to overgrowth. To what degree will plantings be handled?	Jodi Black The property has historic plantings and HNE will manage overgrowth to make the property visible from the street.
Bob DiRico Where will the \$455,000 come from?	Katherine Massachusetts Historical Commission, family foundations, and individual donors.
Elodia Thomas 1. There are two different buildings on the property classified differently by the assessor than what is there. 2. Why are the maintenance costs \$55,000? 3. Concerned that HNE will come back to CPC for implementation and question finances and public access. 4. Why didn't HNE just pay \$14,500 for the study? 5. How do you fund implementation?	Katherine 1. Not sure why there are inconsistencies. One building is a barn previously used as a storage facility and the other is a house museum with a section for a tenant. 2. That amount is for operations and maintenance including staffing for open days, site visits as well as snow removal, landscaping, and insurance. 4. The assessment determined what was happening now construction documents are needed for the best option. The study will provide construction documents with an engineer's stamp. 5. Fundraise. Past funders include MHC and some other opportunities.
Mark Krackiewicz 1. If nothing were done, what would happen? 2. What is the dimension of the beam? 3. Is there a way to cooperate with WPS to bring students in for visits?	Jodi 1. The walls would continue to rotate and pull out collapsing the roof. 2. 22 inches square Katherine 3. There are accessibility issues though offsite lectures are possible.

Jamie stated concerns about future projects should be saved for when that project comes before the CPC and this project should be evaluated for its merits. She emphasized there is no compulsion for the CPC to recommend funding for future projects. Jamie agreed that the concern about public access is valid, though this project establishes the right path for protecting the oldest house in Watertown.

Matt agreed with Jamie's assessment and looked at the project in terms of how important is to be completed, the capacity of the organization to manage it, and the public benefit.

Leo Martin agrees the house is an asset that the public should be able to access more regularly. He noted the engineering firm was top notch and the budget was reasonable.

B. Scots Charitable Society Fence Project Application

Andrew Gambardella, Grants and Communications, Manager of Mt. Auburn Cemetery, presented the team that included Beth Brown, VP of Institutional Advancement and Gus Fraser, VP of Preservation and Facilities. Andrew described the history of the plot funded by the Scots Charitable Society for working class Scottish immigrants without means. They are seeking \$300,000 for the restoration of the fence which memorializes over 200 buried in the plot with no markers or headstones. The fence is one of a few remaining iron fences and one of only a few community plots.

Gus Fraser said they received a grant from the National Trust for Historic Preservation to perform the assessment as well as a matching grant from the Scots Charitable Society. He further described the work to be performed and how it would be done. Gus stated the total construction amounted to \$694,000 and the total budget was \$782,000 with the contingency.

The team went over the CPC's questions and their written answers to the CPC, which are [attached to these minutes](#). Beth addressed the question about the relationship between the Friends of Mt. Auburn Cemetery and the cemetery. She also recognized they could do more in the way of community outreach and programming. Beth mentioned the cemetery is building new pedestrian entrances and plans to re-engage with the Watertown Public Schools. She also pointed out most cemeteries are filling up or falling apart where Mt. Auburn would be accepting burials for another 100 years. Beth added a new donor pledged \$25,000 to the project on Monday.

Gus said the timeline is fixed; however, the start date would be determined by fundraising. Beth stated they were determined to raise 60% of the funding needed and CPA is included in the 60% needed to start construction and is viewed as an important part of that total.

Questions/Comments	Answers
Bob 1. How long will fundraising continue? 2. How long are the bids good for? 3. Will drip irrigation be used?	Beth 1. They hope to raise funds as quickly as possible. Their fiscal year begins April 1. Gus 2. The bids are good for 90 days with an inflation escalation and are approaching expiration. 3. Will use micro-emitter irrigation
Jamie 1. Do we need a letter from Mt. Auburn permitting the project. 2. There was not a letter of commitment from the Scots Charitable Society (SCS), just a mention of the challenge grant in a fundraising letter. 3. If fundraising efforts exceed 60%, would you reduce your request? 4. If the request is for \$300,000 and there is \$75,000 committed? How does CPC funding fit into the picture?	Lanae 1. The purpose of the letter of permission from the property owner or consent form from the city is to ensure the CPC doesn't recommend funding to groups or individuals on private or municipal property without the permission and involvement of the property owner. Mt. Auburn is clearly involved and committed to the project so a letter is not needed. Beth 2. We will have a commitment letter from Rob Young of SCS next week. 3. No, the funds that exceed the 60% goal would be put towards project implementation. 4. Mt. Auburn won't begin the project until 60% is raised and any excess raised beyond the 60% will lessen Mt. Auburn's contribution.
Mark 1. Watertown is home to many biotech companies. Would it be possible to reach out to them?	Beth 1. Yes, it is good to promote partners and acknowledge them. It would be a benefit.
Elodia 1. How much do you have in hand? 2. Bids are stale.	Beth Just over \$100,000 in pledges and challenge grants.

Questions/Comments	Responses
Jon How would Mt. Auburn view the CPC conditioning an award on having sufficient funds for the whole project budget?	Beth It would be okay, and fundraising would continue with status reports of fundraising results to the CPC.
Lanae Given the Community Preservation Plan prioritized municipal property for historic preservation and there are two municipal historic preservation projects completing study phases, what is the public benefit of funding this particular project at this time? Make your best case to the residents and taxpayers of Watertown.	Andrew Due to the historic lore of the cemetery in the heart of where historic residents are buried. This adds another area of interest. Mt. Auburn also has a few new staff committed to community outreach and interpretation projects.
Leo Martin Mt. Auburn has an \$8 million operating budget and the request of \$300,000 is a small percentage (2-3%) of that budget. You sold 3 parcels in Watertown recently. Do you set aside a portion?	Gus There is no separate endowment for preservation. This one for operating and capital improvements. They draw down 4.2% annually 3.2% going to operating and 1% to significant restoration or capital projects.

Dennis is disappointed funds in excess of 60% would not be returned to the CPC.

Elodia reiterated the majority of the cemetery is in Watertown, yet it has a Cambridge address. She thinks the project is premature.

Mark thanked the project team for their presentation and called for a motion to adjourn.

Dennis asked if going back to in-person meetings could be placed on the next agenda?

3. Adjournment

Motion: Allen Gallagher moved to adjourn, and Jon Bockian seconded the motion.

Vote: Elodia Thomas, Allen Gallagher, Jon Bockian, Dennis J. Duff, Jamie O'Connell, Bob DiRico, Mark Krackiewicz, and Matt Walter voted in favor.

Adjournment: 9:10