

LETTER OF TRANSMITTAL

TO: Conservation Commission
Town of Leicester
3 Washburn Square
Leicester, MA 01524
508-892-7007

PROJ. NO: 151-2863-O **DATE:** 5/24/23

PROJECT: Notice of Intent
Single Family Home

LOCATION: 120 White Birch Street
Parcel ID: 11 B1.5 0

SENT BY WAY OF THE FOLLOWING: Hand Delivery

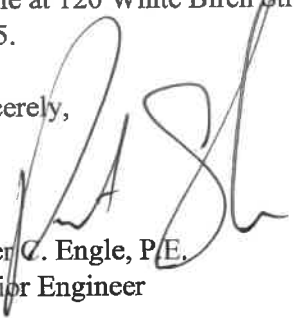
COPIES	DATE	ITEM DESCRIPTION
		NOTICE OF INTENT APPLICATION
2	5/24/23	<ul style="list-style-type: none">Cover LetterNOI WPA Form 3, NOI Wetland Transmittal Form and Copies of Filing Fee ChecksEcoTec, Inc.'s Wetland Resource Evaluation Report dated 5/8/23Maps: Record Plan, USGS Topographical, NHESP, FEMA, Assessors Map, Previously approved 2008 planCertified Abutters List and Draft Notification to Abutters
2	5/24/23	
2	5/24/23	
2	5/24/23	
2	5/3/23	
3	5/24/23	"Proposed Site Plan – Single Family Home" 120 White Birch Street, prepared by McClure Engineering, dated 5/23/23 (Size 24x36)
2	5/24/23	"Proposed Site Plan – Single Family Home" 120 White Birch Street, prepared by McClure Engineering, dated 5/23/23 (Size 11x17)
1	5/24/23	Check for \$312.50 for Town NOI Fee
1	5/24/23	Check for \$637.50 for Town portion of State NOI Fee

REMARKS:

Dear Board Members,

Enclosed are the above listed documents pertaining to the Notice of Intent for the proposed Single Family Home at 120 White Birch Street, Leicester, MA. Please call me with any questions or comments at (508) 248-2005.

Sincerely,


Peter C. Engle, P.E.
Senior Engineer

cc: MassDEP, Wetlands Permitting Office, 8 New Bond Street, Worcester, MA 01606

Wetlands Protection Act Notice of Intent

**Proposed Site Plan – Single Family Home
Paul Blanchard Jr.
120 White Birch Street
Leicester, MA 01524**

May 24, 2023

McCLURE
ENGINEERING, INC

119 Worcester Rd., Charlton, Massachusetts 01507 - 508.248.2005

May 24, 2023

Conservation Commission
Town of Leicester
3 Washburn Square
Leicester, MA 01524

**RE: Notice of Intent (NOI) Application – Paul Blanchard Jr.
120 White Birch Street, Leicester, MA; Parcel ID: 11 B1.5 0**

On behalf of the project Applicant, Paul Blanchard Jr., McClure Engineering, Inc. (McClure) is filing a Notice of Intent for the proposed construction of a single-family home and associated utilities and site work at 120 White Birch Street, Leicester, MA (Site).

The 2.75 +/- acre Property is located on the east side of White Birch Street and is shown as Lot 4, Plan Book 741, Plan 44. The property is currently undeveloped and primarily covered in woods with light underbrush and wetlands. Residential properties abut the property in all directions. An unnamed intermittent stream and associated Bordering Vegetated Wetlands (BVW) are located in the center of the property. An unnamed perennial stream is located on the eastern boundary of the site. The wetlands and streams were evaluated and delineated by EcoTec, Inc. in April of 2023 in accordance with the definitions set forth in the regulations at 310 CMR 10.55(2)(c). The majority of the site is located within the 100' buffer zone to the bordering vegetated wetlands. The eastern half of the property is located within Riverfront Area associated with the perennial stream. The property lies outside of any FEMA Flood Hazard Zones according to Flood Insurance Rate Map (FIRM) Map Number 25027C0595E, Effective Date July 4, 2011, as well as outside any Natural Heritage Habitat Areas. A plan for a single family home was previously approved as the site in 2008.

The proposed work includes construction of a four bedroom single family home and associated site features. The home will utilize a private drinking water supply well and a subsurface sewerage disposal system, designed to be in compliance with Title 5 regulations. A plan produced in 2008 by "Coyle Engineering Inc." for the development of the site for a single family home was previously approved by the Commission and Health Department, however the site was never constructed. In discussions with the Health Department, new soil evaluation and percolation testing will be required for the new design as previous testing was performed in 1999. The applicant is proposing to conduct the required soil evaluation as part of the Order of Conditions for the site prior to construction activities. This would involve minimal clearing and the use of a temporary crossing of the BVW and intermittent stream to access the site in order to conduct the required testing, which the applicant would also like to be included in the Order of Conditions. Following soil testing, the temporary crossing would be removed and the septic design parameters would be confirmed prior to clearing of the site and installation of the permanent crossing. The septic system as shown on the current plans is designed per soil evaluation and percolation testing taken from the previously approved plan and it is assumed soil evaluation results will indicate similar conditions to those previously found (percolation test of 11 MPI and ESHGW of 32" below surface).

A stream crossing over the intermittent stream on site is necessary to access the buildable upland portion of the property from White Birch Street. The stream crossing involves the construction of a three sided box culvert designed to meet all requirements of the MA Stream Crossing Standards as shown on the plans. Some permanent wetland fill is required for the proposed crossing; therefore, two replication areas for a total of 850 s.f. of wetland replacement are proposed

to provide greater than a 1:1 replacement. The stream crossing and site work will require a waiver from the local 25' no disturb buffer zone for resource areas.

The proposed Site Plans include Construction Period Stormwater Pollution Protection details. The resource areas will be protected from erosion and sedimentation during construction by a staked straw wattle and silt fence sediment control barrier until the site is stabilized. All areas of disturbance will be stabilized following construction with a minimum of 4" loam, seed, and clean straw. The total proposed disturbance of the site is approximately 0.70 acres.

A portion of the on-site Riverfront Area (100'-200') is proposed to be disturbed as part of the site development. The site has a total Riverfront Area of approximately 64,935 s.f. The proposed development includes the disturbance of approximately 6,290 s.f. of Riverfront Area for a total of 9.6%, which meets the requirement for no significant adverse impact per 310 CMR 10.58(4) d. 1.

The project meets the resource area performance standards of 310 CMR 10.00 via the following:

Bank: No disturbance to bank is proposed. The proposed intermittent stream crossing is designed to span the existing stream banks per the MA Stream Crossing Standards.

Land Under Water: No work is proposed which would disturb land under water. The proposed intermittent stream crossing is designed to span the existing stream banks per the MA Stream Crossing Standards.

Land Subject to Flooding: There is no land subject to flooding located on the property, therefore no proposed work will alter any land subject to flooding.

Riverfront Area: The project will meet the standards for Riverfront Area as the proposed disturbance will result in a 9.6% disturbance of all Riverfront Area on site and is located outside the 100' Riverfront Area. Alternatives to disturbance of Riverfront is really limited to the non-development of the site. It is practically impossible to develop the site in a manner which would not disturb any Riverfront Area. The only practical means of developing the site to eliminate all disturbance of Riverfront would be to provide BVW fill in an amount nearly equal to that of the Riverfront Area to be disturbed, as well as obtain variances for Title 5 setbacks to surface waters as the developable upland area is landlocked between multiple BVWs and streams and the majority of upland outside of the 50' Title 5 surface waters buffer is within the 200' Riverfront Area. Accessing the site from abutting property would not provide any benefit as far as Riverfront Area disturbance. The project as proposed will meet the general performance standards of all other resource areas, will not adversely impact rare species, and will have no significant adverse impact on the riverfront area per 310 CMR 10.58 (4) d. 1.

Bordering Vegetated Wetlands: The proposed intermittent stream crossing as designed will result in approximately 750 s.f. of BVW fill. Two replication areas, each 425 s.f. (850 s.f. total) are proposed to provide for greater than a 1:1 replacement for the lost BVW. The replication is proposed to be overseen by a Professional Wetland Scientist. The remainder of the BVW will be protected during construction with a straw wattle and silt fence sediment control barrier. And all disturbed areas will be stabilized with loam and seed, and biodegradable erosion control blankets as necessary to protect the resource areas.

The following documents are enclosed for your review in support of this project:

- Notice of Intent Application Package
- “Proposed Site Plan – Single Family Home – 120 White Birch Street, Leicester, MA”, Prepared by McClure Engineering, dated 5/23/23.

If you have any questions regarding the enclosed subject matter, please contact me at (508) 248-2005.

Sincerely,



Peter C. Engle, P.E.

Enclosures

cc: MassDEP, Wetlands Permitting Office, 8 New Bond Street, Worcester, MA 0160

WPA FORM 3



Massachusetts Department of Environmental Protection
Bureau of Resource Protection - Wetlands

WPA Form 3 – Notice of Intent

Massachusetts Wetlands Protection Act M.G.L. c. 131, §40

Provided by MassDEP:

MassDEP File Number

Document Transaction Number

Leicester

City/Town

Important:
When filling out forms on the computer, use only the tab key to move your cursor - do not use the return key.



Note:
Before completing this form consult your local Conservation Commission regarding any municipal bylaw or ordinance.

A. General Information

1. Project Location (**Note:** electronic filers will click on button to locate project site):

120 White Birch Street

a. Street Address

Leicester

b. City/Town

01524

c. Zip Code

Latitude and Longitude:

11-B1.5-0

f. Assessors Map/Plat Number

d. Latitude

e. Longitude

g. Parcel /Lot Number

2. Applicant:

Paul

a. First Name

Blanchard Jr.

b. Last Name

c. Organization

17 Dale Street

d. Street Address

Rochdale

e. City/Town

MA

f. State

01542

g. Zip Code

508-439-0744

h. Phone Number

i. Fax Number

paulblanchardjr@yahoo.com

j. Email Address

3. Property owner (required if different from applicant): ☐ Check if more than one owner

a. First Name

b. Last Name

c. Organization

d. Street Address

e. City/Town

f. State

g. Zip Code

h. Phone Number

i. Fax Number

j. Email address

4. Representative (if any):

Peter

a. First Name

Engle, P.E.

b. Last Name

McClure Engineering, Inc.

c. Company

119 Worcester Road

d. Street Address

Charlton

e. City/Town

MA

f. State

01507

g. Zip Code

508-248-2005

h. Phone Number

508-248-4887

i. Fax Number

pengle@mcclureengineers.com

j. Email address

5. Total WPA Fee Paid (from NOI Wetland Fee Transmittal Form):

\$1250

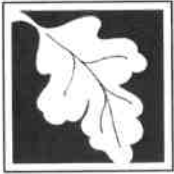
a. Total Fee Paid

\$612.50

b. State Fee Paid

\$637.50

c. City/Town Fee Paid



Massachusetts Department of Environmental Protection
Bureau of Resource Protection - Wetlands

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A. General Information (continued)

6. General Project Description:

New single family home with associated site work and utilities. Project involves work in RF Area and an intermittent stream crossing.

7a. Project Type Checklist: (Limited Project Types see Section A. 7b.)

- | | |
|---|---|
| 1. <input checked="" type="checkbox"/> Single Family Home | 2. <input type="checkbox"/> Residential Subdivision |
| 3. <input type="checkbox"/> Commercial/Industrial | 4. <input type="checkbox"/> Dock/Pier |
| 5. <input type="checkbox"/> Utilities | 6. <input type="checkbox"/> Coastal engineering Structure |
| 7. <input type="checkbox"/> Agriculture (e.g., cranberries, forestry) | 8. <input type="checkbox"/> Transportation |
| 9. <input type="checkbox"/> Other | |

7b. Is any portion of the proposed activity eligible to be treated as a limited project (including Ecological Restoration Limited Project) subject to 310 CMR 10.24 (coastal) or 310 CMR 10.53 (inland)?

1. ☒ Yes ☐ No If yes, describe which limited project applies to this project. (See 310 CMR 10.24 and 10.53 for a complete list and description of limited project types)
- 310 CMR 10.53 (3) (e) - Access to Upland Area

2. Limited Project Type

If the proposed activity is eligible to be treated as an Ecological Restoration Limited Project (310 CMR10.24(8), 310 CMR 10.53(4)), complete and attach Appendix A: Ecological Restoration Limited Project Checklist and Signed Certification.

8. Property recorded at the Registry of Deeds for:

Worcester

a. County

69018

c. Book

b. Certificate # (if registered land)

336

d. Page Number

B. Buffer Zone & Resource Area Impacts (temporary & permanent)

- ☐ Buffer Zone Only – Check if the project is located only in the Buffer Zone of a Bordering Vegetated Wetland, Inland Bank, or Coastal Resource Area.
- ☒ Inland Resource Areas (see 310 CMR 10.54-10.58; if not applicable, go to Section B.3, Coastal Resource Areas).

Check all that apply below. Attach narrative and any supporting documentation describing how the project will meet all performance standards for each of the resource areas altered, including standards requiring consideration of alternative project design or location.



Massachusetts Department of Environmental Protection
Bureau of Resource Protection - Wetlands

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B. Buffer Zone & Resource Area Impacts (temporary & permanent) (cont'd)

For all projects affecting other Resource Areas, please attach a narrative explaining how the resource area was delineated.

Resource Area	Size of Proposed Alteration	Proposed Replacement (if any)
a. <input type="checkbox"/> Bank	1. linear feet	2. linear feet
b. <input checked="" type="checkbox"/> Bordering Vegetated Wetland	750 1. square feet	850 2. square feet
c. <input type="checkbox"/> Land Under Waterbodies and Waterways	1. square feet 3. cubic yards dredged	2. square feet

Resource Area	Size of Proposed Alteration	Proposed Replacement (if any)
d. <input type="checkbox"/> Bordering Land Subject to Flooding	1. square feet 3. cubic feet of flood storage lost	2. square feet 4. cubic feet replaced
e. <input type="checkbox"/> Isolated Land Subject to Flooding	1. square feet 2. cubic feet of flood storage lost	3. cubic feet replaced
f. <input checked="" type="checkbox"/> Riverfront Area	1. Name of Waterway (if available) - specify coastal or inland	

2. Width of Riverfront Area (check one):

☐ 25 ft. - Designated Densely Developed Areas only

☐ 100 ft. - New agricultural projects only

☒ 200 ft. - All other projects

3. Total area of Riverfront Area on the site of the proposed project:

64,935

square feet

4. Proposed alteration of the Riverfront Area:

6,290

a. total square feet

0

b. square feet within 100 ft.

6,290

c. square feet between 100 ft. and 200 ft.

5. Has an alternatives analysis been done and is it attached to this NOI?

☒ Yes ☐ No

6. Was the lot where the activity is proposed created prior to August 1, 1996?

☐ Yes ☒ No

3. ☐ Coastal Resource Areas: (See 310 CMR 10.25-10.35)

Note: for coastal riverfront areas, please complete **Section B.2.f.** above.



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B. Buffer Zone & Resource Area Impacts (temporary & permanent) (cont'd)

Check all that apply below. Attach narrative and supporting documentation describing how the project will meet all performance standards for each of the resource areas altered, including standards requiring consideration of alternative project design or location.

Online Users:
Include your
document
transaction
number
(provided on your
receipt page)
with all
supplementary
information you
submit to the
Department.

<u>Resource Area</u>	<u>Size of Proposed Alteration</u>	<u>Proposed Replacement (if any)</u>
a. <input type="checkbox"/> Designated Port Areas	Indicate size under Land Under the Ocean, below	
b. <input type="checkbox"/> Land Under the Ocean	1. square feet _____ 2. cubic yards dredged _____	
c. <input type="checkbox"/> Barrier Beach	Indicate size under Coastal Beaches and/or Coastal Dunes below	
d. <input type="checkbox"/> Coastal Beaches	1. square feet _____	2. cubic yards beach nourishment _____
e. <input type="checkbox"/> Coastal Dunes	1. square feet _____	2. cubic yards dune nourishment _____

	<u>Size of Proposed Alteration</u>	<u>Proposed Replacement (if any)</u>
f. <input type="checkbox"/> Coastal Banks	1. linear feet _____	
g. <input type="checkbox"/> Rocky Intertidal Shores	1. square feet _____	
h. <input type="checkbox"/> Salt Marshes	1. square feet _____	2. sq ft restoration, rehab., creation _____
i. <input type="checkbox"/> Land Under Salt Ponds	1. square feet _____	
	2. cubic yards dredged _____	
j. <input type="checkbox"/> Land Containing Shellfish	1. square feet _____	
k. <input type="checkbox"/> Fish Runs	Indicate size under Coastal Banks, inland Bank, Land Under the Ocean, and/or inland Land Under Waterbodies and Waterways, above	
	1. cubic yards dredged _____	
l. <input type="checkbox"/> Land Subject to Coastal Storm Flowage	1. square feet _____	

4. ☐ Restoration/Enhancement

If the project is for the purpose of restoring or enhancing a wetland resource area in addition to the square footage that has been entered in Section B.2.b or B.3.h above, please enter the additional amount here.

a. square feet of BVW _____

b. square feet of Salt Marsh _____

5. ☒ Project Involves Stream Crossings

1

a. number of new stream crossings _____

b. number of replacement stream crossings _____



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C. Other Applicable Standards and Requirements

- ☐ This is a proposal for an Ecological Restoration Limited Project. Skip Section C and complete Appendix A: Ecological Restoration Limited Project Checklists – Required Actions (310 CMR 10.11).

Streamlined Massachusetts Endangered Species Act/Wetlands Protection Act Review

1. Is any portion of the proposed project located in **Estimated Habitat of Rare Wildlife** as indicated on the most recent Estimated Habitat Map of State-Listed Rare Wetland Wildlife published by the Natural Heritage and Endangered Species Program (NHESP)? To view habitat maps, see the *Massachusetts Natural Heritage Atlas* or go to http://maps.massgis.state.ma.us/PRI_EST_HAB/viewer.htm.

- a. ☐ Yes ☒ No **If yes, include proof of mailing or hand delivery of NOI to:**

Natural Heritage and Endangered Species Program
Division of Fisheries and Wildlife
1 Rabbit Hill Road
Westborough, MA 01581

8/1/21

b. Date of map

If yes, the project is also subject to Massachusetts Endangered Species Act (MESA) review (321 CMR 10.18). To qualify for a streamlined, 30-day, MESA/Wetlands Protection Act review, please complete Section C.1.c, and include requested materials with this Notice of Intent (NOI); OR complete Section C.2.f, if applicable. *If MESA supplemental information is not included with the NOI, by completing Section 1 of this form, the NHESP will require a separate MESA filing which may take up to 90 days to review (unless noted exceptions in Section 2 apply, see below).*

- c. Submit Supplemental Information for Endangered Species Review*

1. ☐ Percentage/acreage of property to be altered:

(a) within wetland Resource Area

percentage/acreage

(b) outside Resource Area

percentage/acreage

2. ☐ Assessor's Map or right-of-way plan of site

2. ☐ Project plans for entire project site, including wetland resource areas and areas outside of wetlands jurisdiction, showing existing and proposed conditions, existing and proposed tree/vegetation clearing line, and clearly demarcated limits of work **

- (a) ☐ Project description (including description of impacts outside of wetland resource area & buffer zone)
- (b) ☐ Photographs representative of the site

* Some projects **not** in Estimated Habitat may be located in Priority Habitat, and require NHESP review (see <https://www.mass.gov/mas-endangered-species-act-mesa-regulatory-review>).

Priority Habitat includes habitat for state-listed plants and strictly upland species not protected by the Wetlands Protection Act.

** MESA projects may not be segmented (321 CMR 10.16). The applicant must disclose full development plans even if such plans are not required as part of the Notice of Intent process.



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C. Other Applicable Standards and Requirements (cont'd)

- (c) ☐ MESA filing fee (fee information available at <https://www.mass.gov/how-to/how-to-file-for-a-mesa-project-review>).

Make check payable to "Commonwealth of Massachusetts - NHESP" and **mail to NHESP** at above address

Projects altering 10 or more acres of land, also submit:

- (d) ☐ Vegetation cover type map of site
- (e) ☐ Project plans showing Priority & Estimated Habitat boundaries
- (f) OR Check One of the Following

1. ☐ Project is exempt from MESA review.
Attach applicant letter indicating which MESA exemption applies. (See 321 CMR 10.14, <https://www.mass.gov/service-details/exemptions-from-review-for-projectsactivities-in-priority-habitat>; the NOI must still be sent to NHESP if the project is within estimated habitat pursuant to 310 CMR 10.37 and 10.59.)

2. ☐ Separate MESA review ongoing. a. NHESP Tracking # b. Date submitted to NHESP

3. ☐ Separate MESA review completed.
Include copy of NHESP "no Take" determination or valid Conservation & Management Permit with approved plan.

3. For coastal projects only, is any portion of the proposed project located below the mean high water line or in a fish run?

- a. ☒ Not applicable – project is in inland resource area only b. ☐ Yes ☐ No

If yes, include proof of mailing, hand delivery, or electronic delivery of NOI to either:

South Shore - Cohasset to Rhode Island border, and the Cape & Islands:

North Shore - Hull to New Hampshire border:

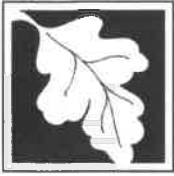
Division of Marine Fisheries -
Southeast Marine Fisheries Station
Attn: Environmental Reviewer
836 South Rodney French Blvd.
New Bedford, MA 02744
Email: dmf.envreview-south@mass.gov

Division of Marine Fisheries -
North Shore Office
Attn: Environmental Reviewer
30 Emerson Avenue
Gloucester, MA 01930
Email: dmf.envreview-north@mass.gov

Also if yes, the project may require a Chapter 91 license. For coastal towns in the Northeast Region, please contact MassDEP's Boston Office. For coastal towns in the Southeast Region, please contact MassDEP's Southeast Regional Office.

- c. ☐ Is this an aquaculture project? d. ☐ Yes ☐ No

If yes, include a copy of the Division of Marine Fisheries Certification Letter (M.G.L. c. 130, § 57).



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C. Other Applicable Standards and Requirements (cont'd)

Online Users:
Include your document transaction number (provided on your receipt page) with all supplementary information you submit to the Department.

4. Is any portion of the proposed project within an Area of Critical Environmental Concern (ACEC)?
- a. ☐ Yes ☒ No If yes, provide name of ACEC (see instructions to WPA Form 3 or MassDEP Website for ACEC locations). **Note:** electronic filers click on Website.
- b. ACEC
5. Is any portion of the proposed project within an area designated as an Outstanding Resource Water (ORW) as designated in the Massachusetts Surface Water Quality Standards, 314 CMR 4.00?
- a. ☐ Yes ☒ No
6. Is any portion of the site subject to a Wetlands Restriction Order under the Inland Wetlands Restriction Act (M.G.L. c. 131, § 40A) or the Coastal Wetlands Restriction Act (M.G.L. c. 130, § 105)?
- a. ☐ Yes ☒ No
7. Is this project subject to provisions of the MassDEP Stormwater Management Standards?
- a. ☐ Yes. Attach a copy of the Stormwater Report as required by the Stormwater Management Standards per 310 CMR 10.05(6)(k)-(q) and check if:
1. ☐ Applying for Low Impact Development (LID) site design credits (as described in Stormwater Management Handbook Vol. 2, Chapter 3)
 2. ☐ A portion of the site constitutes redevelopment
 3. ☐ Proprietary BMPs are included in the Stormwater Management System.
- b. ☒ No. Check why the project is exempt:
1. ☒ Single-family house
 2. ☐ Emergency road repair
 3. ☐ Small Residential Subdivision (less than or equal to 4 single-family houses or less than or equal to 4 units in multi-family housing project) with no discharge to Critical Areas.

D. Additional Information

- ☐ This is a proposal for an Ecological Restoration Limited Project. Skip Section D and complete Appendix A: Ecological Restoration Notice of Intent – Minimum Required Documents (310 CMR 10.12).

Applicants must include the following with this Notice of Intent (NOI). See instructions for details.

Online Users: Attach the document transaction number (provided on your receipt page) for any of the following information you submit to the Department.

1. ☒ USGS or other map of the area (along with a narrative description, if necessary) containing sufficient information for the Conservation Commission and the Department to locate the site. (Electronic filers may omit this item.)
2. ☒ Plans identifying the location of proposed activities (including activities proposed to serve as a Bordering Vegetated Wetland [BVW] replication area or other mitigating measure) relative to the boundaries of each affected resource area.



Massachusetts Department of Environmental Protection
Bureau of Resource Protection - Wetlands

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D. Additional Information (cont'd)

3. ☒ Identify the method for BVW and other resource area boundary delineations (MassDEP BVW Field Data Form(s), Determination of Applicability, Order of Resource Area Delineation, etc.), and attach documentation of the methodology.

4. ☒ List the titles and dates for all plans and other materials submitted with this NOI.

"Proposed Single Family Home" 120 White Birch Street, Leicester, MA

a. Plan Title

McClure Engineering, Inc.

b. Prepared By

5.23.23

d. Final Revision Date

Peter Engle, P.E.

c. Signed and Stamped by

1" = 20'

e. Scale

f. Additional Plan or Document Title

g. Date

5. ☐ If there is more than one property owner, please attach a list of these property owners not listed on this form.
6. ☐ Attach proof of mailing for Natural Heritage and Endangered Species Program, if needed.
7. ☐ Attach proof of mailing for Massachusetts Division of Marine Fisheries, if needed.
8. ☒ Attach NOI Wetland Fee Transmittal Form
9. ☐ Attach Stormwater Report, if needed.

E. Fees

1. ☐ Fee Exempt: No filing fee shall be assessed for projects of any city, town, county, or district of the Commonwealth, federally recognized Indian tribe housing authority, municipal housing authority, or the Massachusetts Bay Transportation Authority.

Applicants must submit the following information (in addition to pages 1 and 2 of the NOI Wetland Fee Transmittal Form) to confirm fee payment:

92

2. Municipal Check Number

91

4. State Check Number

Paul

6. Payor name on check: First Name

5/24/23

3. Check date

5/24/23

5. Check date

Blanchard Jr.

7. Payor name on check: Last Name



Massachusetts Department of Environmental Protection
Bureau of Resource Protection - Wetlands

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F. Signatures and Submittal Requirements

I hereby certify under the penalties of perjury that the foregoing Notice of Intent and accompanying plans, documents, and supporting data are true and complete to the best of my knowledge. I understand that the Conservation Commission will place notification of this Notice in a local newspaper at the expense of the applicant in accordance with the wetlands regulations, 310 CMR 10.05(5)(a).

I further certify under penalties of perjury that all abutters were notified of this application, pursuant to the requirements of M.G.L. c. 131, § 40. Notice must be made by Certificate of Mailing or in writing by hand delivery or certified mail (return receipt requested) to all abutters within 100 feet of the property line of the project location.

1. Signature of Applicant

2. Date

3. Signature of Property Owner (if different)

4. Date

5. Signature of Representative (if any)

6. Date

For Conservation Commission:

Two copies of the completed Notice of Intent (Form 3), including supporting plans and documents, two copies of the NOI Wetland Fee Transmittal Form, and the city/town fee payment, to the Conservation Commission by certified mail or hand delivery.

For MassDEP:

One copy of the completed Notice of Intent (Form 3), including supporting plans and documents, one copy of the NOI Wetland Fee Transmittal Form, and a **copy** of the state fee payment to the MassDEP Regional Office (see Instructions) by certified mail or hand delivery.

Other:

If the applicant has checked the "yes" box in any part of Section C, Item 3, above, refer to that section and the Instructions for additional submittal requirements.

The original and copies must be sent simultaneously. Failure by the applicant to send copies in a timely manner may result in dismissal of the Notice of Intent.



Massachusetts Department of Environmental Protection
Bureau of Resource Protection - Wetlands
NOI Wetland Fee Transmittal Form
Massachusetts Wetlands Protection Act M.G.L. c. 131, §40

Important: When filling out forms on the computer, use only the tab key to move your cursor - do not use the return key.



A. Applicant Information

1. Location of Project:

120 White Birch Street

a. Street Address

Leicester

b. City/Town

237.50

d. Fee amount

c. Check number

2. Applicant Mailing Address:

Paul

a. First Name

Blanchard Jr.

b. Last Name

c. Organization

17 Dale Street

d. Mailing Address

Rochdale

e. City/Town

MA

f. State

01542

g. Zip Code

508-439-0744

h. Phone Number

i. Fax Number

paulblanchardjr@yahoo.com

j. Email Address

3. Property Owner (if different):

a. First Name

b. Last Name

c. Organization

d. Mailing Address

e. City/Town

f. State

g. Zip Code

h. Phone Number

i. Fax Number

j. Email Address

B. Fees

To calculate filing fees, refer to the category fee list and examples in the instructions for filling out WPA Form 3 (Notice of Intent).

Fee should be calculated using the following process & worksheet. **Please see instructions before filling out worksheet.**

Step 1/Type of Activity: Describe each type of activity that will occur in wetland resource area and buffer zone.

Step 2/Number of Activities: Identify the number of each type of activity.

Step 3/Individual Activity Fee: Identify each activity fee from the six project categories listed in the instructions.

Step 4/Subtotal Activity Fee: Multiply the number of activities (identified in Step 2) times the fee per category (identified in Step 3) to reach a subtotal fee amount. Note: If any of these activities are in a Riverfront Area in addition to another Resource Area or the Buffer Zone, the fee per activity should be multiplied by 1.5 and then added to the subtotal amount.

Step 5/Total Project Fee: Determine the total project fee by adding the subtotal amounts from Step 4.

Step 6/Fee Payments: To calculate the state share of the fee, divide the total fee in half and subtract \$12.50. To calculate the city/town share of the fee, divide the total fee in half and add \$12.50.



Massachusetts Department of Environmental Protection
Bureau of Resource Protection - Wetlands
NOI Wetland Fee Transmittal Form
Massachusetts Wetlands Protection Act M.G.L. c. 131, §40

B. Fees (continued)

Step 1/Type of Activity	Step 2/Number of Activities	Step 3/Individual Activity Fee	Step 4/Subtotal Activity Fee
2.a. Construction of a SF home	1.5 (RF Area)	\$500	\$750
2.f. Crossing for SF home	1	\$500	\$500

Step 5/Total Project Fee:

Step 6/Fee Payments:

Total Project Fee:	\$1250.00
State share of filing Fee:	a. Total Fee from Step 5 \$612.50
City/Town share of filing Fee:	b. 1/2 Total Fee less \$12.50 \$637.50
	c. 1/2 Total Fee plus \$12.50

C. Submittal Requirements

- a.) Complete pages 1 and 2 and send with a check or money order for the state share of the fee, payable to the Commonwealth of Massachusetts.

Department of Environmental Protection
Box 4062
Boston, MA 02211

- b.) **To the Conservation Commission:** Send the Notice of Intent or Abbreviated Notice of Intent; a copy of this form; and the city/town fee payment.

To MassDEP Regional Office (see Instructions): Send a copy of the Notice of Intent or Abbreviated Notice of Intent; a copy of this form; and a copy of the state fee payment. (E-filers of Notices of Intent may submit these electronically.)

FOR SECURITY PURPOSES, THE FACE OF THIS DOCUMENT CONTAINS A COLORED BACKGROUND AND MICROPRINTING IN THE BORDER

Paul A. Blanchard
17 Dale Street
Leicester MA 01542

Date 05/24/2023

92

53-7173/2113

Pay to the
order of

Town of Leicester

\$ 637.50

Six hundred thirty seven and 50/100

Dollars

CORNERSTONE BANK
WORCESTER MA 01609-1918

No Minimum Dollar Amount

MEMO

State NOI Fee

SIGNED

Paul A. Blanchard

⑆211371735⑆ 4762611303⑆

0092

THE REVERSE SIDE OF THIS DOCUMENT INCLUDES A WATERMARK - HOLD AT ANGLE TO VIEW

FOR SECURITY PURPOSES, THE FACE OF THIS DOCUMENT CONTAINS A COLORED BACKGROUND AND MICROPRINTING IN THE BORDER

93

53-7173/2113

Paul A. Blanchard
17 Dale Street
Leicester MA 01542

Date 05/24/2023

Pay to the
order of

Town of Leicester

\$ 312.50

Dollars

Three hundred twelve and 50/100
CORNERSTONE BANK
WORCESTER MA 01609-1918

No Minimum Dollar Amount

MEMO

NO I Fee

SIGNED

Paul Blanchard

⑆211371735⑆ 4762611303⑈

0093

THE REVERSE SIDE OF THIS DOCUMENT INCLUDES A WATERMARK - HOLD AT ANGLE TO VIEW

WETLAND EVALUATION REPORT

EcoTec, Inc.
ENVIRONMENTAL CONSULTING SERVICES
102 Grove Street
Worcester, MA 01605-2629
508-752-9666 – Fax: 508-752-9494

May 8, 2023

Peter Engle, PE
McClure Engineering
119 Worcester Road,
Charlton, MA 01507

RE: Wetland Resource Evaluation, 120 White Birch Street, Leicester, MA.

Dear Mr. Engle:

On April 26, 2023, EcoTec, Inc. inspected the property located at 120 White Birch Street, in Leicester for the presence of wetland resources as defined by: (1) the Massachusetts Wetlands Protection Act (M.G.L. Ch. 131, § 40; the “Act”) and its implementing regulations (310 CMR 10.00 *et seq.*; the “Regulations”); (2) the Town of Leicester Wetlands Protection Bylaw and its implementing regulations; and (3) the U.S. Clean Water Act (i.e., Section 404 and 401 wetlands). Art Allen, CWS, CPSS, and Kate O’Donnell, WPIT conducted the inspection.

The subject site consists of an approximately 3-acre parcel located at 120 White Birch Street in Leicester. The upland portions of the site consist of undeveloped forested land. Plant species observed include northern red oak (*Quercus rubra*), eastern white pine (*Pinus strobus*), white ash (*Fraxinus americana*), and black birch (*Betula lenta*) trees and/or saplings; American witch-hazel (*Hamamelis virginiana*), Japanese barberry (*Berberis thunbergia*), and mountain laurel (*Kalmia latifolia*) shrubs; and partridge-berry (*Mitchella repens*) and wild-lily-of-the-valley (*Maianthemum canadense*) ground cover. The wetland resources observed on the site are described below.

Methodology

The site was inspected, and areas suspected to qualify as wetland resources were identified. The boundaries of Bordering Vegetated Wetlands and Bank were delineated in the field in accordance with the definitions set forth in the regulations at 310 CMR 10.55(2)(c) and 310 CMR 10.54(2). Section 10.55(2)(c) states that “The boundary of Bordering Vegetated Wetlands is the line within which 50% or more of the vegetational community consists of wetland indicator plants and saturated or inundated conditions exist.” Section 10.54(2)(c) states that “The upper boundary of Bank is the first observable break in the slope or the mean annual flood level, whichever is lower.” The methodology used to delineate Bordering Vegetated Wetlands is further described in: (1) the BVW Policy “*BVW: Bordering Vegetated Wetlands Delineation Criteria and Methodology*,” issued March 1, 1995; and (2) “*Delineating Bordering Vegetated Wetlands Under the Massachusetts Wetlands Protection Act: A Handbook*,” produced by the Massachusetts Department of Environmental Protection, dated March 1995. The plant taxonomy used in this report is based on the *National List of Plant Species that Occur in Wetlands*:

Massachusetts (Fish and Wildlife Service, U.S. Department of the Interior, 1988). Federal wetlands were presumed to have boundaries conterminous with the delineated Bordering Vegetated Wetlands and Bank. One set of DEP Bordering Vegetated Wetland Delineation Field Data Forms completed for observation plots located in the wetlands and uplands near flag A5 is attached. The table below provides the Flag Numbers, Flag Type, and Wetland Types and Locations for the delineated wetland resources.

Flag Numbers	Flag Type	Wetland Types and Locations
Start A1 to A8 Stop	Blue Flags	Boundary of Bordering Vegetated Wetlands associated with the mapped intermittent stream located in the western portion of the site.
Start B1 to B24 Stop (B24 connects to C1)	Blue Flags	Boundary of Bordering Vegetated Wetlands associated with the mapped intermittent stream located in the western portion of the site and the mapped perennial stream in the eastern portion of the site.
Start C1 to C10 Stop (C1 connects to B24)	Blue Flags	Boundary of Bordering Vegetated Wetlands associated with the mapped perennial stream located in the eastern portion of the site.
Start SA1 to SA10 Stop	Red Flags	Upper boundary of bank of the mapped intermittent stream in the western portion of the site.
Start SB1 to SB10 Stop	Red Flags	Upper boundary of bank of the mapped intermittent stream in the western portion of the site.
Start SC1 to SC4 Stop	Red Flags	Upper boundary of bank of the section of the mapped intermittent stream that splits to two streams, located in the western portion of the site.
Start R1 to R18 Stop	Red Flags	Mean Annual High-water Line (MAHWL) of the mapped perennial stream located in the eastern portion of the site.
TP-Wet, TP-Up	Orange Flags	BVW Delineation test plot flags located near wetland flag A5.

Findings

Wetland A (i.e., flags A1 – A8) consists of wooded swamp located in the western portion of the site that is associated with an intermittent stream. Plant species observed include red maple (*Acer rubrum*), eastern hemlock (*Tsuga canadensis*), yellow birch (*Betula alleghaniensis*) trees and/or saplings; and cinnamon fern (*Osmunda cinnamomea*), New York fern (*Thelypteris noveboracensis*), and tall meadow-rue (*Thalictrum pubescens*) ground cover. A portion of the intermittent stream Bank located within Wetland A and B, was delineated with flags SA1 to SA10, SB1 to SB10, and SC1 to SC4. The bankfull width of the stream can be determined using the SA, SB, and SC flagging series. The A series vegetated wetland borders an intermittent stream; accordingly, the wetland would be regulated as Bordering Vegetated Wetlands and the intermittent stream (within flags SA, SB, and SC) would be regulated as Bank under the Act and Bylaw. A 100-foot Buffer Zone extends horizontally outward from the edge of Bordering Vegetated Wetlands and Bank under the Act and Bylaw.

Wetland B (i.e., flags B1-B24) consists of wooded swamp, located in the western portions of the site that is associated with an intermittent stream as well as a perennial stream. Plant species observed include similar species to those listed above. Evidence of wetland hydrology, including hydric soils, saturated soils, and drainage patterns, was observed within the delineated wetland. The B series vegetated wetland borders an intermittent and a perennial stream; accordingly, the vegetated wetland would be regulated as Bordering Vegetated Wetlands, the perennial stream would be regulated as Bank and Land Under Water Bodies and Waterways, and the intermittent stream (within flags SA, SB, and SC) would be regulated as Bank under the Act and Bylaw.

Wetlands C (i.e., flags C1 – C10) consists of a wooded swamp, located in the eastern portion of the site that is associated with a perennial stream. Plant species observed include similar species to those listed above. Evidence of wetland hydrology, including hydric soils, saturated soils, and drainage patterns, was observed within the delineated wetlands. This vegetated wetland borders a perennial stream; accordingly, the vegetated wetlands would be regulated as Bordering Vegetated Wetlands and the perennial stream would be regulated as Bank and Land Under Water Bodies and Waterways under the Act and Bylaw. A 100-foot Buffer Zone extends horizontally outward from the edge of Bordering Vegetated Wetlands under the Act and Bylaw.

Bordering Land Subject to Flooding is an area that floods due to a rise in floodwaters from a bordering waterway or water body. Where flood studies have been completed, the boundary of Bordering Land Subject to Flooding is based upon flood profile data prepared by the National Flood Insurance Program. Section 10.57(2)(a)3. states that “The boundary of Bordering Land Subject to Flooding is the estimated maximum lateral extent of flood water which will theoretically result from the statistical 100-year frequency storm.” Based upon a review of the Flood Insurance Rate Map, Worcester County, Massachusetts, Map Number 25027C0595E, Effective Date 7/4/2011, the site is mapped as Other Areas: Zone X, which is defined as areas located outside of the 0.2% annual chance flood (i.e., outside of 500-year floodplain). The project engineer should evaluate the most recent National Flood Insurance Program flood profile data to determine if Bordering Land Subject to Flooding occurs on the site. Bordering Land Subject to Flooding would occur in areas where the 100-year flood elevation is located outside of or upgradient of the delineated Bordering Vegetated Wetlands or Bank boundary. Bordering Land Subject to Flooding does not have a Buffer Zone under the Act.

The Massachusetts Rivers Protection Act amended the Act to establish an additional wetland resource area: Riverfront Area. Based upon a review of the current USGS Map (i.e., Worcester North Quadrangle, dated 1983, attached), a stream that is shown as perennial is located in the eastern portion of the site. Streams that are shown as perennial on the current USGS map are designated perennial under the Massachusetts Wetlands Protection Act regulations. Unless this perennial designation is overcome, Riverfront Area is presumed to extend 200 feet horizontally upgradient from the mean annual high-water line of the stream. Section 10.58(2)(a)2. states that the “Mean annual high-water line of a river is the line that is apparent from visible markings or changes in the character of soils or vegetation due to prolonged presence of water and that distinguishes between predominantly aquatic and predominantly terrestrial land. Field indicators of bankfull conditions shall be used to determine the mean annual high-water line. Bankfull field indicators include but are not limited to: changes in slope, changes in vegetation, stain lines, top

of pointbars, changes in bank materials, or bank undercuts.” Section 10.58(2)(a)2.a. states that “In most rivers, the first observable break in slope is coincident with bankfull conditions and the mean annual high-water line.” The mean annual high-water line of the stream was delineated in the field with flags R1 to R18 based upon the above-referenced regulation. Additionally, based upon a review of the current USGS Map and observations made during the site inspection, a stream that is shown as intermittent on the USGS Map is located in the western portion of the site. The watershed area for this stream at the site was determined to be 0.19 square miles, which is less than 0.5 square miles (see attached watershed calculations). As such, the stream would be designated intermittent under the Massachusetts Wetlands Protection Act regulations. Furthermore, based upon a review of the current USGS Map and observations made during the site inspection, there are no other mapped or unmapped streams located within 200 feet of the site. Accordingly, Riverfront Area on the site is associated only with the perennially designated stream. Riverfront Area does not have a Buffer Zone under the Act but may overlap other wetland resources and their Buffer Zones.

The Regulations require that no project may be permitted that will have any adverse effect on specified habitat sites of rare vertebrate or invertebrate species, as identified by procedures set forth at 310 CMR 10.59. Based upon a review of the *Massachusetts Natural Heritage Atlas*, 15th edition, Priority Habitats and Estimated Habitats from the NHESP Interactive Viewer, valid from August 1, 2021, and viewed on April 14, 2023, and Certified Vernal Pools from MassGIS, there are no Estimated Habitats [for use with the Act and Regulations (310 CMR 10.00 *et seq.*)], Priority Habitats [for use with Massachusetts Endangered Species Act (M.G.L. Ch. 131A; “MESA”) and MESA Regulations (321 CMR 10.00 *et seq.*)], or Certified Vernal Pools on or in the immediate vicinity of the site. A copy of this map is attached.

The reader should be aware that the regulatory authority for determining wetland jurisdiction rests with local, state, and federal authorities. Brief descriptions of our experience and qualifications are attached. If you have any questions, please feel free to contact us at any time.

Cordially,
ECOTEC, INC.



Art Allen, CWS, CPSS
Vice President



Kate O'Donnell, WPIT
Environmental Scientist

Attachments (13 pages)

BORDERING VEGETATED WETLAND DETERMINATION FORM

Project/Site: 120 White Birch Street, City/Town: Leicester Sampling Date: 4/26/2023
 Applicant/Owner: _____ Sampling Point or Zone: A5
 Investigator(s): Art Allen, CWS, CPSS Latitude / Longitude: _____
 Soil Map Unit Name: Paxton NWI or DEP Classification: _____

Are climatic/hydrologic conditions on the site typical for this time of year? Yes ☒ No ☐ (If no, explain in Remarks)

Are Vegetation ☐, Soil ☐, or Hydrology ☐ significantly disturbed? (If yes, explain in Remarks)

Are Vegetation ☐, Soil ☐, or Hydrology ☐ naturally problematic? (If yes, explain in Remarks)

SUMMARY OF FINDINGS – Attach site map and photograph log showing sampling locations, transects, etc.

Wetland vegetation criterion met?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Is the Sampled Area within a Wetland? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Hydric Soils criterion met?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	
Wetlands hydrology present?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	
Remarks, Photo Details, Flagging, etc.:		

HYDROLOGY

Field Observations:		
Surface Water Present?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Depth (inches) <u>2</u>
Water Table Present?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Depth (inches) _____
Saturation Present (including capillary fringe)?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Depth (inches) <u>0</u>
Wetland Hydrology Indicators		
Reliable Indicators of Wetlands Hydrology	Indicators that can be Reliable with Proper Interpretation	Indicators of the Influence of Water
<input type="checkbox"/> Water-stained leaves <input type="checkbox"/> Evidence of aquatic fauna <input type="checkbox"/> Iron deposits <input type="checkbox"/> Algal mats or crusts <input type="checkbox"/> Oxidized rhizospheres/pore linings <input type="checkbox"/> Thin muck surfaces <input type="checkbox"/> Plants with air-filled tissue (aerenchyma) <input type="checkbox"/> Plants with polymorphic leaves <input type="checkbox"/> Plants with floating leaves <input type="checkbox"/> Hydrogen sulfide odor	<input type="checkbox"/> Hydrological records <input checked="" type="checkbox"/> Free water in a soil test hole <input checked="" type="checkbox"/> Saturated soil <input type="checkbox"/> Water marks <input type="checkbox"/> Moss trim lines <input type="checkbox"/> Presence of reduced iron <input type="checkbox"/> Woody plants with adventitious roots <input type="checkbox"/> Trees with shallow root systems <input type="checkbox"/> Woody plants with enlarged lenticels	<input type="checkbox"/> Direct observation of inundation <input type="checkbox"/> Drainage patterns <input type="checkbox"/> Drift lines <input type="checkbox"/> Scoured areas <input type="checkbox"/> Sediment deposits <input type="checkbox"/> Surface soil cracks <input type="checkbox"/> Sparsely vegetated concave surface <input type="checkbox"/> Microtopographic relief <input type="checkbox"/> Geographic position (depression, toe of slope, fringing lowland)
Remarks (describe recorded data from stream gauge, monitoring well, aerial photos, previous inspections, if available):		

This form is only for BVW delineations. Other wetland resource areas may be present and should be delineated according to the applicable regulatory provisions.

VEGETATION – Use both common and scientific names of plants.

<u>Tree Stratum</u>		Plot size <u>30' Radius</u>		Indicator Status	Absolute/ Relative % Cover	Dominant? (yes/no)	Wetland Indicator? (yes/no)
Common name*	Scientific name						
1. red maple	<i>Acer rubrum</i>	FAC	60/86	Yes	Yes		
2. black birch	<i>Betula lenta</i>	FACU-	10/14	No	No		
3.							
4.							
5.							
6.							
7.							
8.							
9.							
				<u>70</u> = Total Absolute Cover			
<u>Shrub/Sapling Stratum</u>		Plot size <u>15' Radius</u>		Indicator Status	Absolute/ Relative % Cover	Dominant? (yes/no)	Wetland Indicator? (yes/no)
Common name*	Scientific name						
1. eastern hop-hornbeam	<i>Ostrya virginiana</i>	FACU-	40/66.7	Yes	No		
2. green ash	<i>Fraxinus pennsylvanica</i>	FACW	10/16.7	No	Yes		
3. red oak	<i>Quercus rubra</i>	FACU	10/16.7	No	No		
4.							
5.							
6.							
7.							
8.							
9.							
				<u>60</u> = Total Absolute Cover			
<u>Herb Stratum</u>		Plot size <u>5' Radius</u>		Indicator Status	Absolute/ Relative % Cover	Dominant? (yes/no)	Wetland Indicator? (yes/no)
Common name*	Scientific name						
1. trout lily	<i>Ophioglossum vulgatum</i>	FACW	10/50	Yes	Yes		
2. new york fern	<i>Thelypteris novaboracensis</i>	FAC	10/50	Yes	Yes		
3.							
4.							
5.							
6.							
7.							
8.							
9.							
10.							
11.							
12.							
				<u>20</u> = Total Absolute Cover			

* 1988 Plant List

VEGETATION – continued.

<u>Woody Vine Stratum</u>		Plot size <u>30' Radius</u>			
Common name*		Scientific name	Indicator Status	Absolute/ Dominant? Relative % (yes/no) Cover	Wetland Indicator? (yes/no)
1.					
2.					
3.					
4.					
					_____ = Total Absolute Cover

* 1988 Plant List

Rapid Test: Do all dominant species have an indicator status of OBL or FACW?				Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>
Dominance Test:	Number of dominant species	Number of dominant species that are wetland indicator plants		Do wetland indicator plants make up ≥ 50% of dominant plant species?	
	4	3		Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>
Prevalence Index:		Total % Cover (all strata)	Multiply by:	Result	
	OBL species	0	X 1	= 0.0	
	FACW species	20	X 2	= 40.0	
	FAC species	70	X 3	= 210.0	
	FACU species	60	X 4	= 240.0	
	UPL species	0	X 5	= 0.0	
	Column Totals	(A) 150.0		(B) 490.0	
Prevalence Index		B/A = 3.3		Is the Prevalence Index ≤ 3.0?	
				Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>
Wetland vegetation criterion met? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>					

Definitions of Vegetation Strata

- Tree - Woody plants 3 in. (7.62 cm) or more in diameter at breast height (DBH), regardless of height
- Shrub / Sapling - Woody plants less than 3 in. (7.62 cm) DBH and greater than or equal to 3.3 ft. (1 m) tall
- Herb - All herbaceous (non-woody plants, regardless of size, and woody plants less than 3.3 ft. (1 m) tall
- Woody vines - All woody vines greater than 3.3 ft. (1 m) in height

Cover Ranges	
Range	Midpoint
1-5 %	3.0 %
6-15 %	10.5 %
15-25 %	20.5 %
26-50 %	38.0 %
51-75 %	63.0 %
76-95 %	85.5 %
96-100 %	98.0 %

SOIL

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators)								
Horizon/ Depth	Matrix		Redox Features				Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type ¹	Location ²		
Leaf Litter:								
Oa: 0-8"								muck
¹ Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains						² Location: PL=Pore Lining, M=Matrix		
Hydric Soil Indicators (Check all that apply)							Indicators for Problematic Hydric Soils	
<input type="checkbox"/> Histosol (A1)			<input type="checkbox"/> Polyvalue Below Surface (S8)			<input type="checkbox"/> 2 cm Muck (A10)		
<input checked="" type="checkbox"/> Histic Epipedon (A2)			<input type="checkbox"/> Thin Dark Surface (S9)			<input type="checkbox"/> 5 cm Mucky Peat or Peat (S3)		
<input type="checkbox"/> Black Histic (A3)			<input type="checkbox"/> Loamy Mucky Mineral (F1)			<input type="checkbox"/> Dark Surface (S7)		
<input type="checkbox"/> Hydrogen Sulfide (A4)			<input type="checkbox"/> Loamy Gleyed Matrix (F2)			<input type="checkbox"/> Polyvalue Below Surface (S8)		
<input type="checkbox"/> Stratified Layers (A5)			<input type="checkbox"/> Depleted Matrix (F3)			<input type="checkbox"/> Thin Dark Surface (S9)		
<input type="checkbox"/> Depleted Below Dark Surface (A11)			<input type="checkbox"/> Redox Dark Surface (F7)			<input type="checkbox"/> Iron-Manganese Masses (F12)		
<input type="checkbox"/> Thick Dark Surface (A12)			<input type="checkbox"/> Depleted Dark Surface (F8)			<input type="checkbox"/> Mesic Spodic (A17)		
<input type="checkbox"/> Sandy Mucky Mineral (S1)						<input type="checkbox"/> Red Parent Material (F21)		
<input type="checkbox"/> Sandy Gleyed Matrix (S4)						<input type="checkbox"/> Very Shallow Dark Surface (TF12)		
<input type="checkbox"/> Sandy Redox (S5)						<input type="checkbox"/> Other (Include Explanation in Remarks)		
<input type="checkbox"/> Stripped Matrix (S6)								
<input type="checkbox"/> Dark Surface (S7)								
Restrictive Layer (if observed)		Type: _____		Depth (inches): _____				
Remarks: 								
Hydric Soils criterion met?				Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>				

BORDERING VEGETATED WETLAND DETERMINATION FORM

Project/Site: 120 White Birch Street, City/Town: Leicester Sampling Date: 4/26/2023
 Applicant/Owner: _____ Sampling Point or Zone: A5
 Investigator(s): Art Allen, CWS, CPSS Latitude / Longitude: _____
 Soil Map Unit Name: Paxton NWI or DEP Classification: _____

Are climatic/hydrologic conditions on the site typical for this time of year? Yes ☒ No ☐ (If no, explain in Remarks)

Are Vegetation ☐, Soil ☐, or Hydrology ☐ significantly disturbed? (If yes, explain in Remarks)

Are Vegetation ☐, Soil ☐, or Hydrology ☐ naturally problematic? (If yes, explain in Remarks)

SUMMARY OF FINDINGS – Attach site map and photograph log showing sampling locations, transects, etc.

Wetland vegetation criterion met?	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>	Is the Sampled Area within a Wetland? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>
Hydric Soils criterion met?	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>	
Wetlands hydrology present?	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>	
Remarks, Photo Details, Flagging, etc.:			

HYDROLOGY

Field Observations:		
Surface Water Present?	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/> Depth (inches) _____
Water Table Present?	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/> Depth (inches) _____
Saturation Present (including capillary fringe)?	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/> Depth (inches) _____
Wetland Hydrology Indicators		
Reliable Indicators of Wetlands Hydrology	Indicators that can be Reliable with Proper Interpretation	Indicators of the Influence of Water
<input type="checkbox"/> Water-stained leaves <input type="checkbox"/> Evidence of aquatic fauna <input type="checkbox"/> Iron deposits <input type="checkbox"/> Algal mats or crusts <input type="checkbox"/> Oxidized rhizospheres/pore linings <input type="checkbox"/> Thin muck surfaces <input type="checkbox"/> Plants with air-filled tissue (aerenchyma) <input type="checkbox"/> Plants with polymorphic leaves <input type="checkbox"/> Plants with floating leaves <input type="checkbox"/> Hydrogen sulfide odor	<input type="checkbox"/> Hydrological records <input type="checkbox"/> Free water in a soil test hole <input type="checkbox"/> Saturated soil <input type="checkbox"/> Water marks <input type="checkbox"/> Moss trim lines <input type="checkbox"/> Presence of reduced iron <input type="checkbox"/> Woody plants with adventitious roots <input type="checkbox"/> Trees with shallow root systems <input type="checkbox"/> Woody plants with enlarged lenticels	<input type="checkbox"/> Direct observation of inundation <input type="checkbox"/> Drainage patterns <input type="checkbox"/> Drift lines <input type="checkbox"/> Scoured areas <input type="checkbox"/> Sediment deposits <input type="checkbox"/> Surface soil cracks <input type="checkbox"/> Sparsely vegetated concave surface <input type="checkbox"/> Microtopographic relief <input type="checkbox"/> Geographic position (depression, toe of slope, fringing lowland)
Remarks (describe recorded data from stream gauge, monitoring well, aerial photos, previous inspections, if available):		

This form is only for BVW delineations. Other wetland resource areas may be present and should be delineated according to the applicable regulatory provisions.

VEGETATION – Use both common and scientific names of plants.

<u>Tree Stratum</u>		Plot size <u>30' Radius</u>		Indicator Status	Absolute/ Relative % Cover	Dominant? (yes/no)	Wetland Indicator? (yes/no)
Common name*	Scientific name						
1. red maple	<i>Acer rubrum</i>	FAC	10/50	Yes	Yes		
2. red oak	<i>Quercus rubra</i>	FACU-	10/50	Yes	No		
3.							
4.							
5.							
6.							
7.							
8.							
9.							
				20 = Total Absolute Cover			
<u>Shrub/Sapling Stratum</u>		Plot size <u>15' Radius</u>		Indicator Status	Absolute/ Relative % Cover	Dominant? (yes/no)	Wetland Indicator? (yes/no)
Common name*	Scientific name						
1. witch hazel	<i>Hamamelis virginiana</i>	FAC-	80/89	Yes	No		
2. black birch	<i>Betula lenta</i>	FACU	10/11	No	No		
3.							
4.							
5.							
6.							
7.							
8.							
9.							
				90 = Total Absolute Cover			
<u>Herb Stratum</u>		Plot size <u>5' Radius</u>		Indicator Status	Absolute/ Relative % Cover	Dominant? (yes/no)	Wetland Indicator? (yes/no)
Common name*	Scientific name						
1. canada mayflower	<i>Maianthemum canadense</i>	FAC-	30/100	Yes	No		
2.							
3.							
4.							
5.							
6.							
7.							
8.							
9.							
10.							
11.							
12.							
				30 = Total Absolute Cover			

* 1988 Plant List

VEGETATION – continued.

<u>Woody Vine Stratum</u>		Plot size <u>30' Radius</u>			
Common name*	Scientific name	Indicator Status	Absolute/ Relative % Cover	Dominant? (yes/no)	Wetland Indicator? (yes/no)
1.					
2.					
3.					
4.					
			_____ = Total Absolute Cover		

* 1988 Plant List


Rapid Test: Do all dominant species have an indicator status of OBL or FACW?				Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>
Dominance Test:	Number of dominant species	Number of dominant species that are wetland indicator plants		Do wetland indicator plants make up ≥ 50% of dominant plant species?	
	4	1		Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	
Prevalence Index:		Total % Cover (all strata)	Multiply by:	Result	
	OBL species	0	X 1	= 0.0	
	FACW species	0	X 2	= 0.0	
	FAC species	120	X 3	= 360.0	
	FACU species	20	X 4	= 80.0	
	UPL species	0	X 5	= 0.0	
	Column Totals	(A) 140.0		(B) 440.0	
Prevalence Index		B/A = 3.1		Is the Prevalence Index ≤ 3.0?	
				Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	
Wetland vegetation criterion met? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>					

Definitions of Vegetation Strata

- Tree - Woody plants 3 in. (7.62 cm) or more in diameter at breast height (DBH), regardless of height
- Shrub / Sapling - Woody plants less than 3 in. (7.62 cm) DBH and greater than or equal to 3.3 ft. (1 m) tall
- Herb - All herbaceous (non-woody plants, regardless of size, and woody plants less than 3.3 ft. (1 m) tall
- Woody vines - All woody vines greater than 3.3 ft. (1 m) in height

Cover Ranges	
Range	Midpoint
1-5 %	3.0 %
6-15 %	10.5 %
15-25 %	20.5 %
26-50 %	38.0 %
51-75 %	63.0 %
76-95 %	85.5 %
96-100 %	98.0 %

SOIL

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators)								
Horizon/ Depth	Matrix		Redox Features				Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type ¹	Location ²		
Leaf Litter: 								
O: 1-0"								stony, fine sandy loam
A: 0-4"	10YR 2/2	100						stony, fine sandy loam
Bw: 4-15"	10YR 5/6	100						

¹Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains ²Location: PL=Pore Lining, M=Matrix

Hydric Soil Indicators (Check all that apply)				Indicators for Problematic Hydric Soils	
<input type="checkbox"/> Histosol (A1)	<input type="checkbox"/> Polyvalue Below Surface (S8)	<input type="checkbox"/> 2 cm Muck (A10)			
<input type="checkbox"/> Histic Epipedon (A2)	<input type="checkbox"/> Thin Dark Surface (S9)	<input type="checkbox"/> 5 cm Mucky Peat or Peat (S3)			
<input type="checkbox"/> Black Histic (A3)	<input type="checkbox"/> Loamy Mucky Mineral (F1)	<input type="checkbox"/> Dark Surface (S7)			
<input type="checkbox"/> Hydrogen Sulfide (A4)	<input type="checkbox"/> Loamy Gleyed Matrix (F2)	<input type="checkbox"/> Polyvalue Below Surface (S8)			
<input type="checkbox"/> Stratified Layers (A5)	<input type="checkbox"/> Depleted Matrix (F3)	<input type="checkbox"/> Thin Dark Surface (S9)			
<input type="checkbox"/> Depleted Below Dark Surface (A11)	<input type="checkbox"/> Redox Dark Surface (F7)	<input type="checkbox"/> Iron-Manganese Masses (F12)			
<input type="checkbox"/> Thick Dark Surface (A12)	<input type="checkbox"/> Depleted Dark Surface (F8)	<input type="checkbox"/> Mesic Spodic (A17)			
<input type="checkbox"/> Sandy Mucky Mineral (S1)		<input type="checkbox"/> Red Parent Material (F21)			
<input type="checkbox"/> Sandy Gleyed Matrix (S4)		<input type="checkbox"/> Very Shallow Dark Surface (TF12)			
<input type="checkbox"/> Sandy Redox (S5)		<input type="checkbox"/> Other (Include Explanation in Remarks)			
<input type="checkbox"/> Stripped Matrix (S6)					
<input type="checkbox"/> Dark Surface (S7)					

Restrictive Layer (if observed) Type: _____ Depth (inches): _____

Remarks:

Hydric Soils criterion met?

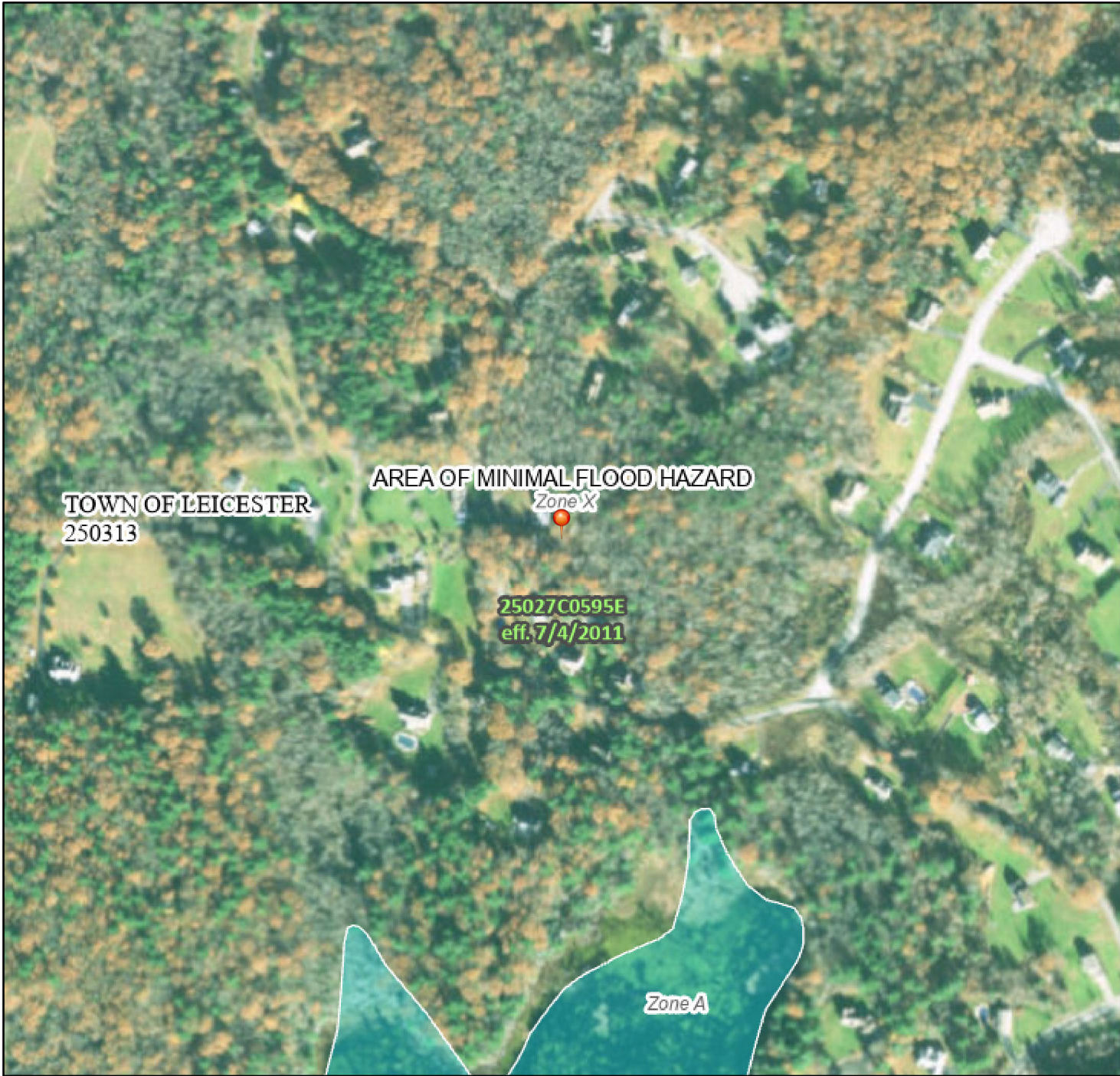
Yes ☐

No ☒

National Flood Hazard Layer FIRMMette



71°55'49"W 42°16'9"N



0 250 500 1,000 1,500 2,000 Feet 1:6,000
Basemap: USGS National Map: Orthoimagery: Data refreshed October, 2020

Legend

SEE FIS REPORT FOR DETAILED LEGEND AND INDEX MAP FOR FIRM PANEL LAYOUT

SPECIAL FLOOD HAZARD AREAS		Without Base Flood Elevation (BFE) Zone A, V, A99
		With BFE or Depth Zone AE, AO, AH, VE, AR
		Regulatory Floodway
OTHER AREAS OF FLOOD HAZARD		0.2% Annual Chance Flood Hazard, Areas of 1% annual chance flood with average depth less than one foot or with drainage areas of less than one square mile Zone X
		Future Conditions 1% Annual Chance Flood Hazard Zone X
		Area with Reduced Flood Risk due to Levee. See Notes. Zone X
		Area with Flood Risk due to Levee Zone D
OTHER AREAS		NO SCREEN Area of Minimal Flood Hazard Zone X
		Effective LOMRs
		Area of Undetermined Flood Hazard Zone D
GENERAL STRUCTURES		Channel, Culvert, or Storm Sewer
		Levee, Dike, or Floodwall
OTHER FEATURES		20.2 Cross Sections with 1% Annual Chance Water Surface Elevation
		17.5
		Coastal Transect
		Base Flood Elevation Line (BFE)
		Limit of Study
		Jurisdiction Boundary
MAP PANELS		Coastal Transect Baseline
		Profile Baseline
		Hydrographic Feature
MAP PANELS		Digital Data Available
		No Digital Data Available
		Unmapped

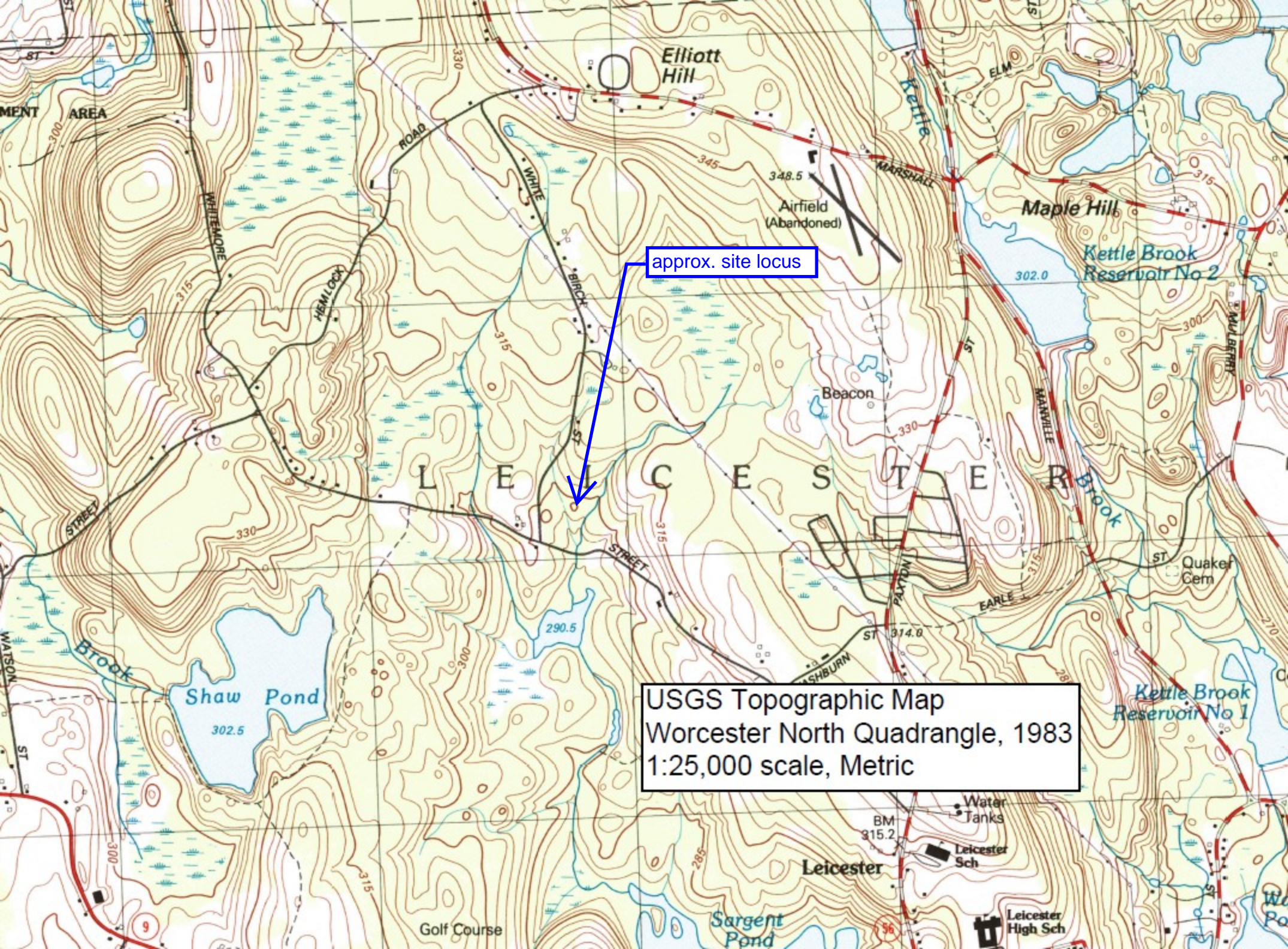


The pin displayed on the map is an approximate point selected by the user and does not represent an authoritative property location.

This map complies with FEMA's standards for the use of digital flood maps if it is not void as described below. The basemap shown complies with FEMA's basemap accuracy standards

The flood hazard information is derived directly from the authoritative NFHL web services provided by FEMA. This map was exported on 4/14/2023 at 12:14 PM and does not reflect changes or amendments subsequent to this date and time. The NFHL and effective information may change or become superseded by new data over time.

This map image is void if the one or more of the following map elements do not appear: basemap imagery, flood zone labels, legend, scale bar, map creation date, community identifiers, FIRM panel number, and FIRM effective date. Map images for unmapped and unmodernized areas cannot be used for regulatory purposes.

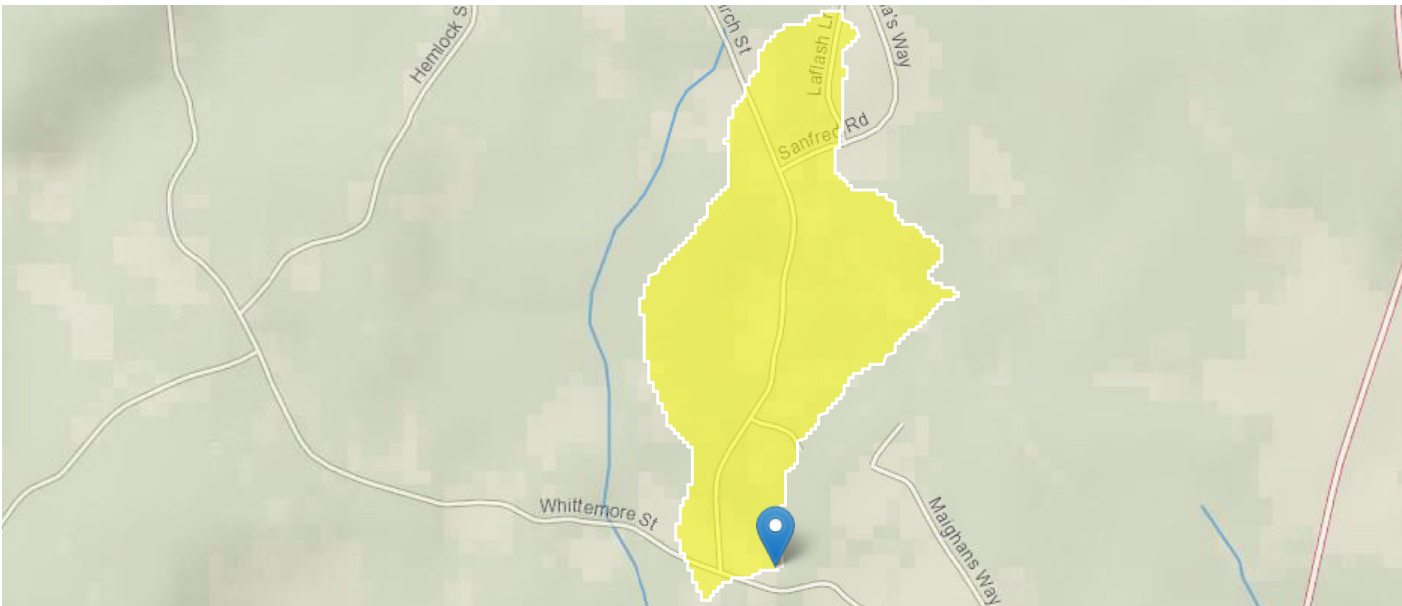


approx. site locus

USGS Topographic Map
Worcester North Quadrangle, 1983
1:25,000 scale, Metric

StreamStats Report

Region ID: MA
Workspace ID: MA20230414162004873000
Clicked Point (Latitude, Longitude): 42.26461, -71.92404
Time: 2023-04-14 12:21:20 -0400



+ Collapse All

Basin Characteristics

Parameter Code	Parameter Description	Value	Unit
DRNAREA	Area that drains to a point on a stream	0.19	square miles
FOREST	Percentage of area covered by forest	77.67	percent
MAREGION	Region of Massachusetts 0 for Eastern 1 for Western	0	dimensionless
PCTSDGRV	Percentage of land surface underlain by sand and gravel deposits	0	percent

Probability Statistics

Probability Statistics Parameters [Perennial Flow Probability]

Parameter Code	Parameter Name	Value	Units	Min Limit	Max Limit
DRNAREA	Drainage Area	0.19	square miles	0.01	1.99
PCTSDGRV	Percent Underlain By Sand And Gravel	0	percent	0	100
FOREST	Percent Forest	77.67	percent	0	100
MAREGION	Massachusetts Region	0	dimensionless	0	1

Probability Statistics Flow Report [Perennial Flow Probability]

PII: Prediction Interval-Lower, PIu: Prediction Interval-Upper, ASEp: Average Standard Error of Prediction, SE: Standard Error (other -- see report)

120 White Birch St., Leicester, NHESP



NHESP Priority Habitats of Rare Species



NHESP Estimated Habitats of Rare Wildlife



NHESP Certified Vernal Pools



Natural Heritage Atlas
Online Data Viewer, 15th
edition, valid August 1,
2021
created: 4/14/2023
120 White Birch St.,
Leicester

approx. site locus



EcoTec, Inc.

ENVIRONMENTAL CONSULTING SERVICES

102 Grove Street
Worcester, MA 01605-2629
508-752-9666 / Fax: 508-752-9494

Arthur Allen, CPSS, CWS, CESSWI
Vice President
Soil & Wetland Scientist

Arthur Allen is the Vice President of EcoTec, Inc. and has been a senior environmental scientist there since 1995. His work with EcoTec has involved wetland delineation, wildlife habitat evaluation, environmental permitting (federal, state and local), environmental monitoring, expert testimony, peer reviews, contaminated site assessment and the description, mapping and interpretation of soils. His clients have included private landowners, developers, major corporations and regulatory agencies. Prior to joining EcoTec, Mr. Allen mapped and interpreted soils in Franklin County, MA for the U.S.D.A. Natural Resources Conservation Service (formerly Soil Conservation Service) and was a research soil scientist at Harvard University's Harvard Forest. Since 1994, Mr. Allen has assisted the Massachusetts Department of Environmental Protection and the Massachusetts Association of Conservation Commissions as an instructor in the interpretation of soils for wetland delineation and for the Title V Soil Evaluator program.

Mr. Allen has a civil service rating as a soil scientist, an undergraduate degree in Natural Resource Studies and a graduate certificate in Soil Studies. His work on the Franklin County soil survey involved interpretation of landscape-soil-water relationships, classifying soils and drainage, and determining use and limitation of the soil units that he delineated. As a soil scientist at the Harvard Forest, Mr. Allen was involved in identifying the legacies of historical land-use in modern soil and vegetation at a number of study sites across southern New England. He has a working knowledge of the chemical and physical properties of soil and water and how these properties interact with the plants that grow on a given site. While at Harvard Forest he authored and presented several papers describing his research results which were later published. In addition to his aforementioned experience, Mr. Allen was previously employed by the Trustees of Reservations as a land manager and by the Town of North Andover, MA as a conservation commission intern.

Education:

1993-Graduate Certificate in Soil Studies, University of New Hampshire
1982-Bachelor of Science in Natural Resource Studies, University of Massachusetts

Professional Affiliations:

Certified Professional Soil Scientist (ARCPACS CPSS #22529)
New Hampshire Certified Wetland Scientist (#19)
Registered Professional Soil Scientist – Society of Soil Scientists of SNE [Board Member (2000-2006)]
Certified Erosion, Sediment & Stormwater Inspector (#965)
Massachusetts Approved Soil Evaluator (#13764)
Massachusetts Arborists Association-Certified Arborist (1982 – 1998)
New England Hydric Soils Technical Committee member
Massachusetts Association of Conservation Commissions member
Society of Wetland Scientists member

Refereed Publications:

Soil Science and Survey at Harvard Forest. A.Allen. In: Soil Survey Horizons. Vol. 36, No. 4, 1995, pp. 133-142.
Controlling Site to Evaluate History: Vegetation Patterns of a New England Sand Plain. G.Motzkin, D.Foster, A.Allen, J.Harrold, & R.Boone. In: Ecological Monographs 66(3), 1996, pp. 345-365.
Vegetation Patterns in Heterogeneous Landscapes: The Importance of History and Environment. G.Motzkin, P.Wilson, D.R.Foster & A.Allen. In: Journal of Vegetation Science 10, 1999, pp. 903-920.

EcoTec, Inc.

ENVIRONMENTAL CONSULTING SERVICES

102 Grove Street
Worcester, MA 01605-2629
508-752-9666 – Fax: 508-752-9494

Kate O'Donnell, WPIT Environmental Scientist

Kate O'Donnell is an Environmental Scientist at EcoTec, Inc. Since joining EcoTec in June of 2021, her project experience includes wetland resource evaluation and delineation, as well as environmental permitting at the local, state, and federal level. She received certification as a Wetland Professional In Training (WPIT) from the International Society of Wetland Scientists (SWS) in September of 2021. Additionally, Ms. O'Donnell has experience in turbidity and erosion control monitoring, salinity sampling, wildlife habitat evaluation, stream evaluation, vernal pool evaluation and certification, preconstruction sweeps for rare species including the eastern box turtle, Stormwater Pollution Prevention Plan (SWPPP) preparation, Turtle Protection Plan preparation, Massachusetts Endangered Species Act (MESA) Project Review Checklists, and Massachusetts Environmental Policy Act (MEPA) documentation. Prior to starting at EcoTec, Ms. O'Donnell was a student at the College of the Holy Cross, where she received degrees in Biology and Environmental Studies. Her educational background includes with extensive coursework in ecology and environmental science, as well as courses in geoscience, biology, chemistry, and environmental law. During her time at Holy Cross, she conducted hydrologic and water quality research to investigate the impacts of road salt on the salinity of the Middle River in Worcester, MA.

Education:

Bachelor of Arts in Biology (Ecology emphasis) and Bachelor of Arts in Environmental Studies, College of the Holy Cross, 2021

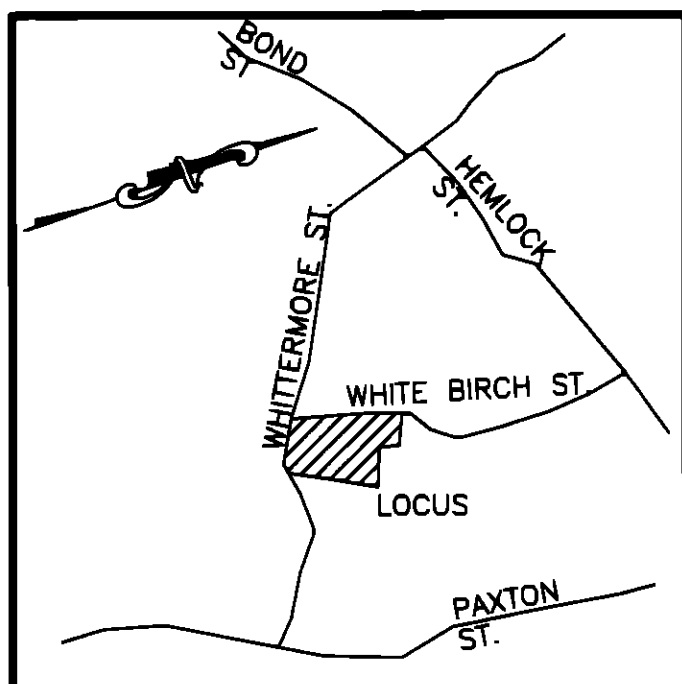
Professional Affiliations:

Society of Wetland Scientists
Massachusetts Association of Conservation Commissioners

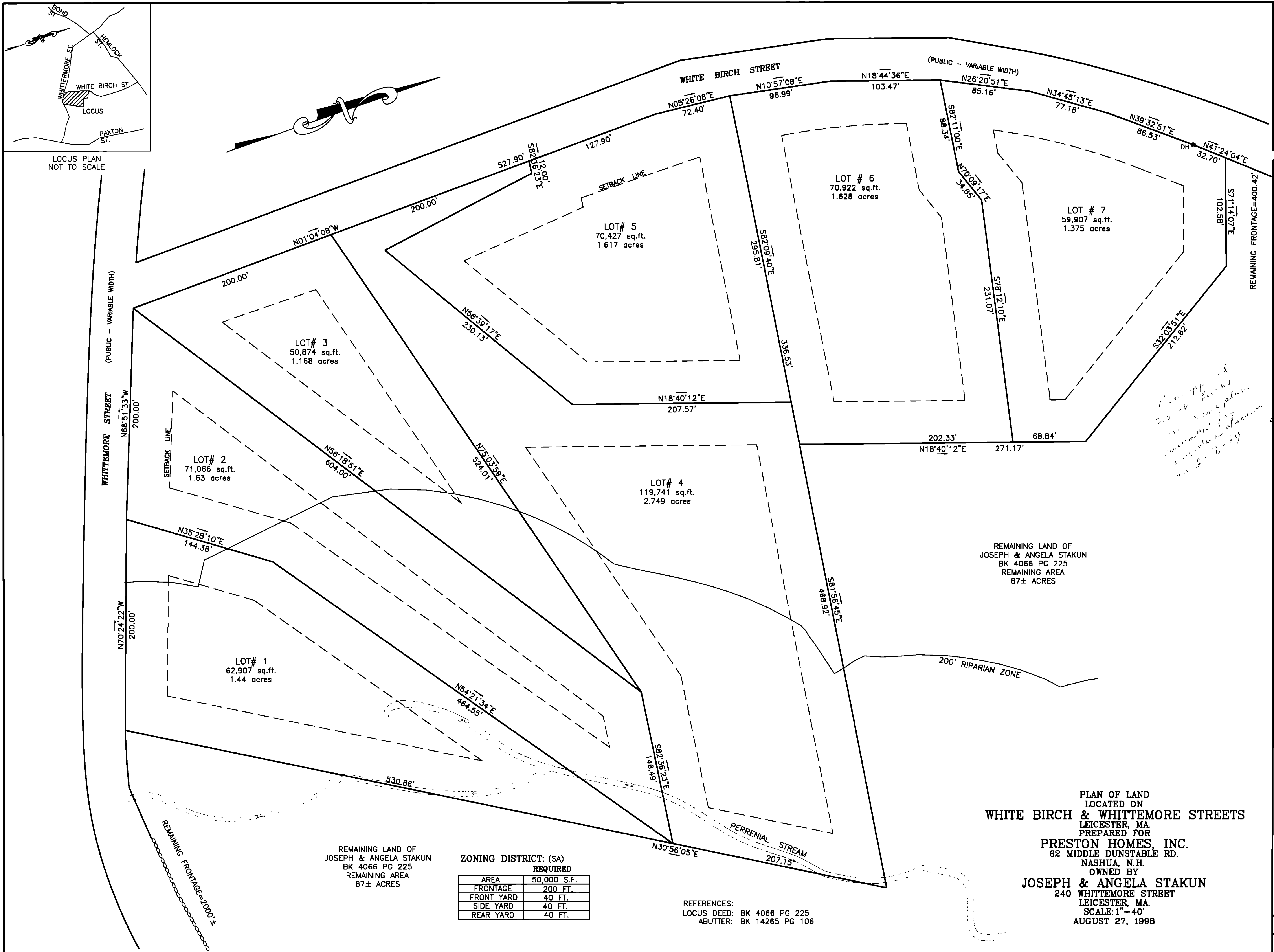
Certifications:

Society of Wetland Scientists Wetland Professional In Training
EPA Construction General Permit Site Inspector Certification

MAPS AND PLANS



LOCUS PLAN
NOT TO SCALE



REMAINING LAND OF
JOSEPH & ANGELA STAKUN
BK 4066 PG 225
REMAINING AREA
87± ACRES

ZONING DISTRICT: (SA)

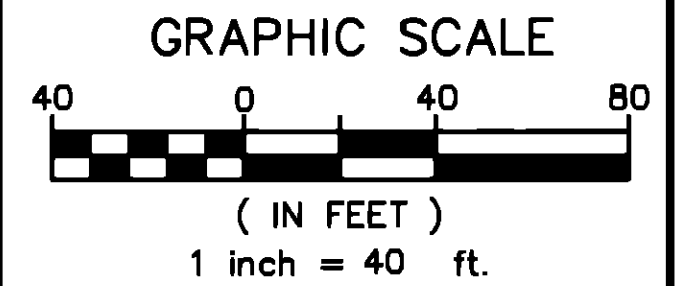
	REQUIRED
AREA	50,000 S.F.
FRONTAGE	200 FT.
FRONT YARD	40 FT.
SIDE YARD	40 FT.
REAR YARD	40 FT.

REFERENCES:
LOCUS DEED: BK 4066 PG 225
ABUTTER: BK 14265 PG 106

PLAN OF LAND
LOCATED ON
WHITE BIRCH & WHITEMORE STREETS
LEICESTER, MA
PREPARED FOR
PRESTON HOMES, INC.
62 MIDDLE DUNSTABLE RD.
NASHUA, N.H.
OWNED BY
JOSEPH & ANGELA STAKUN
240 WHITEMORE STREET
LEICESTER, MA
SCALE: 1"=40'
AUGUST 27, 1998

741
5-13-98
25
5280

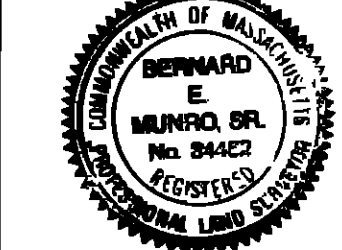
FOR REGISTRY OF DEEDS USE ONLY



APPROVAL UNDER THE SUBDIVISION
CONTROL LAW PER CHAPTER 41,
SECTIONS 81-P AND 81-L
OF MASSACHUSETTS LAWS
NOT REQUIRED
LEICESTER
PLANNING BOARD

Daphne R. Friedman
Michael J. Ward
Thomas P. Payson
DATE: 2-16-99

I CERTIFY THAT THE PREPARATION
OF THIS PLAN CONFORMS TO THE
RULES AND REGULATIONS OF THE
REGISTER OF DEEDS.



Bernard E. Munro, Sr. DATE: 2/16/99
BERNARD E. MUNRO, SR.
P.L.S. #34482

	INT.	DATE
FIELD BY:	PH	
FIELD BOOK	#	PG#
DESIGNED BY:	MC	
CALCS BY:	LEV	8/27/98
DRAWN BY:	COMP	8/14/98
CHECKED BY:		

LAND PLANNING, INC.
Civil Engineers • Land Surveyors
Environmental Consultants

BELLINGHAM
187 HARTFORD AVE 02019
(508) 968-4130

GRAFTON
214 WORCESTER ST.
(ROUTE 122) 01536
(508) 839-9528

HANSON
1115 MAIN STREET 02341
(781) 294-4144

HOLDEN
PO BOX 844 01520-0844
(508) 829-3006

DATE
AUG. 27, 1998
JOB NO.
G 5199

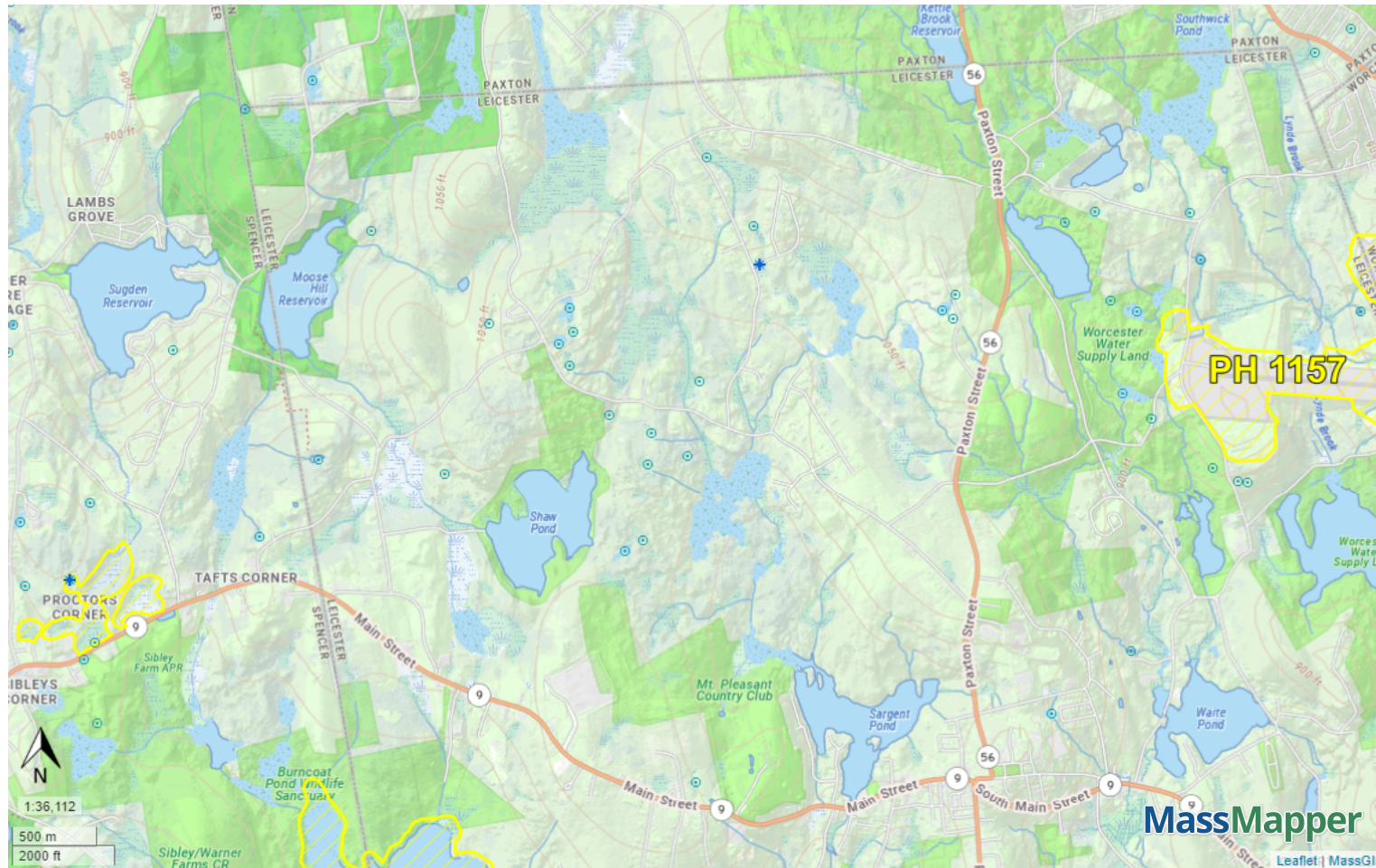
SHEET NO.

USGS



USGS Topographic Maps
Property Tax Parcels

NHESP



NHESP Certified Vernal Pools



Potential Vernal Pools



NHESP Priority Habitats of Rare Species



NHESP Estimated Habitats of Rare Wildlife

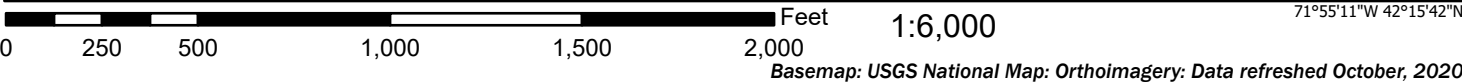


Property Tax Parcels

National Flood Hazard Layer FIRMMette



71°55'49"W 42°16'9"N



Legend

SEE FIS REPORT FOR DETAILED LEGEND AND INDEX MAP FOR FIRM PANEL LAYOUT

SPECIAL FLOOD HAZARD AREAS		Without Base Flood Elevation (BFE) Zone A, V, A99
		With BFE or Depth Zone AE, AO, AH, VE, AR
		Regulatory Floodway
OTHER AREAS OF FLOOD HAZARD		0.2% Annual Chance Flood Hazard, Areas of 1% annual chance flood with average depth less than one foot or with drainage areas of less than one square mile Zone X
		Future Conditions 1% Annual Chance Flood Hazard Zone X
		Area with Reduced Flood Risk due to Levee. See Notes. Zone X
		Area with Flood Risk due to Levee Zone D
OTHER AREAS		NO SCREEN Area of Minimal Flood Hazard Zone X
		Effective LOMRs
		Area of Undetermined Flood Hazard Zone D
GENERAL STRUCTURES		Channel, Culvert, or Storm Sewer
		Levee, Dike, or Floodwall
OTHER FEATURES		20.2 Cross Sections with 1% Annual Chance Water Surface Elevation
		17.5 Cross Sections with 1% Annual Chance Water Surface Elevation
		Coastal Transect
		Base Flood Elevation Line (BFE)
		Limit of Study
		Jurisdiction Boundary
MAP PANELS		Coastal Transect Baseline
		Profile Baseline
		Hydrographic Feature
MAP PANELS		Digital Data Available
		No Digital Data Available
		Unmapped

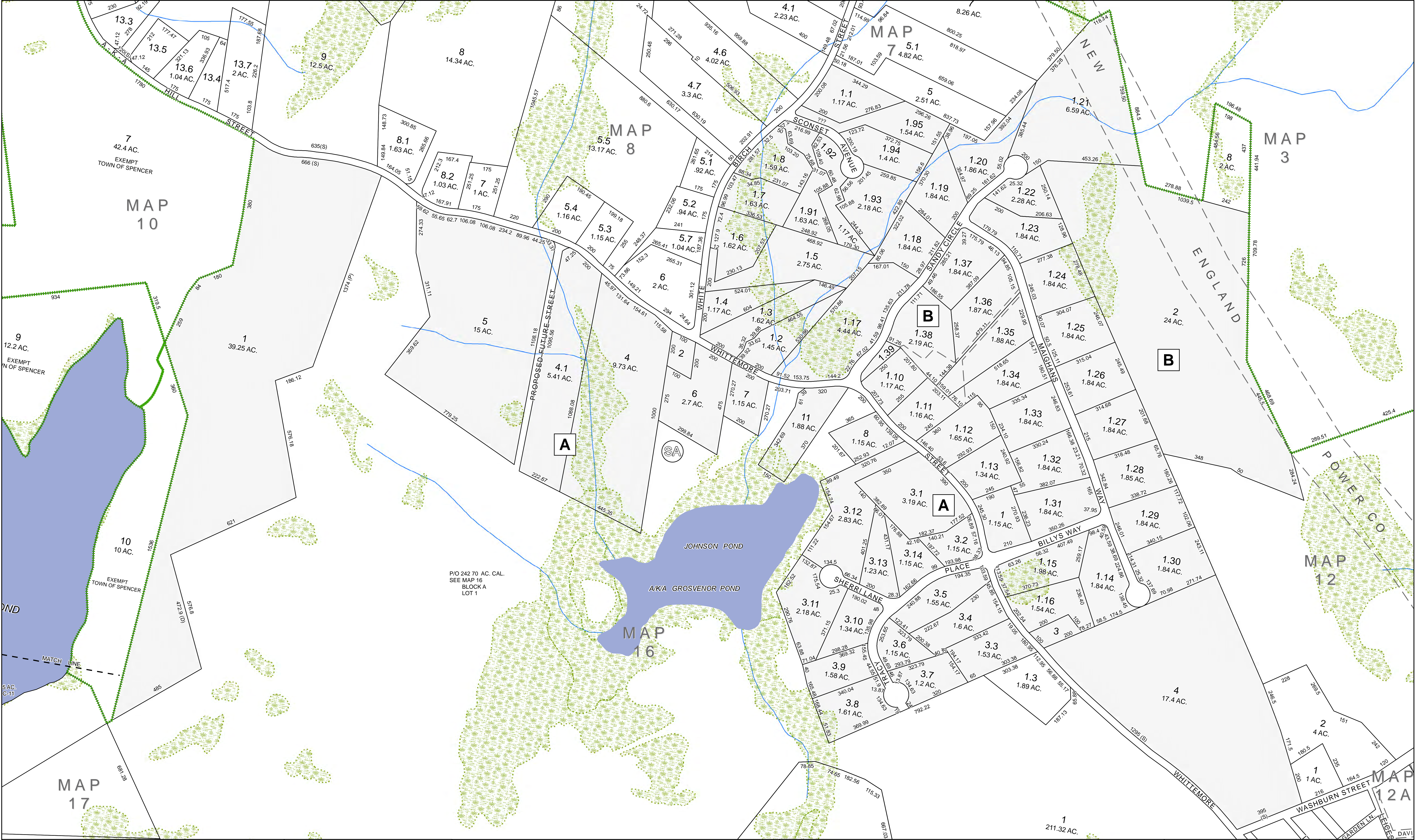


The pin displayed on the map is an approximate point selected by the user and does not represent an authoritative property location.

This map complies with FEMA's standards for the use of digital flood maps if it is not void as described below. The basemap shown complies with FEMA's basemap accuracy standards

The flood hazard information is derived directly from the authoritative NFHL web services provided by FEMA. This map was exported on 5/23/2023 at 1:57 PM and does not reflect changes or amendments subsequent to this date and time. The NFHL and effective information may change or become superseded by new data over time.

This map image is void if the one or more of the following map elements do not appear: basemap imagery, flood zone labels, legend, scale bar, map creation date, community identifiers, FIRM panel number, and FIRM effective date. Map images for unmapped and unmodernized areas cannot be used for regulatory purposes.




FOR TAX PURPOSES ONLY

THIS MAP IS FOR ASSESSMENT PURPOSES. IT IS NOT TO BE USED FOR LEGAL DESCRIPTION OR CONVEYANCE.

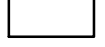
THE HORIZONTAL DATUM IS THE MASSACHUSETTS STATE PLANE COORDINATE SYSTEM, NAD 83


PRODUCED IN 2014 BY



Central Massachusetts Regional Planning Commission

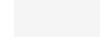
2 WASHINGTON SQUARE, UNION STATION
WORCESTER, MA 01604

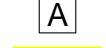
LEGEND


 PROPERTY LINES


 EASEMENTS


 EXEMPT PROPERTY


 MAP FOCUS


 BLOCK LETTER


 TOWN BOUNDARY

 WATER

 STREAMS

 WETLANDS


 RAILROAD


 ZONING DISTRICTS

TOWN OF LEICESTER

BOARD OF ASSESSORS

LEICESTER, MASS.


REVISED TO: JANUARY 1, 2014

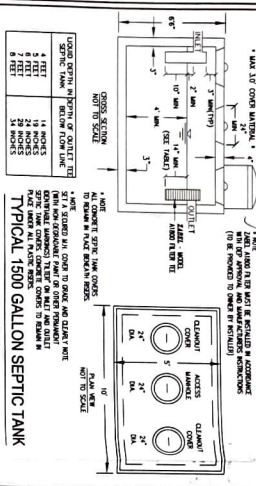
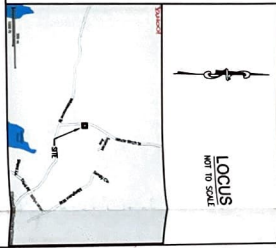
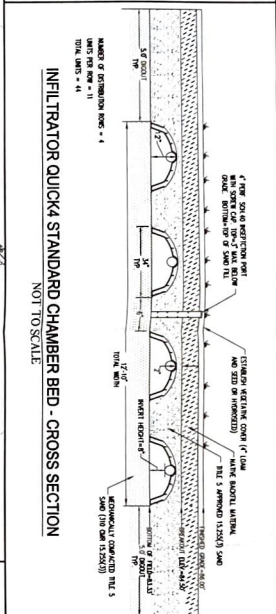
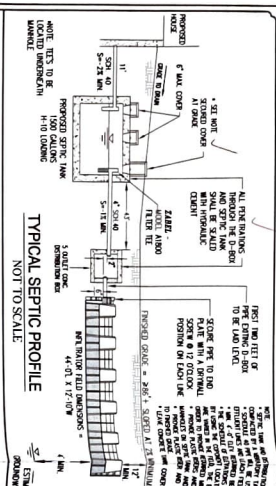


MAP NO.

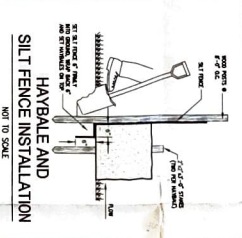
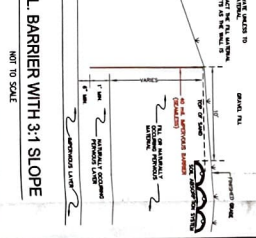
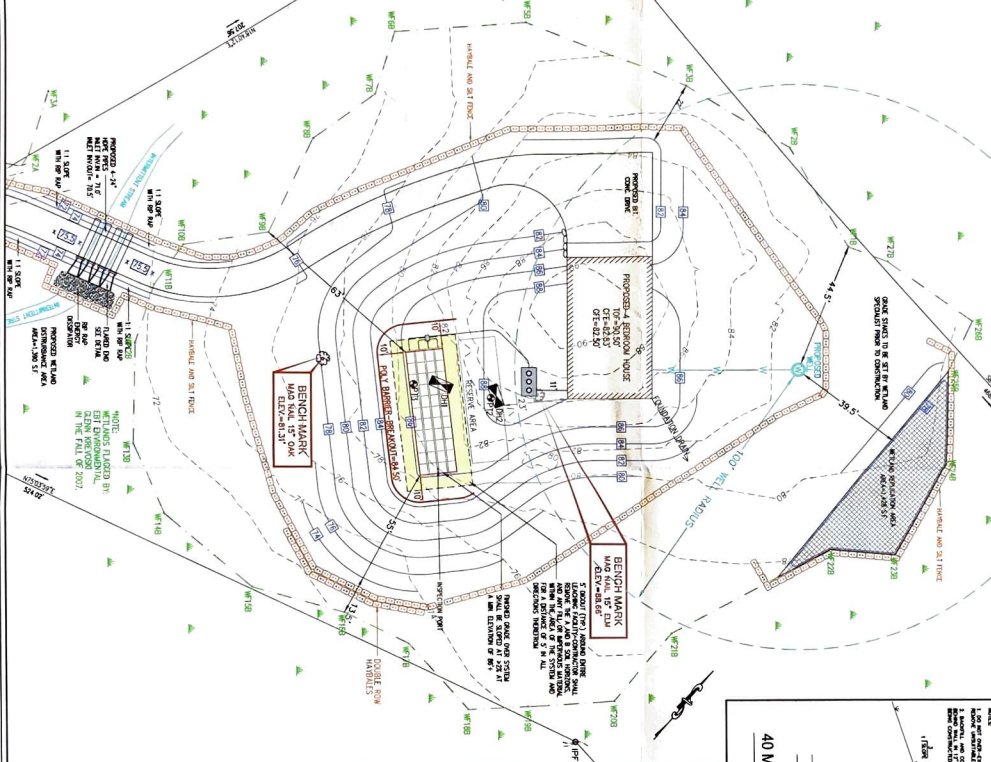
011

SCALE 1 in = 200 feet

Date: 7/31/2014 Path: H:\Projects\O_Leicester_GIS\Leicester_Assessor_Maps_26x36.mxd

[illegible][illegible]

DEEP HOLE #1		DEEP HOLE #2	
<p>DESIGNED BY: J. J. HANCOCK ENGINEERED BY: GAIL KENNEDY DATE: FEBRUARY 22, 1999</p>		<p>DESIGNED BY: J. J. HANCOCK ENGINEERED BY: GAIL KENNEDY DATE: FEBRUARY 24, 1999</p>	
TYPE: TEST 1	1.5 m	TYPE: TEST 1	1.5 m
Q (TENSILE)	1.0 kN/m ²	Q (TENSILE)	1.0 kN/m ²
A (CROSS-SECTIONAL AREA)	0.00785 m ²	A (CROSS-SECTIONAL AREA)	0.00785 m ²
W (WATER)	0.0000 m ³	W (WATER)	0.0000 m ³
C (28-DAY)	2.28 x 10 ⁶ N	C (28-DAY)	2.28 x 10 ⁶ N
WATER: 1.37 m (4' 6") / 12500 kN		WATER: 1.37 m (4' 6") / 12500 kN	
WATER: 1.37 m (4' 6") / 12500 kN		WATER: 1.37 m (4' 6") / 12500 kN	
WATER: 1.37 m (4' 6") / 12500 kN		WATER: 1.37 m (4' 6") / 12500 kN	

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NO. _____
REVISED PER COMMENTS FROM A. WELLSER, PD, DATED 3/21/2004
REVISION _____
DATE 5/17/2004

COYLE ENGINEERING, INC.
PROFESSIONAL CIVIL ENGINEERS

19 SOUTH MAIN STREET
LITCHFIELD, MASSACHUSETTS 01524
PHONE: 508-907-0298 FAX: 508-907-0277

PLAN OF SUBSURFACE SEWAGE SYSTEM DESIGN

IN
LEICESTER, MASSACHUSETTS

BOARD OF HEALTH
TOWN OF LEICESTER, MASS.
With Approval: *5-14-08*

Feim
is good
10-13
2200

PREPARED FOR: CHRISTOPHER MONTGOMERY
PROPERTY ADDRESS: 120 WHITE BIRCH ST.
LEICESTER, MA 01545
ASSESSOR'S REFERENCE: BOOK 2225, PAGE 46
DEED REFERENCE: BOOK 141, PAGE 44
RECORD PLAN: JANUARY 30, 2008
DATE:

GRAPHIC SCALE: 1" = 20 FEET

APPLICANT: CHRISTOPHER MONTGOMERY
20 MAIN LANE
LEICESTER, MA 01545

ENGINEER: CIVIL ENGINEERING, INC.
1000 STATE STREET
LEICESTER, MA 01545

SEPTIC DESIGN

DESIGNED BY: DUC

DRAWN BY: DUC

CHECKED BY: MCK

RECEIVED
MAY 13 2008
LEICESTER, MASS.

MASSACHUSETTS
NOTARY PUBLIC
JULIAN A. GONTE, JR. # J 31003
NOTARY PUBLIC
JULIAN A. GONTE, JR. # J 31003

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CERTIFIED ABUTTERS LIST AND DRAFT ABUTTER NOTIFICATION



300 foot Abutters List Report

Leicester, MA

May 03, 2023

Subject Property:

Parcel Number: 11-B1.5-0
CAMA Number: 11-B1.5-0
Property Address: 120 WHITE BIRCH ST

Mailing Address: GONZALEZ JOSEPH GONZALEZ
KATRINA R
48 CAMP RD
PAXTON, MA 01612

Abutters:

Parcel Number: 11-A11-0
CAMA Number: 11-A11-0
Property Address: 487 WHITTEMORE ST

Mailing Address: VARNEY MATTHEW S
487 WHITTEMORE ST
LEICESTER, MA 01524

Parcel Number: 11-A2-0
CAMA Number: 11-A2-0
Property Address: 495 WHITTEMORE ST

Mailing Address: SLACK BRIAN SLACK ERIN
495 WHITTEMORE ST
LEICESTER, MA 01524

Parcel Number: 11-A4.1-0
CAMA Number: 11-A4.1-0
Property Address: WHITTEMORE ST

Mailing Address: JOHNSON MICHAEL TRUSTEE
JOHNSON FAMILY IRREVOCABLE TR
140 WHITTEMORE ST
LEICESTER, MA 01524

Parcel Number: 11-A4-0
CAMA Number: 11-A4-0
Property Address: 497 WHITTEMORE ST

Mailing Address: LIZEWSKI MELISSA A LIZEWSKI
CHRISTOPHER
497 WHITTEMORE ST
LEICESTER, MA 01524

Parcel Number: 11-A6-0
CAMA Number: 11-A6-0
Property Address: 493 WHITTEMORE ST

Mailing Address: TEBO JEFFREY P TEBO SHARON M
493 WHITTEMORE ST
LEICESTER, MA 01524

Parcel Number: 11-A7-0
CAMA Number: 11-A7-0
Property Address: 491 WHITTEMORE ST

Mailing Address: FERRANTINO JOSEPH A FERRANTINO
ELENA
491 WHITTEMORE ST
LEICESTER, MA 01524-1035

Parcel Number: 11-B1.10-0
CAMA Number: 11-B1.10-0
Property Address: 486 WHITTEMORE ST

Mailing Address: SKOGLUND ERIC N SKOGLUND
CHRISTINE D
486 WHITTEMORE ST
LEICESTER, MA 01524

Parcel Number: 11-B1.17-0
CAMA Number: 11-B1.17-0
Property Address: 1 SANDY CR

Mailing Address: DOLIMONT PETER L DOLIMONT
BETHANY J
1 SANDY CIRCLE
LEICESTER, MA 01524

Parcel Number: 11-B1.18-0
CAMA Number: 11-B1.18-0
Property Address: 3 SANDY CR

Mailing Address: RINDFLEISCH SCOTT M RINDFLEISCH
ELIZABETH A
3 SANDY CR
LEICESTER, MA 01524

Parcel Number: 11-B1.19-0
CAMA Number: 11-B1.19-0
Property Address: 5 SANDY CR

Mailing Address: MASTERSON LYNNE
5 SANDY CIRCLE
LEICESTER, MA 01524



300 foot Abutters List Report

Leicester, MA

May 03, 2023

Parcel Number: 11-B1.2-0
CAMA Number: 11-B1.2-0
Property Address: 492 WHITTEMORE ST

Mailing Address: ROMAN RAMON L III
492 WHITTEMORE STREET
LEICESTER, MA 01524

Parcel Number: 11-B1.3-0
CAMA Number: 11-B1.3-0
Property Address: 494 WHITTEMORE ST

Mailing Address: TROTTIER BRIAN P TROTTIER NANCY E
494 WHITTEMORE STREET
LEICESTER, MA 01524-1838

Parcel Number: 11-B1.37-0
CAMA Number: 11-B1.37-0
Property Address: 17 MAIGHAN'S WY

Mailing Address: GASIEWSKI STANISLAW MIKULSKA
ELZBIETA
17 MAIGHANS WAY
LEICESTER, MA 01524

Parcel Number: 11-B1.38-0
CAMA Number: 11-B1.38-0
Property Address: 2 SANDY CR

Mailing Address: STASIEWICZ MARIUSZ STASIEWICZ
DANUTA
2 SANDY CIRCLE
LEICESTER, MA 01524

Parcel Number: 11-B1.39-0
CAMA Number: 11-B1.39-0
Property Address: SANDY CR

Mailing Address: LAFLASH SANDRA
21 WEST STREET
CHERRY VALLEY, MA 01611

Parcel Number: 11-B1.4-0
CAMA Number: 11-B1.4-0
Property Address: 118 WHITE BIRCH ST

Mailing Address: ROWELL IRREV TRUST ROWELL
DANIEL D PHILLIP R
118 WHITE BIRCH ST
LEICESTER, MA 01524

Parcel Number: 11-B1.6-0
CAMA Number: 11-B1.6-0
Property Address: 122 WHITE BIRCH ST

Mailing Address: MISSIEWICZ WILLIAM T
122 WHITE BIRCH STREET
LEICESTER, MA 01524

Parcel Number: 11-B1.7-0
CAMA Number: 11-B1.7-0
Property Address: 124 WHITE BIRCH ST

Mailing Address: POLTORAK JONATHAN POLTORAK
VIRGINIA
124 WHITE BIRCH ST
LEICESTER, MA 01524

Parcel Number: 11-B1.8-0
CAMA Number: 11-B1.8-0
Property Address: 126 WHITE BIRCH ST

Mailing Address: HESSELTON KEVIN A HESSELTON AMY
L
126 WHITE BIRCH STREET
LEICESTER, MA 01524

Parcel Number: 11-B1.91-0
CAMA Number: 11-B1.91-0
Property Address: 2 SCONSET AV

Mailing Address: LEHMAN BRADLEY LEHMAN
KATHERINE E
2 SCONSET AVENUE
LEICESTER, MA 01524

Parcel Number: 11-B1.92-0
CAMA Number: 11-B1.92-0
Property Address: 4 SCONSET AV

Mailing Address: GAHAGAN JOHN J GAHAGAN PATRICIA
A
4 SCONSET AVENUE
LEICESTER, MA 01524

Parcel Number: 11-B1.93-0
CAMA Number: 11-B1.93-0
Property Address: 5 SCONSET AV

Mailing Address: FONTAINE TIMOTHY M FONTAINE
CATHERINE M
5 SCONSET AVENUE
LEICESTER, MA 01524



300 foot Abutters List Report

Leicester, MA

May 03, 2023

Parcel Number: 11-B1.94-0
CAMA Number: 11-B1.94-0
Property Address: 3 SCONSET AV

Mailing Address: MARC-AURELE ANDREW P
3 SCONSET AVE
LEICESTER, MA 01524

Parcel Number: 16-A1-0
CAMA Number: 16-A1-0
Property Address: WHITTEMORE ST

Mailing Address: JOHNSON MICHAEL TRUST JOHNSON
FAMILY IRREVOCABLE TR
140 WHITTEMORE ST
LEICESTER, MA 01524

Parcel Number: 8-A5.1-0
CAMA Number: 8-A5.1-0
Property Address: 123 WHITE BIRCH ST

Mailing Address: BURTT TR KEITH E BURTT FAMILY IRR
TR-2021
123 WHITE BIRCH STREET
LEICESTER, MA 01524

Parcel Number: 8-A5.2-0
CAMA Number: 8-A5.2-0
Property Address: 121 WHITE BIRCH ST

Mailing Address: MISSIEWICZ JOHN M MISSIEWICZ
SHARON M
PO BOX 461
LEICESTER, MA 01524

Parcel Number: 8-A5.3-0
CAMA Number: 8-A5.3-0
Property Address: 502 WHITTEMORE ST

Mailing Address: PIKE ROBERT E PIKE KRISTEN J
502 WHITTEMORE ST
LEICESTER, MA 01524

Parcel Number: 8-A5.4-0
CAMA Number: 8-A5.4-0
Property Address: 504 WHITTEMORE ST

Mailing Address: SHEA JAMES S SHEA BETH A
504 WHITTEMORE ST
LEICESTER, MA 01524

Parcel Number: 8-A5.5-0
CAMA Number: 8-A5.5-0
Property Address: 500 WHITTEMORE ST

Mailing Address: SLIWOSKI STEVEN J SLIWOSKI ELLEN
M
500 WHITTEMORE ST
LEICESTER, MA 01524

Parcel Number: 8-A5.7-0
CAMA Number: 8-A5.7-0
Property Address: 119 WHITE BIRCH ST

Mailing Address: ESCOBAR CARLOS J ESCOBAR
KATHLEEN M
119 WHITE BIRCH STREET
LEICESTER, MA. 01524

Parcel Number: 8-A6-0
CAMA Number: 8-A6-0
Property Address: 496 WHITTEMORE ST

Mailing Address: VIEIRA ANTONIO III VIEIRA KATHERINE
ELIZABETH
496 WHITTEMORE ST
LEICESTER, MA 01524-1838

Above is a certified list of abutters and abutters to abutters within 300 feet including across any street or body of water.

Subject property: 120 White Birch St, Assessors Map 11-B.5 Deed Ref. 69018 / 336
Subject owner(s): Paul and Lauren Blanchard

Linda Berisha, Principal Assessor
Prepared by: Sarah Morin, Department Assistant

**NOTIFICATION TO ABUTTERS UNDER THE
MASSACHUSETTS WETLANDS PROTECTION ACT**

In accordance with the second paragraph of Massachusetts General Laws Chapter 131, Section 40, you are hereby notified of the following:

- A. The name of the Applicant is **Paul Blanchard Jr. & Lauren Blanchard**.
- B. The Applicant has filed a **Notice of Intent (NOI)** with the **Leicester Conservation Commission**, seeking review and approval under the Wetlands Protection Act (MGL c. 31 s. 40) for:
- C. The address of the lot where the activity is proposed is **120 White Birch Street, Leicester, MA**. (Parcel 11-B1.5-0).
- D. Copies of the **NOI** may be examined at the **Leicester Town Hall at the Conservation Commission Office** during regular business hours. For more information call (508) 892-7007.
- E. Copies of the **NOI** may be obtained from the Applicant's representative by written request. Applicant's representative: **McClure Engineering, Inc. (508) 248-2005** between the hours of 9:00 a.m. – 4:00 p.m., Monday through Friday.
- F. **PUBLIC HEARING:** Information regarding the date, time and place of the public hearing may be obtained by calling the **Conservation Commission office at (508) 892-7007** or the Town Clerk's office for any posted meetings.
- G. Person sending this notification (applicant, representative or other)
Applicant's Representative:
McClure Engineering, Inc.
119 Worcester Road
Charlton, MA 01507
(508) 248-2005

NOTE: Notice of the public hearing, including date, time and place, will be published at least five (5) days in advance in the Worcester Telegram & Gazette or other local newspaper.

NOTE: Notice of the public hearing, including date, time and place will be posted in the Town Hall not less than forty-eight hours in advance.

NOTE: You may also contact the Central Regional Office of the Department of Environmental Protection for more information about this application or the Wetlands Protection Act by calling (508) 792-7650.