

# Notice of Intent Application Noannet & Storrow Ponds Aquatic Management Program

Westwood, MA

April-May 2016

***Prepared for:***

Eric Arnold  
Hale Reservation  
80 Carby Street  
Westwood, MA 02090

***Prepared by:***

SOLitude Lake Management  
590 Lake Street  
Shrewsbury, MA 01545



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# 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

Westwood

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):

Noannet Pond and Storrow Pond; Hale Reservation	Westwood	02090
a. Street Address	b. City/Town	c. Zip Code
Latitude and Longitude:	42.2341°	71.2280°
	d. Latitude	e. Longitude
4/1	134	
f. Assessors Map/Plat Number	g. Parcel /Lot Number	

### 2. Applicant:

Eric	Arnold	
a. First Name	b. Last Name	
Hale Reservation		
c. Organization		
80 Carby Street		
d. Street Address		
Westwood	MA	02090
e. City/Town	f. State	g. Zip Code
781-356-1770	earnold@halereservation.org	
h. Phone Number	j. Email Address	
i. Fax Number		

### 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):

Collin	Gosselin	
a. First Name	b. Last Name	
Solitude Lake Management		
c. Company		
590 Lake Street		
d. Street Address		
Shrewsbury	MA	01545
e. City/Town	f. State	g. Zip Code
508-865-1000	CGosselin@solitudelake.com	
h. Phone Number	j. Email address	
i. Fax Number		

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

\$500.00	\$237.50	\$262.50
a. Total Fee Paid	b. State Fee Paid	c. City/Town Fee Paid



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## A. General Information (continued)

### 6. General Project Description:

The applicant is seeking an Order of Conditions for an Aquatic Management Program at Noannet and Storrow Ponds to control nuisance plant growth, utilizing treatment with USEPA/MA registered aquatic herbicides, algacides, and other BMP's (See attached Project Description)

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

- |   |   |
|---|---|
| 1. <input 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 checked="" 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(4) Controlling nuisance vegetation and improving the natural capacity of a resource area to protect the interests of the WPA
2. Limited Project Type

If the proposed activity is eligible to be treated as an Ecological Restoration Limited Project (310 CMR 10.24(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:

a. County

b. Certificate # (if registered land)

c. Book

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.



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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 type="checkbox"/> Bordering Vegetated Wetland	1. square feet _____ 2,178,000	2. square feet _____
c. <input checked="" 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.  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: \_\_\_\_\_ square feet
  4. Proposed alteration of the Riverfront Area:
 

a. total square feet _____	b. square feet within 100 ft. _____	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.

Resource Area	Size of Proposed Alteration	Proposed Replacement (if any)
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

\_\_\_\_\_

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](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**

- 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 <http://www.mass.gov/eea/agencies/dfg/dfw/natural-heritage/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 [http://www.mass.gov/dfwele/dfw/nhesp/regulatory\\_review/ mesa/ mesa\\_fee\\_schedule.htm](http://www.mass.gov/dfwele/dfw/nhesp/regulatory_review/ mesa/ mesa_fee_schedule.htm)).  
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, [http://www.mass.gov/dfwele/dfw/nhesp/regulatory\\_review/ mesa/ mesa\\_exemptions.htm](http://www.mass.gov/dfwele/dfw/nhesp/regulatory_review/ mesa/ mesa_exemptions.htm); 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  
1213 Purchase Street – 3rd Floor  
New Bedford, MA 02740-6694  
Email: [DMF.EnvReview-South@state.ma.us](mailto:DMF.EnvReview-South@state.ma.us)

Division of Marine Fisheries -  
North Shore Office  
Attn: Environmental Reviewer  
30 Emerson Avenue  
Gloucester, MA 01930  
Email: [DMF.EnvReview-North@state.ma.us](mailto:DMF.EnvReview-North@state.ma.us)

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.



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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.



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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.

Project description and supporting figures

a. Plan Title

b. Prepared By

c. Signed and Stamped by

d. Final Revision Date

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:

7205

4/12/17

2. Municipal Check Number

3. Check date

7206

4/12/17

4. State Check Number

5. Check date

SOLitude Lake Management

6. Payor name on check: First Name

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	4/12/2017 2. Date
 3. Signature of Property Owner (if different)	4/14/17 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.





# WPA Form 3 – Notice of Intent

## Appendix A: Ecological Restoration Limited Project Checklists

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

### Eligibility Checklist

This Ecological Restoration Limited Project Eligibility Checklist guides the applicant in determining if their project is eligible to file as an Inland or Coastal Ecological Restoration Limited Project (310 CMR 10.53(4) or 310 CMR 10.24(8) respectively). These criteria must be met when submitting the Ecological Restoration Limited Project Notice of Intent to ensure that the restoration and improvement of the natural capacity of a Resource Area(s) to protect and sustain the interests identified in the WPA is necessary to achieve the project's ecological restoration goals.

**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.

#### Regulatory Features of All Coastal and Inland Ecological Restoration Limited Projects

- (a) **May result in the temporary or permanent loss of/or conversion of Resource Area:** An Ecological Restoration Limited Project that meets the requirements of 310 CMR 10.24(8) may result in the temporary or permanent loss of Resource Areas and/or the conversion of one Resource Area to another when such loss is necessary to the achievement of the project's ecological restoration goals.
- (b) **Exemption from wildlife habitat evaluation:** A NOI for an Ecological Restoration Limited Project that meets the minimum requirements for Ecological Restoration Projects and for a MassDEP Combined Application outlined in 310 CMR 10.12(1) and (2) is exempt from providing a wildlife habitat evaluation (310 CMR 10.60).
- (c) The following are considerations for applicants filing an Ecological Restoration Limited Project NOI and for the issuing authority approving a project as an Ecological Restoration Limited Project:
  - The condition of existing and historic Resource Areas proposed for restoration.
  - Evidence of the extent and severity of the impairment(s) that reduce the capacity of the Resource Areas to protect and sustain the interests identified in M.G.L. c. 131, § 40.
  - The magnitude and significance of the benefits of the Ecological Restoration Project in improving the capacity of the affected Resource Areas to protect and sustain the other interests identified in M.G.L. c. 131, § 40.
  - The magnitude and significance of the impacts of the Ecological Restoration Project on existing Resource Areas that may be modified, converted and/or lost and the interests for which said Resource Areas are presumed significant in 310 CMR 10.00, and the extent to which the project will:
    - a. avoid adverse impacts to Resource Areas and the interests identified in M.G.L. c. 131, § 40, that can be avoided without impeding the achievement of the project's ecological restoration goals.
    - b. minimize adverse impacts to Resource Areas and the interests identified in M.G.L. c. 131, § 40, that are necessary to the achievement of the project's ecological restoration goals.
    - c. utilize best management practices such as erosion and siltation controls and proper construction sequencing to avoid and minimize adverse construction impacts to resource areas and the interests identified in M.G.L. c. 131, § 40.



# WPA Form 3 – Notice of Intent

## Appendix A: Ecological Restoration Limited Project Checklists

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

### Eligibility Criteria - Coastal Ecological Restoration Limited Projects (310 CMR 10.24(8))

Complete this Eligibility Criteria Checklist *before* filling out a Notice of Intent Application to determine if your project qualifies as a Coastal Ecological Restoration Limited Project. (310 CMR 10.24(8)) Sign the Eligibility Certification at the end of Appendix A, and attach the checklist with supporting documentation and the Eligibility Certification to your Notice of Intent Application.

#### General Eligibility Criteria for All Coastal Ecological Restoration Limited Projects

Notwithstanding the requirements of 310 CMR 10.25 through 10.35, 310 CMR 10.54 through 10.58, and the Wildlife Habitat evaluations in 310 CMR 10.60, the Issuing Authority may issue an Order of Conditions permitting an Ecological Restoration Project listed in 310 CMR 10.24(8)(e) as an Ecological Restoration Limited Project and impose such conditions as will contribute to the interests identified in the WPA M.G.L. provided that the project meets all the requirements in 310 CMR 10.24(8).

- The project is an Ecological Restoration Project as defined in 310 CMR 10.04 and is a project type listed below [310 CMR 10.24(8)(e)].
- Tidal Restoration.
- Shellfish Habitat Restoration.
- Other Ecological Restoration Limited Project Type.
- The project will further at least one of the WPA (M.G.L. c. 131, § 40) interests identified below.
  - Protection of public or private water supply.
  - Protection of ground water supply.
  - Flood control.
  - Storm damage prevention.
  - Prevention of pollution.
  - Protection of land containing shellfish.
  - Protection of fisheries.
  - Protection of wildlife habitat.
- If the project will impact an area located within estimated habitat which is indicated on the most recent Estimated Habitat Map of State-Listed Rare Wetlands, a NHESP preliminary written determination is attached to the NOI submittal that the project will not have any adverse long-term and short-term effects on specified habitat sites of Rare Species or the project will be carried out in accordance with an approved NHESP habitat management plan.





## WPA Form 3 – Notice of Intent

### Appendix A: Ecological Restoration Limited Project Checklists

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

### Eligibility Criteria - Coastal Ecological Restoration Limited Projects (310 CMR 10.24(8)) (Cont.)

#### General Eligibility Criteria for All Coastal Ecological Restoration Limited Projects (cont.)

- If the project is located in a Coastal Dune or Barrier Beach, the project avoids and minimizes armoring of the Coastal Dune or Barrier Beach to the maximum extent practicable.
- The project complies with all applicable provisions of 310 CMR 10.24(1) through (6) and 310 CMR 10.24(9) and (10).

#### Additional Eligibility Criteria for Specific Coastal Ecological Restoration Limited Project Types

These additional criteria must be met to qualify as an Ecological Restoration Limited Project to ensure that the restoration and improvement of the natural capacity of a Resource Area to protect and sustain the interests identified in the WPA is necessary to achieve the project's ecological restoration goals.

- This Ecological Restoration Limited Project application meets the eligibility criteria for Ecological Restoration Limited Project [310 CMR 10.24(8)(a) through (d) and as proposed, furthers at least one of the WPA interests is for the project type identified below.
  - Tidal Restoration Projects**
    - A project to restore tidal flow that will not significantly increase flooding or storm damage impacts to the built environment, including without limitation, buildings, wells, septic systems, roads or other man-made structures or infrastructure.
  - Shellfish Habitat Restoration Projects**
    - The project has received a Special Projects Permit from the Division of Marine Fisheries or, if a municipality, has received a shellfish propagation permit.
    - The project is made of cultch (e.g., shellfish shells from oyster, surf or ocean clam) or is a structure manufactured specifically for shellfish enhancement (e.g., reef blocks, reef balls, racks, floats, rafts, suspended gear).
  - Other Ecological Restoration Projects that meet the criteria set forth in 310 CMR 10.24(8)(a) through (d).**
    - Restoration, enhancement, or management of Rare Species habitat.
    - Restoration of hydrologic and habitat connectivity.
    - Removal of aquatic nuisance vegetation to impede eutrophication.
    - Thinning or planting of vegetation to improve habitat value.
    - Fill removal and re-grading.
    - Riparian corridor re-naturalization.
    - River floodplain re-connection.



# WPA Form 3 – Notice of Intent

## Appendix A: Ecological Restoration Limited Project Checklists

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

### Eligibility Criteria - Coastal Ecological Restoration Limited Projects (310 CMR 10.24(8)) (Cont.)

#### Additional Eligibility Criteria for Specific Coastal Ecological Restoration Limited Project Types

- In-stream habitat enhancement.
- Remediation of historic tidal wetland ditching.
- Eelgrass restoration.
- Invasive species management.
- Installation of fish passage structures.
- Other. Describe: \_\_\_\_\_
- This project involves the construction, repair, replacement or expansion of public or private infrastructure (310 CMR 10.24(9)).
  - The NOI attachment labeled \_\_\_\_\_ is an operation and maintenance plan to ensure that the infrastructure will continue to function as designed.
  - The operation and maintenance plan will be implemented as a continuing condition in the Order of Conditions and the Certificate of Compliance.
- This project proposes to replace an existing stream crossing (310 CMR 10.24(10)). The crossing complies with the Massachusetts Stream Crossing Standards to the maximum extent practicable with details provided in the NOI. The crossing type:
  - Replaces an existing non-tidal crossing that is part of an Anadromous/Catadromous Fish Run (310 CMR 10.35)
  - Replaces an existing tidal crossing that restricts tidal flow. The tidal restriction will be eliminated to the maximum extent practicable.
- At a minimum, in evaluating the potential to comply with the standards to the maximum extent practicable the following criteria have been consider site constraints in meeting the standard, undesirable effects or risk in meeting the standard, and the environmental benefit of meeting the standard compared to the cost, by evaluating the following:
  - The potential for downstream flooding;
  - Upstream and downstream habitat (in-stream habitat, wetlands);
  - Potential for erosion and head-cutting;
  - Stream stability;
  - Habitat fragmentation caused by the crossing;
  - The amount of stream mileage made accessible by the improvements;
  - Storm flow conveyance;



# WPA Form 3 – Notice of Intent

## Appendix A: Ecological Restoration Limited Project Checklists

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

### Eligibility Criteria - Coastal Ecological Restoration Limited Projects (310 CMR 10.24(8)) (Cont.)

#### Additional Eligibility Criteria for Specific Coastal Ecological Restoration Limited Project Types

- Engineering design constraints specific to the crossing;
- Hydrologic constraints specific to the crossing;
- Impacts to wetlands that would occur by improving the crossing;
- Potential to affect property and infrastructure; and
- Cost of replacement.

### Eligibility Criteria - Inland Ecological Restoration Limited Project (310 CMR 10.53(4))

Complete this Eligibility Criteria Checklist *before* filling out a Notice of Intent Application to determine if your project qualifies as an Inland Ecological Restoration Limited Project. (310 CMR 10.53(4)) Sign the Eligibility Certification at the end of Appendix A, and attach the checklist with supporting documentation and the Eligibility Certification to your Notice of Intent Application.

#### General Eligibility Criteria for All Inland Ecological Restoration Limited Projects

Notwithstanding the requirements of any other provision of 310 CMR 10.25 through 10.35, 310 CMR 10.54 through 10.58, and 310 CMR 10.60, the Issuing Authority may issue an Order of Conditions permitting an Ecological Restoration Project listed in 310 CMR 10.53(4)(e) as an Ecological Restoration Limited Project and impose such conditions as will contribute to the interests identified in M.G.L. c. 131, § 40, provided that:

- The project is an Ecological Restoration Project as defined in 310 CMR 10.04 and is a project type listed below [310 CMR 10.53(4)(e)].
  - Dam Removal
  - Freshwater Stream Crossing Repair and Replacement
  - Stream Daylighting
  - Tidal Restoration
  - Rare Species Habitat Restoration
  - Restoring Fish Passageways
  - Other (describe project type): Aquatic & Emergent Plant Management



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**Appendix A: Ecological Restoration Limited**  
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Massachusetts Wetlands Protection Act M.G.L. c. 131, §40

**Eligibility Criteria - Inland Ecological Restoration Limited Project (310**  
**CMR 10.53(4)) (cont.)**

**General Eligibility Criteria for All Inland Ecological Restoration Limited Projects**

- The project will further at least one of the WPA (M.G.L. c. 131, § 40) interests identified below.
  - Protection of public or private water supply
  - Protection of ground water supply
  - Flood control
  - Storm damage prevention
  - Prevention of pollution
  - Protection of land containing shellfish
  - Protection of fisheries
  - Protection of wildlife habitat
- If the project will impact an area located within estimated habitat which is indicated on the most recent Estimated Habitat Map of State-Listed Rare Wetlands, a NHESP preliminary written determination is attached to the NOI submittal that the project will have no adverse long-term and short-term effects on specified habitat sites of Rare Species or the project will be carried out in accordance with an approved NHESP habitat management plan.
- The project will be carried out in accordance with any time of year restrictions or other conditions recommended by the Division of Marine Fisheries for coastal waters and the Division of Fisheries and Wildlife in accordance with 310 CMR 10.11(3).
- If the project involves the dredging of 100 cubic yards of sediment or more or dredging of any amount in an Outstanding Resource Water, a Water Quality Certification has been applied for or obtained.
- The project complies with all applicable provisions of 310 CMR 10.53(1), (2), (7), and (8).



## WPA Form 3 – Notice of Intent

### Appendix A: Ecological Restoration Limited Project Checklists

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

### Eligibility Criteria - Inland Ecological Restoration Limited Project (310 CMR 10.53(4)) (cont.)

#### Additional Eligibility Criteria for Specific Inland Ecological Restoration Limited Project Types

These additional criteria must be met to qualify as an Ecological Restoration Limited Project to ensure that the restoration and improvement of the natural capacity of a Resource Area to protect and sustain the interests identified in the WPA is necessary to achieve the project's ecological restoration goals.

- This project application meets the eligibility criteria for Ecological Restoration Limited Project in accordance with [310 CMR 10.53(4)(a) through (d) and as proposed, furthers at least one of the WPA interests is for the project type identified below:
- Dam Removal**
    - Project is consistent with MassDEP's 2007 Dam Removal Guidance.
  - Freshwater Stream Crossing Repair and Replacement.** The project as proposed and the NOI describes how:
    - Meeting the eligibility criteria set forth in 310 CMR 10.13 would result in significant stream instability or flooding hazard that cannot otherwise be mitigated, and site constraints make it impossible to meet said criteria.
    - The project design ensures that the stability of the bank is NOT impaired.
    - To the maximum extent practicable, the project provides for the restoration of the stream upstream and downstream of the structure as needed to restore stream continuity and eliminate barriers to aquatic organism movement.
    - The project complies with the requirements of 310 CMR 10.53(7) and (8).
  - Stream Daylighting Projects**
    - The project meets the eligibility criteria for Ecological Restoration Limited Project [310 CMR 10.53(4)(a) through (d)] and as proposed the NOI describes how the proposed project meets to the maximum extent practicable, consistent with the project's ecological restoration goals, all the performance standards for Bank and Land Under Water Bodies and Waterways.
    - The project meets the requirements of 310 CMR 10.12(1) and (2) and a wildlife habitat evaluation is not included in the NOI.
  - Tidal Restoration Project**
    - Restores tidal flow.
    - the project, including any proposed flood mitigation measures, will not significantly increase flooding or storm damage to the built environment, including without limitation, buildings, wells, septic systems, roads or other man-made structures or infrastructure.



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**Eligibility Criteria - Inland Ecological Restoration Limited Project (310**  
**CMR 10.53(4)) (cont.)**

- Other Ecological Restoration Projects** that meet the criteria set forth in 310 CMR 10.53 (4) (a) through (d).
  - Restoration, enhancement, or management of Rare Species habitat.
  - Restoration of hydrologic and habitat connectivity.
  - Removal of aquatic nuisance vegetation to impede eutrophication.
  - Thinning or planting of vegetation to improve habitat value.
  - Riparian corridor re-naturalization.
  - River floodplain re-connection.
  - In-stream habitat enhancement.
  - Fill removal and re-grading.
  - Flow restoration.
  - Installation of fish passage structures.
  - Invasive species management.
  - Other. Describe: \_\_\_\_\_
- This project involves the construction, repair, replacement or expansion of public or private infrastructure. (310 CMR 10.53(7))
  - The NOI attachment labeled \_\_\_\_\_ is an operation and maintenance plan to ensure that the infrastructure will continue to function as designed.
  - The operation and maintenance plan will be implemented as a continuing condition in the Order of Conditions and the Certificate of Compliance.
- This project replaces an existing stream crossing (310 CMR 10.53(8)). The crossing type:
  - Replaces an existing non-tidal crossing designed to comply with the Massachusetts Stream Crossing Standards to the maximum extent practicable with details provided in the NOI.
  - Replaces an existing tidal crossing that restricts tidal flow. The tidal restriction will be eliminated to the maximum extent practicable.



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**Eligibility Criteria - Inland Ecological Restoration Limited Project (310**  
**CMR 10.53(4)) (cont.)**

- At a minimum, in evaluating the potential to comply with the standards to the maximum extent practicable the following criteria have been consider site constraints in meeting the standard, undesirable effects or risk in meeting the standard, and the environmental benefit of meeting the standard compared to the cost, by evaluating the following:
  - The potential for downstream flooding;
  - Upstream and downstream habitat (in-stream habitat, wetlands);
  - Potential for erosion and head-cutting;
  - Stream stability;
  - Habitat fragmentation caused by the crossing;
  - The amount of stream mileage made accessible by the improvements;
  - Storm flow conveyance;
  - Engineering design constraints specific to the crossing;
  - Hydrologic constraints specific to the crossing;
  - Impacts to wetlands that would occur by improving the crossing;
  - Potential to affect property and infrastructure; and
  - Cost of replacement.



# WPA Form 3 – Notice of Intent

## Appendix A: Ecological Restoration Limited Project Checklists

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

### Required Actions (310 CMR 10.11)

Complete the Required Actions before submitting a Notice of Intent Application for an Ecological Restoration Project and submit a completed copy of this Checklist with the Notice of Intent.

**Massachusetts Environmental Policy Act (MEPA) / Environmental Monitor**

<http://www.mass.gov/eea/agencies/mepa/submitting-notice-to-the-environmental-monitor.html>

For Ecological Restoration Limited Projects, there are no changes to MEPA requirements.

**Submit written notification at least 14 days prior to the filing of a Notice of Intent (NOI) to the Environmental Monitor for publication. A copy of the written notification is attached and provides at minimum:**

- A brief description of the proposed project.
- The anticipated NOI submission date to the conservation commission.
- The name and address of the conservation commission that will review the NOI.
- Specific details as to where copies of the NOI may be examined or acquired and where to obtain the date, time, and location of the public hearing.

**Massachusetts Endangered Species Act (MESA) /Wetlands Protection Act Review**

Preliminary Massachusetts Endangered Species Act Review from the Natural Heritage and Endangered Species Program (NHESP) has been met and the written determination is attached.

Supplemental Information for Endangered Species Review has been submitted.

1.  Percentage/acreage of property to be altered:

a. Within Wetland Resource Area

Percentage/acreage \_\_\_\_\_

b. Outside Wetland Resource Area

Percentage/acreage \_\_\_\_\_

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

3.  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.

4.  Project description (including description of impacts outside of wetland resource area & buffer zone)

5.  Photographs representative of the site

6.  MESA filing fee (fee information available at

[http://www.mass.gov/dfwele/dfw/nhesp/regulatory\\_review/mesa/mesa\\_fee\\_schedule.htm](http://www.mass.gov/dfwele/dfw/nhesp/regulatory_review/mesa/mesa_fee_schedule.htm))





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**Project Checklists**

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Massachusetts Wetlands Protection Act M.G.L. c. 131, §40  
**Required Actions (310 CMR 10.11) (cont.)**

Make check payable to "Commonwealth of Massachusetts - NHESP" and mail to NHESP:

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

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

- a.  Vegetation cover type map of site
- b.  Project plans showing Priority & Estimated Habitat boundaries

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, <http://www.mass.gov/eea/agencies/dfg/dfw/natural-heritage/regulatory-review/mass-endangered-species-act-mesa/>; the NOI must still be sent to NHESP if the project is within estimated habitat pursuant to 310 CMR 10.37 and 10.59 – see C4 below)

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.

**Estimated Habitat Map of State-Listed Rare Wetlands Wildlife**

If a portion of the proposed project is 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), complete the portion below. To view habitat maps, see the **Massachusetts Natural Heritage Atlas** or view the maps electronically at: <http://www.mass.gov/eea/agencies/dfg/dfw/natural-heritage/regulatory-review>

A preliminary written determination from Natural Heritage and Endangered Species Program (NHESP) must be obtained indicating that:

Project will NOT have long- or short-term adverse effect on the actual Resource Area located within estimated habitat indicated on the most recent Estimated Habitat Map of State-Listed Rare Wetlands Wildlife published by NHESP.

Project will have long- or short-term adverse effect on the actual Resource Area located within estimated habitat indicated on the most recent Estimated Habitat Map of State-Listed Rare Wetlands Wildlife published by NHESP. A copy of NHESP's written preliminary determination in accordance with 310 CMR 10.11(2) is attached. This specifies:

Date of the map: \_\_\_\_\_



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**Required Actions (310 CMR 10.11) (cont.)**

- If the Rare Species identified is/are likely to continue to be located on or near the project, and if so, whether the Resource Area to be altered is in fact part of the habitat of the Rare Species.
- That if the project alters Resource Area(s) within the habitat of a Rare Species:
- The Rare Species is identified;
- NHESP's recommended changes or conditions necessary to ensure that the project will have no short or long term adverse effect on the habitat of the local population of the Rare Species is provided; or
- An approved NHESP habitat management plan is attached with this Notice of Intent.

Send the request for a preliminary determination to:  
Natural Heritage & Endangered Species Program  
MA Division of Fisheries & Wildlife  
1 Rabbit Hill Road  
Westborough, MA 01581

**Division of Marine Fisheries**

- If the project will occur within a coastal waterbody with a restricted Time of Year, [see Appendix B of the Division of Marine Fisheries (DMF) Technical Report TR 47 "Marine Fisheries Time of Year Restrictions (TOYs) for Coastal Alteration Projects" dated April 2011 <http://www.nae.usace.army.mil/Portals/74/docs/regulatorv/StateGeneralPermits/NEGP/MADMFT-47.pdf>].
- Obtain a DMF written determination stating:
  - The proposed work does NOT require a TOY restriction.
  - The proposed work requires a TOY restriction. Specific recommended TOY restriction and recommended conditions on the proposed work is attached.
- If the project may affect a diadromous fish run [re: Division of Marine Fisheries (DMF) Technical Reports TR 15 through 18, dated 2004: <http://www.mass.gov/eea/agencies/dfg/dmf/publications/technical.html>]
- Obtain a DMF written determination stating:
  - The design specifications and operational plan for the project are compatible with the passage requirements of the fish run.
  - The design specifications and operational plan for the project are not compatible with the passage requirements of the fish run.



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# WPA Form 3 – Notice of Intent

## Appendix A: Ecological Restoration Limited Project Checklists

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

### Required Actions (310 CMR 10.11) (cont.)

Send the request for a written or electronic determination to:

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

Division of Marine Fisheries –  
South Coast Field Station  
Attn: Environmental Reviewer  
1213 Purchase Street – 3rd Floor  
New Bedford, MA 02740-6694  
Email: [DMF.EnvReview-South@state.ma.us](mailto:DMF.EnvReview-South@state.ma.us)

North Shore – Hull to New Hampshire border:

Division of Marine Fisheries –  
North Shore Field Station  
Attn: Environmental Reviewer  
30 Emerson Avenue  
Gloucester, MA 01930  
Email: [DMF.EnvReview-North@state.ma.us](mailto:DMF.EnvReview-North@state.ma.us)

- Division of Fisheries and Wildlife** – <http://www.mass.gov/eea/agencies/dfg/dfw/>
  - Projects that involve silt-generating, in-water work that will impact a non-tidal perennial river or stream and the in-water work will not occur between May 1 and August 30.
    - Obtain a written determination from the Division of Fisheries and Wildlife (DFW) as to whether the proposed work requires a TOY restriction.
      - The proposed work does NOT require a TOY restriction.
      - The proposed work requires a TOY restriction. The DFW determination with TOY restriction and other conditions is attached.
- MassDEP Water Quality Certification**
  - Project involves dredging of 100 cubic yards or more in a Resource Area or dredging of any amount in an Outstanding Resource Water (ORW). A copy and proof of the MassDEP Water Quality Certification pursuant to 314 CMR 9.00 is attached to the NOI.
  - This project is a Combined Permit Application for 401 Dredging and Restoration (BRP WW 26).
- MassDEP Wetlands Restriction Order**

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)?

Yes     No
- Department of Conservation and Recreation**

**Office of Dam Safety**

  - For Dam Removal Projects, obtain a written determination from the Department of Conservation and Recreation Office of Dam Safety that the dam is not subject to the jurisdiction of the Office under 302 CMR 10.00, a written determination that the dam removal does not require a permit under 302 CMR 10.00 or a permit authorizing the dam removal in accordance with 302 CMR 10.00 has been issued.



# WPA Form 3 – Notice of Intent

## Appendix A: Ecological Restoration Limited Project Checklists

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### Required Actions (310 CMR 10.11) (cont.)

#### Areas of Critical Environmental Concern (ACECs)

Is any portion of the proposed project within an Area of Critical Environmental Concern (ACEC)?

Yes  No

If yes, provide name of ACEC (see instructions to WPA Form 3 or MassDEP Website for ACEC locations).

Name of ACEC

### Minimum Required Documents (310 CMR 10.12)

Complete the Required Documents Checklist below and provide supporting materials before submitting a Notice of Intent Application for an Ecological Restoration Project.

This Notice of Intent meets all applicable requirements outlined in for Ecological Restoration Projects in 310 CMR 10.12. Use the checklist below to insure that all documentation is included with the NOI.

At a minimum, a Notice of Intent for an Ecological Restoration Project shall include the following:

Description of the project's ecological restoration goals;

The location of the Ecological Restoration Project;

Description of the construction sequence for completing the project;

A map of the Areas Subject to Protection Under M.G.L. c. 131, § 40, that will be temporarily or permanently altered by the project or include habitat for Rare Species, Habitat of Potential Regional and Statewide Importance, eel grass beds, or Shellfish Suitability Areas.

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.) is attached with documentation methodology.

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

Project description and supporting figures

a. Plan Title

SOLitude Lake Management

b. Prepared by

c. Signed and Stamped by

d. Final Revision Date

e. Scale

f. Additional Plan or Document Title

g. Date

If there is more than one property owner, attach a list of these property owners not listed on this form.

Attach NOI Wetland Fee Transmittal Form.



## WPA Form 3 – Notice of Intent Appendix A: Ecological Restoration Limited Project Checklists

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

### Minimum Required Documents (310 CMR 10.12)

- An evaluation of any flood impacts that may affect the built environment, including without limitation, buildings, wells, septic systems, roads or other man-made structures or infrastructure as well as any proposed flood impact mitigation measures;
- A plan for invasive species prevention and control;
- The Natural Heritage and Endangered Species Program written determination in accordance with 310 CMR 10.11(2), if needed;
- Any Time of Year restrictions and/or other conditions recommended by the Division of Marine Fisheries or the Division of Fisheries and Wildlife in accordance with 310 CMR 10.11(3), (4), (5), if needed;
- Proof that notice was published in the Environmental Monitor as required by 310 CMR 10.11(1);
- A certification by the applicant under the penalties of perjury that the project meets the eligibility criteria set forth in 310 CMR 10.13;
- If the Ecological Restoration Project involves the construction, repair, replacement or expansion of infrastructure, an operation and maintenance plan to ensure that the infrastructure will continue to function as designed;
- If the project involves dredging of 100 cubic yards or more or dredging of any amount in an Outstanding Resource Water, a Water Quality Certification issued by the Department pursuant to 314 CMR 9.00;
- If the Ecological Restoration Project involves work on a stream crossing, information sufficient to make the showing required by 310 CMR 10.24(10) for work in a coastal resource area and 310 CMR 10.53(8) for work in an inland resource area; and
- If the Ecological Restoration Project involves work on a stream crossing, baseline photo-points that capture longitudinal views of the crossing inlet, the crossing outlet and the upstream and downstream channel beds during low flow conditions. The latitude and longitude coordinates of the photo-points shall be included in the baseline data.
- This project is subject to provisions of the MassDEP Stormwater Management Standards. A copy of the Stormwater Report as required by the Stormwater Management Standards per 310 CMR 10.05(6)(k)-(q) is attached.
- Provide information as to whether the project has the potential to impact private water supply wells including agricultural or aquacultural wells or surface water withdrawal points.





Massachusetts Department of Environmental Protection  
Bureau of Resource Protection - Wetlands

Provided by MassDEP:

MassDEP File Number

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**WPA Form 3 – Notice of Intent**  
**Appendix A: Ecological Restoration Limited**  
**Project Checklists**

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**Certification that the Ecological Restoration Project Meets the**  
**Eligibility Criteria**

I hereby certify under penalties of perjury that the Ecological Restoration Project Notice of Intent application does not meet the Eligibility criteria for an Ecological Restoration Order of Conditions set forth in 310 CMR 10.13, but does meet the Eligibility Criteria for a Ecological Restoration Limited Project set forth in 10.24(8) or 10.53(4) whichever is applicable. I certify that I am familiar with the information contained in the application, and that to the best of my knowledge and belief such information is true, complete, and accurate. I further certify that I possess the authority to undertake the proposed activities.

Signature of Applicant or Authorized Agent

*Colin Gossett*  
Printed Name of Applicant or Authorized Agent

*9/14/17*  
Date

The certification must be signed by the applicant; however, it may be signed by a duly authorized agent (named in Item 2) if this form is accompanied by a statement by the applicant designating the agent and agreeing to furnish upon request, supplemental information in support of the application.







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:**

Noannet Pond and Storrow Pond; Hale Reservation      Westwood  
 a. Street Address      b. City/Town  
 7206      237.50  
 c. Check number      d. Fee amount

**2. Applicant Mailing Address:**

Eric      Arnold  
 a. First Name      b. Last Name  
 Hale Reservation  
 c. Organization  
 80 Carby Street  
 d. Mailing Address  
 Westwood      MA      02090  
 e. City/Town      f. State      g. Zip Code  
 781-356-1770      earnold@halereservation.org  
 h. Phone Number      i. Fax Number      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**

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.

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

**B. Fees (continued)**

Step 1/Type of Activity	Step 2/Number of Activities	Step 3/Individual Activity Fee	Step 4/Subtotal Activity Fee
Category 2e	1	\$500.00	\$500.00
<b>Step 5/Total Project Fee:</b>			\$500.00
<b>Step 6/Fee Payments:</b>			\$500.00
Total Project Fee:			a. Total Fee from Step 5 \$237.50
State share of filing Fee:			b. 1/2 Total Fee less \$12.50 \$262.50
City/Town share of filing Fee:			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.)

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***ATTACHMENT A***

**Abutter Notification**



To: The Environmental Monitor

From: SŌlitude Lake Management

Date: April 14, 2017

Re: Notification of filing an NOI for Hale Reservation

Anticipated date of submission: April 17, 2017

The proposed project is seeking approval to initiate an Aquatic Management Program at Noannet and Storrow Ponds, Hale Reservation in Westwood, MA. USEPA/State registered herbicides and/or algaecides will be applied to manage non-native and nuisance aquatic vegetation and algae to protect the interests of the Wetlands Protection Act by impeding eutrophication and improving habitat value.

Reviewing Conservation Commission(s):

Westwood Conservation Commission  
50 Carby St  
Westwood, MA 02090

Copies of the NOI may be examined or acquired from the Conservation Commission, or by contacting the applicant's representative, SŌlitude Lake Management, at [info@solitudelake.com](mailto:info@solitudelake.com), or 508-865-1000, Monday and Friday between 9AM and 4PM.

See Conservation Commission website for the meeting schedule for exact dates and agendas.





## AFFIDAVIT OF SERVICE

Under the Massachusetts Wetlands Protection Act I, Bregieta Arvidson, hereby certify under the pains and penalty of perjury that on April 14, 2017, I mailed a Notification to Abutters in compliance with the second paragraph of the Massachusetts General Laws, Chapter 131, s.40, and the DEP Guide to Abutter Notification dated April 8, 1994, in connection with the following matter:

A Notice of Intent was filed under the Massachusetts Wetlands Protection Act by SOLitude Lake Management with the Westwood Conservation Commission on April 14, 2017, for an Aquatic Management Program at Noannet and Storrow Ponds in Westwood, MA.

This form of the notification, and a list of the abutters to whom it was given and their addresses, are attached to this Affidavit of Service.

Bregieta Arvidson  
Name

April 14<sup>th</sup> 2017  
Date





**NOTICE TO ABUTTERS**  
**Under the Massachusetts Wetlands Protection Act and**  
**Article 18, Westwood Wetland By-law**

**Notice of Intent**

The Westwood Conservation Commission will hold a public hearing, under M.G.L., Chapter 131, Section 40 and Article 18 of the Town of Westwood General Bylaws on

Date: May 10<sup>th</sup>, 2017

Time: 7:00 AM

Place: 50 Carby Street, Westwood, MA  
Champagne Meeting Room

A permit is requested by Hale Reservation of Eric Arnold  
(name of applicant)

80 Carby Street, Westwood MA  
(address of applicant)

The project is located at Noanet Pond & Starow Pond, Hale Reservation  
(Location of project)

A complete copy of this filing is available to the public at the Office of the Town Clerk. Notice of the Conservation Commission meeting is posted in the Town Hall not less than 48 hours in advance as required by Open Meeting Law.

Westwood Conservation Commission





## TOWN OF WESTWOOD

### BOARD OF ASSESSORS

580 High St.

Westwood, Ma. 02090

Maureen Bleday  
Michael P. Krone  
Mark F. Murphy

phone: 781-326-1904

fax: 781-251-2588

*March 27, 2017*

*Hale Reservation  
80 Carby St.  
Westwood, Ma 02090*

*Dear Hale Reservation,*

*Attached please find a list of abutters and abutters to abutters within 300' of the locus,  
80 Carby St., Westwood known as Assessor's Map 04, Lot 001.*

*This list reflects owners of record as of January 1, 2017 or current owners, according to our  
records.*

*Sincerely,*

*Michael Krone  
Assessor*

*djr*

ABUTTERS LIST FOR 80 CARBY ST  
WESTWOOD, MA

AP & LOT	OWNER	CO-OWNER	Mailing Address	City	St Zip	Location
2011	SKRYPEK THEODOR	EILEEN M	92 SKYLINE DR	WESTWOOD	MA 02090	82 SKYLINE DR
2012	MACE RICHARD R JR	MELANIE D MACE	66 SKYLINE DR	WESTWOOD	MA 02090	66 SKYLINE DR
2013	JERSKEY ERIC A	BETH A JERSKY	54 SKYLINE DR	WESTWOOD	MA 02090	54 SKYLINE DR
2014	MCCHESNEY S ELAINE		42 SKYLINE DR	WESTWOOD	MA 02090	42 SKYLINE DR
2015	SCHMIDT-SCHUBETHOODOR		30 SKYLINE DR	WESTWOOD	MA 02090	30 SKYLINE DR
2051	GERBER DAVID E	MARY E GERBER	293 FAR REACH RD	WESTWOOD	MA 02090	293 FAR REACH RD
2052	GINSBERG KRISTINE A		279 FAR REACH RD	WESTWOOD	MA 02090	279 FAR REACH RD
2053	DONOVAN LOUISE		265 FAR REACH RD	WESTWOOD	MA 02090	265 FAR REACH RD
2054	HIGH RIDGE HOMEOWNERS ASS	ERIC JERSKEY	54 SKYLINE DR	WESTWOOD	MA 02090	FAR REACH RD
2055	ROSA PETER	MARIA MANRIQUE-ROSA	219 FAR REACH RD	WESTWOOD	MA 02090	219 FAR REACH RD
2056	WASYN CZUK ANDREW W	REBECCA H WASYN CZUK	209 FAR REACH RD	WESTWOOD	MA 02090	209 FAR REACH RD
2057	AGRUSA RUSSELL L	PAULA T	197 FAR REACH RD	WESTWOOD	MA 02090	197 FAR REACH RD
2058	LICHT RICHARD A	ROANNE S LICHT	189 FAR REACH RD	WESTWOOD	MA 02090	189 FAR REACH RD
2059	THE HIGH RIDGE HOMEOWNERS		54 SKYLINE DR	WESTWOOD	MA 02090	FAR REACH RD
4001	HALE RESERVATION, INC		80 CARBY ST	WESTWOOD	MA 02090	80 CARBY ST
4002	POPE DANA G	CAROLYN A	309 FAR REACH ROAD	WESTWOOD	MA 02090	309 FAR REACH RD
4003	WATSON ANNEMARIE		325 FAR REACH RD	WESTWOOD	MA 02090	325 FAR REACH RD
4004	GEARY JAMES M	THERESE M GARY	339 FAR REACH RD	WESTWOOD	MA 02090	339 FAR REACH RD
4005	SPELLMAN DAVID	LIZABETH L SPELLMAN	7 STORROW CIR	WESTWOOD	MA 02090	7 STORROW CIR
4006	LAGARTO REVOCABLE FAMILY	BRIAN J & MELISSA H LAGAR	17 STORROW CIR	WESTWOOD	MA 02090	17 STORROW CIR
4007	HIGH RIDGE HOMEOWNERS ASS	ERIC JERSKEY	54 SKYLINE DRIVE	WESTWOOD	MA 02090	STORROW CIR
4008	ELIZONDO MARGARET D		37 STORROW CIR	WESTWOOD	MA 02090	37 STORROW CIR
4009	KRONE LINDA GAIL		38 STORROW CIR	WESTWOOD	MA 02090	38 STORROW CIR
4019	WONG JOHNSON TAI	ANN SHAO-HUI WONG	322 FAR REACH RD	WESTWOOD	MA 02090	322 FAR REACH RD
5075	BARTHOLOMEW DANA A & SOPH	ALICE N SAMARRAS	20 LONGMEADOW DR	WESTWOOD	MA 02090	20 LONGMEADOW DR
5076	MAY THOMAS J	DONNA M MAY	22 LONGMEADOW DR	WESTWOOD	MA 02090	22 LONGMEADOW DR
5077	TRYDER PAUL E TRUSTEE	THE TRYDER REALTY TRUST	24 LONGMEADOW DR	WESTWOOD	MA 02090	24 LONGMEADOW DR
5078	HALE RESERVATION, INC.		80 CARBY ST	WESTWOOD	MA 02090	REAR LONGMEADOW DR
5079	LAYTON JOHN R	PAMELA LAYTON	26 LONGMEADOW DR	WESTWOOD	MA 02090	26 LONGMEADOW DR
5090	HALE RESERVATION, INC.		80 CARBY ST	WESTWOOD	MA 02090	REAR STEVENS CIR
8001	HERBERT R & MARILYN C NEL	NELSON REALTY TRUST	29 OLD STONE RD	WESTWOOD	MA 02090	29 OLD STONE RD
8002	KELLY CHRISTOPHER C	CLAUDIA M KELLY	9 OLD STONE RD	WESTWOOD	MA 02090	9 OLD STONE RD
8003	BRETT WILLIAM J	JULIA S T/E	137 CEDAR LANE	WESTWOOD	MA 02090	137 CEDAR LN
8004	HARDING REALTY TRUST	JOHN L & NANCY Y HARDING	121 CEDAR LN	WESTWOOD	MA 02090	121 CEDAR LN
8005	VAKHUTINSKY PETER	SVETLANA VAKHUTINSKY	109 CEDAR LN	WESTWOOD	MA 02090	109 CEDAR LN
8006	HERBERT TIMOTHY C & PAMEL	103 CEDAR LANE REALTY TRU	103 CEDAR LN	WESTWOOD	MA 02090	103 CEDAR LN
8007	WILLIAMS JONATHAN	PAULA J WILLIAMS	95 CEDAR LN	WESTWOOD	MA 02090	95 CEDAR LN
8008	SADLER MELANIE B		81 CEDAR LN	WESTWOOD	MA 02090	81 CEDAR LN
8009	OBRIEN PATRICK	MAUREEN B OBRIEN	71 CEDAR LN	WESTWOOD	MA 02090	71 CEDAR LN
8010	MCGOWN SUSANNE	ROBERT SOLOMON	65 CEDAR LN	WESTWOOD	MA 02090	65 CEDAR LN
8016	NELSON JOHN W	GWENDOLYN M NELSON	60 CEDAR LN	WESTWOOD	MA 02090	60 CEDAR LN
8017	JEANNETTE M KELJIK PERSONL	STEPHEN A KURZMAN TRUSTEE	80 CEDAR LN	WESTWOOD	MA 02090	80 CEDAR LN
8018	CALLAHAN CHARLES D	MARGUERITE L	2846 TIBURON BLVD EAST	NAPLES	FL 34109	130 CEDAR LN
9019	PODREBARAC THERESA		146 CEDAR LN	WESTWOOD	MA 02090	146 CEDAR LN
3023	WALSH, LAWRENCE T &	CAITLIN B WALSH	126 HIGH ROCK LN	WESTWOOD	MA 02090	126 HIGH ROCK LN
9024	MOYLAN REALTY TRUST	MICHAEL MOYLAN, TRUSTEE	136 HIGHVIEW ST	WESTWOOD	MA 02090	134 HIGH ROCK LN

ABUTTERS LIST FOR 80 CARBY ST  
WESTWOOD, MA

AP #	LOT	OWNER	CO-OWNER	Mailing Address	City	St Zip	Location
8035		EARLEY JAMES E	MARION L EARLEY	195 DOVER RD	WESTWOOD	MA 02090	195 DOVER RD
8036		HALE RESERVATION INC		80 CARBY ST	WESTWOOD	MA 02090	DOVER RD
8038		TOWN OF WESTWOOD		50 CARBY ST	WESTWOOD	MA 02090	50 CARBY ST
8044		HALE RESERVATION INC		80 CARBY ST	WESTWOOD	MA 02090	DOVER RD
8045		HALE RESERVATION INC		80 CARBY ST	WESTWOOD	MA 02090	DOVER RD
9001		STALLINGS DIANE	MICHAEL STALLINGS	129 DOVER RD	WESTWOOD	MA 02090	129 DOVER RD
9002		MANDELL ALAN	JOHANNA HERREN	121 DOVER RD	WESTWOOD	MA 02090	121 DOVER RD
9004		BERLAU IRMGARD		221 CONANT RD	WESTWOOD	MA 02090	221 CONANT RD
9005		O'GRADY PATRICK	NORINE O'GRADY	213 CONANT RD	WESTWOOD	MA 02090	213 CONANT RD
9006		MCGOWAN CHARLES M	LESLIE A	205 CONANT RD	WESTWOOD	MA 02090	205 CONANT RD
9007		STEEVES ROBERT M		195 CONANT RD	WESTWOOD	MA 02090	195 CONANT RD
9008		VERA W SIGMUND REVOCABLE	VERA W SIGMUND TRUSTEE	185 CONANT RD	WESTWOOD	MA 02090	185 CONANT RD
9009		CAUTELA ANTHONY	DEBORAH R CAUTELA	175 CONANT RD	WESTWOOD	MA 02090	175 CONANT RD
9010		REISSELDER REALTY TRUST	WILLIAM J & MARY H REISSF	163 CONANT RD	WESTWOOD	MA 02090	163 CONANT RD
9011		KAZEMI AHMAD	MAHNAZ	151 CONANT RD	WESTWOOD	MA 02090	151 CONANT RD
9012		MULLEN PETER J	BRIDGET MULLEN	16 LYNN TERRACE	WESTWOOD	MA 02090	16 LYNN TER
9013		ONDERDONK ANDREW B	JULIET W ONDERDONK	28 LYNN TER	WESTWOOD	MA 02090	28 LYNN TER
9014		SMITH II DAVID S	DIANA R DITOMWASO	40 LYNN TER	WESTWOOD	MA 02090	40 LYNN TER
9015		CAMPION FRANCIS X	COLLEEN N CAMPION	37 LYNN TER	WESTWOOD	MA 02090	37 LYNN TER
9016		OBRIEN BARRY J	MOIRA A OBRIEN	29 LYNN TER	WESTWOOD	MA 02090	29 LYNN TER
9017		AXWORTHY SUSAN P	CHRISTOPHER LEE AXWORTHY	21 LYNN TERRACE	WESTWOOD	MA 02090	21 LYNN TER
9165		DEDHAM WESTWOOD WATER DIS		50 ELM ST	DEDHAM	MA 02026	200 DOVER RD
2001		HALE RESERVATION INC		80 CARBY STREET	WESTWOOD	MA 02090	573 DOVER RD
2002		MAONEY III ROBERT J	JOANNE S MALONEY	576 DOVER RD	WESTWOOD	MA 02090	576 DOVER RD
2003		LACROIX KATE M	WILLIAM A LACROIX	590 DOVER RD	WESTWOOD	MA 02090	590 DOVER RD
2004		MELANSON FAMILY TRUST	DENISE M MELANSON-HYLAND	PAUL D MELANSON, TRS	WESTWOOD	MA 02090	604 DOVER RD
3018		HAZAR DERYA B	KAREN P HAZAR	542 DOVER RD	WESTWOOD	MA 02090	542 DOVER RD
3020		WEBSTER PAULA		449 DOVER RD	WESTWOOD	MA 02090	449 DOVER RD
3021		CORKERY FAMILY IRREVOCABL	JOHN F CORKERY TRUSTEE	497 DOVER RD	WESTWOOD	MA 02090	497 DOVER RD
3022		JASON C IMPERATO REVOCBLE	JASON C & CHRISTINE A IMP	451 DOVER RD	WESTWOOD	MA 02090	451 DOVER RD
3023		SANDEL BRENDAN H	STOBHAN S SANDEL	453 DOVER RD	WESTWOOD	MA 02090	453 DOVER RD
3024		SHEA MICHAEL T	MICHELLE C SHEA	109 ROCK MEADOW RD	WESTWOOD	MA 02090	109 ROCK MEADOW RD
3025		WEBB MARK A	PIA KIVISAKK	103 ROCK MEADOW RD	WESTWOOD	MA 02090	103 ROCK MEADOW RD
3026		SIMONETTI ANDREW B	TRACY A BATTAGLIA	89 ROCK MEADOW RD	WESTWOOD	MA 02090	89 ROCK MEADOW RD
3027		SULLIVAN JAMES M	HELEN E SULLIVAN	85 ROCK MEADOW RD	WESTWOOD	MA 02090	85 ROCK MEADOW RD
3028		LUCAS JOHN T	JEAN M T/E	171 CEDAR LN	WESTWOOD	MA 02090	171 CEDAR LN
3029		WILLIAMSON RUSSELL T	ELIZABETH P WILLIAMSON	10 OLD STONE RD	WESTWOOD	MA 02090	10 OLD STONE RD
3030		IZBICKAS EDMUND V		20 OLD STONE RD	WESTWOOD	MA 02090	20 OLD STONE RD
3031		FORTUNE TIMOTHY M	ANNE C FORTUNE	82 ROCK MEADOW RD	WESTWOOD	MA 02090	82 ROCK MEADOW RD
3032		GARVIN SCOTT B	KRISTIN C GARVIN	90 ROCK MEADOW RD	WESTWOOD	MA 02090	90 ROCK MEADOW RD
3182		PHILLIPS ROBERT P	KAREN S	530 DOVER ROAD	WESTWOOD	MA 02090	530 DOVER RD
3183		LIEBERMAN HARRIS R	ELLICE LIEBERMAN	15 MORGAN FARM RD	WESTWOOD	MA 02090	15 MORGAN FARM RD
3188		LAUGHNA RORY P	MARTHA R LAUGHNA	3 NOANNET CIR	WESTWOOD	MA 02090	3 NOANNET CIR
3189		SHERWIN ROBERT	SARINA SHERWIN	5 NOANNET CIR	WESTWOOD	MA 02090	5 NOANNET CIR
3190		BUFTON CLEMENT D	PATRICIA C HIGHAM	566 DOVER RD	WESTWOOD	MA 02090	566 DOVER RD
3206		POWISSETT ESTATES HOMEOWN	C/O JOHN MITCHELL	8 LITTLE BOOT LN	WESTWOOD	MA 02090	LITTLE BOOT LN

ABUTTERS LIST FOR 80 CARBY ST  
WESTWOOD, MA

AP & LOT OWNER	CO-OWNER	Mailing Address	City	St Zip	Location
0013	HALE RESERVATION INC	80 CARBY ST	WESTWOOD	MA 02090	HARTFORD ST

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***ATTACHMENT B***

**Project Description**





## 1.0 INTRODUCTION

The “Applicant”, Hale Reservation, requests approval to continue an Aquatic Plant Management Program at Noannet and Storrow Ponds located within the Westwood side of the Reservation (Fig 1 & 2). Growth of nuisance aquatic plant variable milfoil (*Myriophyllum heterophyllum*) reaches problematic levels throughout the growing season, and eliminates and obstructs open-water habitat. Nuisance algae and waterlily growth also occurs throughout the season. Such dense growth of aquatic vegetation in and around the waterbody degrades aquatic and terrestrial wildlife habitat, diminishes the ponds aesthetic/recreation value, and contributes to water quality conditions that perpetuate unbalanced, unhealthy growth. As a result, some level of management is required to improve conditions at both Noannet and Storrow Ponds.

As both ponds are used for recreational purposes, meeting state standards for swimmable waters is a major concern of Hale Reservation. Historically, occasional microscopic algal blooms have specifically impacted the water clarity, below state standards of 4 feet. Copper-based algaecides have been used in the past, but particular pond conditions favor algae somewhat resistant to copper-based algaecides.

### 1.1 Site Description

The Hale Reservation is an approximately 1,200-acre parcel of land located in the towns of Dover and Westwood. The Reservation promotes outdoor recreation and educational opportunities for school programs and summer day camps. Three ponds are located on the property – Noannet Pond, Powisset Pond, and Storrow Pond. Noannet and Powisset Ponds are heavily used for swimming, boating, and fishing by the summer day camp programs and local residents. Storrow Pond is stocked with trout by the state in the spring and is primarily used for fishing and other day camp activities.

Storrow Pond and the majority of Noannet Pond are the only two ponds of the project located in the town of Westwood. Noannet has a surface area of approximately 47 acres, with a shallow average depth of approximately 7.0 feet and maximum depth of 12 feet. Two inlet streams flow into the pond. One is located to the south of Membership Beach, adjacent to the parking lot. The second flows from Powisset Pond into the western portion of the pond. The two inlet streams generally flow throughout the year, but usually have significantly lower flow rates during July and August. A small, unnamed stream on the northeastern shoreline of the pond serves as the



only direct outflow, and is intermittent with relatively low flow between the months of July and September. The shoreline of Noannet Pond is mostly wooded with deciduous trees and woody shrubs.

Storrow Pond is approximately 3 acres, with a shallow average depth of 4.0 feet and a maximum depth of 6 feet. One inlet stream enters the southern corner of the pond, with a single outflow at the northeastern corner of the pond. Storrow Pond is entirely wooded with deciduous trees and woody shrubs.

### 1.2 Current Conditions

Unbalanced growth of invasive variable milfoil dominates the water column throughout Noannet and Storrow Ponds. The few native species present in Noannet Pond are suppressed to trace and sparse densities by the milfoil: snailseed pondweed (*Potamogeton bicupulatus*) white waterlily (*Nymphaea odorata*), yellow waterlily (*Nuphar variegata*), and watershield (*Brasenia schreberi*) (Figure 4). Problematic

microscopic and filamentous algae blooms occur within Noannet Pond, inevitably from nutrient loading within the large watershed.

Storrow Pond supports a similar richness of native species – moderate density growth of white waterlily, yellow waterlily, stonewort (*Nitella sp.*), and watershield (*Brasenia schreberi*) (Figure 5).

The waterlilies dominate non-recreational areas around the shoreline of both Noannet and Storrow Ponds, and are not wholly considered problematic. At appropriate levels for pond size, they provide excellent habitat for fish, birds, turtles, and other wildlife found at Hale Reservation.



Excessive vegetation growth can have many adverse impacts on an aquatic ecosystem, such as the depletion of dissolved oxygen levels, loss of predator/prey interaction as a result of decreased open water habitat, and an acceleration of the filling in of the waterbody. Due to the shallow nature of the pond, it has the ability to support dense aquatic vegetation.

Both Noannet and Storrow Ponds have problematic levels of algae, aquatic vegetation, and accumulated organic debris (i.e. leaf litter and decaying aquatic vegetation) that requires an active pond management program to restore open-water habitat, control nuisance conditions, and retard eutrophication.

### 1.3 Management History

SOLitude Lake Management (formerly Aquatic Control Technology, Inc.) was contracted by Hale Reservation for management since 1999. Through in-lake management techniques, such as mechanical hydro-raking (prior to 1999) and treatment with herbicides/algacides, desirable conditions have been restored and maintained in the ponds. A summary of the maintenance spot-treatments follows:

Year*	Pond	Target Species	Acres Treated	Herbicide/Algacide
1999	Noannet	Milfoil	~3 acres	Reward
2000	Noannet	Milfoil	~3 acres	Reward
2001	Noannet	Milfoil, filamentous algae	~3 acres	Reward, CuCO4
2002	No herbicide treatments performed			
2003	Noannet	Milfoil, filamentous algae	~1.5 acres	Reward, CuCO4
2004	Noannet	Milfoil, filamentous algae	~3 acres	Reward, K-Tea
	Storrow	Pondweed	<2 acres	Reward
2005	Noannet	Pondweed, milfoil, bladderwort, filamentous algae	~3 acres	Reward, Captain
2006	Noannet	Ponweed, milfoil, bladderwort, filamentous algae	~3 acres	Reward, Captain
2007	Noannet	Milfoil, filamentous algae	~3 acres	Reward, Captain

2008	Noannet	Milfoil, filamentous algae	~3 acres	Reward, Captain
2009	Noannet	Milfoil, filamentous algae	~2-3 acres	Reward, Captain
	Storrow	Pondweed	<2 acres	Reward
2010	Noannet	Milfoil, filamentous algae	~3 acres	Reward, Captain
2011	Noannet	Milfoil, filamentous algae	~3 acres	Reward, Captain
	Storrow	Pondweed	<2 acres	Reward
2012	No herbicide treatments performed			
2013	Noannet	Milfoil, filamentous algae	2-3 acres	Reward, Captain
	Storrow	Pondweed	<2 acres	Reward
2014	Storrow	Pondweed	<2 acres	Reward, Captain
2015	Noannet	Milfoil, filamentous algae	~3 acres	Reward, SeClear
	Storrow	Pondweed	<2 acres	Reward, Captain
2016	Noannet	Milfoil, filamentous algae	~3 acres	Reward, SeClear
	Storrow	Pondweed	<2 acres	Reward, Captain

\*Prior to 1999, spot-treatments and/or hydro-raking was performed as needed

## 2.0 PROPOSED AQUATIC MANAGEMENT PROGRAM

### 2.1 Program Overview

The applicant is seeking approval to continue a multi-year Aquatic Management Program at Noannet and Storrow ponds (Fig 3a & 3b). The overall objective of the management program focuses on the reduction and control of the nuisance aquatic vegetation involving treatment with USEPA/State registered herbicide and algaecides. Management will restore and maintain open water habitat, suitable water quality, and a balanced, desirable native vegetation assemblage.

The proposed project has been filed as an Ecological Restoration Limited Project under 310 CMR 10.53 (4) and will protect the interest of the Wetland Protection Act by controlling nuisance species, improving wildlife habitat and water quality, and slowing pond eutrophication. No significant alteration to wetland resource areas or species richness will occur as a result of the proposed pond management program; the resource areas will be enhanced by controlling nuisance algae and aquatic plant species and improving water quality.

### 2.2 Herbicide/Algaecide Treatment

Chemical treatment is often the most effective and least disruptive means of controlling problematic vegetation. The nuisance vegetation assemblages within Storrow and Noannet ponds would best be managed using Reward (diquat) for spot treatments or Navigate (2,4-D) for whole-pond treatment, and copper-based algaecides. AquaPro is also requested for approval, but only for floating-leaf waterlily control.

The proposed products specifically target plant species and have negligible effect on the non-target species and wildlife when applied in accordance with the label directions; all chemicals are applied at or below suggested doses according to the product label. In addition, doses are based on plant types and densities, so that a minimum amount of the chemicals are introduced into the pond. Reward and Navigate treatments are proposed primarily for the target submersed-leaf aquatic plants species. AquaPro treatments are proposed

primarily for target waterlily growth around the pond perimeter. Initial effort for nuisance species are likely to entail spot-treatments; whole-pond treatments will be used in the event of proliferative growth severely inhibiting open-water habitat.

#### **Diquat (Reward – EPA #100-1091 or equivalent)**

Reward is an effective herbicide for partial- and whole-pond treatments due to its rapid mode of action and short herbicide concentration exposure-time requirements. Even though Reward is considered to be a contact-herbicide, longer term control may be seen as plants' root crowns will not be allowed to develop due to the herbicide target-effect.

The USEPA/MA registered herbicide diquat dibromide will be applied to the area at or below the permissible label dose. Reward is a widely-used herbicide, applied to greater than 500 lakes annually, throughout the northeast, to control nuisance submersed aquatic plants. Reward would be applied to control variable milfoil and bladderwort at the application rate of 1.5-2.0 gal/acre, if necessary. Temporary water-use restrictions for Reward are now:

1. No drinking or cooking with treated water for 3 days
2. No irrigation of turf for 3 days and of food crops for 5 days
3. No livestock watering for 1 day

There are no restrictions on swimming, boating or fishing, but prudent herbicide/algacide management suggests that we close the pond on the day of treatment. The shoreline of the pond will be posted with signs warning of these temporary water-use restrictions prior to treatment.

Reward is translocated to some extent within the plant. Its rapid action tends to disrupt the leaf cuticle of plants and acts by interfering with photosynthesis. Upon contact with the soil, it is adsorbed immediately and thereby biologically inactivated. Residual levels of Reward in treated water decline rapidly, and their reduction is due to the uptake by the targeted vegetation and adsorption to suspended soil particles in the water or on the bottom mud. Photochemical degradation accounts for some loss under conditions of high sunlight and clear waters.

#### **Impacts Specific to the Wetlands Protection Act using Diquat<sup>1</sup>**

- Protection of public and private water supply – Benefit (water quality improvement)
- Protection of groundwater supply – Neutral no interaction as diquat is absorbed to soil particles
- Flood control - Neutral (no significant interaction)
- Storm damage prevention – Neutral (no significant interaction)
- Prevention of pollution – Generally neutral (no significant interaction), but could be a detriment if plant die-off causes low oxygen at the bottom of the lake
- Protection of land containing shellfish - Generally neutral (no significant interaction), but reduced algae might reduce food resources for shellfish, and direct toxicity is possible under unusual circumstances
- Protection of fisheries - Possible benefit (habitat enhancement) and possible detriment (food source alteration, loss of cover)
- Protection of wildlife habitat – Possible benefit (habitat enhancement) and possible detriment (food source alteration, loss of cover)

#### **Glyphosate (AquaPro – EPA #62719-324-67690, Rodeo - EPA #62719-312 or equivalent)**

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<sup>1</sup> Commonwealth of Massachusetts Executive Office of Environmental Affairs. *Practical Guide to Lake Management*. 2004. 124 p.

Glyphosate is used to control waterlilies, watershield, and emergent plants such as purple loosestrife or common reed. It is typically applied in July or early August after the plant leaves have broken the water surface. The area and species selective control of Glyphosate allows treatments to "thin" present populations and prevent future expansion. Glyphosate would be applied at the recommended Federal/State concentration of 0.75 gal/acre. There are no water use restrictions associated with the use of Glyphosate other than within a half-mile of a potable water intake, but prudent practice calls for restriction of water usage on the day of treatment as an additional safeguard. These restrictions are consistent with good pesticide practice and Massachusetts's guidelines for aquatic treatments.

Glyphosate is a systemic herbicide and is foliar active, which means its chemical ingredient is active only on contact with the plant. It has no activity in surrounding soil or water. The chemical is applied to the floating leaves and is translocated down into the rhizomes of the plant. Glyphosate is absorbed by plant foliage and moves throughout plant tissues. Once inside the plant, Glyphosate interrupts the plant's ability to produce a protein it needs to live. The protein that Glyphosate targets is found only in plants; it does not exist in humans, wildlife or fish. Glyphosate binds tightly to most types of soil particles and is unavailable for root uptake. There is low potential for leaching or contamination of groundwater with Glyphosate herbicide. Microorganisms in the soil and water break down into its natural components.

#### **Impacts Specific to the Wetlands Protection Act using Glyphosate<sup>2</sup>**

- Protection of public and private water supply – Detriment (prohibition within one quarter mile of surface drinking water supplies due to toxicity), but generally neutral where allowed
- Protection of groundwater supply – Neutral (no interaction)
- Flood control - Neutral (no significant interaction)
- Storm damage prevention – Neutral (no significant interaction)
- Prevention of pollution – Generally neutral (no significant interaction), but could be a detriment if plant die-off causes low oxygen at the bottom of the lake
- Protection of land containing shellfish - Neutral (no significant interaction)
- Protection of fisheries - Possible benefit (habitat enhancement) and possible detriment (food source alteration, loss of cover)
- Protection of wildlife habitat – Possible benefit (habitat enhancement) and possible detriment (food source alteration, loss of cover)

#### **2,4-D (Navigate – EPA #228-378-8959, CleanAmine – EPA #34704-120, or equivalent)**

2,4-D is a systemic herbicide, which allows for area and species selective control of milfoil. Carry-over control following treatment with 2,4-D can be expected and often lasts for 2 seasons or longer. MA DEP has established special requirements for the use of 2,4-D products in the vicinity of drinking water wells. The Association compiled the required additional information and will comply with these DEP requirements.

2,4-D is a systemic herbicide that is absorbed through the roots of the plants. Following root absorption, the herbicide moves upward into the shoots of the plant affecting its enzymes, respiration and cell division. After treatment with 2,4-D, plants begin to die within a week to ten days, and would be expected to fully disappear within two to three weeks following application. The vegetation actively absorbs the chemical. 2,4-D not taken up by plants becomes bound to the bottom sediments, where it is degraded or broken down by microbial (bacteria) and photolytic (light) processes.

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<sup>2</sup> Commonwealth of Massachusetts Executive Office of Environmental Affairs. *Practical Guide to Lake Management*. 2004. 128 p.

### Impacts Specific to the Wetlands Protection Act using 2,4-D<sup>3</sup>

- Protection of public and private water supply – Detriment (prohibition from drinking water supplies due to toxicity)
- Protection of groundwater supply – Possible detriment (prohibition from Zone II well recharge areas due to toxicity, but likelihood of 2,4-D reaching wells is uncertain and controversial)
- Storm damage prevention – Neutral (no significant interaction)
- Prevention of pollution – Generally neutral (no significant interaction), but could be a detriment if plant die-off causes low oxygen at the lake bottom
- Protection of land containing shellfish - Generally neutral (no significant interaction)
- Protection of fisheries - Possible benefit (habitat enhancement) and possible detriment (food source alteration, loss of cover)
- Protection of wildlife habitat – Possible benefit (habitat enhancement) and possible detriment (food source alteration, loss of cover)

### Copper-based Algaecides (Captain – EPA #67690-9, SeClear – EPA #67690-55, GreenGlean PRO – EPA #70299-15, or equivalent)

Approval for the use of a copper-based algaecide is requested in the event that nuisance algae conditions develop, warranting treatment.

Copper based algaecides (i.e. CuSO<sub>4</sub>, Captain, SeClear) are widely used and are applied to lakes and ponds throughout North America to control nuisance filamentous and microscopic algae. There are no water use restrictions associated with copper-based algaecides and SOLitude Lake Management treats several direct, potable (drinking) water reservoirs and a number of recreation waterbodies in the Commonwealth with these algaecides, on a yearly basis. The concentrated liquid algaecides are first diluted with pond water and are then sprayed throughout the pond area. The application rate is generally 0.2 ppm or less for algae control. If applied, treatment will not exceed 50% of the pond volume.

### Impacts Specific to the Wetlands Protection Act using Copper algaecides<sup>4</sup>

- Protection of public and private water supply – Benefit (used to control algae)
- Protection of groundwater supply – Neutral (no significant interaction)
- Flood control - Neutral (no significant interaction)
- Storm damage prevention – Neutral (no significant interaction)
- Prevention of pollution - Generally neutral (no significant interaction), but could be a detriment if algae/plant die-off causes low oxygen at the bottom of the lake or causes release of taste and odor compounds or toxins
- Protection of land containing shellfish - Generally neutral (no significant interaction), but reduced algae might reduce food resources for shellfish, and direct toxicity is possible under unusual circumstances.
- Protection of fisheries - Possible benefit (habitat enhancement) and possible detriment (food source alteration, direct toxicity)

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<sup>3</sup> Commonwealth of Massachusetts Executive Office of Environmental Affairs. *Practical Guide to Lake Management*. 2004. 130 p.

<sup>4</sup> Commonwealth of Massachusetts Executive Office of Environmental Affairs. *Practical Guide to Lake Management*. 2004. 122 p.

- **Protection of wildlife habitat** – Possible benefit (habitat enhancement) and possible detriment (food source alteration, direct toxicity)

All chemical applications will be performed by MA DAR Certified Applicators. The USEPA/MA registered aquatic herbicides will be applied at recommended label rates, in accordance with the ‘Order of Conditions’ and DEP ‘License to Apply Chemicals’ permits. Prior to treatment, the shoreline will be posted with signs, warning of all temporary water-use restrictions prior to treatments. A site specific ‘License to Apply Chemicals’ for the proposed treatments will be filed with MA DEP, Office of Watershed Management.

Proper herbicide application allows for target plant control without posing an unreasonable adverse risk to non-target species and wildlife. Written approval from the Commission will be sought should alternative projects be considered in future years. All products for use will be registered for aquatic use in Massachusetts.

### **Chemical Descriptions**

Detailed information on all the products proposed in this NOI can be found at the **Massachusetts Department of Conservation and Recreation, Lakes and Ponds Program website**. There are links under the Publications tab to the “Generic Environmental Impact Report for Eutrophication and Lake Management in Massachusetts” and the “Practical Guide to Lake Management in Massachusetts”.

< <http://www.mass.gov/eea/agencies/dcr/water-res-protection/lakes-and-ponds/eutrophication-and-aquatic-plant-management.html> >

Additional information on these herbicides can be found at the Massachusetts Department of Agricultural Resources website: < <http://www.mass.gov/eea/agencies/agr/pesticides/aquatic-vegetation-management.html> >

### **2.3 Monitoring**

Pre-management inspections will be conducted in order to finalize the treatment areas and assess the growth phase of the target plant species. Post-management inspections will be conducted in order to assess the efficacy of the management efforts and any impacts on non-target species so future applications can be properly adjusted to minimize non-target impacts. Present plant species will be monthly identified to assess treatment need and overall program efficacy.

As with previous management years, water quality samples will be taken within Noannet and Storrow Ponds to document nutrient levels and any trends occurring within the waterbodies.

## **3.0 ALTERNATIVES TO THE PROPOSED INTEGRATED MANAGEMENT PROGRAM**

Alternatives to the proposed Aquatic Plant Management Program were considered. SŌlitude Lake Management evaluated all available strategies for control of the nuisance aquatic species in Noannet and Storrow ponds, keeping in mind species richness. Findings and recommendations were based on direct experience and discussions found in the *Eutrophication and Aquatic Plant Management in Massachusetts Final Generic Environmental Impact Review* (FGEIR, EOEA 2004).

### ***Mechanical Harvesting: Not Recommended.***

Harvesting of plant material is beneficial in some situations. However, given the shallow nature of the pond and the plant assemblage present in the pond, harvesting would not be an appropriate technique. The dense floating-leaf plant growth will likely regrow within weeks of being cut.

Hydro-raking has been performed at Noannet Pond in the past, but the duration of plant control has been short-lived. Increased turbidity, disruption to the bottom and non-selective removal of desirable vegetation are potential detriments of either mechanical approach.

*Physical: Not Recommended*

Physical controls, such as the use of bottom weed barriers (i.e. Palco and Aquascreen) are effective for small dense patches of nuisance vegetation in much larger waterbodies, most commonly, in swim areas, around docks and piers. Costs for material/ installation are in the range of \$1.00-1.50/sq.-ft. Barriers used over large contiguous tracts would prevent use of the bottom sediments by fish, amphibians, insects and other aquatic organisms and would be cost prohibitive.

*Biological: Not Recommended.*

There are no effective biological controls available or approved by the State for the control of the aquatic plants presently found in the pond.

*Winter Drawdown: Not Recommended*

A waterlevel drawdown in the fall and winter can be an effective control strategy for some aquatic vegetation. Drawdown of Noannet and Storrow ponds is not feasible due to the lack of a low-level outlet structures necessary to gravity-drain the pond. Furthermore, it would be necessary to completely drain the pond to achieve any level of vegetation reduction; thereby, jeopardizing obligate wildlife populations. For these reasons, this is not a feasible management alternative.

*Sediment Excavation: Not Recommended*

Dredging of the nutrient-rich bottom sediment is sometimes used as a strategy to control excessive weed and algae growth. Conventional (dry) or hydraulic dredging would likely require the expenditure of \$20,000 or more in design and permitting fees alone. Dredging would also be very expensive undertaking. Dredging may also have severe impacts to aquatic organisms (i.e. fish, macro invertebrates) in the pond and there is no guarantee that dredging alone will control nuisance weed and algae growth.

*Do Nothing: Not recommended*

If the nuisance aquatic vegetation is allowed to continue to grow unabated, the pond will become further infested with these invasive species. The increased vegetation, algae and organic sediment will degrade fishery and wildlife habitat, accelerate the eutrophication (filling in) of the waterbody and severely impact the aesthetic and recreational value that the pond provides. It is not the goal of this project to rid the pond of all vegetation or organic sediment, but to manage the plants and pond-bottom in order to preserve the valued "open-water" habitat of the pond.

## 4.0 COMPLIANCE

*Massachusetts Wetlands Protection Act*

Controlling densities of nuisance species will typically not adversely affect wildlife habitat and will not negatively impact other interests of the Massachusetts Wetlands Protection Act. No significant alteration to wetland resource areas will occur as a result of the proposed management program; the resource areas will be enhanced by controlling the nuisance plant growth. The proposed management activities are consistent with the guidelines in the following documents:

- Final Generic Environmental Impact Report: Eutrophication and Aquatic Plant Management in Massachusetts (June 2004)
- Guidance for Aquatic Plant Management in Lakes and Ponds: As it Relates to the Wetlands Protection Act (April 2004 – DEP Policy/SOP/Guidelines #BRP/DWM/WW/G04-1)
- The Practical Guide to Lake Management in Massachusetts (2004)

*DEP License to Apply Chemicals*

All chemical applications will be performed by Certified Applicators. The USEPA/MA registered aquatic herbicides will be applied at recommended label rates, in accordance with the "Order of Conditions: and DEP "License to Apply Chemicals" permits (BRP WM04). Prior to treatment the shoreline will be posted



with signs, warning of all temporary water-use restrictions. A site specific “License to Apply Chemicals” for the proposed treatment will be filed with MA DEP, Office of Watershed Management.

#### *Massachusetts Environmental Policy Act*

The strategies proposed in this Notice of Intent are options approved under the Massachusetts Environmental Protection Act (MEPA) process that was approved in 2004 with the issuance of the FGEIR and the Practical Guide to Lake and Pond Management in Massachusetts. These approaches do not require individual MEPA review.

#### *Massachusetts Endangered Species Act*

According to the most recent Natural Heritage maps provided by MA GIS, Noannet and Storrow ponds are not located within an area designated as Priority and Estimated Habitat of Rare Species.

### **5.0 IMPACTS OF THE PROPOSED MANAGEMENT PLAN SPECIFIC TO THE WETLANDS PROTECTION ACT**

#### *Public and Private Water Supply*

To the best of our knowledge there are no direct water supply intakes from the ponds or any “dug” wells used for drawing water within 50 ft. of the water’s edge or within 1,300 ft. of the pond outlet. Aquatic herbicide treatment at the pond will not have any adverse impacts on relative public or private water supply, when used in accordance with the product label and conditions of the MA DEP License to Apply Chemicals.

#### *Protection of Groundwater Supply*

According to available studies, there is no reason to believe that the groundwater supply will be adversely impacted by the application of chemicals to the ponds. Contamination of groundwater by aquatic herbicides is limited by the low rate of application, rapid rate of degradation, and uptake by target plants. SOLitude Lake Management’s State licensed applicators take all necessary precautions when mixing and disposing of all chemical containers.

#### *Flood Control and Storm Damage Prevention*

No construction, dredging, or alterations of the existing floodplain and storm prevention characteristics of the ponds are proposed. However, in some instances, abundant and excessive aquatic plant growth can contribute to high water and flooding. Most commonly this occurs in the vicinity of waterbody outlets or water conveyance channels or structures. The unmanaged annual growth and decomposition of aquatic vegetation is also known to increase sediment deposition. Therefore, the application of aquatic herbicides may increase the ability of the resource area, over the long-term, to provide flood protection.

#### *Prevention of Pollution*

No degradation of water quality or increased pollution is expected by the application of the proposed herbicides. The proposed herbicides are relatively slow acting in controlling the nuisance and non-native vegetation. This results in a slow release of nutrients from the decaying plants, reducing the potential for increases in nutrients that can cause algae blooms. Removal of the excessive growth of aquatic vegetation will contribute to improved water circulation and a reduction in the potential for anoxic conditions. The post-treatment decrease in plant biomass will help to decrease the rate of eutrophication currently caused by the decomposing of excessive plant material.

#### *Protection of Fisheries and Shellfisheries*

The contiguous, dense beds of aquatic vegetation provide poor habitat to fish and other aquatic organisms. The dense plant cover frequently results in significant diurnal fluctuations in dissolved oxygen as well as oxygen depletion during certain times of the year. Dense vegetation growth also may inhibit predator/prey relationships and potentially yield an altered fish population. While temporary effects on some desirable submersed and floating-leafed species may occur following the application of an aquatic herbicide, non-target plants typically rebound quickly.

*Protection of Wildlife and Wildlife Habitat*

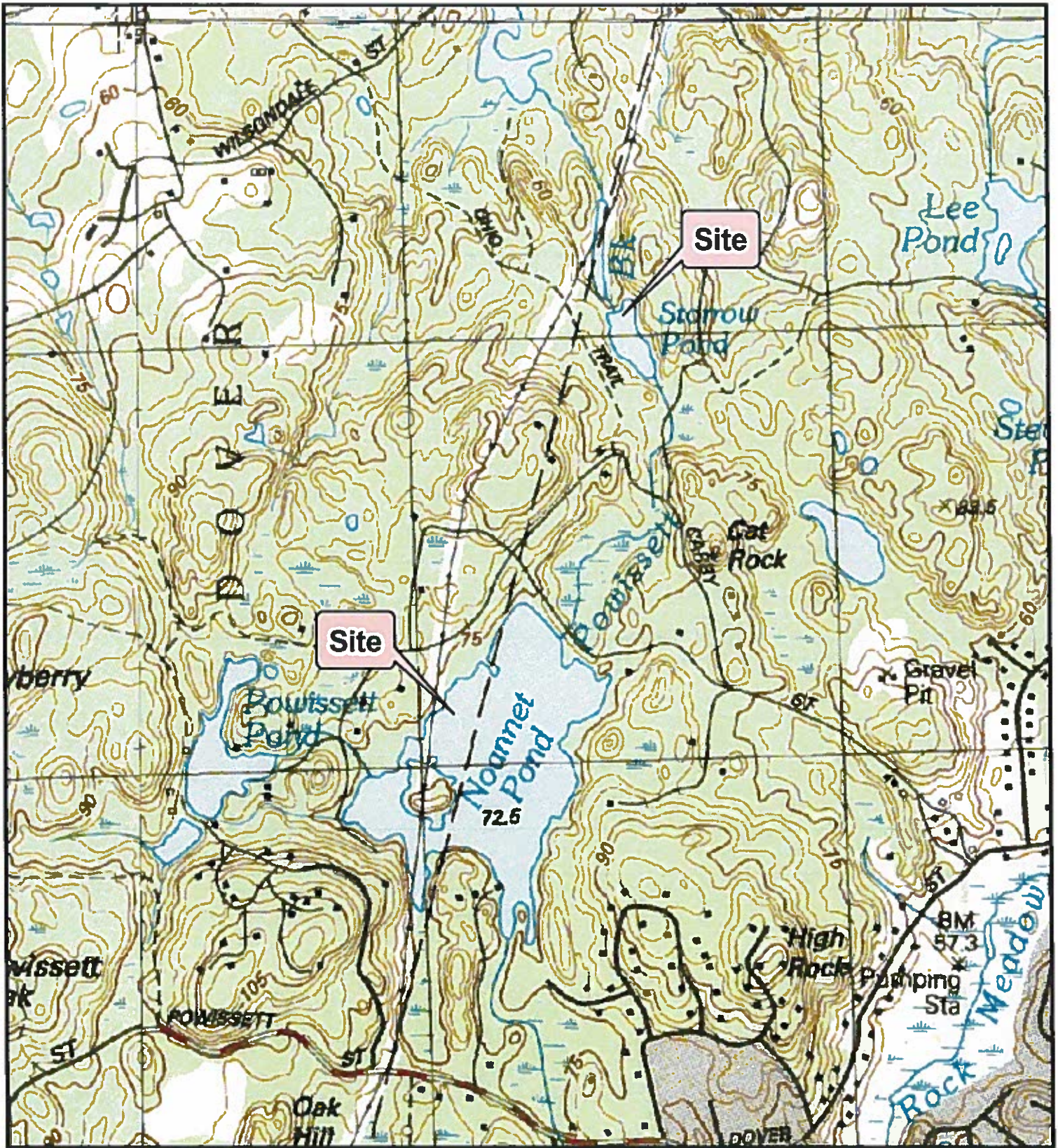
In general, excessive and abundant vegetation provides poor wildlife habitat. The proposed management plan is expected to help prevent further degradation of the waterbody through excessive weed growth and improve the wildlife habitat value of the pond in the long-term. Maintaining a balance of open water and vegetated areas is intended.

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***ATTACHMENT C***

**Figures**





**Noanet & Storrow Ponds**

Hale Reservation  
Westwood / Dover, MA

FIGURE:	SURVEY DATE:	MAP DATE:
1	-	4/14/17

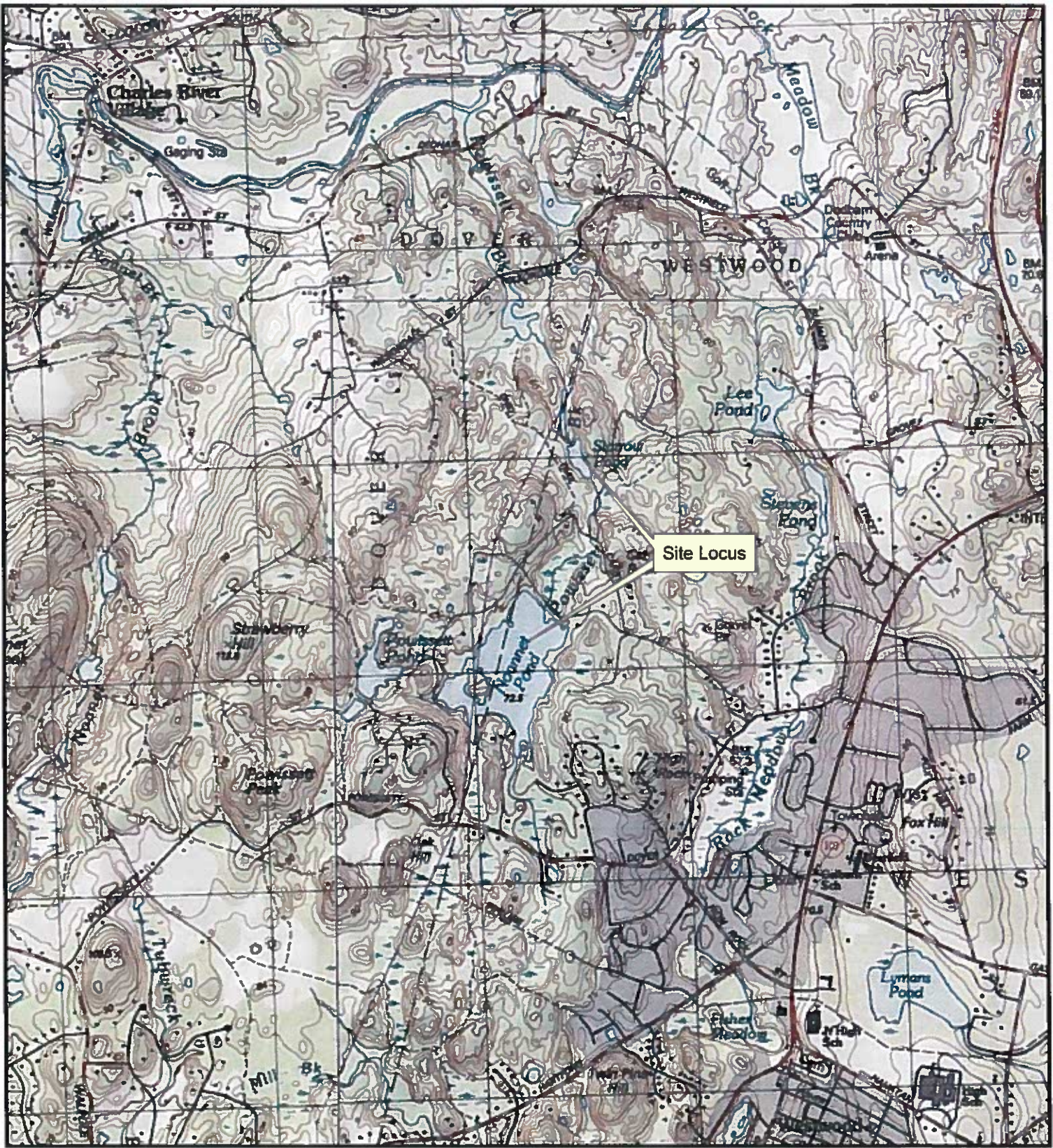
Legend:

N  
▲

0 500 1,000 2,000 Feet

**SOLITUDE**  
LAKE MANAGEMENT  
590 LAKE STREET  
SHREWSBURY MA 01545  
(508) 885-1000  
WWW.SOLITUDELAKEMANAGEMENT.COM





**Hale Reservation**  
 Noannet & Storow Ponds  
 Topographic Map, 1:24,000  
 Westwood / Dover, MA

FIGURE:	SURVEY DATE	MAP DATE
2	-	4/14/17

Legend:

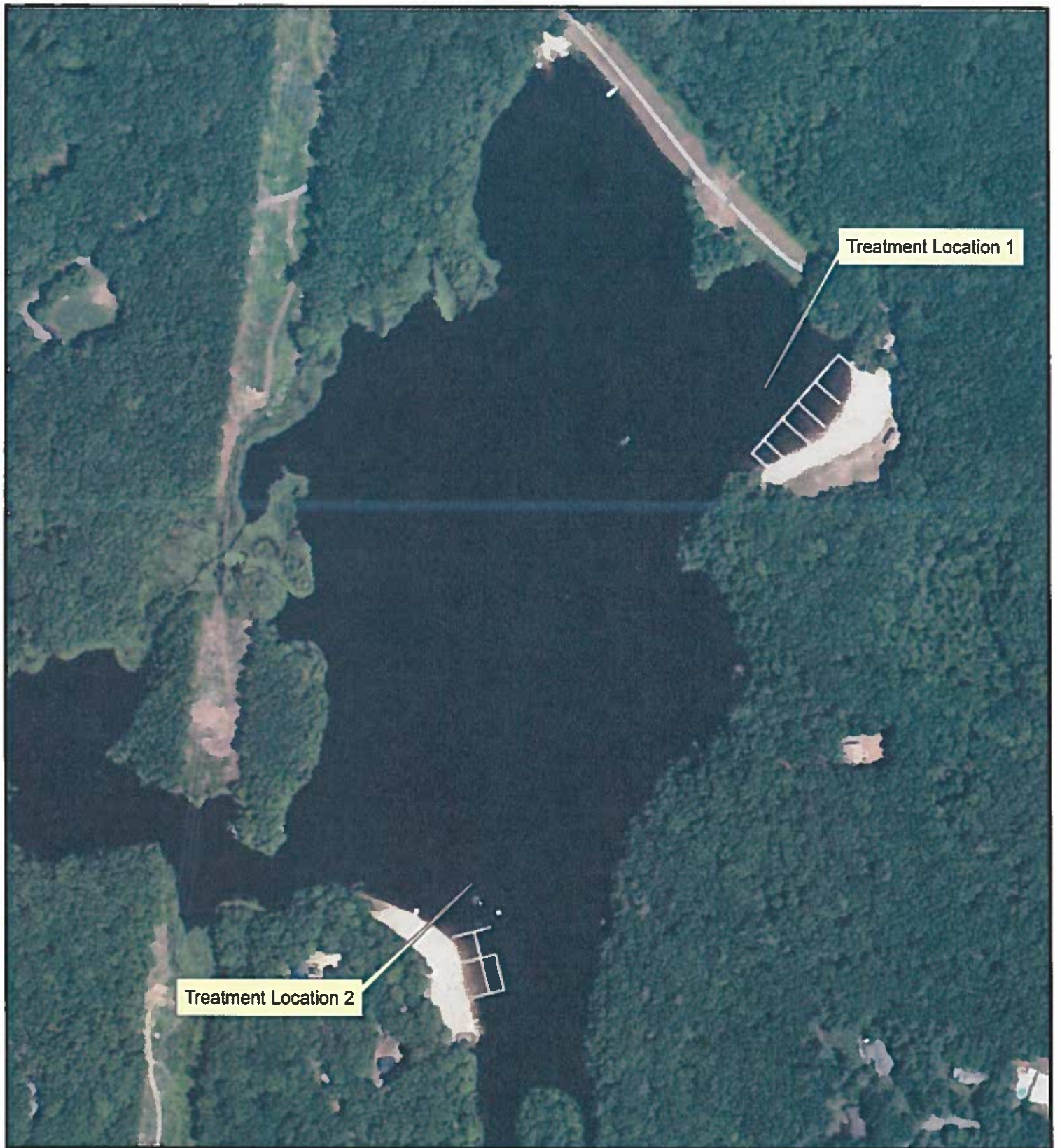
N

0 1,000 2,000 4,000  
 Feet

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 SHREWSBURY MA 01545  
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Treatment Location 1

Treatment Location 2

**Hale Reservation**  
 Noannet Pond  
 Treatment Locations  
 Westwood, MA

Legend:



**SOLITUDE**  
 LAKE MANAGEMENT  
 990 LAKE STREET  
 SHREWSBURY MA 01545  
 (508) 865-1000  
 WWW.SOLITUDELAKEMANAGEMENT.COM

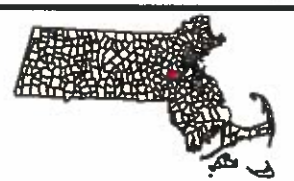


FIGURE:	SURVEY DATE:	MAP DATE:
3a	-	4/14/17





# Hale Reservation

Storrow Pond  
Treatment Location  
Westwood, MA

Legend:



Potential Treatment Area



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FIGURE:

SURVEY DATE:

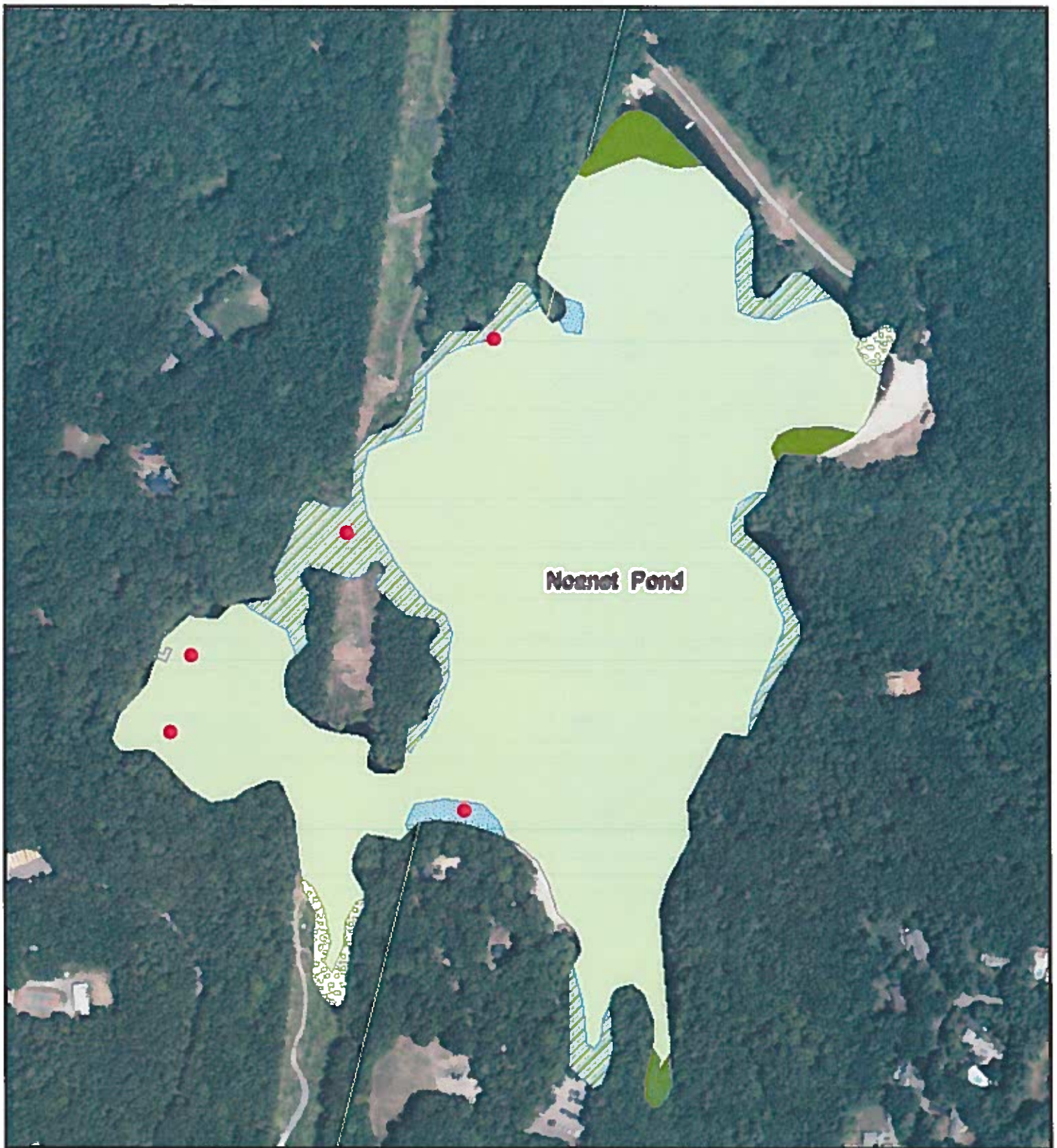
MAP DATE:

3b

-

4/14/17









# Noanet Pond at Hale Reservation

Westwood/Dover, MA

## Vegetation Present

### Legend:

-  Snailseed pondweed
-  Snailseed pondweed and waterlilies
-  Snailseed pondweed, waterlilies, and watershield
-  Waterlilies
-  Variable milfoil



**SOLITUDE**  
LAKE MANAGEMENT

590 LAKE STREET  
SHREWSBURY MA 01545  
(508) 865-1000

WWW.SOLITUDELAKEMANAGEMENT.COM



FIGURE:	SURVEY DATE:	MAP DATE:
4	August 2017	4/14/17





**Storrow Pond at  
Hale Reservation**

Westwood, MA

**Vegetation Assemblage**

Legend:

 Nitella

 Waterlilies

 Variable milfoil



**SOLITUDE**  
LAKE MANAGEMENT

590 LAKE STREET  
SHREWSBURY MA 01545  
(508) 865-1000

[WWW.SOLITUDELAKEMANAGEMENT.COM](http://WWW.SOLITUDELAKEMANAGEMENT.COM)



FIGURE:	SURVEY DATE:	MAP DATE:
5	May 2016	4/14/17

0.00375 0.015 0.0225 0.03

 Miles





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## *ATTACHMENT D*

### **Herbicide/Algaecide Information**

Detailed information herbicides proposed in this NOI can be found at the **Massachusetts Department of Conservation and Recreation, Lakes and Ponds Program website**. There are links under the Publications tab to the "Generic Environmental Impact Report for Eutrophication and Lake Management in Massachusetts" and the "Practical Guide to Lake Management in Massachusetts."

<<http://www.mass.gov/eea/agencies/dcr/water-res-protection/lakes-and-ponds/>>

Additional information on these herbicides can be found at the **Massachusetts Department of Agricultural Resources website**

<http://www.mass.gov/eea/agencies/aqr/pesticides/aquatic-vegetation-management.html>



**NOTICE TO ABUTTERS**  
**Under the Massachusetts Wetlands Protection Act and**  
**Article 18, Westwood Wetland By-law**

**Notice of Intent**

The Westwood Conservation Commission will hold a public hearing, under M.G.L., Chapter 131, Section 40 and Article 18 of the Town of Westwood General Bylaws on

Date: May 10th, 2017

Time: 7:00 AM

Place: 50 Carby Street, Westwood, MA  
Champagne Meeting Room

A permit is requested by Hale Reservation c/o Eric Arnold  
(name of applicant)

80 Carby Street, Westwood MA  
(address of applicant)

The project is located at Noanet Pond & Starrow Pond, Hale Reservation  
(Location of project)

A complete copy of this filing is available to the public at the Office of the Town Clerk.  
Notice of the Conservation Commission meeting is posted in the Town Hall not less than  
48 hours in advance as required by Open Meeting Law.

Westwood Conservation Commission



# DELITUDE E MANAGEMENT

Street • Shrewsbury, MA 01545



7016 3560 0000 4212 4403  
7016 3560 0000 4212 4403

MADEP NERO  
205B Lowell Street  
Wilmington, MA 01887

1. Article Addressed to:
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  - Print your name and address on the reverse so that we can return the card to you.
  - Attach this card to the back of the mailpiece, or on the front if space permits.

D. Is delivery address different from item 1?  Yes  No

B. Received by (Printed Name) \_\_\_\_\_

C. Date of Delivery \_\_\_\_\_

A. Signature \_\_\_\_\_

Addressee  Agent

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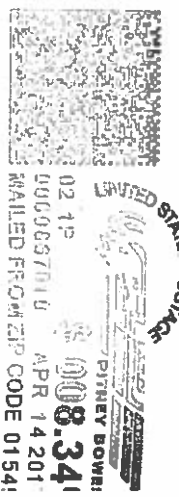
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  - Adult Signature Restricted Delivery

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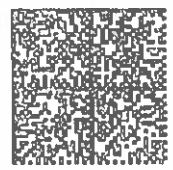
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 7016 1370 0001 8511 4359

PS Form 3800, April 2015 PSN 7530-02-000-9047 See Reverse for Instructions

Dept of Environmental Services  
 Box 4062  
 Boston, MA 02211

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<input type="checkbox"/>	Return Receipt (electronic)	\$
<input type="checkbox"/>	Certified Mail Restricted Delivery	\$
<input type="checkbox"/>	Adult Signature Required	\$
<input type="checkbox"/>	Adult Signature Restricted Delivery	\$
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Certified Mail Fee		\$
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**LEGAL NOTICE OF PUBLIC HEARING  
Massachusetts Wetlands Protection Act  
And**

**Westwood Wetlands Protection By-law, Article 18**

The Westwood Conservation Commission will hold a public hearing, under M.G.L., Chapter 131, Section 40 and Article 18 of Westwood General Bylaws on:

**Date: May 10, 2017**

Time: 7:00 pm

Place: 50 Carby Street

A permit is requested by Hale Reservation

Address – 80 Carby Street, Westwood, MA 02090

**The project is located at 80 Carby Street, Westwood, MA 02090. The applicant is proposing an Order of Conditions for Aquatic Management at Noannet and Storrow Ponds to control nuisance plant growth.**

A complete copy of this filing is available to the public at the Office of the Town Clerk. Notice of the Conservation Commission meeting is posted in Town Hall not less than 48 hours in advance as required by Open Meeting Law.

Westwood Conservation Commission

Please bill – Eric Arnold/Hale Reservation

Address – 80 Carby Street, Westwood, MA 02090

Phone – 781-356-1770



**TOWN OF WESTWOOD**  
Commonwealth of Massachusetts

Joseph E. Previtera, Chairman  
Leo J. Crowe  
William Stowe  
Charles Pace



Steven Woodworth, Vice Chair  
Michael Terry  
John C. Masterson

**CONSERVATION COMMISSION**

**Time Waiver Requirement**

Westwood Conservation Commission  
Westwood Town Hall  
50 Carby Street  
Westwood, MA 02090

Dear Commission:

I hereby waive the benefit of the time requirements set forth in Chapter 131 s. 40, (Wetland Protection Act) of the Massachusetts General Laws, 310 CMR. 10.00 Regulations, and the Town of Westwood Wetlands Protection By-Law, which require the Conservation Commission to convene a hearing and issue a Determination or Order within the time periods specified therein.

The public hearing shall be scheduled for the next available time slot on the meeting agenda upon receipt of the filing of a COMPLETE Notice of Intent or Request for Determination of Applicability.

The Order of Conditions or Determination of Applicability shall be issued within 45 days of the close of the public hearing.

Begita Arnold  
Applicant's or Representative's Signature

4/17 2017  
Date

Applicant's Name Hale Reservation c/o Eric Arnold & Jay Walsh

Project Location : Noanet Pond & Storrow Pond, Hale Reservation

Project Type: Agrotic plant management

Westwood Conservation Commission  
50 Carby Street  
Westwood, MA 02090

Phone (781) 251-2580  
Fax (781) 461-6837



**TOWN OF WESTWOOD**  
Commonwealth of Massachusetts

Joseph E. Previtera, Chairman  
Leo J. Crowe  
William Stowe  
Charles Pare



Steven Woodworth, Vice Chair  
Michael Terry  
John C. Masterson

**CONSERVATION COMMISSION**

**Wetland Permit Application: Town Clerk**

Westwood Conservation Commission  
Westwood Town Hall  
50 Carby Street  
Westwood, MA 02090

Dear Commission:

I here certify that a complete copy of the application and plans submitted to the Westwood Conservation Commission for a permit under the Wetland Protection Act, M.G.L. c. 131, s40 and/or the Westwood Wetlands Protection Bylaw, Article 18 has been filed with the Westwood Town Clerk.

The application was submitted to the Town Clerk on (date) 4/14 2017 for 4/17 2017 submission

Baggett Arida  
Applicant's or Representative's Signature

4/14 2017  
Date

Applicant's Name Hale Reservation c/o Eric Arnold & Jay Walsh

Project Location : Moanet Pond & Stronow Pond, Hale Reservation

Project Type: Aquatic Plant management

Westwood Conservation Commission  
50 Carby Street  
Westwood, MA 02090

Phone (781) 251-2580  
Fax (781) 461-6837

