



# WPA Form 3 – Notice of Intent

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

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):

131 Bay Colony Drive

a. Street Address

Westwood

b. City/Town

02090

c. Zip Code

Latitude and Longitude:

d. Latitude

e. Longitude

Map 22

f. Assessors Map/Plat Number

Parcel 33

g. Parcel /Lot Number

2. Applicant:

Edward & Julie

a. First Name

Hennigan

b. Last Name

c. Organization

131 Bay Colony Drive

d. Street Address

Westwood

e. City/Town

MA.

f. State

02090

g. Zip Code

781-329-0339

h. Phone Number

i. Fax Number

j. Email Address

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

a. First Name

b. Last Name

c. Organization

d. Street Address

e. City/Town

f. State

g. Zip Code

h. Phone Number

i. Fax Number

j. Email address

4. Representative (if any):

Paul

a. First Name

DeSimone

b. Last Name

Colonial Engineering Inc.

c. Company

11 Awl Street

d. Street Address

Medway

e. City/Town

Ma.

f. State

02053

g. Zip Code

508-533-1644

h. Phone Number

508-533-1645

i. Fax Number

colonial.eng@verizon.net

j. Email address

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

110.00

a. Total Fee Paid

42.50

b. State Fee Paid

67.50

c. City/Town Fee Paid



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Provided by MassDEP:

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## A. General Information (continued)

6. General Project Description:

To fill 303 s.f. of isolated wetlands and 1,055 s.f. of replication. Also planting of trees & shrubs.

7a. Project Type Checklist:

- |   |   |
|---|---|
| 1. <input checked="" type="checkbox"/> Single Family Home     | 2. <input type="checkbox"/> Residential Subdivision                   |
| 3. <input type="checkbox"/> Limited Project Driveway Crossing | 4. <input type="checkbox"/> Commercial/Industrial                     |
| 5. <input type="checkbox"/> Dock/Pier                         | 6. <input type="checkbox"/> Utilities                                 |
| 7. <input type="checkbox"/> Coastal Engineering Structure     | 8. <input type="checkbox"/> Agriculture (e.g., cranberries, forestry) |
| 9. <input type="checkbox"/> Transportation                    | 10. <input type="checkbox"/> Other                                    |

7b. Is any portion of the proposed activity eligible to be treated as a 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:

2. Limited Project

8. Property recorded at the Registry of Deeds for:

Norfolk

a. County

26465

c. Book

b. Certificate # (if registered land)

392

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.

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. square feet
c. <input type="checkbox"/> Land Under Waterbodies and Waterways	1. square feet 3. cubic yards dredged	2. square feet



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

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

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)

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

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

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



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

	<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. <input type="checkbox"/> 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. <input type="checkbox"/> Project Involves Stream Crossings		
	_____	_____
	a. number of new stream crossings	b. number of replacement stream crossings

## C. Other Applicable Standards and Requirements

### 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://www.mass.gov/dfwele/dfw/nhESP/regulatory\\_review/priority\\_habitat/online\\_viewer.htm](http://www.mass.gov/dfwele/dfw/nhESP/regulatory_review/priority_habitat/online_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  
100 Hartwell Street, Suite 230  
West Boylston, MA 01583

2008  
b. Date of map \_\_\_\_\_



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

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.1.d, 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).*

### 1. 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

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 \*\*\*\*

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

(b)  Photographs representative of the site

(c)  MESA filing fee (fee information available at:

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

### d. 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/esa\\_exemptions.htm](http://www.mass.gov/dfwele/dfw/nhesp/regulatory_review/mesa/esa_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

\* Some projects not in Estimated Habitat may be located in Priority Habitat, and require NHESP review (see <http://www.mass.gov/dfwele/dfw/nhesp/nhesp.htm>, regulatory review tab). 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)

3.  Separate MESA review completed.  
Include copy of NHESP "no Take" determination or valid Conservation & Management Permit with approved plan.
2. 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 or hand delivery of NOI to either:
- |   |  |
|---|--|
| South Shore - Cohasset to Rhode Island, and the Cape & Islands:   | North Shore - Hull to New Hampshire:   |
| Division of Marine Fisheries - Southeast Marine Fisheries Station<br>Attn: Environmental Reviewer<br>1213 Purchase Street – 3rd Floor<br>New Bedford, MA 02740-6694 | Division of Marine Fisheries - North Shore Office<br>Attn: Environmental Reviewer<br>30 Emerson Avenue<br>Gloucester, MA 01930 |

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.

3. 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
- 
4. 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
5. 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
6. 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:
- Applying for Low Impact Development (LID) site design credits (as described in Stormwater Management Handbook Vol. 2, Chapter 3)
  - A portion of the site constitutes redevelopment
  - Proprietary BMPs are included in the Stormwater Management System.
- b.  No. Check why the project is exempt:
- Single-family house

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



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

- 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

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.
- 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.

Plan of Land in Westwood, Ma.

a. Plan Title

COLONIAL ENGINEERING INC.

b. Prepared By

Paul J. DeSimone

c. Signed and Stamped by

1"=20'

d. Final Revision Date

e. Scale

f. Additional Plan or Document Title

8/9/2016

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.



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## 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:

2. Municipal Check Number	1699	3. Check date	9/16/16
4. State Check Number	1697	5. Check date	9/16/16
6. Payor name on check: First Name	Edward & Julie	7. Payor name on check: Last Name	Hennigan

## 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	Edward & Julie Hennigan	2. Date	9.16.16
3. Signature of Property Owner (if different)	Julie Hennigan Edward & Julie Hennigan	4. Date	9.16.16
5. Signature of Representative (if any)	[Signature]	6. Date	9/16/16

### For Conservation Commission:

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

### For MassDEP:

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

### Other:

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

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





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

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



**A. Applicant Information**

1. Location of Project:

131 Bay Colony Drive

Medway

a. Street Address

b. City/Town

1697

42.50

c. Check number

d. Fee amount

2. Applicant Mailing Address:

Edward & Julie

Hennigan

a. First Name

b. Last Name

c. Organization

131 Bay Colony Drive

d. Mailing Address

Westwood

MA.

02090

e. City/Town

f. State

g. Zip Code

781-329-0339c

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 filling 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 1B			110.00

**Step 5/Total Project Fee:** \_\_\_\_\_

**Step 6/Fee Payments:**

Total Project Fee:	110.00
State share of filing Fee:	42.50
City/Town share of filing Fee:	67.50
	a. Total Fee from Step 5
	b. 1/2 Total Fee less \$12.50
	c. 1/2 Total Fee plus \$12.50

**C. Submittal Requirements**

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

Department of Environmental Protection  
Box 4062  
Boston, MA 02211

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

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

**MUNICIPAL SERVICE ENGINEERING, INC**

**P.O BOX 193**

**MEDWAY, MASS 02054**

**23 April, 2016**

**(Additional notes 6/2/16)**

**Colonial Engineering, Inc.**

**11 Awl Street**

**Medway, Mass 02053**

Ref: Resource Area Delineation, 131 Bay Colony Dr. Westwood, Mass.

On 18 April, 2016 a field visit was made to the site. Resource Area(s) in accordance to the Massachusetts Wetlands Protection Act (MWPA) and to the Westwood Wetlands Protection By-Laws were delineated. The dominance of wetlands vegetation, supported by hydric soils or by other *wetland* hydrology indicators were used in identifying areas subject to protection. Two Delineation Field Data Forms are attached. One for the wetland observation plot (it's ground elevation can be used as a biological benchmark for mitigation extending into adjacent upland areas) and one for the upland observation plot. Reference is made to the surveyor's plot plan and to the munsel soil chart.

One delineation consists of 9 flags, marking out the edge of a Bordering Vegetated Wetland. The upland side of the delineation consists of a woodland area.

Vegetation in the **wetlands** near the 9 flags is dominated by shallow rooted - buttressed red maple trees. Shrubs consist of winterberry, spicebush and some sweet pepperbush and highbush blueberrys. Groundcovers include skunk cabbage along with some sporadic Canada mayflower. This vegetative community is supported by a mucky topsoil, low chroma mottled subsoils, a saturated soil profile and water at the ground surface in low areas. According to web soil survey map, the stream within this swamp is located approx. 200 feet+ into the wetlands from the flagging.

In contrast, most of the **uplands** adjacent to the flagging consist of drier woodlands. Trees of red oaks, some white pines and witch-hazel shrubs are present. Soils mostly consist of non-hydric subsoils, with mottling below 12" of the ground surface.

Flags Hy1-Hy13 mark out a low, rocky depression in the ground where hydric soils are present. Low chroma mottled soil horizons mostly start about 10" below the ground surface, where there is *prolonged* saturation/water table. The stumps of cut trees and shrubs are present in these soils.

Most of these stumps are still "living", with their root systems. They include tree stumps of red oaks: **facu** , red maples: **fac** and white pines: **facu**. Small stumps of witch-hazels, a **fac**- shrub are also present. Some of the live stumps are slightly buttressed which are normally found in rocky areas. Along with Canada mayflower, a **fac**- plant, a profuse groundcover of red oak seedlings were observed on 6/1/16. The one skunk cabbage plant by flag HY7 is in a dessicated condition.

The status of the vegetation in the **bordering vegetated wetlands, and within flags Hy1-Hy13** are both taken from the 1988 Fish and Wildlife National List of Plant Species That Occur In Wetlands-Region I-Northeast. These **two areas** have a groundwater hydraulic connection, however intermittent.

In effect, the hydric soils within most of flags Hy1-Hy13 are not supporting a majority of wetland vegetation (as judged by the live stumps) and was not delineated. Remnant vegetation near flag Hy13 is not present. In reference to this narrow finger shaped area, mention is made of the "500" square feet permitted by the MWPA, in 310 CMR 10.55(4) (C).

All work in the area of question, - within 100 feet of an approved wetland line, must be approved by the Westwood Conservation Commission and the Department of Environmental Protection.

Resource Area identification, flagging, land description, analysis, report and related work are subject to review and alteration by permit issuing authorities.

Regards, Ivan Szilassy;

BS University of Massachusetts/Amherst 1983

Environmental Sciences and Forestry, (Incl. hydrology and engineering courses).

Wetland delineator, Soil evaluator, and Registered sanitarian.

DEP Bordering Vegetated Wetland (310 CMR 10.55) Delineation Field Data Form

Applicant: \_\_\_\_\_ Prepared by: MSE/IBS Project location: \_\_\_\_\_ DEP File #: \_\_\_\_\_

Check all that apply:

- Vegetation alone presumed adequate to delineate BWB boundary: fill out Section I only
- Vegetation and other indicators of hydrology used to delineate BWB boundary: fill out Sections I and II
- Method other than dominance test used (attach additional information)

Section I. Vegetation Observation Plot Number: W1 (Wetland) Transect Number: 1 Date of Delineation: 4/18/16

A. Sample Layer and Plant Species B. Percent Cover (or basal area) C. Percent Dominance D. Dominant Plant (yes or no) E. Wetland Indicator Category\*

TREES:

Red maple: Acer rubrum 63/63 100% 70% fac \*

SHRUBS:

white Pine: PINUS strobus 20.5 66 70% fac \*

winterberry: ILEX verticillata 10.5/31 34/100% 70% fac + \*

Ground cover:

SKUNK cabbage Symplocarpus foetidus 10.5/10.5 100% YES OBL \*

\* Use an asterisk to mark wetland indicator plants: plant species listed in the Wetlands Protection Act (MGL c.131, s.40); plants in the genus Sphagnum; plants listed as FAC, FAC+, FACW, FACW+, or OBL; or plants with physiological or morphological adaptations. If any plants are identified as wetland indicator plants due to physiological or morphological adaptations, describe the adaptation next to the asterisk.

Vegetation conclusion:

Number of dominant wetland indicator plants: 3 Number of dominant non-wetland indicator plants: 1

Is the number of dominant wetland plants equal to or greater than the number of dominant non-wetland plants? yes no

If vegetation alone is presumed adequate to delineate the BWB boundary, submit this form with the Request for Determination of Applicability or Notice of Intent.

Section II. Indicators of Hydrology

Hydric Soil Interpretation

1. Soil Survey

Is there a published soil survey for this site?  yes  no

title/date: web soil survey may 2016

map number: 312 B woodbridge

soil type mapped:

hydric soil inclusions:

Are field observations consistent with soil survey?  yes  no

Remarks: soil profile best fits whitman series

Horizon	Depth	Matrix Color	Mottles Color
A	~ 0-12"	10YR 3/2	3% 10YR 5/2
B <sub>g</sub>	~ 12"-15"	10YR 4/2	3% 10YR 6/6
R	15"+		

Remarks: poorly to w poorly drained soils

3. Other: R is ground refusal/hardpan etc.

Conclusion: Is soil hydric?  yes  no

Other Indicators of Hydrology: (check all that apply and describe)

- site inundated: few feet from observation plot
- Depth to free water in observation hole: 6"
- Depth to soil saturation in observation hole: near surface
- Water marks: -
- Drift lines: -
- Sediment deposits: -
- Drainage patterns in BWV: -
- Oxidized rhizospheres: -
- Water stained leaves: some present
- Recorded data (stream, lake, or tidal gauge; aerial photo; other): -
- Other: -

Vegetation and Hydrology Conclusion	
Number of wetland indicator plants	yes <input checked="" type="checkbox"/> no <input type="checkbox"/>
> number of non-wetland indicator plants	<input checked="" type="checkbox"/>
Wetland hydrology present: hydric soil present:	<input checked="" type="checkbox"/>
other indicators of hydrology present:	<input checked="" type="checkbox"/>
Sample location is in a BWV	<input checked="" type="checkbox"/>

Submit this form with the Request for Determination of Applicability or Notice of Intent.

DEP Bordering Vegetated Wetland (310 CMR 10.55) Delineation Field Data Form

Applicant: \_\_\_\_\_ Prepared by: ASE/IGS Project location: \_\_\_\_\_ DEP File #: \_\_\_\_\_

Check all that apply:

- Vegetation alone presumed adequate to delineate BWB boundary: fill out Section I only
- Vegetation and other indicators of hydrology used to delineate BWB boundary: fill out Sections I and II
- Method other than dominance test used (attach additional information)

Section I. Vegetation Observation Plot Number: U (Sprink) Transect Number: 1 Date of Delineation: 4/18/16

A. Sample Layer and Plant Species (by common/scientific name)

B. Percent Cover (or basal area)	C. Percent Dominance	D. Dominant Plant (yes or no)	E. Wetland Indicator Category*
<u>38</u>	<u>65</u>	<u>Yes</u>	<u>FAC-A</u>
<u>20.5 / 58.5</u>	<u>35 / 100%</u>	<u>Yes</u>	<u>FACU</u>
<u>with-hazel</u>	<u>100%</u>	<u>Yes</u>	<u>FAC -</u>

TREES:

Red maple  
White Pine

SHAUBS:

Hamamelis virginiana

GRASS COVER:

\* Use an asterisk to mark wetland indicator plants: plant species listed in the Wetlands Protection Act (MGL c.131, s.40); plants in the genus *Sphagnum*; plants listed as FAC, FAC+, FACM, FACM+, or OBU; or plants with physiological or morphological adaptations. If any plants are identified as wetland indicator plants due to physiological or morphological adaptations, describe the adaptation next to the asterisk.

Vegetation conclusion:

Number of dominant wetland indicator plants: | Number of dominant non-wetland indicator plants: 2

Is the number of dominant wetland plants equal to or greater than the number of dominant non-wetland plants? yes no

If vegetation alone is presumed adequate to delineate the BWB boundary, submit this form with the Request for Determination of Applicability or Notices of Intent. MA DEP, 3/95

Section II. Indicators of Hydrology

Hydric Soil Interpretation

1. Soil Survey

Is there a published soil survey for this site?  yes  no

title/date: W&B Soil Survey May 2016

map number: 312 B Woodbridge

soil type mapped:

hydric soil inclusions:

Are field observations consistent with soil survey?  yes  no

Remarks:

moderately drained soils

2. Soil Description

Horizon	Depth	Matrix Color	Mottles Color
A	0-6	10YR 3/2	—
Bw <sub>1</sub>	6-16	10YR 5/4	—
Bw <sub>2</sub>	16-20	10YR 6/4, 6/6	5% 10YR 6/3 mottles
Cr	20+	2.5Y 6/2-6/3	5% 10YR 6/6

Remarks:

3. Other:

Conclusion: Is soil hydric?  yes  no

Other Indicators of Hydrology: (check all that apply and describe)

- Site inundated: \_\_\_\_\_
- Depth to free water in observation hole: \_\_\_\_\_
- Depth to soil saturation in observation hole: \_\_\_\_\_
- Water marks: \_\_\_\_\_
- Drift lines: \_\_\_\_\_
- Sediment deposits: \_\_\_\_\_
- Drainage patterns in BW: \_\_\_\_\_
- Oxidized rhizospheres: \_\_\_\_\_
- Water-stained leaves: \_\_\_\_\_
- Recorded data (stream, lake, or tidal gauge; aerial photo; other): \_\_\_\_\_
- Other: \_\_\_\_\_

Vegetation and Hydrology Conclusion		yes	no
Number of wetland indicator plants	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
> number of non-wetland indicator plants	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Wetland hydrology present:	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
hydric soil present	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
other indicators of hydrology present	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Sample location is in a BW	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>

Submit this form with the Request for Determination of Applicability or Notice of Intent.



After recording, return to:

Fryer + O'Brien LLC  
9 Whiting Rd  
PO Box 16  
Dover, Ma 02030

MASSACHUSETTS STATE EXCISE TAX  
Norfolk Registry of Deeds  
Date: 03-20-2009 @ 03:14pm  
Ct1#: 2532 Doc#: 27769  
Fee: \$5,130.00 Cons: \$1,125,000.00

RECEIVED AND RECORDED  
NORFOLK COUNTY  
REGISTRY OF DEEDS  
DEDHAM, MA

CERTIFY

*William P. O'Donnell*  
WILLIAM P. O'DONNELL, REGISTER

QUITCLAIM DEED

I, SUSAN W. SCALES, of Westwood, Norfolk County, Massachusetts

for consideration paid and in full consideration of ONE MILLION ONE HUNDRED TWENTY FIVE THOUSAND and 00/100 (\$1,125,000.00) DOLLARS

grant to EDWARD HENNIGAN AND JULIE HENNIGAN, husband and wife, as tenants by the entirety, of 131 Bay Colony Drive, Westwood, Norfolk County, Massachusetts

*with quitclaim covenants*

A certain parcel of land with the buildings thereon situated on Bay Colony Drive, Westwood, Norfolk County, Massachusetts being designated and shown as Lot 16 on a plan entitled "The Crossways" plan of land in Westwood, Mass., dated January 12, 1976, revised March 22, 1976, Norwood Engineering Co., Inc., Civil Engineers, recorded with Norfolk Registry of Deeds as Plan No. 210 of 1976, Plan Book 254, and bounded and described according to said plan as follows:

WESTERLY	by Bay Colony Drive, as shown on said plan, 184.00 feet;
NORTHERLY	by Lot 15, as shown on said plan, 429.49 feet;
EASTERLY	by land now or formerly of Polaroid Corporation, as shown on said plan, 338.39 feet; and
SOUTHERLY	by Lot 17, as shown on said plan, 352.52 feet.

Excepting and excluding from the above described land the fee and soil as said Bay Colony Drive as lies opposite Lot 16, but however, including the right to use said Bay Colony Drive in common with all those entitled thereto for all purposes for which streets and ways are used in the Town of Westwood.

Said Lot 16 is subject to any easements, restrictions, and encumbrances of record, in so far as the same may now be in force and applicable.

For Grantor's Title see Deed recorded with the Norfolk County Registry of Deeds in Book 15837, Page 472.

Property Address: 131 Bay Colony Drive, Westwood, MA 02090

CASH \$5130.00  
 FEE \$5130.00  
 13/20/09 3:15PM  
 0000002064  
 01  
 CANCELLED  
 DEEDS REG#17  
 NORFOLK  
 MAR 20 2009  
 DEDHAM

WITNESS my hand and seal this 19<sup>th</sup> day of March, 2009.

Susan W. Scales  
SUSAN W. SCALES

**COMMONWEALTH OF MASSACHUSETTS**

Norfolk, ss

On this 19<sup>th</sup> day of March, 2009, before me, the undersigned notary public, personally appeared Susan W. Scales, and proved to me through satisfactory evidence of identification, which was  photo identification/driver's license,  personal knowledge, to be the person(s) whose name is/are signed on the preceding or attached document, and acknowledged to me that he/she/they signed it voluntarily for its stated purpose.



[Signature]  
Notary Public:  
My commission expires.

TOWN OF WESTWOOD  
Commonwealth of Massachusetts

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



Westwood Conservation Commission  
Michael Ferris  
Robert C. Peterson

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.

Ed Ferris  
Applicant's or Representative's Signature

9/16/16  
Date

Applicant's Name Edward & Julie Hennigan

Project Location : 131 Bay Colony Dr.

Project Type: Residential

Westwood Conservation Commission  
50 Carby Street  
Westwood, MA 02090

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

**Worksheet for Fees**  
**Westwood Wetlands Bylaw – Article 18**  
**(in Addition to DEP filing Fees)**

Applicant: Edward & Julie Hennigan

Address: 131 Bay Colony Dr. Westwood, MA

Location of Project: 131 Bay Colony

Notice of Intent

- |   |          |                         |   |
|---|----------|-------------------------|---|
| 1. Minor project                        | _____    | \$100.00                |   |
| 2. Major project                        | <u>X</u> | \$250.00                | plus \$1.00 additional sq. ft. <u>3,364 S.F.</u>            |
| 3. New single family home               | _____    | \$500.00                | plus \$1.00 per 10 sq. ft. of disturbance                   |
| 4. Subdivision road and utility         | _____    | \$750.00                | plus \$5.00 per road sideline in resource or buffer zone    |
| 5. Drainage detention/retention         | _____    | \$750.00                | plus \$1.00 per 10cf. of basin in resource or buffer zone   |
| 6. Multiple Dwelling                    | _____    | \$500.00                | plus \$100.00/unit and \$1.00 per 10 sq. ft. of disturbance |
| 7. Commercial institutional, industrial | _____    | \$750.00                | plus \$1.00 per 10 sq. ft. of disturbance                   |
| 8. Request for Det. of Applicability    | _____    | @ \$50.00               |   |
| 9. ANORAD                               | _____    | \$750.00                | plus \$1.00 per 10 sq. ft. of disturbance                   |
| 10. Application filed after enforcement | _____    | Double application fees |   |
| 11. Amendments                          | _____    | \$100.00                |   |
| 12. Certificate of Compliance           |          |                         |   |
| Residence                               | _____    | \$100.00                |   |
| Non Residence                           | _____    | \$100.00                |   |
| Commercial or subdivision               | _____    | \$200.00                |   |
| 13. Emergency Certificate               | _____    | \$100.00                |   |
| 14. Agent Site Visit                    |          |                         |   |
| Resident                                | _____    | \$25.00                 | per hour  |
| Non Resident                            | _____    | \$45.00                 | per hour  |

Total \$ 3614.00

See Westwood Wetlands Protection Bylaw Regulations for more detail.



**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

*May 10, 2016*

*Edward Hennigan  
Julie Hennigan  
131 Bay Colony Drive  
Westwood, Mass, 02090*

*Dear Mr. & Mrs. Hennigan,*

*Attached please find a list of abutters and abutters to abutters within 300' of the locus,  
131 Bay Colony Drive, Westwood known as Assessor's Map 22, Lot 033*

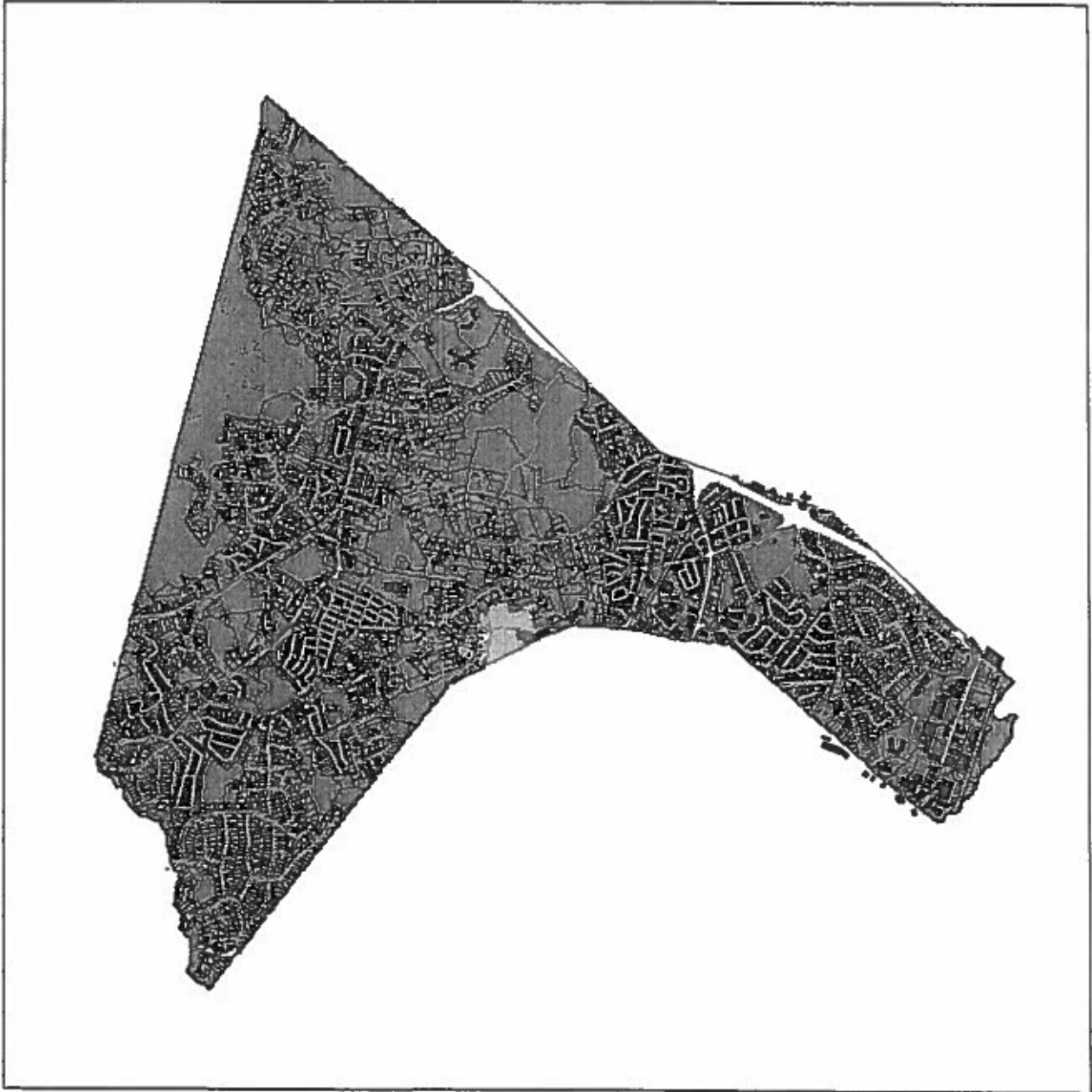
*This list reflects owners of record as of January 1, 2016 or current owners, according to our records.*

*Sincerely,*  


*Michael Krone  
Assessor*

*djr*

ABUTTERS FOR 131 BAY COLONY DR



MAP 22, LOT 033

WESTWOOD BOARD OF ASSESSORS



ABUTTERS LIST FOR 131 BAY COLONY DRIVE  
WESTWOOD, MA

MAP & LOT	OWNER	CO-OWNER	Mailing Address	City	St Zip	Location
22025	FRANGIEH GEORGE T	CAROL L	158 BAY COLONY DR	WESTWOOD	MA 02090	158 BAY COLONY DR
22031	GREENBERG PAUL R	GOLDBERG RENEE M	157 BAY COLONY RD	WESTWOOD	MA 02090	157 BAY COLONY DR
22032	SETHI PARVINDER S	SUKHVINDER KAUR	145 BAY COLONY DR	WESTWOOD	MA 02090	145 BAY COLONY DR
22033	HENNIGAN EDWARD	JULIE HENNIGAN	131 BAY COLONY DR	WESTWOOD	MA 02090	131 BAY COLONY DR
22052	TOWN OF WESTWOOD		580 HIGH ST	WESTWOOD	MA 02090	CLAPBOARDTREE ST
22084	TOWN OF WESTWOOD	CONSERVATION COMMISSION	580 HIGH ST	WESTWOOD	MA 02090	CLAPBOARDTREE ST
30009	KHAN KHALID N A	NIGAR K	90 BAY COLONY DR	WESTWOOD	MA 02090	90 BAY COLONY DR
30010	PETER T ITTIG TRUST	PETER T ITTIG, TRUSTEE	108 BAY COLONY DR	WESTWOOD	MA 02090	108 BAY COLONY DR
30011	MARS REALTY TRUST	PASQUALE O COMPAGNONE TRU	126 BAY COLONY DR	WESTWOOD	MA 02090	126 BAY COLONY DR
30012	VENTURA INDV. ROBERT G.		115 BAY COLONY DR	WESTWOOD	MA 02090	115 BAY COLONY DR
30013	OWENS, INDV. SUE		97 BAY COLONY DR	WESTWOOD	MA 02090	97 BAY COLONY DR

NOTICE TO ABUTTERS  
Under the Massachusetts Wetlands Protection Act  
and  
Westwood Wetland Bylaw

**Notice of Intent**

The Westwood Conservation Commission will hold a public hearing, under M.G.L. Chapter 131, Section 40 and the Westwood Wetland Bylaw on

Date: OCT 12 2016

Time: 7:00 PM

Place: 50 CARRY ST.  
WESTWOOD, MA. 02090

A permit is requested by Edward & Julie Hennigan  
of 131 Bay Colony Dr. Westwood, MA.

The property is located at 131 Bay Colony Dr.

A complete copy of this filing is available to the public at the Westwood Conservation Commission office. 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.

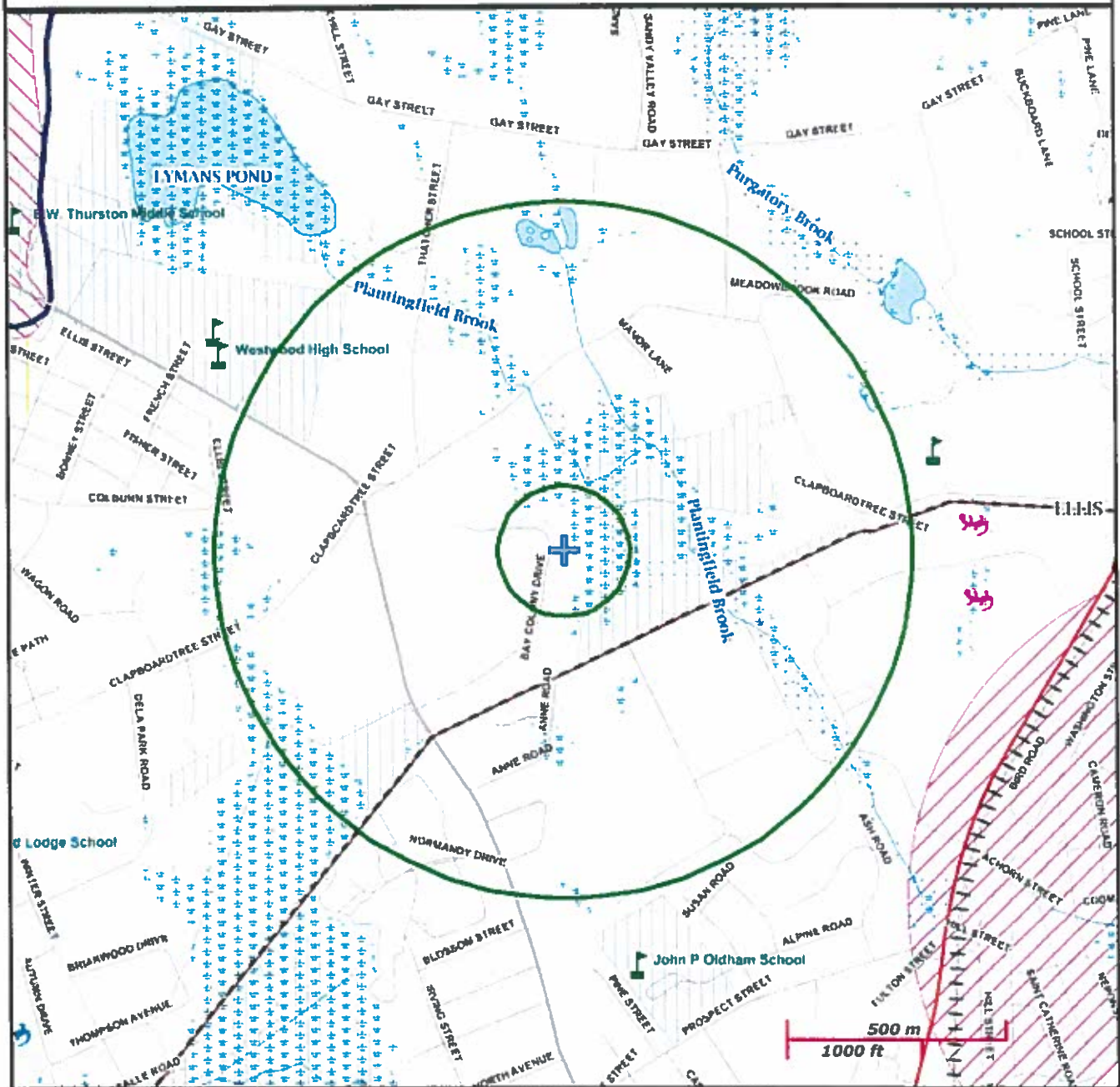


# MassDEP - Bureau of Waste Site Cleanup

**Site Information:**  
 131 BAY COLONY DRIVE WESTWOOD, MA  
**NAD83 UTM Meters:**  
 5192894mN, -7928723mE (Zone: 18)  
 September 20, 2016

## Phase 1 Site Assessment Map: 500 feet & 0.5 Mile Radii

The information shown is the best available at the date of printing. However, it may be incomplete. The responsible party and LSP are ultimately responsible for ascertaining the true conditions surrounding the site. Metadata for data layers shown on this map can be found at <http://www.mass.gov/mgis/>



Roads: Limited Access, DMV, Other Hwy, Major Road, Minor Road, Track, Trail	PWS Protection Areas: Zone II, WPA, Zone A
Boundaries: Town, County, DEP Region, Train, Powerline, Pipeline, Aqueduct	Hydrography: Open Water, PWS Reservoir, Tidal Flat
Basins: Major, PWS; Streams: Perennial, Intermittent, Man Made Shore, Dam	Wetlands: Freshwater, Saltwater, Cranberry Bog
Aquifers: Medium Yield, High Yield, EPA Sole Source	FEMA 100yr Floodplain, Protected Open Space, ACEC
Non Potential Drinking Water Source Area: Medium, High (Yield)	Est. Rare Wetland Wildlife Hab, Vernal Pool: Cert., Potential
	Solid Waste Landfill, PWS: Com GW, SW, Emerg., Non-Com



MAP SCALE 1" = 500'



# NATIONAL FLOOD INSURANCE PROGRAM

PANEL 0179E

## FIRM FLOOD INSURANCE RATE MAP NORFOLK COUNTY, MASSACHUSETTS (ALL JURISDICTIONS)

PANEL 179 OF 430  
(SEE MAP INDEX FOR FIRM PANEL LAYOUT)

CONTAINS:

COMMUNITY	NUMBER	PANEL	SUFFIX
NORWOOD TOWN OF	250248	0179	E
WESTWOOD TOWN OF	255225	0179	E

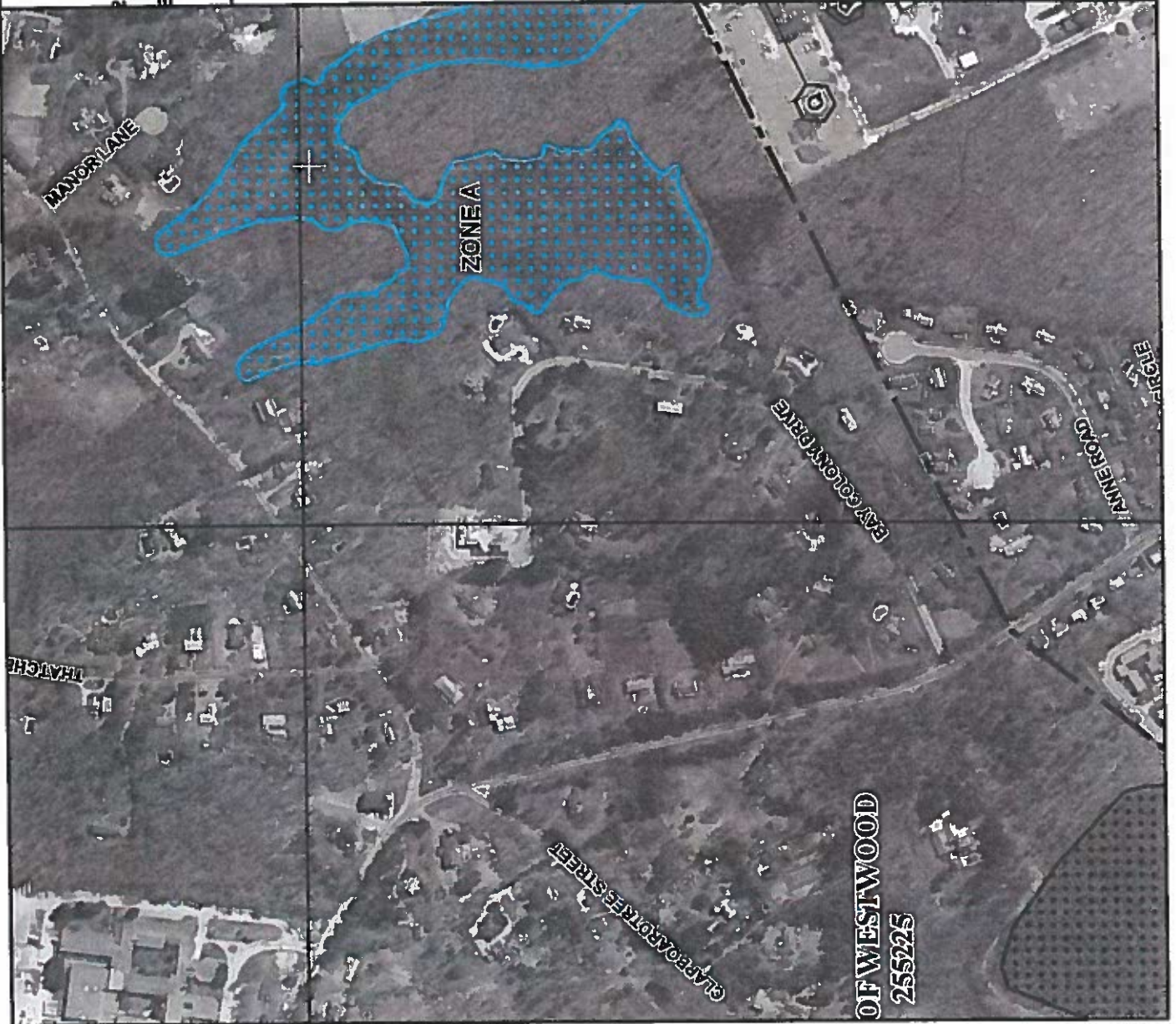
Notice to User: The Map Number shown below should be used when placing map orders. The Community Number shown above should be used on insurance applications for the subject community.



MAP NUMBER  
25021C0179E  
EFFECTIVE DATE  
JULY 17, 2012

Federal Emergency Management Agency

This is an official copy of a portion of the above referenced flood map. It was extracted using F-MIT On-Line. This map does not reflect changes or amendments which may have been made subsequent to the date on the title block. For the latest product information about National Flood Insurance Program flood maps check the FEMA Flood Map Store at [www.msc.fema.gov](http://www.msc.fema.gov)





pd. \$62.50  
= 3614.00  
KSL  
9/23/16

COLONIAL ENGINEERING, INC.  
Surveying and Engineering

11 AWL STREET  
MEDWAY, MA. 02053  
(508) 533-1644  
(508) 533-1645 FAX  
colonial.eng@verizon.net

September 22, 2016

Westwood Conservation Commission  
Westwood Town Hall  
50 Carby Street  
Westwood, Ma. 02090

RE: 131 Bay Colony Drive

Dear Board Members,

Please accept this submission from Edward & Julie Hennigan to grade their back yard. They are proposing to grade the back yard and plant assorted trees and shrubs (see attached plan). Also filling of 303 s.f. and replicating 1,055 s.f. If you have any questions please do not hesitate to call.

Thank-You  
Paul J. DeSimone P.L.S.



**Massachusetts Department of Environmental Protection**  
 Bureau of Resource Protection - Wetlands  
**WPA Form 9A – Enforcement Order**  
 Massachusetts Wetlands Protection Act M.G.L. c. 131, §40

DEP File Number: \_\_\_\_\_

Provided by DEP

**A. Violation Information**

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

This Enforcement Order is issued by:

Westwood Conservation Commission  
 Conservation Commission (Issuing Authority)

4/11/16  
 Date

To:

Resident  
 Name of Violator  
131 Bay Colony Drive  
 Address

1. Location of Violation:

Edward and Julie Hennigan  
 Property Owner (if different)  
131 Bay Colony Drive  
 Street Address  
Westwood  
 City/Town  
22  
 Assessors Map/Plat Number

02090  
 Zip Code  
022  
 Parcel/Lot Number

2. Extent and Type of Activity (if more space is required, please attach a separate sheet):

Tree cutting in rear yard at 131 Bay Colony Drive within the buffer zone and wetland resource area.

**B. Findings**

The Issuing Authority has determined that the activity described above is in violation of the Wetlands Protection Act (M.G.L. c. 131, § 40) and its Regulations (310 CMR 10.00), because:

the activity has been/is being conducted without a valid Order of Conditions.

the activity has been/is being conducted in violation of the Order of Conditions issued to:

\_\_\_\_\_  
 Name

\_\_\_\_\_  
 Dated

\_\_\_\_\_  
 File Number

\_\_\_\_\_  
 Condition number(s)



**D. Appeals/Signatures**

An Enforcement Order issued by a Conservation Commission cannot be appealed to the Department of Environmental Protection, but may be filed in Superior Court.

Questions regarding this Enforcement Order should be directed to:

Karon Skinner Catrone

Name

781-251-2580 cell 781-727-0502

Phone Number

8:30 am to 4:30 pm Monday, Wednesday and Friday

Hours/Days Available

Issued by:

Westwood Conservation Commission

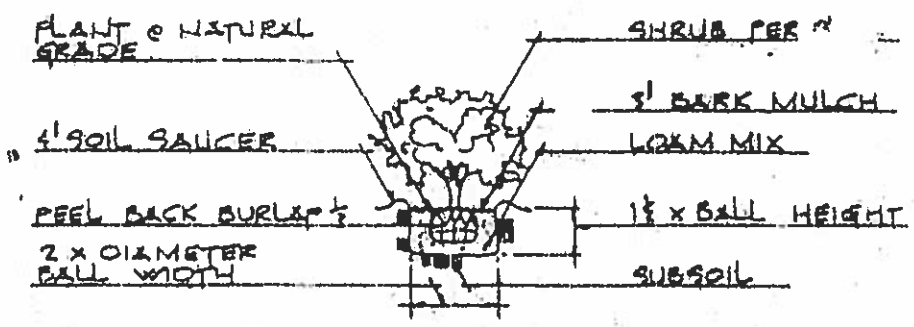
Conservation Commission

In a situation regarding immediate action, an Enforcement Order may be signed by a single member or agent of the Commission and ratified by majority of the members at the next scheduled meeting of the Commission.

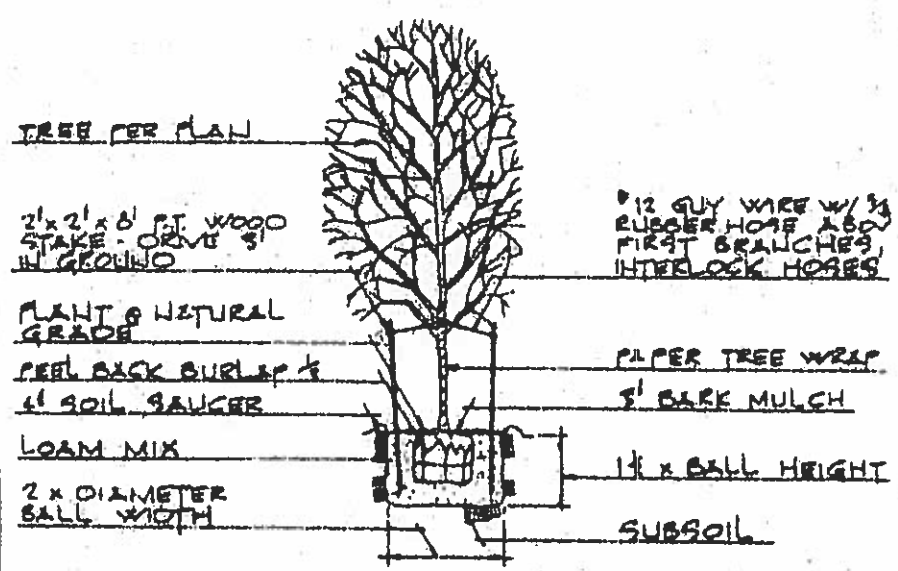
Signatures:

\_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

Signature of delivery person or certified mail number



SHRUB PLANTING DETAIL  
NOT TO SCALE



TREE PLANTING DETAIL  
NOT TO SCALE

PLANT DATE REGION WALL DETAIL  
NOT TO SCALE

EVERGREEN TREE PER PLANT

ATTACH GUY WIRE 5/8 UP  
TREE W/ 1/2" RUBBER  
HOSE - INTERLOCK HOSES

1/2" STRANDED GUY  
WIRE - EPOXY COATED

2 1/2" x 2 1/2" PRESSURE  
TREATED STAKES -  
DRIVEN INTO FIRM  
GROUND - 1 PER TREE

PLANT @ NATURAL  
GRADE

FEEL BACK BURLAP 1/2"

2" DIAM BALL WIDTH

3" DARK MULCH

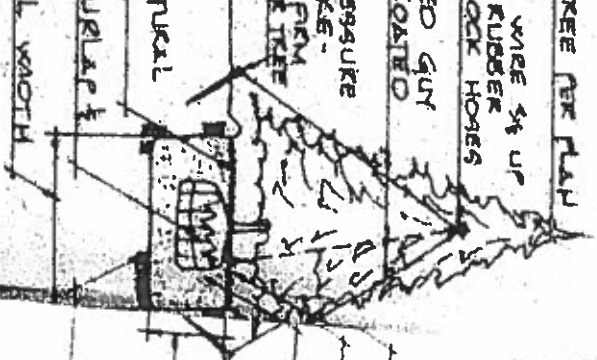
LOAM MIX

4" SOIL GAUGER

1 1/2" x BALL HEIGHT

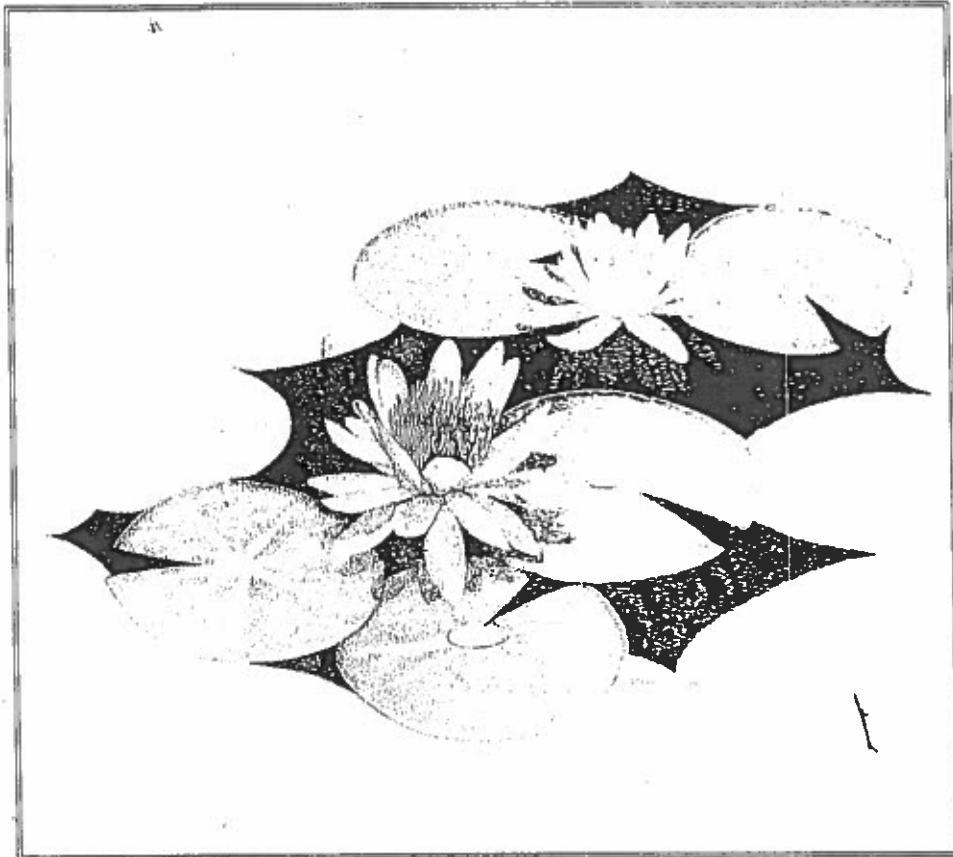
SUBSOIL

EVERGREEN TREE PLANTING DETAIL  
ONLY FOR EVERGREENS OVER  
NOT TO SCALE



# New England Wetland Plants, Inc.

Wholesale Pricing



WBE/DBE Certified

---

New England Wetland Plants, Inc., 800 Main St., Amherst, MA 01002  
Phone (413) 256-1752 FAX (413) 256-1092



Size	1-999	1000+	5000+
Bare Root	\$.60	\$.50	\$.40
2" peat pot	\$.75	\$.70	\$.65
Tubers	\$.40	\$.35	\$.30
2" peat pot	\$.75	\$.70	\$.65
2" peat pot	\$.75	\$.70	\$.65

## New England Seed Mixes for Mitigation, Conservation and Erosion Control

This year NEWP is offering a choice of seed mixes for various applications. The species for each seed mix were selected to provide the best vegetation cover with the most suitable native plants available. A description of each seed mix, including species composition, appropriate site conditions and application rates follows.

### New England Wetmix

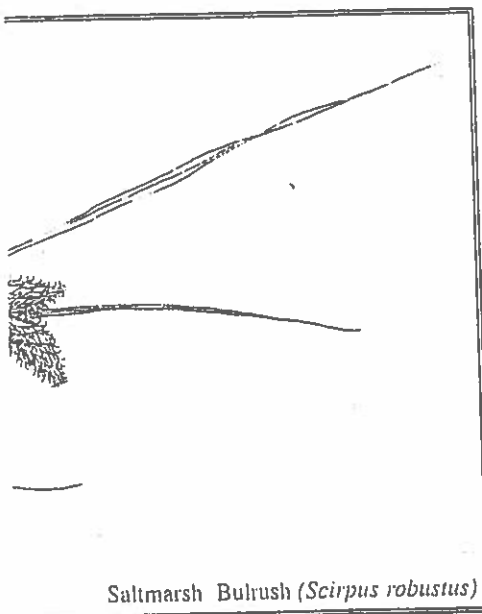
The 1997 wetland seed mix contains a wide variety of native seeds which are suitable for most wetland mitigation and restoration sites which are not permanently inundated. All species are best suited to moist disturbed ground as found in most wet meadow, scrub shrub, or forested wetland mitigation and restoration areas. This mix is well suited for detention basin borders, and the bottom of detention basins not generally under standing water. The seeds will not germinate under inundated conditions. If planted during the fall months, the seed mix will germinate the following spring. During the first season of growth, several species will produce seeds, while other species will produce seeds after the second growing season. Not all species will grow in all wetland situations. This mix is composed of the wetland species most likely to grow in created/restored wetlands, and should produce more than 75% ground cover in one full growing season.

**When to Plant.** Wetland seeds require moisture to germinate. We have found that seeds have the highest germination success if planted in the fall, up to the time of snow cover. The advantage of fall sowing is that by having the seeds over-winter after sowing, many of the germination inhibitors associated with these plants are broken down, allowing increased germination success. If the plants are sown too early in the fall (before October 15 in most areas), many of the seeds will germinate within 10 days. This will lead to winter kill of the new seedlings. Spring seeding will work well, but germination success is slightly reduced as compared to Fall seedings.

The wetland seeds in this mix can be hand sown, used with a hand-held spreader, or hydro-seeded on large or hard to reach sites, as long as there is no permanent snow cover. Lightly rake to ensure proper soil-seed contact. Seeding can take place on frozen soil, as the freezing and thawing weather of late fall and early winter will work the seed into the soil. When planting in the spring, plant early so that there is sufficient rainfall. If spring conditions are drier than usual, watering may be required. All seed sold in the spring/summer is moist stratified prior to shipment to improve germination. If planting during the summer months, watering may be required for at least 2-3 weeks after planting to insure germination. A non-invasive annual such as winter rye may be added to the mix to obtain soil stabilization cover in the fall. Do not add annual ryegrass, Kentucky Bluegrass or perennial ryegrass as these species are very aggressive and they will inhibit the growth of the wetland seeds. A light mulch of clean weed-free straw is recommended.

APPLICATION RATE: 1 LB/5000 SQ. FEET AS AN UNDERSTORY SEEDING  
1 LB/2500 SQ. FEET AS A WET MEADOW

COST: \$125.00/LB



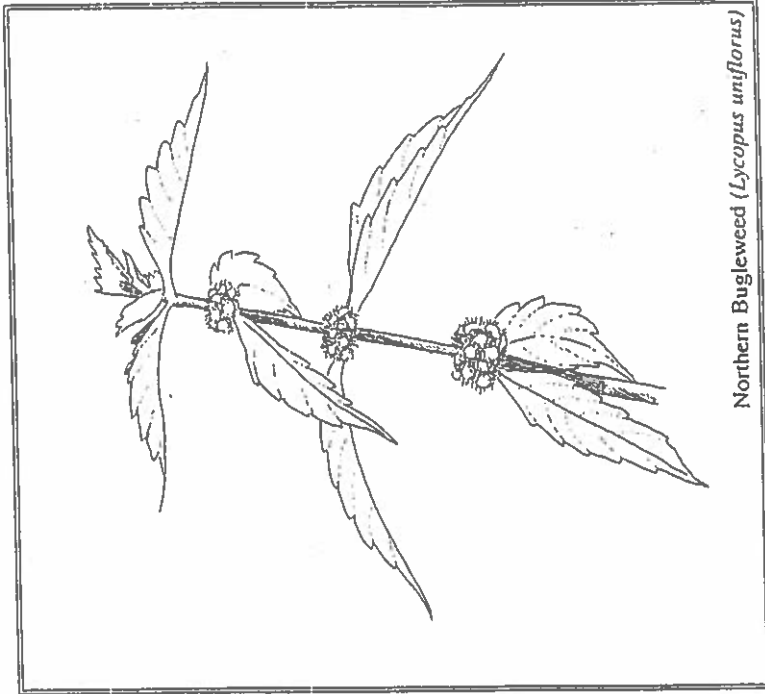
Saltmarsh Bulrush (*Scirpus robustus*)

## New England Wetmix (Wetland Seed Mix\*)

### SPECIES

Fringed Sedge (*Carex crinita*), Canada Manna Grass (*Glyceria canadensis*), Three-way Sedge (*Dulichium arundinaceum*), Blue Vervain (*Verbena hastata*), Woolgrass (*Scirpus cypertinus*), Lund Sedge (*Carex lurida*), Soft Rush (*Juncus effusus*), Joe-pye Weed (*Eupatoriumadelphus maculatus*), Green Bulrush (*Scirpus atrovirens*), Bearded Sedge (*Carex comosa*), Tussock Sedge (*Carex stricta*), Bonset (*Eupatorium perfoliatum*), Broomsedge (*Carex tribuloides*), Fox Sedge (*Carex vulpinoidea*), Barberpole Sedge (*Scirpus microcarpus*), Rusty Flatsedge (*Cyperus ferruginescens*), Bladder Sedge (*Carex lupulina*), Swamp Candle (*Lysimachia terrestris*), Marsh St. John's-wort (*Triadenum virginicum*), Northern Bugleweed (*Lycopus uniflorus*), and Fowl Manna Grass (*Glyceria striata*).

\* All of these species are used in New England Wetmix. The proportions vary on a yearly basis depending on seed production.



Northern Bugleweed (*Lycopus uniflorus*)

## (for Detention Basins and Moist Sites)

The New England Erosion Control/Restoration Mix contains a selection of native grasses and wildflowers designed to colonize generally moist, recently disturbed sites where quick growth of vegetation is desired to stabilize the soil surface. This seed mix uses plant genotypes from the Northeastern states. It is an excellent seed mix for ecologically appropriate restorations on moist sites which require quick stabilization as well as long-term establishment of native vegetation. This mix is particularly appropriate for detention basins which do not normally hold standing water. The plants in this mix can tolerate infrequent inundation, but not constant flooding. In New England, the best results are obtained with a Spring seeding. Summer and Fall seeding can be successful with a light mulching of weed free straw to conserve moisture. Late Fall and Winter dormant seeding require a slight increase in the seeding rate. Fertilization is not required unless the soils are particularly infertile.

APPLICATION RATE: 35 LBS/ACRE

COST \$10.00/LB

### SPECIES

Tioga Deertongue (*Panicum clandestinum*), Alsike Clover (*Trifolium hybridum*), Rough Bluegrass (*Poa trivialis*), Meadow Fescue (*Festuca pratensis*), Red Top (*Agrostis gigantea*), Creeping Bentgrass (*Agrostis stolonifera*), Switchgrass (*Panicum virgatum*), Meadow Foxtail (*Alopecurus pratensis*), Eastern Gama-grass (*Tripsacum dactyloides*), Fox Sedge (*Carex vulpinoidea*), Virginia Wild-rye (*Elymus virginicus*), Plains Coreopsis (*Coreopsis tinctoria*), Grass-leaved Goldenrod (*Euthamia graminifolia*), Canada Goldenrod (*Solidago canadensis*), Blue Vervain (*Verbena hastata*), Joe-pye Weed (*Eupatoriumadelphus maculatus*), Bonset (*Eupatorium perfoliatum*), and Flat-top Aster (*Aster umbellatus*).

## New England Conservation/Wildlife Mix

The New England Conservation/Wildlife Mix provides a permanent cover of grasses, forbs, wildflowers, legumes and grasses to provide both erosion control, and wildlife habitat value. This mix is designed to produce a no-maintenance cover, and is an appropriate application for cut and fill slopes, detention basins, and disturbed areas adjacent to commercial and residential projects.

APPLICATION RATE: 25 LBS/ACRE

COST \$16.00/LB  
\$400.00/ACRE

### SPECIES

Little Bluestem (*Andropogon scoparius*), Big Bluestem (*Andropogon gerardii*), Switchgrass (*Panicum virgatum*), Deertongue (*Panicum clandestinum*), Fox Sedge (*Carex vulpinoidea*), Pennsylvania Smartweed (*Polygonum pensylvanicum*), Canada Wild-rye (*Elymus canadensis*), Partridge Pea (*Chamaecrista fasciculata*), Annual Sunflower (*Helianthus annuus*), Cup-plant (*Siphium perfoliatum*), Nodding Bur-marigold (*Bidens cernua*), Showy Tick-trefoil (*Desmodium canadense*), Ox-eye Sunflower (*Helianthus helianthoides*), and Butterfly Milkweed (*Asclepias tuberosa*).

## New England Roadside Matrix Mix

The New England Roadside Matrix Mix is a specialty mix designed for use along roads and highways. The mix is unusual in that it contains native grasses, wildflowers and shrubs blended together as a native matrix seed mix. In areas which receive frequent mowing, such as those areas closest to the roadway shoulder, the warm season grasses will dominate. In areas farther from the road, which may be mown only once each year, or in hard to mow areas, such as around sign posts, the wildflower component will become dominant. Along cuts and side slopes which may never be mown, the shrub component will add diversity, beauty, and wildlife habitat to the roadside plantings. This versatile seed mix uses plant genotypes from the Northeastern states. It is a particularly appropriate seed mix for roadsides, industrial sites, or cut and fill slopes. The best results are obtained with a Spring or Summer seeding. Summer seeding can be successful with a light mulching of weed free straw to conserve moisture. This mix is not well suited to late Fall and Winter dormant seeding.

APPLICATION RATE: 35 LBS/ACRE

COST: \$16.00/LB

### SPECIES

#### GRASSES

Meadow Fescue (*Festuca pratensis*), Switch Grass (*Panicum virgatum*), Deertongue (*Panicum clandestinum*), Big Bluestem (*Andropogon gerardi*), Indian Grass (*Sorghastrum nutans*), and Little Bluestem (*Andropogon scoparius*).

#### WILDFLOWERS

Black-eyed Susan (*Rudbeckia hirta*), Lance-leaved Coreopsis (*Coreopsis lanceolata*), Ox-eye Daisy (*Chrysanthemum leucanthemum*), Partridge Pea (*Chamaecrista fasciculata*), and Showy Tick-trefoil (*Desmodium canadense*).

#### SHRUBS

Arrowwood (*Viburnum dentatum*), Gray Dogwood (*Cornus racemosa*), Nannyberry (*Viburnum lentago*), Choke Cherry (*Prunus virginiana*), Staghorn Sumac (*Rhus typhina*), Black Chokeberry (*Aronia melanocarpa*), and Winterberry Holly (*Ilex verticillata*).

## New England Erosion Control/Restoration Mix (for Dry Sites)

The New England Erosion Control/Restoration Mix for dry sites provides an appropriate selection of grasses to ensure that dry and recently disturbed sites will be quickly revegetated and the soil surface stabilized. This seed mix uses plant genotypes from the Northeastern states. It is an appropriate seed mix for road cuts, pipelines, detention basin side slopes, and areas undergoing ecological restoration. This mix may be applied at any time of the year. A light mulching of weed free straw to conserve moisture and to aid in slope stabilization and fertilization with 10-10-10 is recommended.

APPLICATION RATE: 35 LBS/ACRE

COST \$6.00/LB

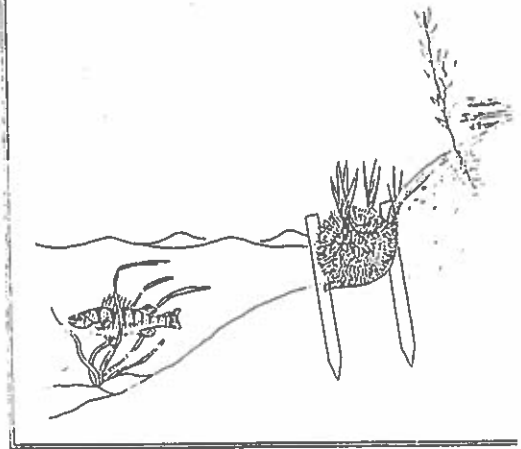
### SPECIES

Meadow Fescue (*Festuca pratensis*), Annual Rye-grass (*Lolium temulentum*), Timothy (*Phleum pratense*), White Clover (*Trifolium repens*), Little Bluestem (*Andropogon scoparius*), Red Top (*Agrostis gigantea*), and Side-oats Gramma-grass (*Bouteloua curtipendula*).

New England Wetland Plants, Inc., 800 Main St., Amherst, MA 01002  
Phone (413) 256-1752

FAX (413) 256-1092

## Typical Soil Bioengineering Cross Section



## Soil Bioengineering and Stream

New England Wetland Plants, Inc. provides slope stabilization and stream bank stabilization products from our cutting blocks and nursery for use in bioengineering. We also provide erosion control blankets for use in stream bank stabilization. Our products are manufactured by Bonterra America. NEWP provides plants as tubelings (see page 33) which extend the growing season, and permit the establishment of roots from dormant cuttings. These tubelings have roots in that they extend their existing root system and the unrooted cuttings. Unrooted cuttings are available at any time of the year.

## Live Fascines

NEWP provides unrooted dormant cuttings in a fascine form of dogwoods and willows. Specifications vary from 1/2" to 1 1/2" in diameter and 6'-20' in length. These are tied together and are typically planted in horizontal shallow trenches on stream bank slopes, and are staked into place with either a wooden stake or a metal tie in soil and burlap wraps for installation during winter. Quote based on your project specifications.

New England Wetland Plants, Inc.  
Phone (413) 256-1752

NOTICE TO ABUTTERS  
Under the Massachusetts Wetlands Protection Act  
and  
Westwood Wetland Bylaw

**Notice of Intent**

The Westwood Conservation Commission will hold a public hearing, under M.G.L. Chapter 131, Section 40 and the Westwood Wetland Bylaw on

Date: OCT 12 2016

Time: 7:00 PM

Place: 50 CARRY ST.  
WESTWOOD MA. 02090

A permit is requested by Edward & Julie Hennigan  
of 131 Bay Colony Dr. Westwood, MA.

The property is located at 131 Bay Colony Dr.

A complete copy of this filing is available to the public at the Westwood Conservation Commission office. 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.

**Colonial Engineering, Inc.**  
Surveying and Engineering

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December 18, 2016

Westwood Conservation Commission  
Westwood Town Hall  
Westwood, Ma. 02090

Re: 131 Bay Colony Drive

Dear Board Members,

On or about April 11, 2016, the owners of 131 Bay Colony Drive received a cease and desist order, for cutting trees and excavating without an Order of Conditions. Since the Enforcement Order the owners have filed a Notice of Intent with the Board. Although they did not realize the town bylaws forbids any work within 100' of wetlands without an Order of Conditions, they do now. The owners have agreed to build a retaining wall with boulders, plant fifteen trees, thirty-five shrubs with New England Wet Mix and New England Road Side Matrix Mix. Also a small replication area is proposed. See plan dated Nov. 3, 2016 for more details.

Thank-You  
Paul DeSimone P.L.S.