

# Notice of Intent (NOI) Application

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## Wetland Restoration after a Violation

Featherland Park  
503 Concord Road  
Sudbury, MA 01776

July 1, 2019

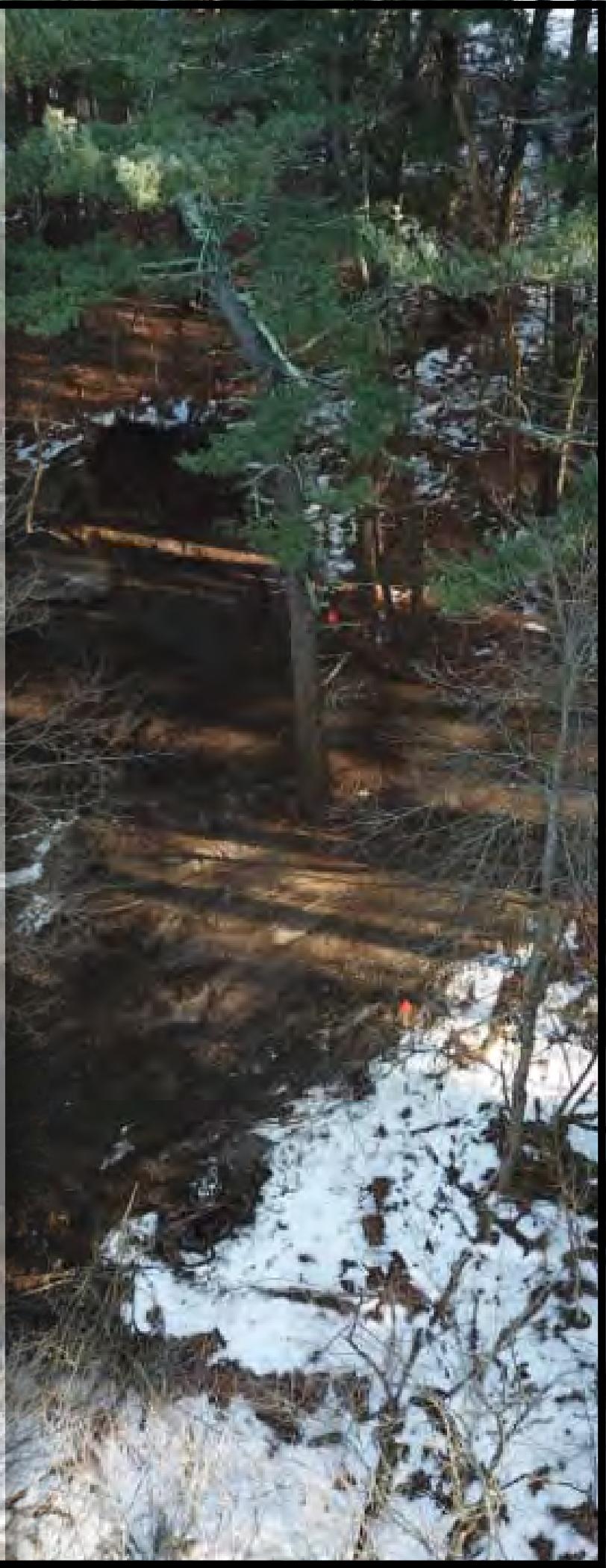
Prepared for:

Townd of Sudbury  
Department of Public Works  
275 Old Lancaster Rd  
Sudbury, MA 01776

Design Team:

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DeRosa Environmental Consulting, Inc.  
167 Main Street, PO Box 716, Rowley MA 01969



July 1, 2019



167 Main Street  
P. O. Box 716  
Rowley Massachusetts  
USA

978.948.7717 Office

[derosaenvironmental.com](http://derosaenvironmental.com)

**BY ELECTRONIC MAIL**

Attn: Lori Capone  
Conservation Coordinator  
Sudbury Conservation Commission  
275 Old Lancaster Road  
Sudbury, MA 01776

Phone: (978)-440-5470

Email: [CaponeL@sudbury.ma.us](mailto:CaponeL@sudbury.ma.us)

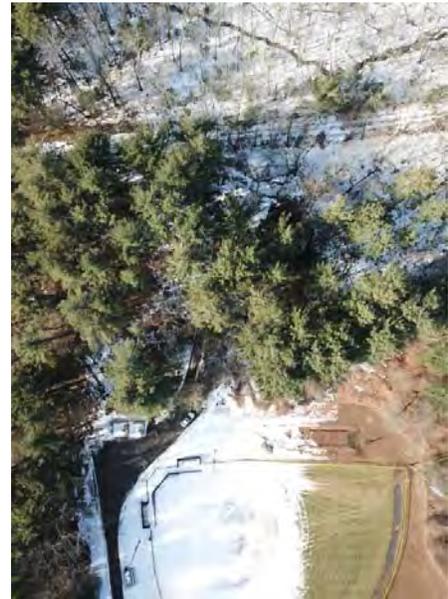
**RE: Notice of Intent (NOI) Application for  
Wetland Restoration after a Violation**

**Featherland Park  
503 Concord Road  
Sudbury, MA, 01776**

Dear Ms. Capone & Members of the Commission,

Our firm has prepared the following Notice of Intent (NOI) Application to meet the requirements of the Massachusetts Wetlands Protection Act (MGL Ch. 131 Sec. 40) and its Regulations (310 CMR 10.00, et seq – the “Act”) and the Sudbury Wetlands Administration Bylaw (the Bylaw). We were authorized to prepare this filing at the request of the Town of Sudbury Department of Public Works, owner of the property located at 503 Concord Road, Featherland Park, in Sudbury, Massachusetts, known as Assessor’s Map F10, Lot 0001.

This Notice of Intent (NOI) Application intends to provide a narrative summary of the materials and methods necessary to implement the proposed restoration plan requested by the Sudbury Conservation Commission in order to return the site to compliance. The restoration plan intends to restore and substantially enhance the buffer zone to bordering vegetated wetland to its previous function and value and substantially improve its wildlife habitat value. The plan also provides a follow-up and aftercare strategy to ensure the success of the restoration effort. By this application, we request that the Commission approves the proposed wetland restoration plan after a violation.



*Aerial photo of the site located at  
503 Concord Road, Featherland  
Park*

# Executive Summary

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## Site Description

The project that is the subject of this application is located at 503 Concord Road, Featherland Park, known as Assessor's Map F10, Lot 0001. Featherland Park is a 30.73-acre recreational area equipped with athletic fields and facilities for town wide use. East of the Site is General John Nixon Elementary School. North and south of the Site are residential properties and west of the Site is a large wooded area, Haynes Farm and an old abandoned railroad.



*Photo of the proposed restoration area*

West of the western-most baseball field, is a bordering vegetated wetland associated with an intermittent stream. Adjacent to the bordering vegetated wetland is the project site

## Project Background

In brief, the Town of Sudbury Department of Public Works (DPW) placed fill within the 100-foot buffer zone to bordering vegetated wetland. The fill deposited impacted an area that is approximately 4,300 square feet. The fill consisted of organic material and sandy loam that was excavated from another location on site for field activities. The fill had an average depth of 4-5 feet. During the investigatory work, historic farm fill was encountered 4-5 feet below the grade of the DPW placed fill. The historic farm fill is expected to have been placed when the site operated as a chicken farm prior to the Town purchasing the land and prior to the Wetlands



*Aerial of the Site as a chicken farm taken in 1957 from [historicaerials.com](http://historicaerials.com)*

Protection Act (prior to 1960). The historic farm fill consisted of poor soils mixed with miscellaneous trash, bottles and debris. Native soils were not encountered until approximately 9.5 feet below grade.

Differences between the DPW fill, the farm fill and organic soil was very evident. Soil trenches were conducted in order to determine the extent of filling, fill depth and the limit of the bordering vegetated wetland. Hydric soil characteristics were analyzed and the extent of filling was identified and staked in the field by a professional wetland scientist. The adjacent bordering vegetated wetland was delineated in the field and marked with flagging tape. Once the investigation was complete, the trenches were backfilled. There were no signs of erosion during site inspections.

## Project Summary

This restoration project intends to remove fill, and restore and substantially enhance the existing bordering vegetated wetland and associated buffer zone to its previous function and value and substantially improve its wildlife habitat value.

In brief, the restoration project includes the following elements:

- Remove the majority of the DPW fill from 100-foot buffer zone to bordering vegetated wetland, leaving 1 foot as planting media.
- Restore the 100-foot buffer zone to bordering vegetated wetland with native plant material

The proposed project has been designed to avoid, minimize and mitigate adverse impacts to bordering vegetated wetland associated with an intermittent stream. Erosion control measures will be installed and limits of work will be clearly marked and strictly adhered to throughout the construction phase.

The following report provides a detailed description of wetland resource areas surrounding the project area and key project elements.

## Existing Wetland Resource Areas

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### Bordering Vegetated Wetland (310 CMR 10.55)

The boundaries of the existing wetland resource areas were delineated according to methodology described in the Massachusetts Wetlands Protection Act (MGL Ch. 131 Sec. 40) and its Regulations at 310 CMR 10.00, et seq., as well as guidance documents prepared by the MADEP, including The Guide to Inland Vegetated Wetlands in Massachusetts, dated March 1988, as well as, Appendix G of Delineating Bordering Vegetated Wetlands Under the MA Wetlands Protection Act, dated March 1995.

Our firm delineated the boundaries of the vegetated wetland at the time of the investigatory work. A clear break in slope, existing vegetation and hydric soil indicators were used to determine the boundary of the wetland resource areas. In our professional opinion, the boundary of Bordering Vegetated Wetland delineated in the field accurately represents the definition of Bordering Vegetated Wetland described at 310 CMR 10.55 et seq.

The Sudbury Wetlands Administration Bylaw and the Massachusetts Wetlands Protection Act identify the buffer zone as that jurisdictional area which extends 100 feet from the edge of a wetland boundary. The area of buffer zone that is regulated by the Bylaw and the Act, and falls within the limits of work, is associated with the delineated bordering vegetated wetland on the west side of the property. Portions of the proposed work are located within this buffer zone (Figure 2b). Accordingly, a Waiver Request has been drafted below requesting that the Commission issue a finding allowing the work to be conducted in these restricted zones established under the local bylaw.

### Rare & Endangered Species Habitat

The project is not located within the boundaries of Priority or Estimated Habitats of Rare Species as determined by the Massachusetts Natural Heritage and Endangered Species Program (Figure 5). Therefore, a review of this application is not required by the NHESP.

### FEMA Floodplain

According to the Flood Emergency Management Agency's (FEMA) most recent Flood Insurance Rate Map (FIRM), work will not occur within the 100-year floodplain (Figure 6). Therefore, the resource area Bordering Land Subject to Flooding (BLSF) is not evaluated in this application.

# Project Elements

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## Remove Fill

DPW fill material consists of sand, sandy/loam and leaf/twig material. This material was placed within the 100-foot buffer zone to bordering vegetated wetland. The project proposes to remove between 0-4 feet of fill from an approximate 4,300 square foot area within the 100-foot buffer zone to bordering vegetated wetland. Fill will be removed with a back-hoe piece of equipment or equivalent. An environmental scientist will be on site at the time of removal to determine grades of excavation and the extent of removal based on soil characteristics and existing topography. Fill will be removed to native spoils in areas where possible, but areas where historic farm fill underlie DPW fill material, 1-foot of sandy loam will be left and top dressed with clean loam as planting media. The purpose of leaving 1-foot of sandy soil is to support a suitable planting medium for growth and establishment of native plant species. The soil from the historic farm fill will not suffice as it is comprised of trash, poor soil and debris. Removed fill will be disposed of and/or re-used. There is a variety of metal debris which exists within this area from the historic farm. As part of the restoration efforts, the metal debris will be removed and properly disposed of. Metal debris that was historically dumped in this area include metal frame of a vehicle, 55 gallon metal drums, chicken wire/fencing and miscellaneous metal debris



*Photo of surficial debris, scrap metal and fill to be removed from Site*

## Native Species Planting

Once the fill is removed from the restoration area, the same 4,300 square foot area is proposed to be restored back to functioning buffer zone. The existing loam and composted leaf/twig material will be loosened to provide a planting medium for seeding and installation of native wetland plantings. Existing soils will be top dressed with restoration soil mix consisting of one part sandy loam and one part composted organic material, as needed. Subsequently, all disturbed soils will be stabilized with a native seed mix and salt marsh hay at the end of each day. Then canopy, shrub, and herbaceous species will be installed to increase diversity and substantially improve the function and value of the resource area (Figure 2c & 2d). Details of the restoration plan are described in later sections of this application.

## Summary

The project proposes to remove fill and restore the area at a 1:1 ratio of restoration to disturbance. In total, approximately 4,300 square feet of fill will be removed, and within that same 4,300 square feet, native plants will be installed and maintained to return the site to compliance.

## Restoration Plan

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The following restoration plan intends to substantially improve the function and value of the existing buffer zone and bordering vegetated wetland at the site.

### Site Preparation

Prior to the commencement of any earthwork on the site, Groundscapes Filtermit (8-12-inch tube) or equal will be staked and installed according to the approved restoration plan (Figure 2c). Surficial scrap metal and debris will be removed from the site using a mini excavator and disposed at a licensed facility. Additionally, 0-4 feet of fill from the restoration area will be removed to verified grades and soil compositions as determined by a wetland scientist. The existing loam and leaf compost will be spread throughout the restoration area and augmented with an organic soil mixture consisting of one part sandy loam & one part composted organic material, as needed. All disturbed soils will be densely seeded with a native seed mix, and then planted with native canopy, shrub, and herbaceous species.



*Photo of different layers of fill and soil composition found during the investigation*

## Canopy Species

We propose to install ten (10) white pine (*Pinus strobus*) and three (3) red oak (*Quercus rubra*) canopy trees to bring height and structural diversity to the restoration area. The pine and oak trees will be home to many different wildlife creatures and are well adapted to wetland soils.

## Shrub Species

The shrub community is proposed to include gray dogwood (*Cornus racemosa*). This species was selected to provide wildlife habitat quality in the form of cover, food, and potential nesting sites for wildlife, particularly migratory songbirds. Plantings will be interspersed across the restoration area and not in a uniform “on center” planting schedule. In this way, significant “edge” within the habitat will be created. The intent of the proposed planting plan is to provide greater vertical structure as well as greater species diversity within the restoration area.



*Gray dogwood (Cornus racemosa) is a native, deciduous shrub that grows white fruit on red stems. It is a larval host for the Spring Azure, and the fruit is eaten by birds and other wildlife.*

## Herbaceous Plantings

The herbaceous community will include the dense planting of several native wetland herbaceous species as well as a custom wetland seed mix groundcover. This herbaceous layer will include different species of FACW to OBL wetland indicator species, such as, cinnamon fern (*Osmundastrum cinnamomeum*), sensitive fern (*Onoclea sensibilis*), and red fescue (*Festuca rubra*). These species will provide a densely planted area within the restored wetland that will attract birds, butterflies and bees (See Figure 2c & 2d).

This planting plan will create a densely vegetated wetland and associated buffer zone that will improve the filtering capacity of the area to treat runoff waters from the upgradient-developed areas.

Additionally, these plantings will substantially improve the function and value of this area for wildlife by providing nesting areas and food and cover for wildlife, particularly small mammals and songbirds as well as upland game birds. All species to be introduced are native to this region and are adapted to wetland soils and hydrology.

## Aftercare and Maintenance

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The proposed restoration efforts will follow the requirements under 310 CMR 10.55 for the restoration of vegetated wetlands and will include follow-up and aftercare reports for two (2) years or until the area becomes successfully vegetated.

### Construction Oversight, Follow-up Observations, & Maintenance Plantings

Construction oversight, follow-up observations, and all plant installation work will be overseen by a competent professional in the field of landscape ecology, landscape architecture, a qualified engineer, or other qualified professional. The restoration area will be visited at least once each month for the first 4 months of the growing season to ensure that plants are established and growing. After the first growing season the restoration area will be visited quarterly until the 75% cover performance standard is achieved. It is proposed that the restoration area be reviewed prior to the issuance of a Certificate of Compliance and on or before the two (2) year regulatory provision to ensure that plant material has established itself as required under 310 CMR 10.55(4)(b)(6). Monitoring and aftercare of the restoration area is also subject to up to 2 years of monitoring, which may be terminated sooner upon the determination of the Commission.

The area will be irrigated to ensure that the seed material is established. All seed material will be hand sown. Any plant material that has failed to establish itself and has impaired the restoration area from providing the necessary plant species functions will be replaced in kind or substituted for a species that is establishing more efficiently. These species will be chosen based on the judgment of the restoration professional and success of other plantings installed in the restoration areas.

Observations over the two-year period will be summarized in a final written report, which will be submitted before or as part of the request for a Certificate of Compliance for the project. This report will summarize the restoration effort and function and value of the created area. Interim reports (written and/or oral) during the two-year period can be requested at the discretion of the Commission.

# Construction/Planting Sequence

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1. Erosion control barriers will be installed downgradient of all areas where exposed soils are expected. Refer to Figure 2c. Restoration Plan for location of sedimentation control structures.
2. The extent of wetland alteration was determined and the wetland edge was staked in the field by DeRosa Environmental.
3. Sandy fill and surficial debris will be removed from the restoration area and disposed of offsite.
4. An environmental scientist will be on Site at the time of removal to determine grades and extent of removal based on site specific topography and soils.
5. Existing loam and composted leaf and twig material will be then spread over the site to provide a planting medium for seeding and installation of canopy trees, shrub and herbaceous species according to the Restoration Plan (Figure 2).
6. Soils to be top-dressed with restoration soil mix consisting of one part sandy loam & one part composted organic material, as needed. It is expected that there will be adequate topsoil and compost to spread and cover the portions of disturbed soils at the site.
7. Native plant selection to be laid out according to restoration plan with necessary adjustments made by wetland/restoration specialist as needed.
8. All exposed soils to be seeded with custom native wetland seed mix.
9. Implement aftercare & maintenance plan consisting of quarterly site visits and photographs to document success of the program and any adjustments that may be necessary based on plant success.
10. Prepare final report/annotated photos documenting condition of the site and submit to conservation administrator on or before October 31st for each monitoring year.
11. We recommend that the plantings be installed as soon as possible to allow the plant material to grow through a full growing season before the onset of winter. Canopy, shrub and herbaceous species may be planted at the same time.

# Stormwater Management

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According to the Sudbury Wetlands Administration Bylaw, the Massachusetts Stormwater Management Standards shall apply to all projects or activities subject to the Bylaw and requires that efforts be made to mitigate runoff waters to the maximum extent practicable.

The proposed project will not result in the increase of impervious surfaces on the property, as all work is related to the removal of fill and re-planting of native species. Accordingly, the stormwater management elements of the WPA and/or the local wetland bylaw, do not apply to this project.

## Erosion & Sedimentation Control Plan

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### Configuration of Siltation Barriers

Prior to any earthwork at the Site, an erosion control barrier consisting of Groundscapes Filtermitt (12 or 18-inch tube) or equal will be installed down gradient of the proposed area of activity to prevent any erosion/sedimentation to the downgradient resource areas (Figure 2c).

These siltation barriers will remain in place during the entire restoration process and until all exposed soils are completely re-vegetated and/or the Sudbury Conservation Commission or their Agent approve removal of the barriers.



*Example of Groundscapes Filtermitt used as erosion control at typical project site.*

### Limits of Work

The siltation barrier line will serve as the limit of disturbance for this project. Heavy equipment will not enter the bordering vegetated wetland and will be stored as far from resource areas as possible.

# Jurisdiction and Procedural Matters

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## Abutter Notification

Abutters within 100 feet of the property line of 503 Concord Road, Featherland Park, in Sudbury, Massachusetts, known as Assessor's Map F10, Lot 0001, have been notified in writing by Certificate of Mailing in accordance with the Massachusetts Department of Environmental Protection (MADEP) policy regarding such notice, which is in effect for Notice of Intent applications filed after April 13, 1994. Proof of this notice and a copy of the letter sent (typical) accompany this filing, as required (Appendix A).

## Forms and Fees

The proposed project is a municipal project which qualifies as "Fee Exempt". Accordingly, a copy of the Fee Transmittal Form and the state filing fee have not been sent for review to MA DEP. A single (1) copy of this application has been forwarded to the MADEP/NERO to await the issuance of a file number.

## Request for Specific Situation Warrants

The Sudbury Wetlands Administration Bylaw requires that the proposed project must show no significant adverse impact to existing resource areas or buffer zones, in this particular case, restoration work is proposed within the 100-foot buffer zone to bordering vegetated wetland. The primary purpose of the project is to increase the health and stability of the buffer zone and enhance wildlife habitat. The restoration plan have been proposed to increase the function and value of the wetland, thereby not adversely impacting the area.

We request that the Commission use their discretion to warrant the proposed restoration efforts within the 100-foot buffer zone to bordering vegetated wetland. The proposed restoration accounts for a total of approximately 4,300 square feet. That is a 1:1 ratio of restoration to disturbance. The project will result in an improvement from existing conditions and has been designed to avoid and minimize adverse impacts to the bordering vegetated wetland.

Additionally, we would like to request that the Commission use their discretion to warrant a variance for the required formal surveyed site plan. The proposed work is limited to the approximate 4,300 square foot restoration area. Aerial photos were taken of the site on February 5, 2019 using a Mavic Pro Drone by licensed drone operator. The aerial photo captured the entire restoration area and access where the proposed fill is to be removed and native plant material is to be installed. The aerial photos provided in Figures 2a-c should serve to fully meet the requirements for accurate depiction of locations of the proposed site activities and resource

features on the lot, and will give the Commission enough information to make an informed decision for our project without requiring formal surveyed plans.

## Alternatives Analysis

The purpose of the project is to restore an area within the 100-foot buffer zone to bordering vegetated wetland to a functioning buffer with enhanced habitat value. Given that the purpose of this application is to improve the existing conditions, alternatives are slim.

### *Alternative 1 – Expand the Scope*

One alternative that was explored was to completely remove all fill, including the historic fill that was placed before the Wetlands Protection Act was enacted. Since fill placed before the Act was enacted is not jurisdictional, the historic fill is not subject to enforcement and is therefore not required to be removed. Although removing all fill was the first choice for the Town, this alternative deemed impractical because of the costs associated with removing all the fill.

### *Alternative 2 – Do nothing alternative*

The proposed project provides restoration for adverse impacts to the 100-foot buffer zone to bordering vegetated wetland. The proposed project will result in approximately 4,300 square feet of restoration by removing fill and installing native plant species. This will improve the function and value of the bordering vegetated wetland. If the project is not implemented, this resource area improvement will also not be implemented.

It is our professional opinion that given the intent of this project, the current option is the most practicable and results in substantial restoration to the wetland and adjacent upland resource areas and is therefore, the best option.

# Request for Issuance of an Order of Conditions

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The proposed project has been designed to minimize adverse impacts to existing wetland resource areas as defined under the Massachusetts Wetlands Protection Act (MGL CH. 131 Sec. 40, et seq.) and the Sudbury Wetlands Administration Bylaw.

By improving the diversity of plant species composition and structure, local function and value of that area for wildlife are enhanced. Since the interests of the Act and Bylaw have been addressed as part of this plan, we request that an Order of Conditions be issued so that the Town of Sudbury Department of Public Works may return the Site to compliance.

We are available to meet with you on site to review the project and to answer any questions, if you desire. Should you have any questions, or, would like to arrange a site walk, please call any time at (978) 948-7717.

Respectfully submitted,

DeRosa Environmental Consulting, Inc.



Evin Guvendiren  
Natural Resource Economist

MJD/eeg



Michael J. DeRosa, Principal  
PWS, LSP, LEED AP



Cc: MADEP/NERO, Wetlands Division, 205B Lowell Street, Wilmington MA 01877  
Dan Nason, Sudbury DPW (by email)

## Forms

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Notice of Intent (NOI) WPA Form 3



Massachusetts Department of Environmental Protection  
Bureau of Resource Protection - Wetlands

**WPA Form 3 – Notice of Intent**

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

Provided by MassDEP:

MassDEP File Number

Document Transaction Number

Sudbury  
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):

<u>503 Concord Road</u>	<u>Sudbury</u>	<u>01776</u>
a. Street Address	b. City/Town	c. Zip Code
Latitude and Longitude:		
	<u>42.39460 N</u>	<u>71.40637 W</u>
	d. Latitude	e. Longitude
<u>F10</u>	<u>0001</u>	
f. Assessors Map/Plat Number	g. Parcel /Lot Number	

2. Applicant:

<u>Town of Sudbury Department of Public Works</u>	<u>DeRosa</u>	
c. Organization	b. Last Name	
<u>275 Old Lancaster Road</u>		
d. Street Address		
<u>Sudbury</u>	<u>MA</u>	<u>01776</u>
e. City/Town	f. State	g. Zip Code
<u>978-440-5421</u>	<u>DPW@sudbury.ma.us</u>	
h. Phone Number	i. Fax Number	j. Email Address

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

<u></u>	<u></u>	
a. First Name	b. Last Name	
<u></u>		
c. Organization		
<u></u>		
d. Street Address		
<u></u>	<u></u>	<u></u>
e. City/Town	f. State	g. Zip Code
<u></u>	<u></u>	<u></u>
h. Phone Number	i. Fax Number	j. Email address

4. Representative (if any):

<u>Michael</u>	<u>DeRosa</u>	
a. First Name	b. Last Name	
<u>DeRosa Environmental Consulting, Inc.</u>		
c. Company		
<u>167 Main Street PO Box 716</u>		
d. Street Address		
<u>Rowley</u>	<u>MA</u>	<u>01969</u>
e. City/Town	f. State	g. Zip Code
<u>978-948-7717</u>	<u>michaelderosaj@gmail.com</u>	
h. Phone Number	i. Fax Number	j. Email address

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

<u>N/A</u>	<u></u>	<u></u>
a. Total Fee Paid	b. State Fee Paid	c. City/Town Fee Paid



Massachusetts Department of Environmental Protection  
Bureau of Resource Protection - Wetlands

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**A. General Information** (continued)

6. General Project Description:

Wetland Restoration After a Violation

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

- 1.  Single Family Home
- 2.  Residential Subdivision
- 3.  Commercial/Industrial
- 4.  Dock/Pier
- 5.  Utilities
- 6.  Coastal engineering Structure
- 7.  Agriculture (e.g., cranberries, forestry)
- 8.  Transportation
- 9.  Other -Town owned Park

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)

2. Limited Project Type

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

8. Property recorded at the Registry of Deeds for:

- a. County Southern Middlesex
- b. Certificate # (if registered land) \_\_\_\_\_
- c. Book 9599
- d. Page Number 151

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

- 1.  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.
- 2.  Inland Resource Areas (see 310 CMR 10.54-10.58; if not applicable, go to Section B.3, Coastal Resource Areas).

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



Massachusetts Department of Environmental Protection  
Bureau of Resource Protection - Wetlands

**WPA Form 3 – Notice of Intent**

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

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

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

Resource Area	Size of Proposed Alteration	Proposed Replacement (if any)
a. <input type="checkbox"/> Bank	1. linear feet	2. linear feet
b. <input checked="" type="checkbox"/> Bordering Vegetated Wetland	4,300 1. square feet	4,300 2. square feet
c. <input type="checkbox"/> Land Under Waterbodies and Waterways	1. square feet 3. cubic yards dredged	2. square feet

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

- f.  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.



Massachusetts Department of Environmental Protection  
Bureau of Resource Protection - Wetlands

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

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

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

<u>Resource Area</u>	<u>Size of Proposed Alteration</u>	<u>Proposed Replacement (if any)</u>
a. <input type="checkbox"/> Designated Port Areas	Indicate size under Land Under the Ocean, below	
b. <input type="checkbox"/> Land Under the Ocean	_____	
	1. square feet	
	_____	
	2. cubic yards dredged	
c. <input type="checkbox"/> Barrier Beach	Indicate size under Coastal Beaches and/or Coastal Dunes below	
d. <input type="checkbox"/> Coastal Beaches	_____	_____
	1. square feet	2. cubic yards beach nourishment
e. <input type="checkbox"/> Coastal Dunes	_____	_____
	1. square feet	2. cubic yards dune nourishment
	<u>Size of Proposed Alteration</u>	<u>Proposed Replacement (if any)</u>
f. <input type="checkbox"/> Coastal Banks	_____	
	1. linear feet	
g. <input type="checkbox"/> Rocky Intertidal Shores	_____	
	1. square feet	
h. <input type="checkbox"/> Salt Marshes	_____	_____
	1. square feet	2. sq ft restoration, rehab., creation
i. <input type="checkbox"/> Land Under Salt Ponds	_____	
	1. square feet	
	_____	
	2. cubic yards dredged	
j. <input type="checkbox"/> Land Containing Shellfish	_____	
	1. square feet	
k. <input type="checkbox"/> Fish Runs	Indicate size under Coastal Banks, inland Bank, Land Under the Ocean, and/or inland Land Under Waterbodies and Waterways, above	
	_____	
	1. cubic yards dredged	
l. <input type="checkbox"/> Land Subject to Coastal Storm Flowage	_____	
	1. square feet	
4. <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



Massachusetts Department of Environmental Protection  
Bureau of Resource Protection - Wetlands

# WPA Form 3 – Notice of Intent

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

Provided by MassDEP:
MassDEP File Number
Document Transaction Number
Sudbury City/Town

## 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

- 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**

- August 2017  
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\*

- Percentage/acreage of property to be altered:
  - (a) within wetland Resource Area \_\_\_\_\_ percentage/acreage
  - (b) outside Resource Area \_\_\_\_\_ percentage/acreage

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

- 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.



Massachusetts Department of Environmental Protection  
Bureau of Resource Protection - Wetlands

## WPA Form 3 – Notice of Intent

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

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MassDEP File Number

Document Transaction Number

Sudbury  
City/Town

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

- (c)  MESA filing fee (fee information available at [http://www.mass.gov/dfwele/dfw/nhosp/regulatory\\_review/ mesa/ mesa\\_fee\\_schedule.htm](http://www.mass.gov/dfwele/dfw/nhosp/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/nhosp/regulatory\\_review/ mesa/ mesa\\_exemptions.htm](http://www.mass.gov/dfwele/dfw/nhosp/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:

Division of Marine Fisheries -  
Southeast Marine Fisheries Station  
Attn: Environmental Reviewer  
836 South Rodney French Blvd.  
New Bedford, MA 02744  
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 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.



**Massachusetts Department of Environmental Protection**  
Bureau of Resource Protection - Wetlands

**WPA Form 3 – Notice of Intent**

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

Provided by MassDEP:

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Sudbury  
City/Town

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

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: \*\*Wetland Restoration  
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.

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



Massachusetts Department of Environmental Protection  
Bureau of Resource Protection - Wetlands

**WPA Form 3 – Notice of Intent**

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

Provided by MassDEP:
MassDEP File Number
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Sudbury City/Town

**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.

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:

2. Municipal Check Number \_\_\_\_\_ 3. Check date \_\_\_\_\_

4. State Check Number \_\_\_\_\_ 5. Check date \_\_\_\_\_

6. Payor name on check: First Name \_\_\_\_\_ 7. Payor name on check: Last Name \_\_\_\_\_



Massachusetts Department of Environmental Protection  
Bureau of Resource Protection - Wetlands

Provided by MassDEP:

**WPA Form 3 – Notice of Intent**

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

MassDEP File Number

Document Transaction Number

Sudbury  
City/Town

**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).

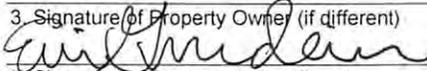
I further certify under penalties of perjury that all abutters were notified of this application, pursuant to the requirements of M.G.L. c. 131, § 40. Notice must be made by Certificate of Mailing or in writing by hand delivery or certified mail (return receipt requested) to all abutters within 100 feet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

  
\_\_\_\_\_

1. Signature of Applicant

4/23/2019

2. Date

3. Signature of Property Owner (if different)  
  
\_\_\_\_\_

5. Signature of Representative (if any)

4. Date

4/26/19

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.

## Figures

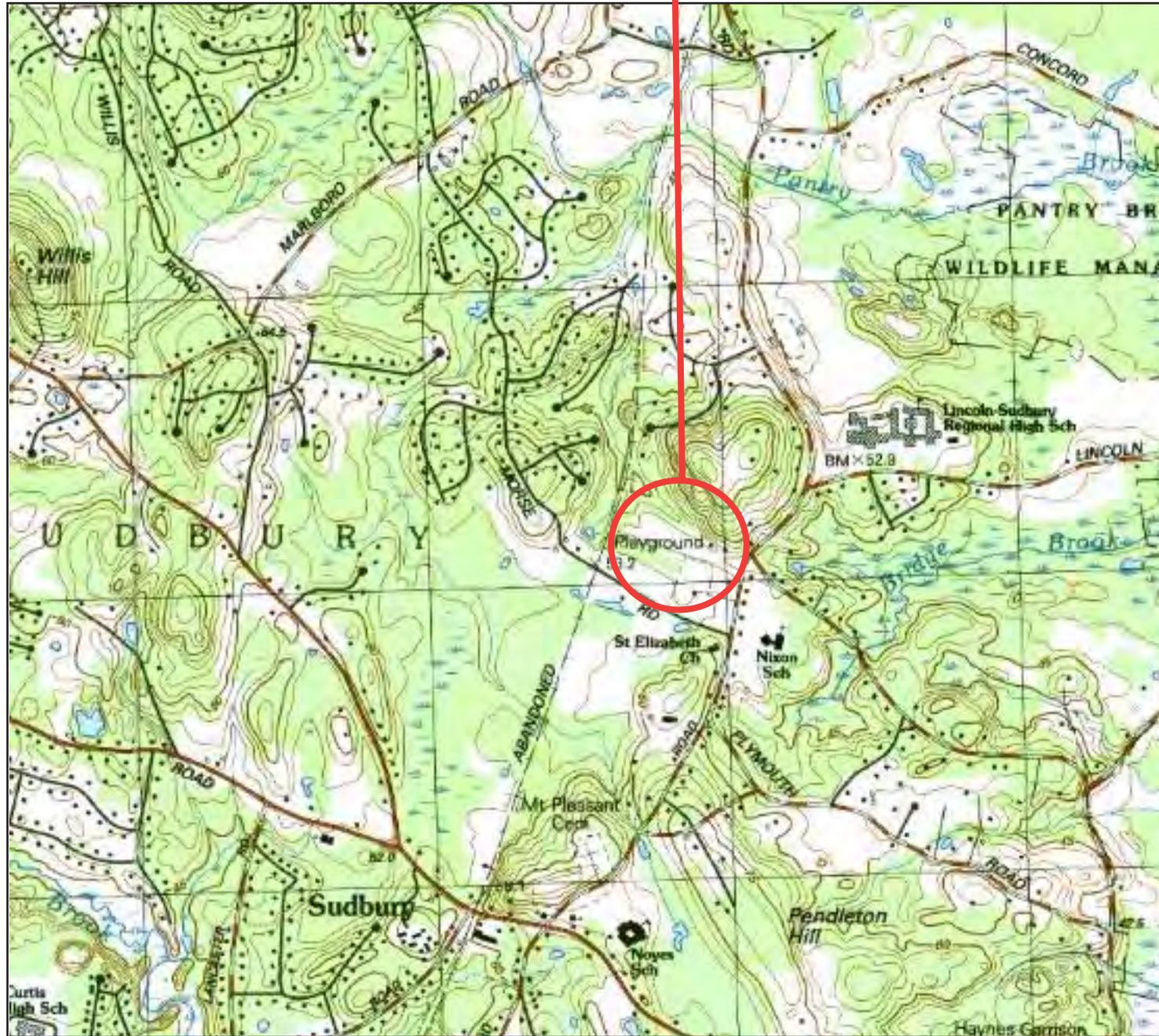
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- Figure 1. USGS Locus Map
- Figure 2a. Existing Conditions Plan, by DeRosa Environmental
- Figure 2b. Site Profile, by DeRosa Environmental
- Figure 2c. Restoration Plan, by DeRosa Environmental
- Figure 2d. Plant Image Board, by DeRosa Environmental
- Figure 3. MassGIS Aerial Map
- Figure 4. MassGIS Wetlands Map
- Figure 5. MassGIS NHESP Map
- Figure 6. FEMA Flood Insurance Rate Map

# Notice of Intent

503 Concord Road, Featherland Park, Sudbury, MA

Figure 1. Topographic Map



USGS Topographic Maps

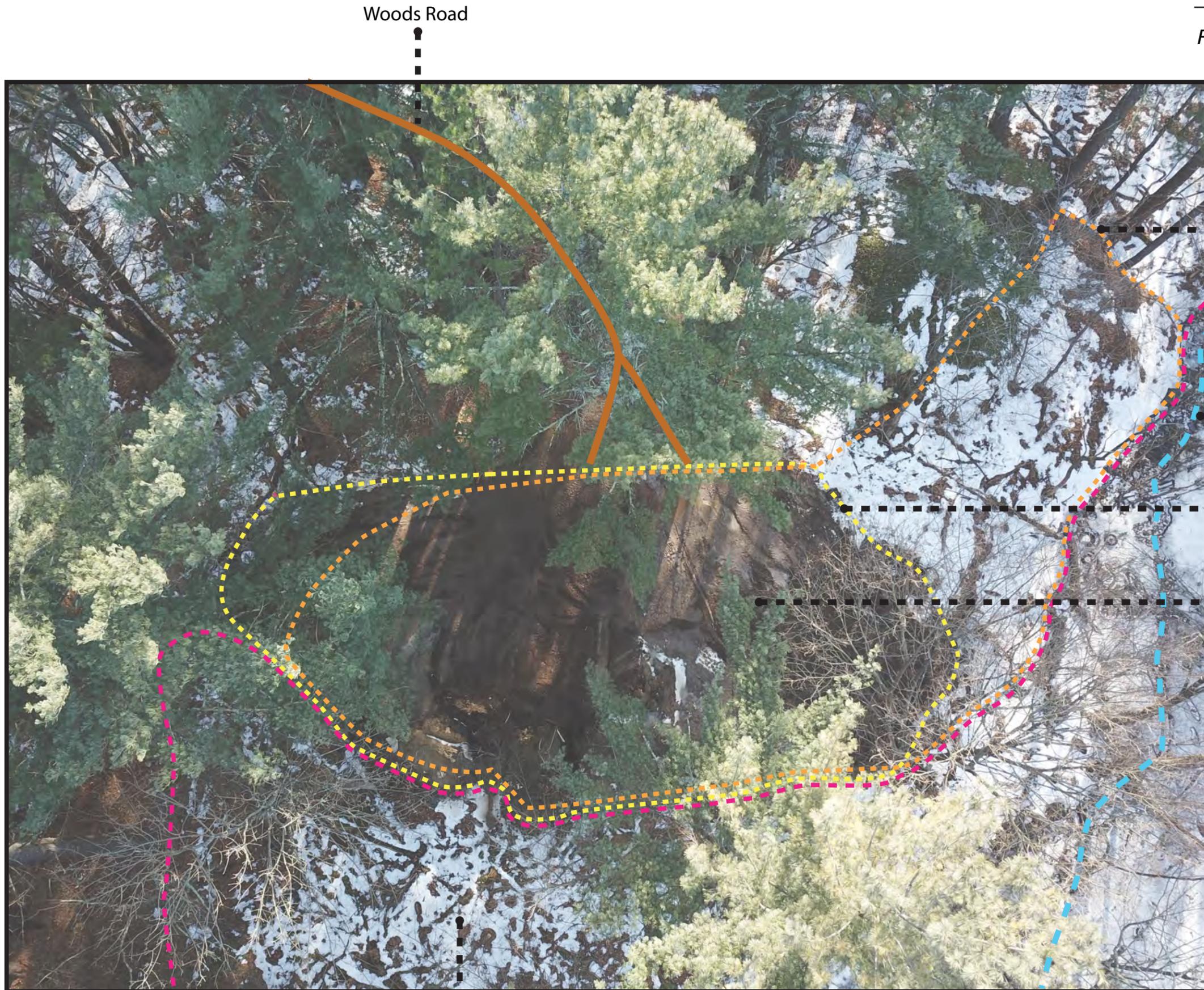


**DEROSA**  
Environmental  
CONSULTING, INC.

167 Main Street, PO Box 716, Rowley Massachusetts 01969 USA  
978 948-7717 Office - 978 948-7718 Fax

Figure 2a. Site Overview Plan

Featherland Park | 503 Concord Road | Sudbury, MA.



Limit of Historic Farm Fill

Limit of Bordering Vegetated Wetland

Location of Intermittent Stream

Limit of DPW fill material. Fill consists of organics and sandy loam. Average depth of fill varies but is 4-5 feet in depth.

Historic farm fill was encountered at 4-5 feet below grade under the DPW fill. The historic fill continued down to native soils measured at 9.5 feet below grade. Historic farm fill pre-dated the WPA and historically filled vegetated wetlands in this area.



February 15, 2019  
REV. June 27, 2019  
TCF

Michael J. DeRosa  
PWS No. 2250



167 Main Street, PO Box 716, Rowley Massachusetts 01969 USA  
978 948-7717 Office - 978 948-7718 Fax

Existing Bordering Vegetated Wetland  
to Intermittent Stream

Photo of an investigatory trench showing the different layers of fill. Soil differences are very evident (see note 4).

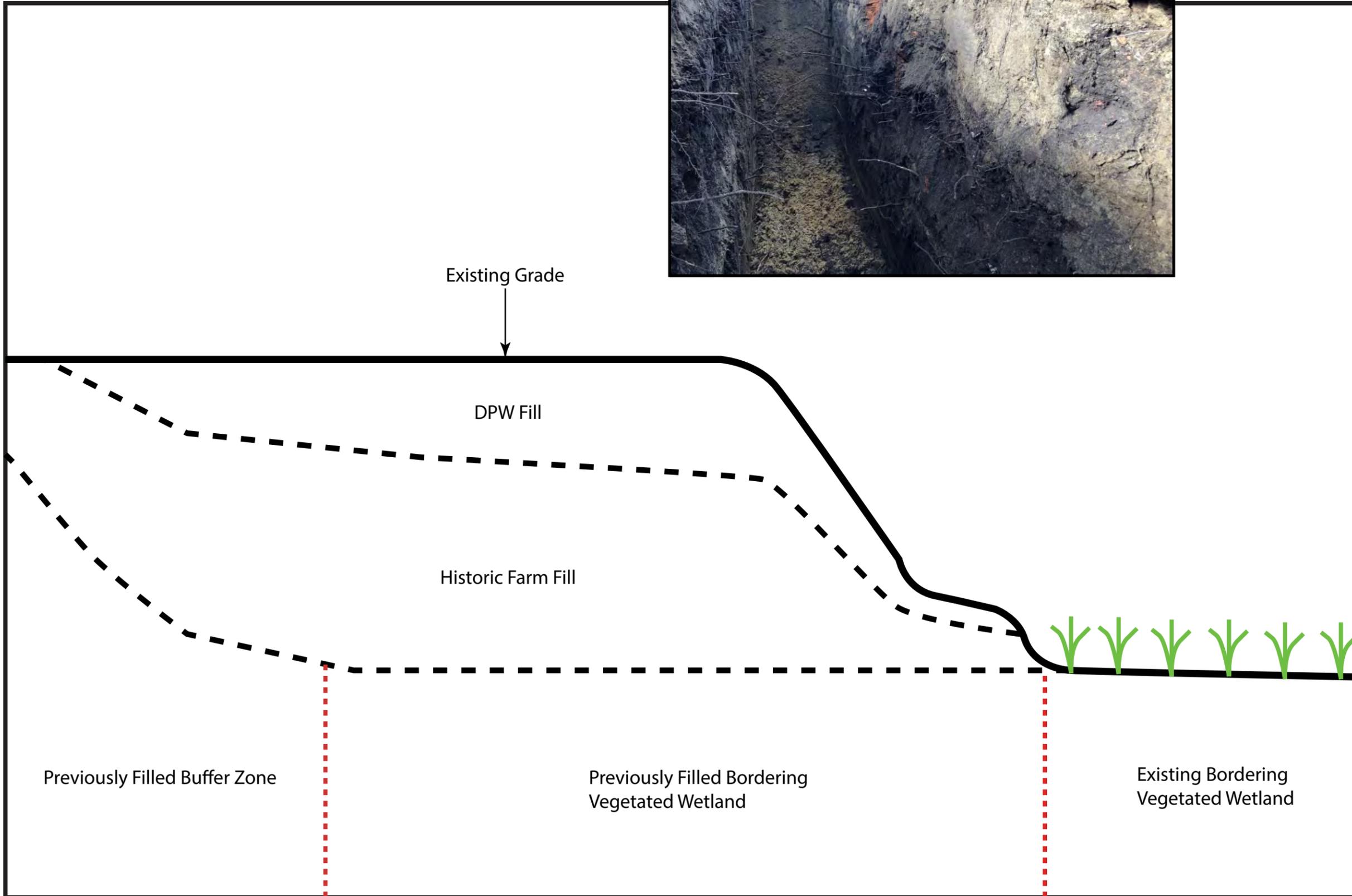


Figure 2b. Site Profile

Featherland Park | 503 Concord Road | Sudbury, MA.

Notes:

1. Deposited soils were mostly from an area at Featherland Park that DPW excavated in order to store baseball materials. In addition to these soils, DPW also deposited small amounts of organics such as wood chips, leaves & brush. The majority of the fill soils consisted of a sandy/loam material.
2. As a result of performing investigatory test trenches at the Site, historic fill was encountered. The historic fill is believed to have originated from the historic chicken farm which operated at this property before the 1960's for many years.
3. The DPW fill material that was spread was actually spread over existing historic farm fill. This area functioned as the farm dump which was common for farms to do historically.
4. The difference in fill material dumped historically by the farm and the fill deposited by DPW was very evident. The DPW fill consisted of sandy loam. Following this layer, roots of vegetation and organics such as leaf/twig material were observed where vegetation had established post farm dumping days. As investigatory trenches continued into this historic farm fill material, we encountered various soils and an abundance of debris. Debris encountered included metal automotive pieces, metal debris/piping, tires, empty 55 gallon drums, poultry fencing, glass bottles, concrete, trash and coal ash.
5. Large canopy trees growing within the surrounding landscape were also used to confirm native grade and non filled areas.



February 18, 2019  
REV. June 27, 2019

TCF

Michael J. DeRosa  
PWS No. 2250



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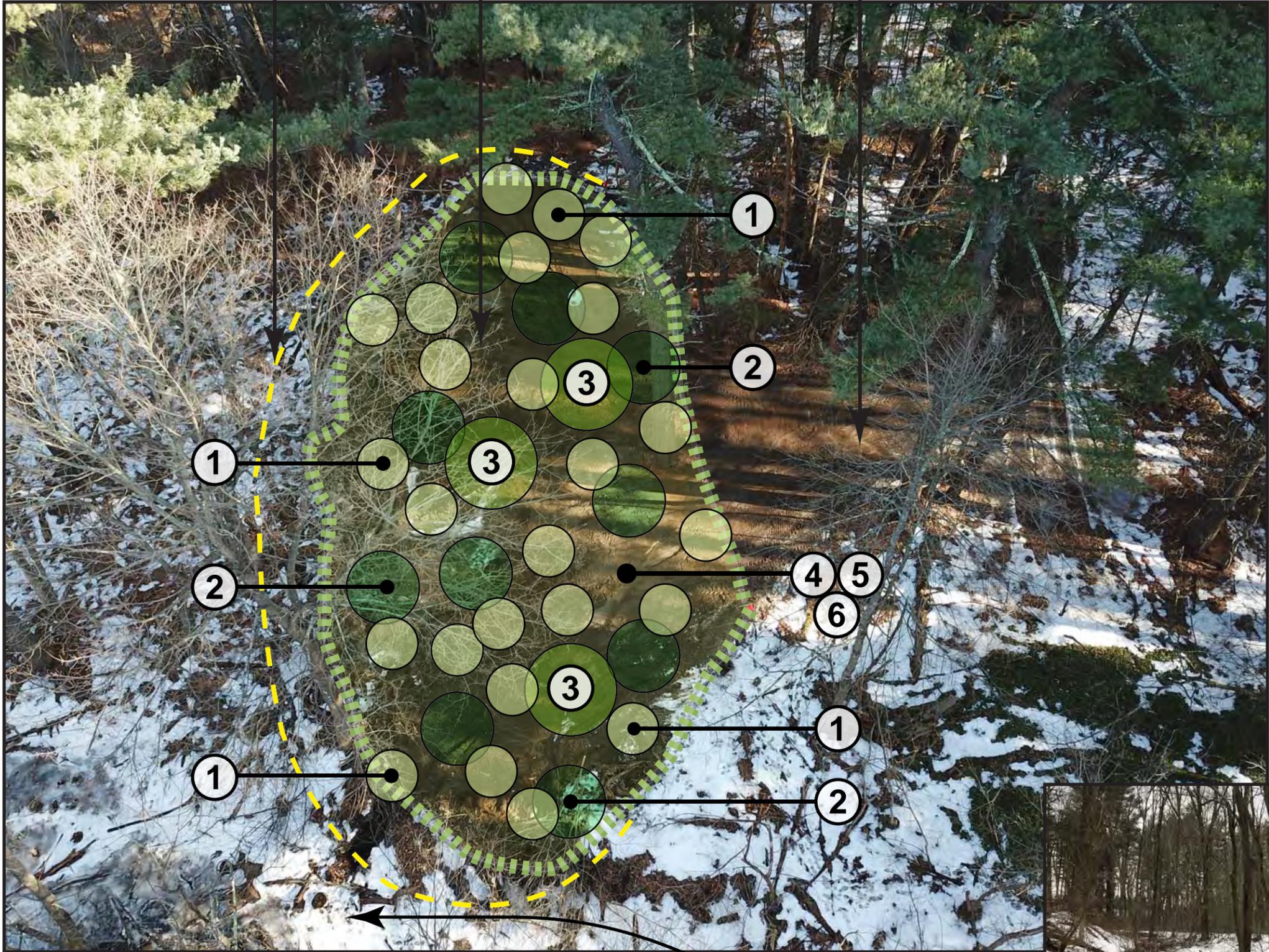
# Figure 2c. Restoration Plan

Featherland Park | 503 Concord Road | Sudbury, MA

Erosion control/limit of work

Disturbance/restoration area: 4,300 s.f.

Wood road/access



**Notes:**

1. DJI Mavic Drone aerial photograph taken on February 5, 2019.
2. Miscellaneous surficial metal debris historically dumped within the 100-foot buffer zone to bordering vegetated wetland is proposed to be removed using chains and/or long reach of an excavator.
3. DPW fill consisting of sandy loam material will be removed down to native soils when possible. In areas where historic farm fill underlie DPW fill material, all DPW fill material will be removed besides 1 foot of sandy loam. The purpose of this is to support restoration plantings in this area. The historic farm fill is made up of poor soils mixed with miscellaneous trash and debris. To support plant material and successful growth we recommend leaving a foot of soil on top of this historic fill layer. In areas where poor soils exists, an additional layer of loam may need to be added.
4. All disturbed soils will be stabilized with a native seed mix and salt marsh hay at the end of each day. As areas are completed starting with areas adjacent to the wetland, they will be stabilized to prevent erosion during precipitation events. After soil removal activities are complete, the woods road will also be stabilized with a native seed mix and salt marsh hay.
5. Oversight will be conducted by DeRosa personnel to verify grades and soil composition. Plant material will be layed out by DeRosa personnel as well.
6. The Site will be inspected at least once a month for the first four (4) months of the growing season to ensure plants are established and growing. After the first growing season, the site will be visited quarterly until 75% cover is achieved. Monitoring and aftercare will continue for 2 years.

February 18, 2019  
 Rev. June 27, 2019  
 TCF

Michael J. DeRosa  
 PWS No. 2250



Restoration Planting List				
No.	Common Name	Scientific Name	Size	Quantity
1	White Pine	<i>Pinus strobus</i>	3 gal	10
2	Red Oak	<i>Quercus rubra</i>	1.5"	3
3	Gray Dogwood	<i>Cornus racemosa</i>	3 gal	25
4	Cinnamon Fern	<i>Onoclea sensibilis</i>	1 gal	50
5	Sensitive Fern	<i>Osmunda cinnamomea</i>	1 gal	50
6	Red Fescue	<i>Festuca rubra</i>		Seed



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 Rowley, Massachusetts  
 USA

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Figure 2d. Plant Image Board

Featherland Park | 503 Concord Road | Sudbury, MA



SENSITIVE FERN



CINNAMON FERN



WHITE PINE



RED OAK



GRAY DOGWOOD



RED FESCUE



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USA

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[derosaenvironmental.com](http://derosaenvironmental.com)

# Notice of Intent

503 Concord Road, Featherland Park, Sudbury, MA

Figure 3. Aerial  
Photograph

USGS Color Orthos 2013-2014



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# Notice of Intent Application

503 Concord Road, Featherland Park, Sudbury, MA

Figure 4.  
Wetlands Map



#### DEP Wetlands Detailed

- Barrier Beach System
- Barrier Beach-Deep Marsh
- Barrier Beach-Wooded Swamp Mixed Trees
- Barrier Beach-Coastal Beach
- Barrier Beach-Coastal Dune
- Barrier Beach-Marsh
- Barrier Beach-Salt Marsh
- Barrier Beach-Shrub Swamp
- Barrier Beach-Wooded Swamp Coniferous
- Barrier Beach-Wooded Swamp Deciduous
- Bog
- Coastal Bank Bluff or Sea Cliff
- Coastal Beach
- Coastal Dune
- Cranberry Bog
- Deep Marsh
- Barrier Beach-Open Water
- Open Water
- Rocky Intertidal Shore
- Salt Marsh
- Shallow Marsh Meadow or Fen
- Shrub Swamp
- Tidal Flat
- Wooded Swamp Coniferous
- Wooded Swamp Deciduous
- Wooded Swamp Mixed Trees

USGS Color Orthos 2013-2014



# Notice of Intent Application

503 Concord Road, Featherland Park, Sudbury, MA

Figure 5.  
NHESP Map



NHESP Certified Vernal Pools



NHESP Natural Communities



Potential Vernal Pools



NHESP Priority Habitats of Rare Species



USGS Color Orthos 2013-2014



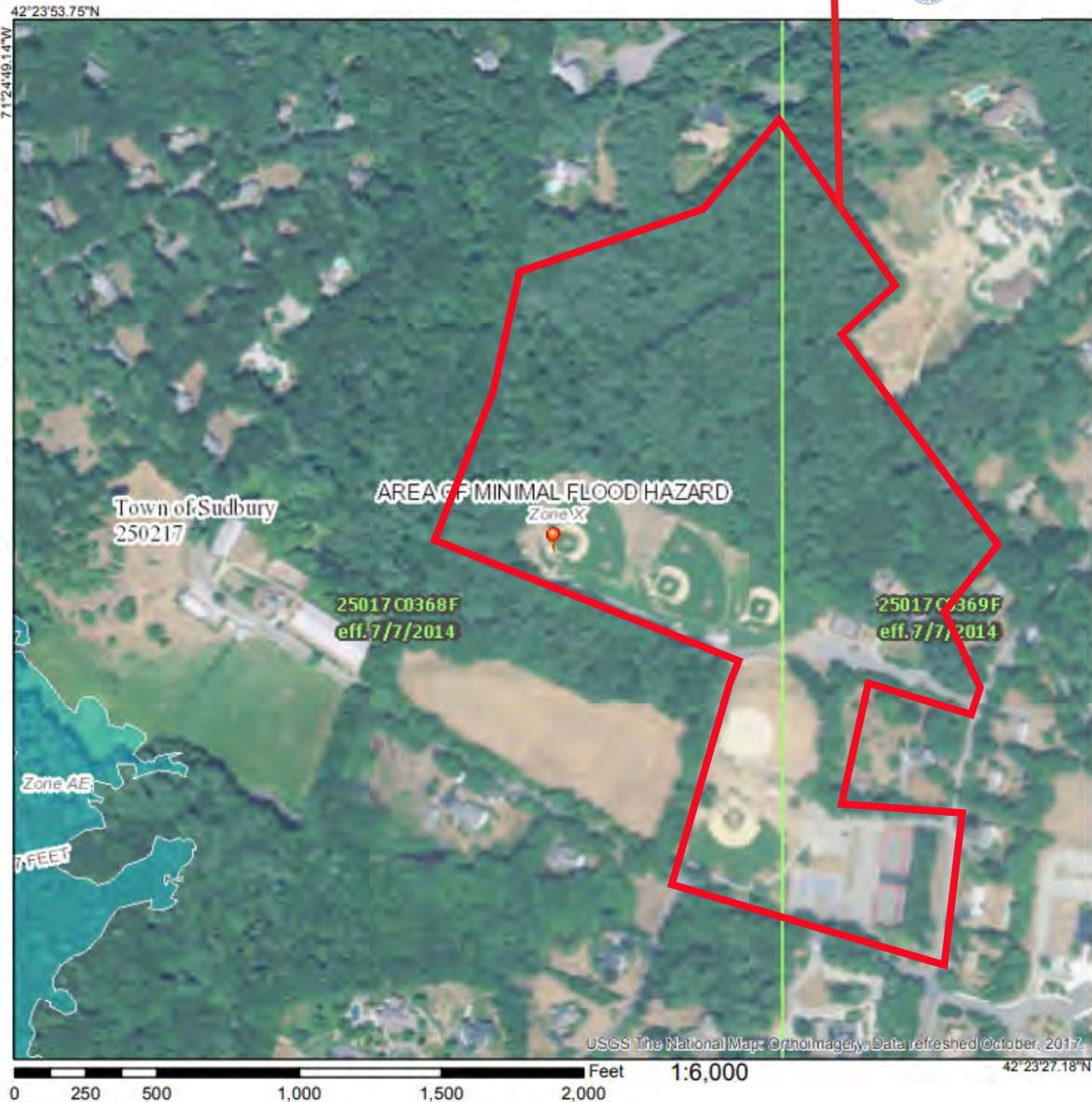
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# Notice of Intent Application

503 Concord Road, Featherland Park, Sudbury, MA

Figure 6. FIRMette Map

## National Flood Hazard Layer FIRMette



**Legend**

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

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

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

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

The flood hazard information is derived directly from the authoritative NFHL web services provided by FEMA. This map was exported on 4/24/2019 at 10:44:07 AM and does not reflect changes or amendments subsequent to this date and time. The NFHL and effective information may change or become superseded by new data over time.

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

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P. O. Box 716  
Rowley Massachusetts  
USA

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derosaenvironmental.com

## Appendix A

---

Abutter List

Notification to Abutters

Affidavit of Service

**Abutters List**

print this list

Date: April 23, 2019

Subject Property Address: 491 CONCORD RD Sudbury, MA  
Subject Property ID: F10-0001

Subject Property Address: 503 CONCORD RD Sudbury, MA  
Subject Property ID: F10-0001

Search Distance: 100 Feet

-----  
Prop ID: E09-5100  
Prop Location: RAILWAY Sudbury, MA  
Owner: EOT  
Co-Owner: MASS BAY TRANSPORTATION  
Mailing Address:

10 PARK PLAZA  
BOSTON, MA 02116

-----  
Prop ID: F09-0002  
Prop Location: 82 MORSE RD Sudbury, MA  
Owner: ELSPETH J DAVIS TRUSTEE  
Co-Owner: BROADACRE FARMS TRUST  
Mailing Address:

28 SAWYERHILL RD  
BERLIN, MA 01503

-----  
Prop ID: F09-0004  
Prop Location: MORSE RD Sudbury, MA  
Owner: TOWN OF SUDBURY  
Co-Owner:  
Mailing Address:

278 OLD SUDBURY RD  
SUDBURY, MA 01776

-----  
Prop ID: F09-0006  
Prop Location: MORSE RD Sudbury, MA  
Owner: TOWN OF SUDBURY  
Co-Owner: PARK & REC  
Mailing Address:

VERIFIED OWNERS:

MAY 6, 2019  
JOHN J. LOISEL

TOWN OF SUDBURY  
BOARD OF ASSESSORS  
278 OLD SUDBURY ROAD  
SUDBURY, MA 01776

278 OLD SUDBURY ROAD  
SUDBURY, MA 01776

---

---

Prop ID: F09-0217  
Prop Location: 55 HUNT RD Sudbury, MA  
Owner: MCCORMICK DAVID J & MARY ANN  
Co-Owner:  
Mailing Address:  
55 HUNT  
SUDBURY, MA 01776

---

---

Prop ID: F09-0415  
Prop Location: 20 AUSTIN DR Sudbury, MA  
Owner: WONG JEAN E & ARTHUR P TRS  
Co-Owner: ARTHUR P WONG TRUST  
Mailing Address:  
20 AUSTIN DR  
SUDBURY, MA 01776

---

---

Prop ID: F09-0518  
Prop Location: 35 BISHOP LN Sudbury, MA  
Owner: GEWANDTER JUSTIN H &  
Co-Owner: GEWANDTER MICHELLE K  
Mailing Address:  
35 BISHOP LANE  
SUDBURY, MA 01776

---

---

Prop ID: F09-0801  
Prop Location: 33 MORSE RD Sudbury, MA  
Owner: LEGER DAVID C & GINA M  
Co-Owner:  
Mailing Address:  
33 MORSE RD  
SUDBURY, MA 01776

---

---

Prop ID: F09-0802  
Prop Location: 9 CODMAN DR Sudbury, MA  
Owner: CAVANAUGH JAMES R & LISA M

Co-Owner:  
Mailing Address:  
9 CODMAN DR  
SUDBURY, MA 01776

---

Prop ID: F10-0002  
Prop Location: 497 CONCORD RD Sudbury, MA  
Owner: ALLEN JOYCE T & STEPHEN M  
Co-Owner: TRUSTEES OF THE SJA CONCORD  
Mailing Address:  
497 CONCORD RD  
SUDBURY, MA 01776

---

Prop ID: F10-0003  
Prop Location: 509 CONCORD RD Sudbury, MA  
Owner: RAYMOND JEFFREY P & AMANDA L  
Co-Owner:  
Mailing Address:  
509 CONCORD ROAD  
SUDBURY, MA 01776

---

Prop ID: F10-0004  
Prop Location: 515 CONCORD RD Sudbury, MA  
Owner: ALLEN JUNE E  
Co-Owner:  
Mailing Address:  
515 CONCORD RD  
SUDBURY, MA 01776

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Prop ID: F10-0006  
Prop Location: 523 CONCORD RD Sudbury, MA  
Owner: PAPPAS DIANNE & MARROW STEVEN  
Co-Owner: DIANNE A PAPPAS 2009 FAMILY  
Mailing Address:  
523 CONCORD RD  
SUDBURY, MA 01776

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Prop ID: F10-0010  
Prop Location: 555-2 CONCORD RD Sudbury, MA

Owner: FONTE VENANZIORO & LAURA A  
Co-Owner:  
Mailing Address:  
555 CONCORD RD  
SUDBURY, MA 01776

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Prop ID: F10-0010  
Prop Location: 555 CONCORD RD Sudbury, MA  
Owner: FONTE VENANZIORO & LAURA A  
Co-Owner:  
Mailing Address:  
555 CONCORD RD  
SUDBURY, MA 01776

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Prop ID: F10-0011  
Prop Location: 559 CONCORD RD Sudbury, MA  
Owner: COX IVETTE TRUSTEE  
Co-Owner: IVETTE COX LIVING TRUST  
Mailing Address:  
559 CONCORD RD  
SUDBURY, MA 01776

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Prop ID: F10-0030  
Prop Location: 472 CONCORD RD Sudbury, MA  
Owner: TOWN OF SUDBURY  
Co-Owner: SUDBURY PUBLIC SCHOOLS  
Mailing Address:  
40 FAIRBANK ROAD  
SUDBURY, MA 01776

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Prop ID: F10-0031  
Prop Location: 502 CONCORD RD Sudbury, MA  
Owner: CASSIVI HERMEL & NINA  
Co-Owner:  
Mailing Address:  
502 CONCORD RD  
SUDBURY, MA 01776

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Prop ID: F10-0032

Prop Location: 496 CONCORD RD Sudbury, MA  
Owner: MILLER MARTIN SMITH &  
Co-Owner: MYRA FINN  
Mailing Address:  
496 CONCORD RD  
SUDBURY, MA 01776

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Prop ID: F10-0033  
Prop Location: 490 CONCORD RD Sudbury, MA  
Owner: ZYWINA, MARIANNA  
Co-Owner:  
Mailing Address:  
490 CONCORD RD  
SUDBURY, MA 01776

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Prop ID: F10-0034  
Prop Location: 482 CONCORD RD Sudbury, MA  
Owner: CHINOY PERCY B  
Co-Owner:  
Mailing Address:  
482 CONCORD RD  
SUDBURY, MA 01776

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Prop ID: F10-0035  
Prop Location: 476 CONCORD RD Sudbury, MA  
Owner: TRATNYEK JOSEPH P & MARION E  
Co-Owner: TRUSTEES OF THE TRATNYEK  
Mailing Address:  
476 CONCORD RD  
SUDBURY, MA 01776

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Prop ID: F10-0519  
Prop Location: 31 BISHOP LN Sudbury, MA  
Owner: HOLICK SALLY ANN TRUSTEE  
Co-Owner: WHISPERING PINES TRUST  
Mailing Address:  
31 BISHOP LN  
SUDBURY, MA 01776

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Prop ID: F10-0523  
Prop Location: BISHOP LN Sudbury, MA  
Owner: HOLICK SALLY ANN TRUSTEE  
Co-Owner: WHISPERING PINES TRUST  
Mailing Address:  
31 BISHOP LANE  
SUDBURY, MA 01776

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Prop ID: G10-0002  
Prop Location: 1 MORSE RD Sudbury, MA  
Owner: ST ELIZABETHS CHURCH OF  
Co-Owner: SUDBURY  
Mailing Address:  
451 CONCORD RD  
SUDBURY, MA 01776

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Prop ID: G10-0004  
Prop Location: 468 CONCORD RD Sudbury, MA  
Owner: SACCO JUSTIN A & LAURA  
Co-Owner:  
Mailing Address:  
468 CONCORD RD  
SUDBURY, MA 01776

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**Notification to Abutters under the Massachusetts Wetlands Protection Act**

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

A. The name of the applicant is Town of Sudbury Department of Public Works

B. The address of the lot where the activity is proposed is:

503 Concord Road, Sudbury, MA

C. The applicant has filed a Notice of Intent with the Sudbury Conservation Commission seeking permission to implement a restoration plan within Bordering Vegetated Wetland under the Wetlands Protection Act (General Laws Chapter 131, Section 40).

The work includes wetland restoration after a violation.

D. Copies of the Notice of Intent may be examined at the Sudbury Town Hall in the Conservation Commission office between the hours of 8:00am and 5:00pm Monday through Friday. For more information call the Sudbury Conservation Commission at 978-440-5471

E. Information regarding the project, date, time and place of the public hearing may be obtained from DeRosa Environmental, by contacting Evin Guvendiren at [guvendiren.derosa@gmail.com](mailto:guvendiren.derosa@gmail.com) or the Sudbury Conservation Commission at 978-440-5471 between the hours of 8:00am and 5:00pm on Monday - Friday

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NOTE: Notice of the public hearing, including its date, time, and place, will be published at least five (5) days in advance in the local newspaper

NOTE: Notice of the meeting of the Conservation Commission, including its date, time and place will be posted in the Town Hall not less than forty-eight (48) hours in advance of the meeting.

NOTE: You also may contact your local Conservation Commission or the Department of Environmental Protection Northeast Regional Office for more information about this application or the Wetlands Protection Act.

**AFFIDAVIT OF SERVICE**  
Under the Massachusetts Wetlands Protection Act

I, Evin Guvendiren, hereby certify under the pains and penalties of perjury that on July 1, 2019 I gave notification to abutters in compliance with the second paragraph of Massachusetts General Laws Chapter 131, Section 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 the Town of Sudbury Department of Public Works with the Town of Sudbury Conservation Commission on

July 1, 2019 for property located at:

503 Concord Road, Featherland Park, Sudbury, MA.

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



July 1, 2019

Signature

Date

## Appendix B

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### Professional Qualifications

*Evin Guvendiren*

*Tyler Ferrick*

*Michael J. DeRosa*



**Evin Guvendiren, BS**

*Natural Resource Economist*

Evin graduated from the University of Massachusetts Amherst with a Bachelor of Science in Natural Resource Economics and minors in Environmental Science, Economics, and Natural Resource Conservation. Her studies focused on sustainability, econometrics, land conservation, environmental policy and natural resource management.

Evin joined DeRosa Environmental Consulting in the Summer of 2017 and is currently holding the position as Environmental Scientist.

During her bachelor's studies, Evin spent a semester abroad with the School for Field Studies in Costa Rica. There, she lived on a sustainable farm and implemented an integrated pest management system. Her classes consisted of field experience and course work on sustainable development, tropical ecology, and resource management in a developing country. She also participated in environmental stewardship and spent one month conducting a Socio-economic directed research project with a national park.

Evin also spent a semester researching the Colony Collapse Disorder as an independent study. She helped a professor with a grant from the USDA to determine consumers' willingness to pay for native bee pollination on cranberries. This research was funded to help find an alternative to commercial honeybee pollination to support the agriculture industry and economy.

Having grown up near beaches and ocean, marshes, rivers, vernal pools, and national parks, Evin has a strong love and passion for the environment. She spends most of her time outdoors and camps, hikes and kayaks whenever she can.

**REPRESENTATIVE PROJECTS**

**Private Residence | Dune Grass Restoration**  
Manchester, MA

**Private Residence | Dune Grass Restoration**  
Ipswich, MA

**Commercial Property | Wetland Restoration**  
Rowley, MA

**Private Residence | Reconstruction of a Single Family Home**  
Ipswich, MA

**Invasive Plant Management | Restoration Project**  
Ipswich, MA

**Sally's Meadow | Butterfly Meadow Restoration**  
Ipswich, MA

**Town Wide Beach and Road Management Plans**  
Manchester, MA

**Wetland Restoration | MassDEP ACOP**  
Rockport, MA

**Wetland Restoration | MassDEP ACOP**  
Essex, MA

**CERTIFICATION**

**40 Hour Hazardous Waste Site Worker (OSHA)**

**Adult and Pediatric First Aid/CPR/AED**

**EDUCATION**

**BS, Natural Resource Economics | 2014**  
University of Massachusetts, Amherst, MA

**PROFESSIONAL EXPERIENCE**

**Environmental Scientist | 2017 – Present**

DeRosa Environmental Consulting Inc

**Student Researcher | January – May 2014**

University of Massachusetts Amherst-Resource Economics department

**Student Researcher | January – May 2013**

The SFS Center for Sustainable Development Studies, Atenas, Costa Rica



**Tyler Ferrick, BS**

*Project Manager/Environmental Scientist*

Tyler graduated with a bachelor's degree in Conservation Law Enforcement from Unity College located in Unity, Maine. Tyler is also a graduate from the Schoodic Point Seasonal Law Enforcement Program for the National Park Service. His study prepares him for issues dealing with the management and protection of wildlife, natural resources, and environmental laws and regulations. He is working towards becoming an Environmental Police Officer in his future.

Tyler began working with DeRosa Environmental Consulting in the fall of 2012. He is currently working at DeRosa Environmental as a Project Manager. Tyler has been involved in a variety of projects at DeRosa related to MGL Ch. 21e and the Massachusetts Contingency Plan (MCP). He has lead remedial action operations, conducted oversight and has prepared MCP documents. Furthermore, Tyler has worked with local and state environmental agencies to permit wetland related projects. He has experience delineating, designing, assessing and restoring wetland resource areas. Tyler is interested in the natural resources that Massachusetts coast has to offer and is driven by the protection and health needed for these resources in order for future generations to experience.

Prior to immersing himself in the world of science, Tyler worked as an intern with the US Environmental Protection Agency in Boston. Here he began to learn about Brownfield's and the extent and severity of soil and groundwater pollution in our local areas. He also learned about stormwater runoff and successful management and treatment methods. During Tyler's summer working for the EPA he helped with the EPA's food bank canned food drive.

Tyler's love for the outdoors started when he was young. He has many hobbies which include fishing, hunting, skiing, hiking, and just being in the woods. He likes to fish for salt and freshwater fish. He even does some commercial fishing for stripers when he gets a chance.

**REPRESENTATIVE PROJECTS**

**Lead Abatement and Wetland Restoration Project**  
Burlington, MA

**Commercial Property | Wetland Restoration**  
Rowley, MA

**Phase 1 ESA**  
Topsfield, MA

**Commercial Property | Phase 2 ESA**  
Plaistow, NH

**MWRA RAM Completion Report**  
Charlestown Wind Turbine Site

**Commercial Property | Wetland Delineation**  
Ipswich, MA

**Wetland Permitting | Notice of Intent**  
Hamilton, MA

**Hazardous Waste Clean-Up | Gasoline and Fuel Oil Remediation**  
Rowley, MA

**Wetland Design | Restoration Project**  
Beverly, MA

**Invasive Species Management | and Wetland Permitting**  
Gloucester, MA

**Wetland Restoration**  
Braintree, MA

**Wetland Restoration |**  
**MassDEP ACOP**  
Haverhill, MA

**Hazardous Waste Clean-Up |**  
**Metals, Gasoline, Fuel Oil**  
Manchester, MA

**Wetland Restoration |**  
Hopkinton, MA

**Phase 2 ESA**  
Ipswich, MA

**Hazardous Waste |**  
**Tank Closure Report**  
Hamilton, MA

## **EDUCATION**

**BS, Conservation Law Enforcement | 2012**  
Unity College, Unity, Maine

## **PROFESSIONAL EXPERIENCE**

Project Manager/ Environmental Scientist  
DeRosa Environmental Consulting Inc | 2012 – Present  
Landscape  
Chickadee Hill Farm | 2010, 2012  
Intern (Environmental Protection Assistant)  
US Environmental Protection Agency | Summer 2011

## **Professional Memberships/Affiliations**

LSPA | Licensed Site Professional Association  
ELA | Ecological Landscape Alliance

## **Certification**

40 Hour Hazardous Waste Site Worker (OSHA)  
Pesticide Applicators License | CORE MDAR  
Railway Worker Protection (RWP) | MBCR  
BMP's for Wetland Design & Construction | AMWS  
Classic River Morphology | AMWS  
Historic Fill | LSPA

## **License**

Unmanned Aircraft License | FAA | Exp. 2/28/2019



## Michael J. DeRosa

Principal, LSP, LEED AP BC&D

Michael J. DeRosa, Principal and project manager specializing in habitat restoration and wetland restoration projects. He has more than 24 years experience working with ecological systems focused on restoration and rehabilitation of damaged landscapes. Ecological principles inform his design and restoration practices.

Mike was the principal wetland permitting leader for the Turner Hill Resort Center in Ipswich Massachusetts. He has consulted with the Archdiocese of Boston since 1989 in all environmental areas. His firm is known for their expertise in wetland and wildlife habitat restoration and rehabilitation and invasive species control and management.

Mike incorporated DeRosa Environmental Consulting, Inc., in May 1994 after spending 8 years working in the environmental consulting industry as technical director and project manager. Prior to his consulting career he was a researcher at the Harvard School of Tropical Public Health working with infectious diseases and tick transmitted Lyme disease, in particular.

Mike has been involved with many projects associated with MGL Ch. 21e and Massachusetts Contingency Plan (MCP) projects. He received his Licensed Site Professional (LSP Lic. 3452) registration in 1993. Mike is uniquely credentialed in hazardous waste site assessment and remediation and has over 24 years experience in wetland permitting, habitat restoration and mitigation. Mike has permitted projects with all federal, state and local environmental agencies. Mike is on the Practice Faculty at The Boston Architectural College. His new passion is the incorporation of urban agriculture and food justice initiatives in mixed use community based projects.

## EDUCATION

MA, Boston University, 1993

North Carolina State University, 1986

Harvard University, 1985

BA, University of Denver, 1982

## REPRESENTATIVE PROJECTS

**Ipswich River Watershed Association**  
Ipswich MA

**Miles River Task Force |  
Watershed Restoration**  
Beverly Wenham Hamilton Ipswich MA

**Paumier Residence |  
Dune Restoration**  
Manchester MA

**Matignon High School Athletic Fields |  
Landfill Cap Remediation**  
Cambridge/Somerville MA

**Turner Hill Golf Course |  
Wetland Mitigation & Pond Design**  
Ipswich MA

**Saint Aidan's Church |  
UST Remediation**  
Brookline MA

**Saint Kevin's School |  
AST Remediation**  
Dorchester MA

**Saint Joseph's School |  
UST Remediation**  
Salem MA

**Ipswich Country Club |  
Wetland Restoration**  
Ipswich MA

**Ould Newbury Golf Club |  
LID Runoff Design**  
Newbury MA

**Ferncroft Country Club |  
Pond Restoration**  
Topsfield/Middleton MA

## **PROFESSIONAL EXPERIENCES**

Principal, LSP, LEED AP BC&D

DeRosa Environmental Consulting, Inc. | 1994-Present

Technical director, Environmental Engineering Division

Web Engineering Associates, Inc. | 1990-1994

Project manager/Environmental Scientist,

Dennison Environmental, Inc. | 1988-1989

Population Ecologist & Wetlands Specialist,

Lelito Environmental Consultants, LLC | 1987-1988

Research Assistant,

North Carolina State University | 1985-1987

Air Pollution Analyst

Entropy Environmentalists, Inc. | 1985-1987

Senior Research Assistant

Harvard University | 1983-1985

Naturalist

The Trustees of Reservations | 1983-1985

## **PROFESSIONAL MEMBERSHIPS/AFFILIATIONS**

New England Wildflower Society

USGBC | United States Green Building Council

NGWA | National Ground Water Association

AMWS | Association of Massachusetts Wetland Scientists

LSPA | Licensed Site Professional Association

SWS | Society of Wetland Scientists

MACC | Massachusetts Association of Conversation Commissioners

## **CERTIFICATIONS AND SPECIAL TRAINING**

Licensed Site Professional (LSP), Lic. No. 3452

Professional Wetland Scientist (PWS)

LEED Accredited Professional | 10342989

Certified Ecologist, The Ecological Society of America |

June 2002 – May 2007

CERCLA 40 Hour Hazardous Materials Safety Training |

OSHA 29 CFR 1910.120

Confined Space Entry Training | OSHA 29 CFR 1910.146

Management Training Workshop | Dun and Bradstreet

Hazardous Materials Chemistry Seminar | University of Toledo

Unmanned Aircraft License | FAA | Exp. 2/28/2019