



***Via Certified Mail***

October 14, 2015

Merrimack Local River Advisory Committee  
Michele L. Tremblay, Chair  
PO Box 3019  
Boscawen, NH 03303

**Re: Shoreland Permit Application – The Northern Pass Project**

Dear Ms. Tremblay:

Enclosed please find a copy of the Shoreland Permit Application package that will be filed with the NH Department of Environmental Services (DES) and New Hampshire Site Evaluation Committee for the Northern Pass Project. The project includes work in or around rivers, lakes, streams ponds, etc. Under state law, it is a requirement to provide the municipalities and Local River Advisory Committees having jurisdiction over these waterbodies with a copy of the shoreland application by Certified mail, for review and comment. Please find attached a copy of the application, which proposes work within the protected shoreland of a public water or Designated River in your regulatory area.

Sincerely,

Lee Carbonneau

Normandeau Associates, Inc.

As agent for Northern Pass Transmission, LLC.



***Via Certified Mail***

October 14, 2015

Town of Northfield  
21 Summer Street  
Northfield, NH 03276

**Re: Shoreland Permit Application – The Northern Pass Project**

Dear Sir or Madam:

Enclosed please find a copy of the Shoreland Permit Application package that will be filed with the NH Department of Environmental Services (DES) and New Hampshire Site Evaluation Committee for the Northern Pass Project. The project includes work in or around rivers, lakes, streams ponds, etc. Under state law, it is a requirement to provide the municipalities and Local River Advisory Committees having jurisdiction over these waterbodies with a copy of the shoreland application by Certified mail, for review and comment. Please find attached a copy of the application, which proposes work within the protected shoreland of a public water or Designated River in your regulatory area.

Sincerely,

Lee Carbonneau

Normandeau Associates, Inc.

As agent for Northern Pass Transmission, LLC.

Shoreland Permit Application  
Northern Pass  
Merrimack River, Northfield, NH

Prepared for  
Northern Pass Transmission, LLC and  
Public Service Company of New Hampshire  
d/b/a Eversource Energy  
Energy Park  
780 Commercial Street  
Manchester, NH 03101

October 2015

# TABLE OF CONTENTS

1.0	Shoreland Permit Application .....	1
2.0	Copy of Check for Application Fee .....	7
3.0	Project Specific Work within the Protected Shoreland .....	9
3.1	Merrimack River .....	9
■	Appendix A Plans.....	11
■	Appendix B Property Deeds .....	13
■	Appendix C USGS Locus Maps.....	20
■	Appendix D NH Tax Maps .....	22
■	Appendix E Representative Photos .....	24
■	Appendix F NHB Report and Correspondence .....	26
■	Appendix G Certified Mail Notifications and Receipts .....	31

## DISCLOSURE STATEMENT

*The data contained in all pages of this document have been submitted in confidence and contain trade secrets and/or privileged or confidential information, and such data shall be used or disclosed only for evaluation purposes, provided that if a contract is awarded to this proposer as a result of or in connection with the submission of this proposal, the client shall have the right to use or disclose the data herein to the extent provided in the contract. This document includes data that shall not be disclosed outside of the purposes of this submittal and shall not be duplicated, used, or disclosed--in whole or in part--for any purpose other than for evaluation purposes.*

## 1.0 Shoreland Permit Application

---



Merrimack River



# SHORELAND PERMIT APPLICATION

Water Division/ Shoreland Program

Land Resources Management

Check the status of your application: <http://des.nh.gov/onestop>

RSA/Rule: RSA 483-B, Env-Wq 1400

Administrative Use Only	Administrative Use Only	Administrative Use Only	File Number:
			Check No.
			Amount:
			Initials:

This is an application for a permit to excavate, fill or construct new structures within the protected shoreland as regulated under RSA 483-B. For a complete list of activities that do not require a shoreland permit, view the shoreland program [frequently asked questions](#) (FAQ's)

Please type or print clearly. **Please note:** Application packages missing required elements will be returned to the applicant in their entirety, including the fee. Land Resources Management will include a letter identifying the missing elements and describing how to resubmit the application package to DES. Application packages that are accepted will proceed to technical review to ensure the applicant has fulfilled all requirements as specified by statute or rules. For more information visit the [New Land Resources Management Application Return Process](#) site located on the Shoreland Program Page.

## 1. PROPERTY OWNER

LAST NAME, FIRST NAME, M.I.: Public Service Co. of NH d/b/a Eversource Energy (PSNH), c/o Kevin McCune, Supervisor, Environmental Affairs Licensing and Permitting

ADDRESS: 780 Commercial Street

TOWN/CITY: Manchester

STATE: NH

ZIPCODE: 03101

PHONE: 603-669-4000

EMAIL: Kevin.mccune@eversource.com

## 2. PROJECT LOCATION

ADDRESS: Off Fiddlers Choice Road

TOWN/CITY: Northfield

STATE: NH

ZIPCODE: 03276

WATERBODY NAME: Merrimack River

TAX MAP: R02

LOT NUMBER: 3

## 3. CONTRACTOR OR AGENT

LAST NAME, FIRST NAME, M.I.: Carbonneau, Lee E.

ADDRESS: 25 Nashua Rd

TOWN/CITY: Bedford

STATE: NH

ZIPCODE: 03110

PHONE: 603-637-1150

EMAIL: lcarbonneau@normandeau.com

## 4. CRITERIA

Please check at least one of the following below:

- ☒ This shoreland permit application requires neither a proposal to make the property more nearly conforming nor a request for a waiver of a minimum standards.
- ☐ This shoreland permit application includes a proposal to make the structures and/ or the property more nearly conforming in accordance with RSA 483-B:11
- ☐ This shoreland permit application includes a request for a waiver of the following minimum standard(s)

## 5. PROJECT DESCRIPTION

Total Square feet of impact 13,187 Total square feet of new impervious area 21

[shoreland@des.nh.gov](mailto:shoreland@des.nh.gov) or (603) 271-2147

NHDES Wetlands Bureau, PO Box 95, Concord, NH 03303-0095

[www.des.nh.gov](http://www.des.nh.gov)

Provide a complete description of the proposed project. **A new high voltage transmission line will be constructed in an existing transmission ROW, and existing transmission and distribution lines will be relocated. The Northfield Project area includes one Shoreland location along the Merrimack River. Work in the Shoreland includes installation of one new H-frame structure; and the removal and relocation of one existing monopole within the Shoreland, as shown in the project plans. One temporary construction access path and one temporary work pad will be established, and these work areas will be restored after construction. In addition, 6,038 square feet of tree clearing/trimming is planned within the existing ROW.**

#### 6. PERMIT APPLICATIONS SUBMITTED

Please indicate if applications for any of the permits listed below have been submitted or will need to be submitted:

- ☒ Wetlands Permit per RSA 482-A ☐ Individual Sewage Disposal System per RSA 485-A:29  
☒ Alteration of Terrain Permit Per RSA 485-A:17 ☐ Subdivision Permit Per RSA 485-A:29

#### 7. REFERENCE LINE ELEVATION (REQUIRED FOR LAKES, PONDS, AND ARTIFICIAL IMPOUNDMENTS)

Reference line elevations for most lakes, ponds and artificial impoundments greater than 10 acres in size are listed in the [Consolidated List of Waterbodies Subject to the Shoreland Water Quality Protection Act](#). Please see RSA 483-B:4, xvii for the definition of reference line.

The reference line for this waterbody is: 252-254 Feet

#### 8. SHORELAND FRONTAGE Shoreland frontage is the actual frontage along the waterfront measured at the reference line.

The shoreland frontage on this lot is :271 Linear Feet

☐ N/A – No Direct frontage on this lot

#### 9. APPLICATION FEE

A non-refundable permit application fee of \$100 plus \$0.10 per total square foot of is required at the time the application is submitted. Fees are capped at \$750 for projects impacting less than 10,000 sq ft, \$1,875 for projects impacting between 10,000 and less than 25,000 sq ft, and \$3,750 for projects impacting 25,000 sq ft and greater. Please note that your application will not be considered complete if it does not include the appropriate fee. **Please make checks payable to the Treasurer, State of NH.**

#### 10. CALCULATING THE TOTAL IMPACT AREA AND PERMIT APPLICATION FEE

Total impact area is calculated by determining the sum of all areas disturbed by regrading, excavation, filling, construction, and structure removal. Impacts often include, but are not limited to: constructing new driveways, constructing new structures, areas disturbed when installing a new septic system or foundation, creating temporary access roads for the purpose of installing a well and regrading associated with landscaping activities.

Total Area Impacted within 250 Of the Reference Line. = 13,187 (A) Square Feet

Multiply the total Impact Area By 10¢ and add \$100.00. [ (A) X .10 + \$100.00 ] = \$ Permit Fee Exempt per 483-B:5-b III

#### 11. REQUIRED CERTIFICATIONS

By initialing within the blank before each of the following statements, and signing below, you are certifying that: to the best of my knowledge, the information provided is true, complete and not misleading.

☒ I understand that any permit or waiver granted based on false, incomplete, or misleading information shall be subject to revocation.

☒ I am aware that obtaining a shoreland permit will not exempt the work I am proposing from other state, local or federal approvals.

☒ I have notified the municipality or municipalities in which the proposed impacts are located and provided them with a complete copy of the application and all supporting materials on   /  /   via certified mail.

☒ This project is within ¼ mi of a [designated river](#) (river name: Merrimack River) and I have notified the [Local River Management Advisory Committee](#) by providing them with a copy of the complete application, including all supporting materials, via certified mail on day: 16 month: 10 year: 2015 and I have included a copy of the certified mail receipt in the application submittal (RSA 482-A:3,i(d)(2))

<input type="checkbox"/> This project is <b>not</b> within ¼ mi of a designated river			
N/A I have notified all abutters of the proposed impacts via certified mail as required by RSA 483-B:5-b, iv-a. (see definition of "abutter" on page (6)). <b>Exempt per RSA-483-B:5-b, IV (A)</b>			
<b>12. SIGNATURES (Both must sign per Env-Wq 1406.08)</b>			
OWNER NAME	See attached signature page	PRINT NAME LEGIBLY: Kevin McCune, PSNH d/b/a Eversource Energy	DATE: <input type="text"/>
APPLICANT NAME	See attached signature page	PRINT NAME LEGIBLY: Kevin McCune, PSNH d/b/a Eversource Energy Northern Pass LLC, c/o Robert P. Clarke, Project Director	DATE: <input type="text"/>

Please mail this application and all other attachments to the Department of Environmental Services Wetlands Bureau, PO Box 95, Concord NH 03302-0095. Missing information will delay processing of your application and may result in denial of a Shoreland Permit.

## SHORELAND APPLICATION WORKSHEET

This form must be submitted to the Department of Environmental Services Wetlands Bureau accompanied with a Shoreland Permit Application. [Instructions for completing this form](#) are available on the shoreland program web page.

For the purposes of this worksheet, "**Pre-Construction**" impervious surface areas<sup>1</sup> means all human made impervious surfaces<sup>2</sup> currently in existence on the property, whether to be removed or to remain after the project is completed. "**Post-Construction**" impervious area means all impervious surfaces that will exist on the property upon completion of the project, including both new and any remaining pre-existing impervious surfaces. All answers shall be given in square feet.

CALCULATING THE IMPERVIOUS AREA WITHIN 250 FEET OF THE REFERENCE LINE			
	STRUCTURE DESCRIPTION	PRE-CONSTRUCTION IMPERVIOUS AREA	POST-CONSTRUCTION IMPERVIOUS AREA
<b>PRIMARY STRUCTURE</b> Include all <u>attached</u> decks and porches.	<u>Transmission structure foundations</u>	<u>14</u> FT <sup>2</sup>	<u>28</u> FT <sup>2</sup>
<b>ACCESSORY STRUCTURES</b> All other impervious surfaces excluding lawn furniture, well heads, and fences. Common accessory structures	_____	_____ FT <sup>2</sup>	_____ FT <sup>2</sup>
	_____	_____ FT <sup>2</sup>	_____ FT <sup>2</sup>
	_____	_____ FT <sup>2</sup>	_____ FT <sup>2</sup>

<sup>1</sup> "**Impervious surface area**" as defined in Env-Wq 1402.15 means, for purposes of the impervious surface limitation specified in RSA 483-B:9, V(g), the sum total of the footprint of each impervious surface that is located within the protected shoreland.

<sup>2</sup> "**Impervious Surface**" as defined in RSA 483-B:4, VII-b means any modified surface that cannot effectively absorb or infiltrate water. Examples of impervious surfaces include, but are not limited to, roofs, and unless designed to effectively absorb or infiltrate water, decks, patios, and paved, gravel, or crushed stone driveways, parking areas, and walkways.



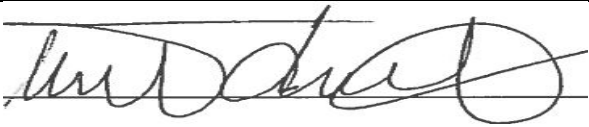
include, but are not limited to: driveways, walkways, patios and sheds.	_____	_____ FT <sup>2</sup>	_____ FT <sup>2</sup>
	_____	_____ FT <sup>2</sup>	_____ FT <sup>2</sup>
	_____	_____ FT <sup>2</sup>	_____ FT <sup>2</sup>
<b>TOTAL:</b>		<b>(A) 14 FT<sup>2</sup></b>	<b>(B) 28 FT<sup>2</sup></b>
Area of the lot located within 250 ft of reference line:			<b>(C) 63,585 FT<sup>2</sup></b>
Percentage of lot covered by pre-construction impervious area within 250 ft of the reference line: [divide (a) by (c) x 100]			<b>(D) 0.02 %</b>
Percentage of lot to be covered by post-construction impervious area within 250 ft of the reference line upon completion of the project: [divide (b) by (c) x 100]			<b>(E) 0.04 %</b>

## IMPERVIOUS AREA THRESHOLDS

DETERMINING IF A STORMWATER MANAGEMENT PLAN IS REQUIRED
<input checked="" type="checkbox"/> This project does not require a stormwater management plan because the proposed post-construction impervious area ( <b>Calculation E</b> ) is less than or equal to 20%.
<input type="checkbox"/> This project requires a stormwater management plan because the proposed post-construction impervious area ( <b>Calculation E</b> ) is greater than 20%, but not greater than 30%.  See details on the <i>Checklist of Required Items</i> on page 6
<input type="checkbox"/> This project requires a stormwater management plan designed and certified by a professional engineer because the post-construction impervious area ( <b>Calculation E</b> ) is greater than 30%; and  All waterfront buffer grid segment must meet at least the minimum required tree and sapling point score.  See details on the <i>Checklist of Required Items</i> on page 6

## UNALTERED STATE REQUIREMENT

CALCULATING THE AREA TO REMAIN IN AN UNALTERED STATE
--

Total area of the lot between 50 ft and 150 ft of the reference line within which the vegetation currently exists in an unaltered state <sup>3</sup> <b>(see definition below)</b> . If this area is completely altered, place a zero on line <b>(F)</b> and <b>(I)</b> and proceed to <b>(J)</b> .	<b>(F)</b> 0
Total area of the lot between 50 ft and 150 ft from the reference line	<b>(G)</b> _____
At least 25 percent of the vegetation within area <b>(G)</b> must remain in an unaltered state. [.25 x G]	<b>(H)</b> _____
Place the smaller of line <b>(F)</b> and calculation <b>(H)</b> on this line. In order to remain compliant with RSA 483-B:9, V(b), this is the minimum area that must remain in an unaltered state between 50 ft and 150 ft from the reference line. This area must be represented on all plans.	<b>(I)</b> 0*
Name of person who prepared this worksheet:	<b>(J)</b> <u>Tracy Coolidge</u>
Name and date of the plan this worksheet is based upon:	<b>(K)</b> <u>NHDES Shoreland Permit Application Plans Merrimack River Northfield, NH 9/14/2015</u>
SIGNATURE: 	DATE: 10/13/2015

**\*Unaltered State-**

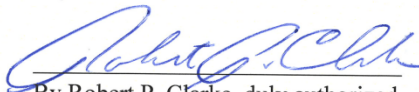
Vegetation in a public utility right-of-way must be maintained/ mowed regularly for safety and operational purposes. There is generally little or no land in an unaltered state within an active transmission corridor, and therefore no calculations for this metric were performed. Furthermore, RSA 483-B:9 IV-b. states "Public utility lines and associated structures and facilities, public roads, and public water access facilities including boat ramps shall be permitted by the commissioner as necessary and consistent with the purposes of this chapter and other state law." In addition, RSA 483-B:2 XVI provides for economic development in proximity to waters.

<sup>3</sup> **"Unaltered State"** means native vegetation allowed to grow without cutting, limbing, trimming, pruning, mowing, or other similar activities except as needed for renewal or to maintain or improve plant health.

**Block 12. Signatories for NH Department of Environmental Services Shoreland Permit Applications**


**Applicant**

1. Eversource Energy Service Corporation, as duly authorized agent for  
Northern Pass Transmission LLC  
Robert P. Clarke  
Director, Transmission Business Operations  
780 North Commercial Street  
Manchester, NH 03101  
Tel: 781-441-8057  
[Robert.Clarke@eversource.com](mailto:Robert.Clarke@eversource.com)

  
By Robert P. Clarke, duly authorized

**Owner and Applicant**

2. Eversource Energy Service Corporation, as duly authorized agent for  
Public Service Company of New Hampshire d/b/a Eversource Energy  
Kevin F. McCune  
Supervisor, Environmental Affairs Licensing and Permitting  
780 North Commercial Street  
Manchester, NH 03101  
Phone: 339-987-7020  
[Kevin.mccune@eversource.com](mailto:Kevin.mccune@eversource.com)

  
By Kevin F. McCune, duly authorized

## 2.0 Copy of Check for Application Fee

---

**N/A, per RSA 483-B:5-b-III. Construction of public roads, public utility lines and associated structures and facilities, and public water access facilities shall be exempt from the permitting fees of paragraph I and the abutter notification requirements of paragraph IV-a.**

## 3.0 Project Specific Work within the Protected Shoreland

---

The Northern Pass project area extends from the international border of Canada and the United States in Pittsburg, New Hampshire to Londonderry, New Hampshire. The Project will require work within the 250 foot protected shoreland of multiple waterbodies. This application includes information related to the work within an existing transmission ROW that intersects the protected shoreland of the Merrimack River in Northfield, NH.

The Project seeks to take advantage of existing transmission and road ROW in order to minimize environmental and other impacts. There are areas within the existing ROW where vegetation is greater than 20 feet tall, or tree branches have extended into the cleared ROW. This vegetation must be cut or trimmed for construction and line clearance reasons. There are also locations where existing electric lines must be relocated. In these areas, the existing 115 kV transmission lines and 34.5 kV distribution lines will be relocated within the ROW to create room for new Project infrastructure.

Unless there is clearance or other safety issues, the proposed temporary access roads will follow existing access roads or ATV paths currently in the ROW, and will cross wetlands and small streams at their current locations. On average, temporary access roads will be about 16 feet in width at the surface, but may be up to 20 feet wide at the base, if temporary grading or fill is needed. Access roads in upland areas are proposed to remain in use until the end of Project construction. Work pads may be graded to a level condition for safety reasons where necessary. After construction, these temporarily disturbed areas will be restored.

The Project proposes to use tubular steel H-Frame structures consisting of vertical poles connected near the top of the structure with a crossarm, making them resemble the capital letter “H.” Each of the vertical poles that make up the H-Frame structures will have an approximate base diameter of two to three feet, tapering to roughly one foot at the top. The two vertical poles will be separated horizontally by 26 feet. The crossarm is the widest piece of the structure measuring about 52 feet in width. The H-Frame structures will have a combination of direct embed and concrete foundations. Concrete foundations for the H-Frame structures will be approximately three to four feet in diameter, while the direct embed foundations will consist of placing a portion of the vertical poles into a three to four foot diameter hole and backfilling the hole with either native material, crushed rock, or a mixture of the two, which will be compressed to provide a rigid support system. Relocated structures are generally similar in size/height to the original structures, or slightly larger/taller. They may be installed by direct embed or with a foundation, depending on site conditions. During the detailed design process, other foundation designs might be considered based on their capacity to improve constructability, reduce environmental impacts or achieve other benefits.

### 3.1 Merrimack River

The Merrimack River is part of the S1 overhead line portion of the Project. The Merrimack River at this shoreland crossing is classified as a sixth order river (R2UB2) with a sand bottom and the river is approximately 320 feet wide at the crossing. The 76 acre parcel on the

Northfield side (southeastern shore) of the river at the shoreland crossing is owned by James Moran, and numerous ATV trails cross the parcel. The Project will be constructed in a well-developed right-of-way corridor bordered by mixed forest. Within a half mile of the protected shoreland of the Merrimack River in Northfield, NH there is one element occurrence identified by the NH Natural Heritage Bureau. The Natural Heritage Bureau identified the Brook Floater (*Alasmodonta varicosa*) within a half mile of the protected shoreland buffer of the Merrimack River (Appendix A). The Project work in the shoreland is not expected to affect this species.

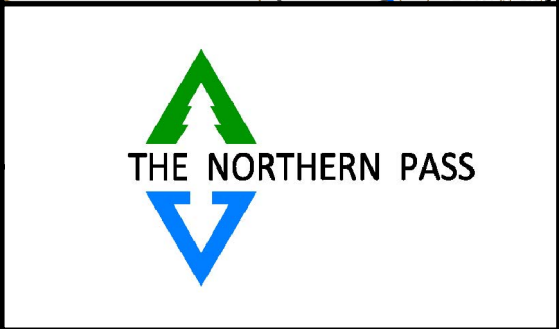
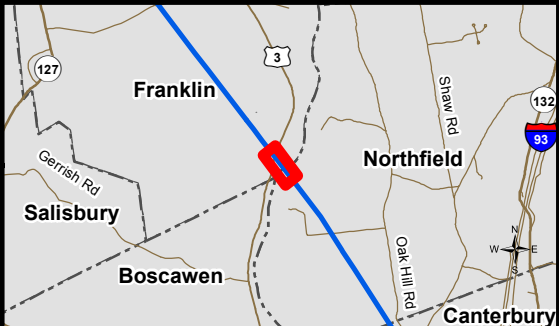
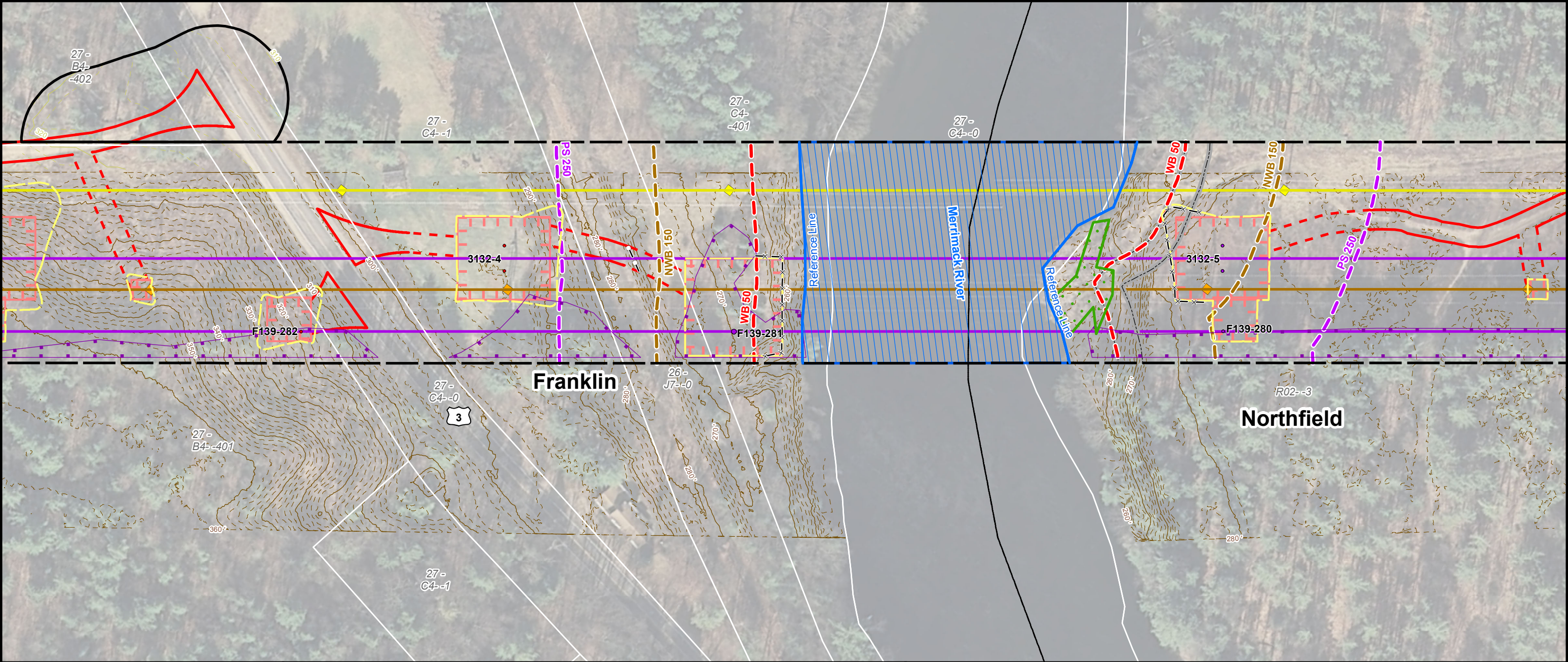
One H-frame structure and one relocated monopole structure will be installed within 250 feet of the river as shown in the project plans (Appendix A). Additionally, one monopole will be removed at this shoreland buffer. Temporary construction impacts will result from a construction vehicle access road leading to construction pad from the south. In addition, 6,038 square feet of tree clearing is planned on the southwestern edge of the existing ROW. Erosion control will be installed southeast of the Merrimack River to prevent impacts to the river. For all work within the shoreland buffer, tree stumps will be left in place except where structure excavation is needed, and shrub and herbaceous vegetation will be undisturbed wherever possible.

Northfield Merrimack River Site 1	0'-50' Waterfront Buffer	50'-150' Natural Woodland Buffer	150'-250' Shoreland Buffer	Total Impacts at Shoreland Crossing
<b>Temporary Impacts</b>	8 sq. ft. construction pad	7,455 sq. ft. construction pad, removal of monopole	5,703 sq. ft. construction pad, access road	13,166 sq. ft. construction pad, access road
<b>Permanent Impacts</b>	0 sq. ft.	14 sq. ft. 1 H-pole	7 sq. ft. 1 relocated monopole	21. sq. ft. 1 relocated monopole, 1 H-pole
<b>Pre-Construction Impervious Surface Area</b>	0 sq. ft.	7 sq. ft.	7 sq. ft.	14 sq. ft.
<b>Post-Construction Impervious Surface Area</b>	0 sq. ft.	14 sq. ft.	14 sq. ft.	28 sq. ft.

## ■ Appendix A Plans

---





Existing Structure

Existing Structure to be Removed

Existing Transmission Line

Existing Transmission Line to be Removed

Delineated Wetlands

Tax Parcels

Existing Right of Way

10' Index Contour

2' Interval Contour

USGS 10' Contour

USGS 2' Contour

Stream Centerlines

Perennial

Intermittent

Ephemeral

Delineated Waterbodies

Perennial

Intermittent

Ephemeral

Local Setbacks

Proposed Conditions

Proposed Structure - No Shoreland Impact

Proposed Structure - Shoreland Impact

Proposed Transmission Line

Proposed New Right of Way

Off ROW and UG Reporting Extents

Temporary Construction Pad

Station LODs

Existing Access Route

New Access Route

Temporary Wetlands Matting (16'x 16')

Erosion and Sedimentation Control BMPs

Erosion and Sedimentation Control BMPs (Steep Slope)

Temporary Limit of Disturbance - Construction Pad

Limits of Permanent Vegetation Clearing

UG Splice Vaults

Trenched UG

Trenchless UG

1 inch equals 100 feet  
when printed at 11" x 17"

0

25

50

100

Feet

NHDES Shoreland Permit Application Plans					
SWQPA Areas	Extent of Clearing (sq. ft.)	Construction Impacts (sq. ft.)		Impervious Surface (sq. ft.)	
	Clearing in Upland	Temporary	Permanent	Pre-Construction	Post - Construction
Waterfront Buffer (50')	747	8	0	0	0
Natural Woodland Buffer (150')	2,506	7,455	14	7	14
Protected Shoreland (250')	2,786	5,703	7	7	14
Total	6,038	13,166	21	14	28
May not sum to total due to rounding					
THE NORTHERN PASS PROPOSED ROUTE			Merrimack River, Northfield		
Date: 9/14/2015	DRAWN: LD				Page 01

Source: NHDOT 2010 and 2011 Aerials; New Hampshire GRANIT GIS Data; Coler & Colantonio; Normandeau; Burns & McDonnell.



## ■ Appendix B Property Deeds

---

Per recommendation of the NH Department of Environmental Services Shoreland Bureau, legal documents associated with easements and other property rights, including deeds, are being submitted separately via CD to NHDES. NPT will install underground transmission facilities pursuant to authority provided under RSA 231:160, et seq. for use of public highways.

Attorney Client Communication  
Privileged and Confidential



**NORTHERN PASS TRANSMISSION PROJECT  
EASEMENT ABSTRACT FORM**

**General Information:**

Document Number: EAA 2098 Existing Line Number: V-182  
 Mile Sheet Number: 18 PSNH Easement Form Ref ID: 6019 Rev. 1M 4-50-F  
 Other: \_\_\_\_\_  
 Grantor: Alfred C. Elliot  
 Grantee: Public Service Company Of New Hampshire  
 Town/City & County: Northfield County: Merrimack  
 Easement, Fee or Taking (Choose One): EASEMENT  
 Easement Configuration:  
☒ A. Constant Width 225 Ft  
☐ B. Metes & Bounds  
☐ C. Other

Additional Comments: "Said 225' strip shall extend 75' easterly and 150' westerly of a line or extension of a line, described as follows:"

Date of Instrument Execution: 11/30/1950 Book: 693 Page: 35

**Joint Use Agreement:**

NO (YES/NO)

Doc. Num: \_\_\_\_\_ Date of Instrument Execution: \_\_\_\_\_ Book: \_\_\_\_\_ Page: \_\_\_\_\_  
 Brief Description: \_\_\_\_\_

**Reference Document:**

YES (YES/NO)

Document(s) Referenced: EAA 2089

Additional Comments: For Correspondence See EAA 2089

**Applicable Rights:**

1. **Overhead Rights:** ☒ Yes ☐ No ☐ N/A – Fee Parcel  
 Additional Comments: \_\_\_\_\_
2. **Underground Rights:** ☐ Yes ☒ No ☐ N/A – Fee Parcel  
 Additional Comments: Not Expressly Prohibited
3. **Communication Rights:** ☐ Yes ☒ No ☐ N/A – Fee Parcel  
 Additional Comments: Not Expressly Prohibited
4. **Rights to Relocate or Rebuild Poles/Lines Within Easement Area:** ☒ Yes ☐ No ☐ N/A – Fee Parcel  
 Additional Comments: \_\_\_\_\_
5. **Rights to Install Suitable Foundations for the Support of Structures:** ☒ Yes ☐ No ☐ N/A – Fee Parcel  
 Additional Comments: \_\_\_\_\_
6. **Structures/Obstructions and/or Encroachments Prohibited in Easement:** ☒ Yes ☐ No ☐ N/A – Fee Parcel



NPT Easement Abstract

- Additional Comments: Right to Remove
7. **Right to Remove Structures/Obstructions and/or Encroachments in Easement:** ☒ Yes ☐ No ☐ N/A – Fee Parcel  
Additional Comments: \_\_\_\_\_
8. **Express Rights of Access Across Grantors Remaining Lands (Off Easement):** ☐ Yes ☒ No ☐ N/A – Fee Parcel  
Additional Comments: \_\_\_\_\_
9. **Rights to Install Access Roads Within Easement Area:** ☒ Yes ☐ No ☐ N/A – Fee Parcel  
Additional Comments: Not Expressly Allowed, but general access within the easement is implied
10. **Guy Wires/Support Rights:** ☒ Yes ☐ No ☐ N/A – Fee Parcel  
Additional Comments: \_\_\_\_\_
11. **Chemical Spray Rights:** ☒ Yes ☐ No ☐ N/A – Fee Parcel  
Additional Comments: \_\_\_\_\_
12. **Tree Trimming Rights:** ☒ Yes ☐ No ☐ N/A – Fee Parcel  
☒ A. Within Easement  
☒ B. Outside Easement (danger to facilities)  
☒ C. Wood Belongs to Property Owner  
☐ D. Wood Belongs to PSNH  
Additional Comments: \_\_\_\_\_
13. **Right to Prohibit Grading or Excavation:** ☐ Yes ☒ No ☐ N/A – Fee Parcel  
Additional Comments: \_\_\_\_\_
14. **Assignable:** ☒ Yes ☐ No ☐ N/A – Fee Parcel  
Additional Comments: “...its successors and assigns forever...”

**Applicable Limitations:**

1. **Number of Overhead and Underground Line Limitations:** ☐ Yes ☒ No ☐ N/A – Fee Parcel  
\_\_\_\_ Wood or Steel Poles  
\_\_\_\_ ☐ AND/ ☐ OR (check one) Towers  
\_\_\_\_ ☐ AND/ ☐ OR (check one) Underground  
Additional Comments: \_\_\_\_\_
2. **Voltage and or Limits Classification:** ☐ Yes ☒ No ☐ N/A – Fee Parcel  
Additional Comments: \_\_\_\_\_
3. **Height Elevation Limits:** ☐ Yes ☒ No ☐ N/A – Fee Parcel  
Additional Comments: \_\_\_\_\_
4. **Wires Only/No Structures:** ☐ Yes ☒ No ☐ N/A – Fee Parcel  
Additional Comments: \_\_\_\_\_
5. **Crop Damage Liability:** ☐ Yes ☒ No ☐ N/A – Fee Parcel  
Additional Comments: \_\_\_\_\_



NPT Easement Abstract

6. **Reserved Grantor Rights:** ☐ Yes ☒ No ☐ N/A – Fee Parcel

If yes see Additional Easement Rights/Limitations below.

7. **Time Limitation:** ☐ Yes ☒ No ☐ N/A – Fee Parcel

Additional Comments: \_\_\_\_\_

**Comments/Remarks:**

**Additional Easement Rights/Limitations:** \_\_\_\_\_

**Property Comments:** \_\_\_\_\_

**Created By (C&C):** WFR 8/6/2010

**Checked By (C&C):** HOG 9/28/2010

**Legal Reviewed By:** \_\_\_\_\_

**Approved By (NPT):** \_\_\_\_\_

For correspondence  
See EAA-2089

EAA-2098

# KNOW ALL MEN BY THESE PRESENTS

That I, Alfred C. Elliot

of Franklin County of Merrimack

in The State of New Hampshire.

(hereinafter called the Grantor) in consideration of one dollar and other valuable considerations paid by the Public Service Company of New Hampshire, a corporation having a principal place of business at Manchester, in the County of Hillsborough, and The State of New Hampshire (hereinafter called the Grantee), the receipt whereof is hereby acknowledged, do hereby give, grant, bargain, sell and convey unto the Grantee and its successors and assigns forever, the RIGHT and EASEMENT to erect, repair, maintain, rebuild, operate, patrol and remove electric transmission and distribution lines, consisting of suitable and sufficient poles and towers, with suitable foundations, together with wires strung upon and extending between the same, for the transmission of electric current, together with all necessary cross-arms,

braces, anchors, wires, guys and other equipment over and across a strip of land 225 feet

in width in the town/city of Northfield county of Merrimack State of New Hampshire.

Said 225 foot strip shall extend 75 feet easterly and 150 feet westerly of a line or extension of a line, described as follows:

Beginning at a point in the wire fence marking the southerly boundary line of Grantor's land at land of McAfee, said point of beginning being one hundred thirty (130) feet measured westerly along said fence from the northwesterly corner of said McAfee land; thence running north 23°30' west a distance of twelve hundred twenty-two (1222) feet to a point in the northwesterly boundary line of Grantor's land on the southeasterly side of the Merrimack River.

Said 225 foot right of way strip includes the 100 foot strip purchased by the Grantee in 1928.

The Grantee reserves the right to cross and recross said right of way.

Being a part of the same premises described in deed of Edwin L. Sargent  
to Alfred C. Elliot dated November 10, 1923 and recorded in  
the Merrimack County Registry of Deeds, Book 473  
Page 41

This conveyance shall include (1) the right to clear and keep clear the strip of all trees and underbrush by such means as the Grantee may select, and to remove all structures or obstructions which are now or may hereafter be found within the limits of the above described strip and (2) the right to remove from the premises of the Grantor above referred to such trees as in the judgment of the Grantee may interfere with or endanger said lines or their maintenance or operation.

All wood and timber on said strip which is cut by the Grantee shall remain the property of the Grantor but the Grantee shall have the right to cut, fit and leave such wood and timber in such manner as it may determine.

And the parties hereto, by delivering and accepting this conveyance, agree that all agreements, understandings and negotiations, written or verbal, heretofore made or entered into by the parties hereto or their representatives with respect to this conveyance are hereby waived and cancelled, and that there are no agreements, promises, representations or understandings with respect to this conveyance not herein mentioned.

To have and to hold to the Grantee and its successors and assigns forever.

The Grantor covenants and agrees that He has full right, title and authority to convey the foregoing rights and easements and will defend same to said Grantee against the lawful claims or demands of all persons.

And I, DORIS H. ELLIOTT, WIFE OF ALFRED C. ELLIOTT,

for the consideration aforesaid, do hereby release to the said Grantee my  
right of lower in the before-mentioned premises.

WITNESS OUR hands and seal this 30 TH day of NOVEMBER 1950

In the presence of

Donald E. Siminella  
to both

Alfred C. Elliott  
Doris H. Elliott



hand and seal this \_\_\_\_\_ day of \_\_\_\_\_ 19\_\_\_\_

The State of New Hampshire  
MERRIMACK SS.  
NOVEMBER 30, 1950

ALFRED C. ELLIOTT AND  
DORIS H. ELLIOTT

personally appeared and acknowledged the foregoing instrument to be THEIR voluntary act and deed.

Before me Donald E. Siminella  
Notary Public Justice of the Peace

personally appeared and acknowledged the foregoing instrument to be \_\_\_\_\_ voluntary act and deed.

Before me \_\_\_\_\_  
Notary Public Justice of the Peace

Northfield  
MERRIMACK COUNTY RECORDS  
Received Dec. 29, 2-55 P. M. 1950  
Recorded Lib. 693 Fol. 35  
Examined: Katherine A. Correy

Register.

EAA-2098

TITLE REPORT

CAPTION PREMISES

Edwin L. Sargent  
Walter E. Clark  
to  
Alfred C. Elliott

Warranty Deed  
Dated Nov. 10, 1923  
Rec'd Oct. 7, 1924  
Book 473, Page 41

A certain tract of land, situated in Northfield, County of Merrimack and State of New Hampshire, bounded and described as follows, to wit: Commencing at a large white oak tree on the river bank on land of John M. Colby, thence by said Colby's land S 85° E about 80 rods to a white oak tree which is a corner between land of said Colby, Henry L. Clough and Frank E. Blodgett, thence N 49° E 46½ rods to the range, thence N 5° E on the side of said range about 129 rods to a stake and stones, thence S 85° E 42 rods to a pine stump to Plummer's land, thence by Plummer's land N 5° E 42 rods to a birch tree spotted, thence N 85° W by said Plummer's land about 74½ rods to a stake and stones, thence N 5° E about 40 rods to the river, thence down the river about 296 rods to the bound first mentioned. Containing 165 acres, more or less. It being the same land conveyed to us by Frank E. Blodgett and wife dated Oct. 10, 1907 and recorded in Merrimack County Records, Book 382, Page 208.

And from the above described premises is reserved the tract of land which was sold by the within named grantor to Lewis Colby and conveyed by deed dated Oct. 22, 1908, said deed being recorded in Merrimack County Records, Book 386, Page 15.

Also reserving a second tract of land sold by said grantor to John M. Colby by deed dated Oct. 22, 1908, said deed being recorded in Merrimack County Records, Book 386, Page 16.

STATUS OF TITLE

Period of search: More than 20 years.

Record owner: Alfred C. Elliott

Liens and encumbrances: Existing right of way of Public Service Co. of N.H.

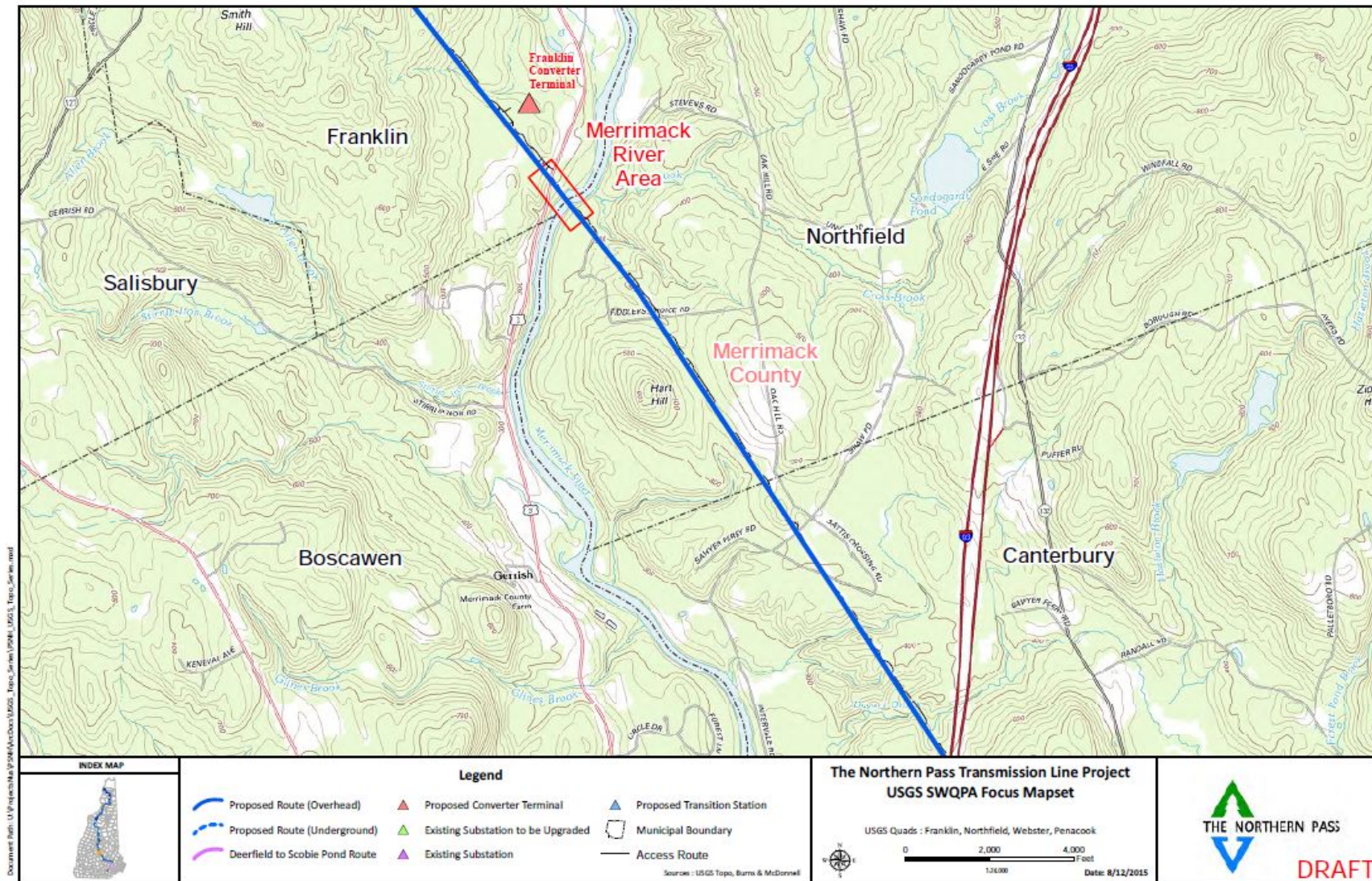
*Frank E. Gorge*  
Attorney

Nov. 8, 1950

## ■ Appendix C USGS Locus Maps

---

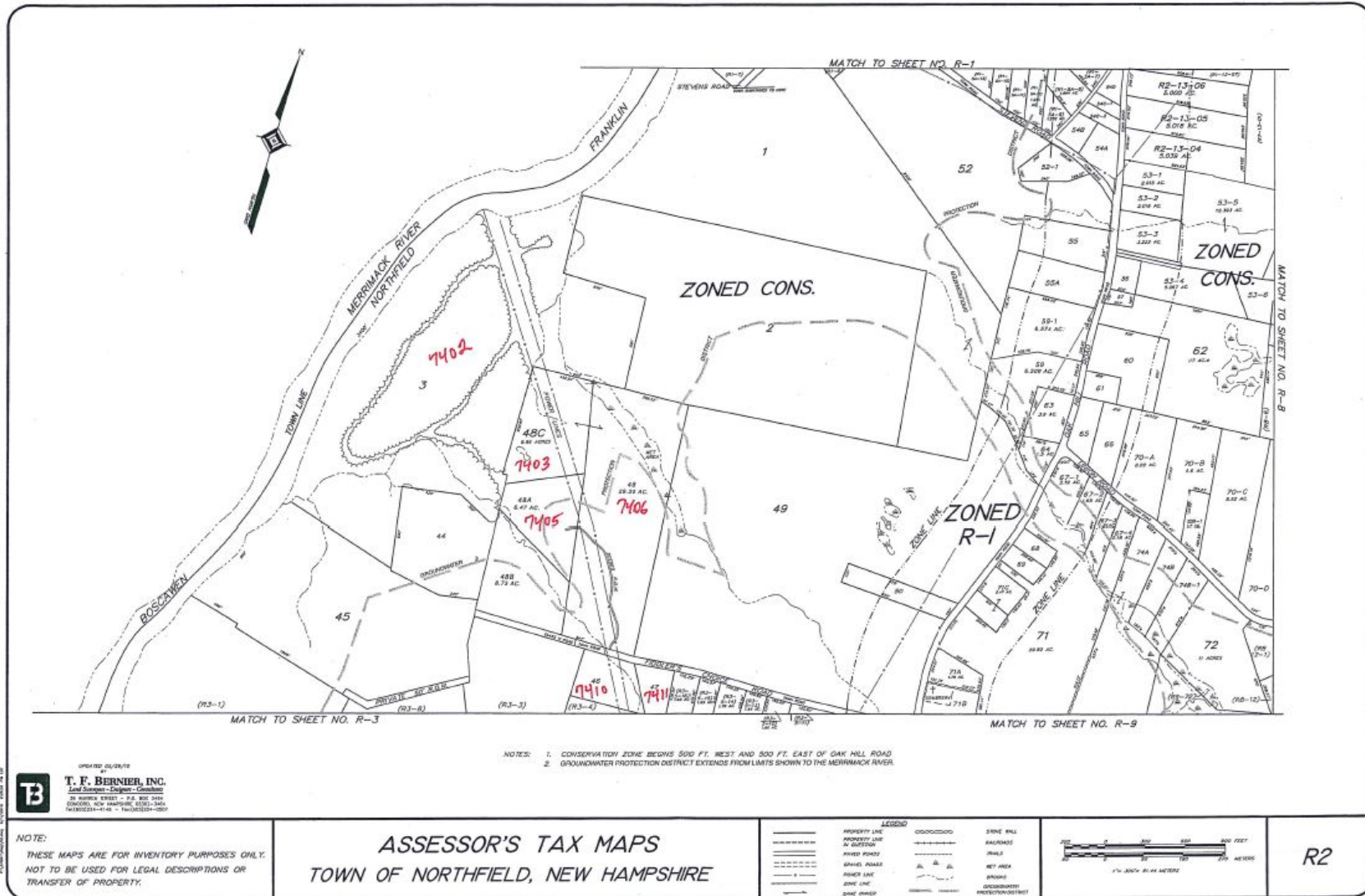




## ■ Appendix D NH Tax Maps

---





## ■ Appendix E Representative Photos

---



Photo 1. The NPT crosses the Merrimack River at the town boundary of Franklin/Northfield, NH as part of the Overhead Line (S1).



Photo 2. Aerial photograph from Google Earth of the shoreland buffer where work is planned along the Merrimack River in Northfield, NH during the installation of the Northern Pass Project. Restricted access prevented the collection of a ground level photograph. At this location an H-frame will be installed on the 3132 line and a monopole will be installed on the F139 line after the existing monopole is removed.

## ■ Appendix F NHB Report and Correspondence

---





---

**NEW HAMPSHIRE NATURAL HERITAGE BUREAU**

DRED - DIVISION OF FORESTS & LANDS

PO Box 1 856 -- 1 72 PEMBROKE ROAD, CONCORD, NH 03302-1 856

(603) 271 -221 4

---

**To:** William McCloy, Normandeau Associates, Inc.

**From:** Melissa Coppola, Environmental Information Specialist

**Date:** March 30, 2015

**Subject:** Northern Pass Database Request (NHB15-0611)

This memo is to confirm that Normandeau Associates have coordinated with the NH Natural Heritage Bureau (NHB) regarding information on known locations of rare species and exemplary natural communities for the Northern Pass project.

Due to the size and scope of the project, NHB is not providing a typical NHB review memo for permitting. Instead, this memo summarizes information provided by NHB to date, and notes that specific recommendations should be developed after project plans are close to being finalized:

- Normandeau was provided with digital data for the project under a data-sharing agreement dated 1/16/15 (397 digital NHB records). This is the sixth data-sharing agreement Normandeau has requested for this project: others were provided in 2010, 2011, 2012, 2013, and 2014 for project planning and ecological impact studies. NHB has also reviewed work plans associated with plant and community survey methodology on several occasions, including a meeting on 6/18/10.
- At the request of NHB, Normandeau consultants have conducted rare plant and natural community surveys within the proposed project area. If the project area extends to new locations, or new concerns are identified, additional surveys may be requested.
- As the project progresses and impacts areas are further clarified, Normandeau should set up a meeting with NHB staff to discuss avoiding and minimizing impacts to rare plant species and exemplary natural communities.



## New Hampshire Natural Heritage Bureau

DRED - Division of Forests & Lands  
172 Pembroke Road, Concord, NH 03301  
(603) 271-2214

**To:** Lee Carbonneau, Normandeau Associates, Inc.  
**From:** Amy Lamb, Ecological Information Specialist  
**Date:** October 5, 2015  
**Subject:** Northern Pass Pre-Application Meeting Summary (NHB15-0611)

On March 30, 2015, Melissa Coppola issued a NH Natural Heritage Bureau (NHB) memo (NHB15-0611) to Normandeau Associates, Inc. that listed Threatened and Endangered species populations that will potentially be impacted by the proposed Northern Pass project. Since that date, NHB and Normandeau have met on several occasions to discuss project impacts, avoidance and minimization measures, route changes, and the remaining survey work to be completed.

This memo summarizes the most recent pre-application meeting, which took place on October 1, 2015. This meeting was held in order to review current rare plant and natural community information, refine avoidance and minimization measures, and determine additional steps to be taken in preparation for permit application submittal at the end of October, 2015.

The meeting resulted in the following determinations regarding data and documentation:

- NHB last provided digital data to Normandeau in February of 2015, and will continue to provide any new data (i.e., new plant surveys within the project area) as they become available.
- Normandeau will provide the final reports on Vegetation and Threatened and Endangered species to NHB upon completion.
- Normandeau will provide NHB a table summarizing the anticipated impacts to all rare plants and exemplary natural communities within the selected corridor. This table will distinguish between the different types of impacts and their resulting (long-term) effects on rare plants and exemplary natural communities.



- Any reports that are filed as publicly available information will not contain specific locations of rare plants; this information will be restricted to an appendix and treated as confidential, and will be removed from publicly available reports.
- The rare plant avoidance and minimization measures that the applicant has proposed were developed in consultation with NHB. NHB will provide additional species-specific avoidance and minimization guidance during the permit review period. This will consist of a table with prioritized actions for each species.
- As any new areas for access, staging, etc. become known, Normandeau (or any subsequent contractor) will conduct rare plant surveys in the areas and provide the results to NHB.
- Normandeau identified Lee Carbonneau as the point person for future Natural Heritage communications, and the NHB point person will be Amy Lamb.

The meeting also resulted in the determination of several measures to avoid and minimize impacts to Natural Heritage resources during construction:

- Meetings will be held among contractors, environmental monitors, and inspectors, prior to contractors working in or near areas where listed plants are located, that will include making contractors aware of sensitive areas and the appropriate best management practices for each area.
- Plans that are provided to contractors will contain a color-coded bar indicating the extent of a sensitive area; no further information will be revealed on such plans.
- Normandeau (or any subsequent contractor) will have "Sensitive Area" signs installed around rare plant populations and exemplary natural communities to alert work crews to their presence.
- It was agreed that it is critical that environmental monitors have the power and authority to stop work immediately if they become aware that any action will violate agreed-upon BMPs.
- NHB will make a recommendation to NHDES regarding qualifications of Environmental Monitors, to be included as a permit condition.

NHB and Normandeau will continue to communicate as the project progresses, in particular as any route changes or new impacts to rare plants become known.

Northern Pass has coordinated with the NH Natural Heritage Bureau (NH NHB) since 2010 to obtain information on known locations of rare species and exemplary natural communities within a half mile of the Northern Pass Project. Normandeau Associates was provided with a digital data set for known locations. Based on the information provided by NHNHB and additional desktop research, Normandeau Associates prepared and implemented a work plan for field surveys for rare plant and natural community surveys. This work plan was approved by the NH NHB.

Within a half mile of the Protected Shoreland of the Merrimack River in Northfield, NH there is one element occurrence identified by NHB. NHB identified the Brook Floater (*Alasmodonta varicosa*) within a half mile of the Protected Shoreland Buffer of the Merrimack River (Sheet 65, Attachment A). Work in the shoreland is not expected to have any effect on this species.

## ■ Appendix G Certified Mail Notifications and Receipts

---

N/A for abutters (Waiver for public utility lines exempt per RSA-483-B:5-b, IV (A))

***Via Certified Mail***

October 14, 2015

Merrimack Local River Advisory Committee  
Michele L. Tremblay, Chair  
PO Box 3019  
Boscawen, NH 03303

**Re: Shoreland Permit Application – The Northern Pass Project**

Dear Ms. Tremblay:

Enclosed please find a copy of the Shoreland Permit Application package that will be filed with the NH Department of Environmental Services (DES) and New Hampshire Site Evaluation Committee for the Northern Pass Project. The project includes work in or around rivers, lakes, streams ponds, etc. Under state law, it is a requirement to provide the municipalities and Local River Advisory Committees having jurisdiction over these waterbodies with a copy of the shoreland application by Certified mail, for review and comment. Please find attached a copy of the application, which proposes work within the protected shoreland of a public water or Designated River in your regulatory area.

Sincerely,



Lee Carbonneau  
Normandeau Associates, Inc.  
As agent for Northern Pass Transmission, LLC.

***Via Certified Mail***

October 14, 2015

Town of Northfield  
21 Summer Street  
Northfield, NH 03276

**Re: Shoreland Permit Application – The Northern Pass Project**

Dear Sir or Madam:

Enclosed please find a copy of the Shoreland Permit Application package that will be filed with the NH Department of Environmental Services (DES) and New Hampshire Site Evaluation Committee for the Northern Pass Project. The project includes work in or around rivers, lakes, streams ponds, etc. Under state law, it is a requirement to provide the municipalities and Local River Advisory Committees having jurisdiction over these waterbodies with a copy of the shoreland application by Certified mail, for review and comment. Please find attached a copy of the application, which proposes work within the protected shoreland of a public water or Designated River in your regulatory area.

Sincerely,



Lee Carbonneau  
Normandeau Associates, Inc.  
As agent for Northern Pass Transmission, LLC.