

Via Certified Mail

October 14, 2015

Jennifer Fish Coos County Administrator PO Box 10 136 County Farm Road West Stewartstown, NH 03597-0010

Re: Shoreland Permit Application - The Northern Pass Project

Dear Ms. Fish:

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.

Lee E. Calonnear

As agent for Northern Pass Transmission, LLC.

Shoreland Permit Application Northern Pass Nathan Pond, Dixville, 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

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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.

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Nathan Pond



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

			File Number:
Administrative	Administrative Use	Administrative Use	Check No.
Use Only	Only	Only	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 <u>frequently asked questions</u> (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@ever	rsource.com			
2. PROJECT LOCATION					
ADDRESS: West Route 26	TOWN/CITY: Dixville	STATE: NH	ZIPCODE: 03576		
WATERBODY NAME: Nathan Pond,	TAX MAP: 1626	LOT NUMBER: 9			
3. CONTRACTOR OR AGENT					
LAST NAME, FIRST NAME, M.I: Carbonnneau, Lee E.					
ADDRESS: 25 Nashua Rd	TOWN/CITY: Bedford	STATE: NH	ZIPCODE: 03110		
PHONE: 603-637-1150	EMAIL: lcarbonneau@norma	andeau.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 21,985 Total square feet of new impervious area 0					

proposed transmission line route. The Dixville Projec	high voltage transmission line will be constructed along a t area includes one Shoreland location along Nathan Pond. provement of an existing gravel road that passes through the new transmission line.			
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, PO	NDS, AND ARTIFICIAL IMPOUNDMENTS)			
	appoundments greater than 10 acres in size are listed in the Consolidated otection Act. Please see RSA 483-B:4, xvii for the definition of reference			
The reference line for this waterbody is: Feet				
$\textbf{8. SHORELAND FRONTAGE} \ \textbf{Shoreland frontage is the actual}$	frontage along the waterfront measured at the reference line.			
The shoreland frontage on this lot is :0 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 PERMI	T APPLICATION FEE			
removal. Impacts often include, but are not limited to: construct	eas disturbed by regrading, excavation, filling, construction, and structure cting new driveways, constructing new structures, areas disturbed when brary access roads for the purpose of installing a well and regrading			
Total Area Impacted within 250 Of the Reference Line. $= 21.98$	35 (A) Square Feet			
Multiply the total Impact Area By 10¢ and add \$100.00. [(A) $\rm X$.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 sta knowledge, the information provided is true, complete and not n	tements, and signing below, you are certifying that: to the best of my nisleading.			
\underline{X} I understand that any permit or waiver granted based on false	e, incomplete, or misleading information shall be subject to revocation.			
\underline{X} I am aware that obtaining a shoreland permit will not exempt the work I am proposing from other state, local or federal approvals.				
X 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.				
	proposed impacts are located and provided them with a complete copy of			
the application and all supporting materials on/	proposed impacts are located and provided them with a complete copy of via certified mail.			

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). Exempt per RSA-483-B:5-b, IV (A)					
12. SIGNATURES	12. SIGNATURES (Both must sign per Env-Wq 1406.08)				
OWNER NAME	See attached signature page	PRINT NAME LEGIBLY: Kevin McCune, PSNH d/b/a Eversource Energy	DATE:		
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:		

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 <u>must</u> be submitted to the Department of Environmental Services Wetlands Bureau accompanied with a Shoreland Permit Application. <u>Instructions for completing this form</u> are available on the shoreland program web page.

For the purposes of this worksheet, "**Pre-Construction**" impervious surface areas means all human made impervious surfaces 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			
PRIMARY STRUCTURE Include all <u>attached</u> decks and porches.		<u>o</u> FT²	<u>0</u> FT ²			
ACCESSORY STRUCTURES		<u>o</u> FT ²	<u>0</u> FT ²			
All other impervious surfaces excluding lawn furniture, well heads, and fences.		FT ²	FT ²			
Common accessory structures		FT ²	FT ²			
include, but are not limited to: driveways, walkways, patios and sheds.		FT ²	FT ²			
and sneus.		FT ²	FT ²			
		FT ²	FT ²			
	TOTAL:	(A) <u>0</u> FT ²	(B) <u>0</u> FT ²			
Area of the lot located within 250	(C) <u>162,899</u> FT ²					
Percentage of lot covered by pre line:[divide (a) by (c) x 100]	(D) <u>0</u> %					

¹ "**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.

² "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.

Percentage of lot to be covered by post-construction impervious area within 250 ft of the	
reference line upon completion of the project:	(E) <u>0</u> %
[divide (b) by (c) x 100]	

IMPERVIOUS AREA THRESHOLDS

DETERMINING IF A STORMWATER MANAGEMENT PLAN IS REQUIRED
This project does not require a stormwater management plan because the proposed post-construction impervious area (Calculation E) is less than or equal to 20%.
This project requires a stormwater management plan because the proposed post-construction impervious area (Calculation E) is greater than 20%, but not greater than 30%. See details on the <i>Checklist of Required Items</i> on page 6
Coo detaile on the Checkingt of Negariou norms on page o
This project requires a stormwater management plan designed and certified by a professional engineer because the post-construction impervious area (Calculation E) 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 Checklist of Required Items 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 ³ (see definition below). If this area is completely altered, place a zero on line (F) and (I) and proceed to (J).	(F) 139,899			
Total area of the lot between 50 ft and 150 ft from the reference line	(G) <u>162,899</u>			
At least 25 percent of the vegetation within area (G) must remain in an unaltered state. [.25 x G]	(H) <u>40,725</u>			

³ "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.

Place the smaller of line (F) and calculation (H) 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.	(I) 40,725
Name of person who prepared this worksheet:	(J) Lee Carbonneau
Name and date of the plan this worksheet is based upon:	(K) NHDES Shoreland Application Plans Nathan Pond Dixville 8/8/2015
SIGNATURE:	DATE: 10/13/2015

*Unaltered State-

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." This access road is critical to the construction of the proposed Northern Pass Transmission Line.

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

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

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 of a proposed off-ROW access road that intersects the Protected Shoreland of Nathan Pond in Dixville, NH.

Unless there are clearance or other safety issues, the proposed temporary construction access roads will follow existing access roads or ATV paths currently available. 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.

3.1 Nathan Pond

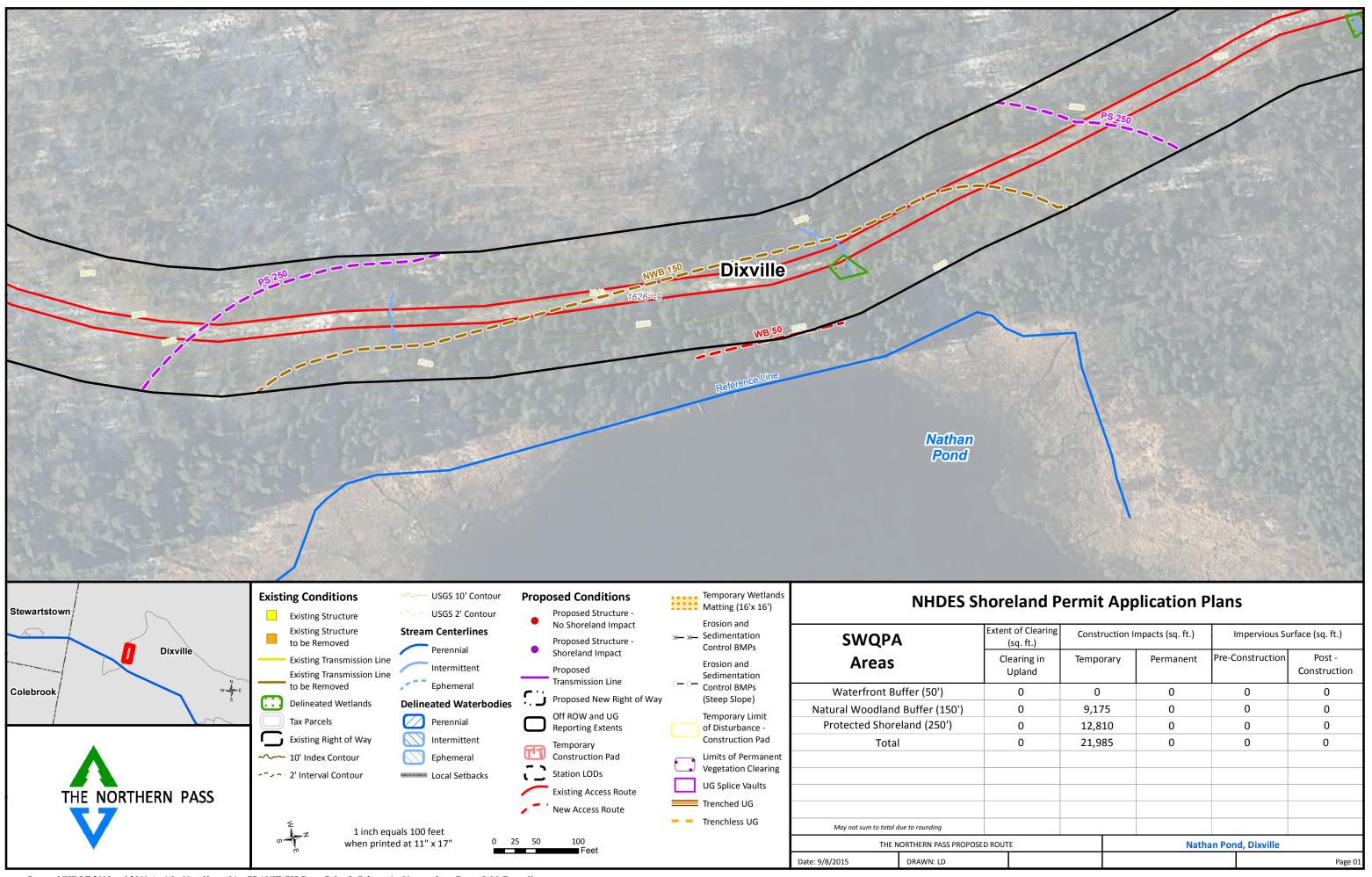
Nathan Pond in Dixville is located approximately ¼ mile from the N1 overhead line portion of the Project. Nathan Pond is 40 acres with palustrine emergent wetlands at the north and south ends. An existing gravel access road that passes through the shoreland buffer of Nathan Pond will be upgraded to provide construction access to the proposed transmission line. The access road traverses approximately 1,150 feet of Shoreland buffer in the adjacent upland, mixed deciduous-coniferous forest on the west side of the pond (Appendix A). The land is a 21,005 acre parcel owned by Wagner Forest Management, LTD.

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. No rare, threatened or endangered species or exemplary natural communities were identified by the Natural Heritage Bureau in the vicinity of Nathan Pond in Dixville, NH (Appendix F).

Dixville, Nathan Pond	0′-50′ Waterfront Buffer	50′-150′ Natural Woodland Buffer	150'- 250'Shoreland Buffer	Total Impacts at Shoreland
Temporary	0 sq. ft.	9,175 sq. ft.	12,810 sq. ft.	21,985 sq. ft. sq. ft.
Impacts		upgrading existing	upgrading existing	upgrading existing
		gravel road	gravel road	gravel road
Permanent	0 sq. ft.	0 sq. ft.	0 sq. ft.	0 sq. ft.
Impacts				
Pre-Construction	0 sq. ft.	0 sq. ft.	0 sq. ft.	0 sq. ft.
Impervious				
Surface Area				
Post-Construction	0 sq. ft.	0 sq. ft.	0 sq. ft.	0 sq. ft.
Impervious				
Surface Area				

Northern Pass

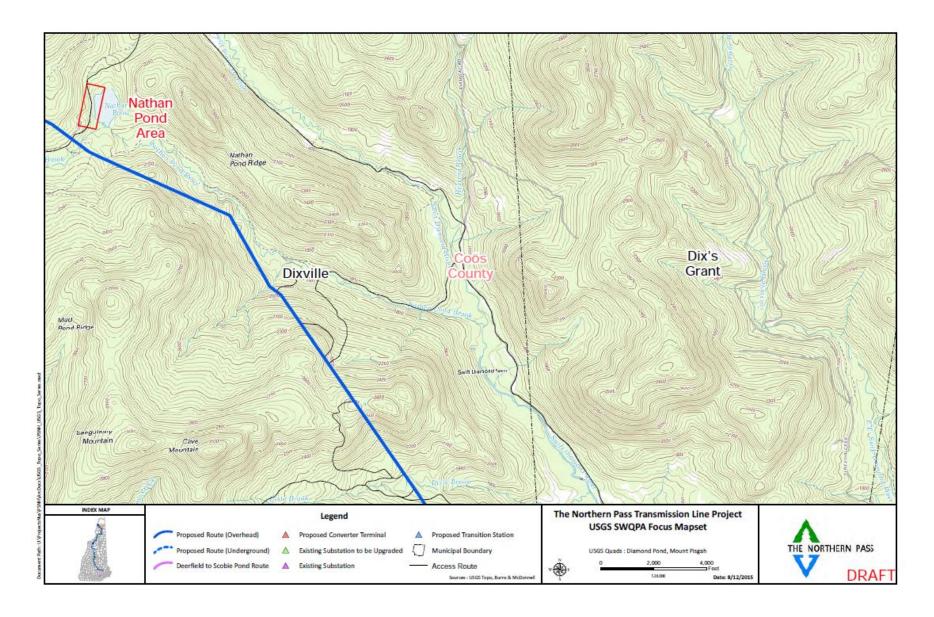
Appendix A Plan Set



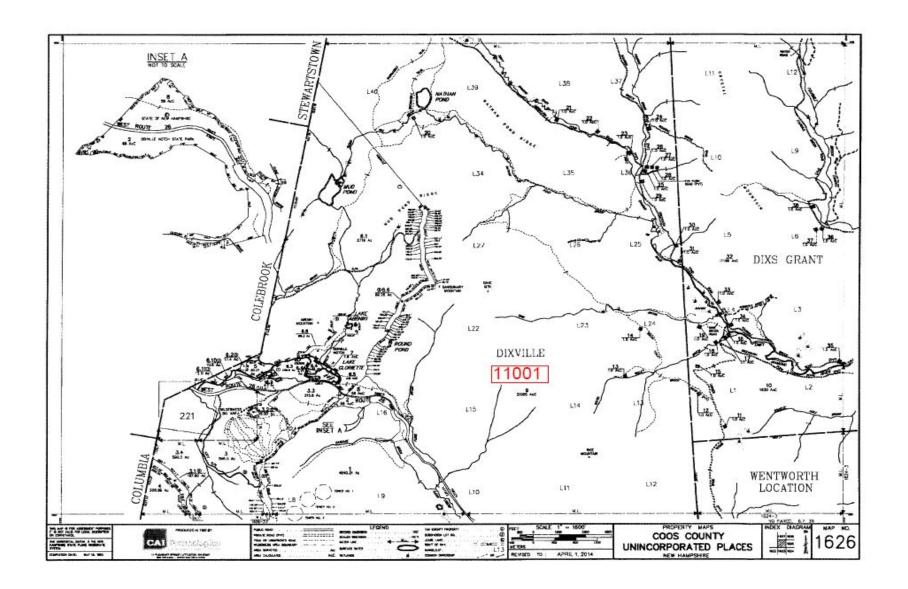
Appendix B Property Deeds

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 for various utility purposes.

Appendix C USGS Locus Maps



Appendix D NH Tax Maps



Appendix E Representative Photos



Photo 1. The NPT line will pass Nathan Pond in Dixville, NH to the south and a gravel access road for construction is to the west of the pond. View is looking to the south.



Photo 2. An Access road will be ugraded along the shoreland buffer of Nathan Pond. View is North.

Appendix F NHB Report and Correspondence



NEW HAMPSHIRE NATURAL HERITAGE BUREAU

DRED - DIVISION OF FORESTS & LANDS
PO BOX | 856 -- | 72 PEMBROKE ROAD, CONCORD, NH 03302-| 856
(603) 27| -22| 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 plants and natural communities. This work plan was approved by the NH NHB.

No rare, threatened or endangered species or exemplary natural communities were identified by NH NHB within ½ mile of this location near Nathan Pond in Dixville, NH.

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

Jennifer Fish
Coos County Administrator
PO Box 10
136 County Farm Road
West Stewartstown,NH 03597-0010

Re: Shoreland Permit Application - The Northern Pass Project

Dear Ms. Fish:

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.

Leo E. Calonnean

As agent for Northern Pass Transmission, LLC.