



# TOWN OF EXETER, NEW HAMPSHIRE

10 FRONT STREET • EXETER, NH • 03833-3792 • (603) 778-0591 • FAX 772-4709

[www.exeternh.gov](http://www.exeternh.gov)

## PUBLIC NOTICE EXETER CONSERVATION COMMISSION

### Monthly Meeting

The Exeter Conservation Commission will meet in the Nowak Room, Exeter Town Offices at 10 Front Street, Exeter on **Tuesday, August 14<sup>th</sup>, 2018 at 7:00 P.M.**

#### Call to Order:

1. Introduction of Members Present
2. Public Comment

#### Action Items

1. Minimum Impact Expedited Wetland Application for Intersection Improvements to Continental Drive and Epping Road (Paul Vlasich-DPW, Greg Bakos-VHB)
2. Standard Dredge and Fill Wetland Application for the Addition of a Kayak Launch Structure on existing Town Dock (Greg Bisson-Parks & Rec)
3. Raynes Farm Makers Fair Proposal (Ben Anderson)
4. Annual Review of By-Laws: Last review 7/11/17
5. Treasurers Report
6. Committee Reports
  - a. Property Management
    - i. Mowing Proposals
    - ii. Henderson Swasey Invasive Plant Management
    - iii. CC Property Monitoring
  - b. Trails
    - i. Oaklands Trail Re-alignment Update
    - ii. Industrial Drive Parking lot and trail access
  - c. Outreach
    - i. Raynes Fall Events
    - ii. Draft Sign Review (Little River @ Garrison Lane, Morrissette @ Skate Park)
  - d. CC Representatives Report on Other Committees
7. Approval of Minutes: July 10<sup>th</sup> Meeting
8. Other Business
9. Next Meeting: Date Scheduled (9/11/18), Submission Deadline (8/31/18)

*Bill Campbell, Chair*

*Exeter Conservation Commission*

*Posted August 10<sup>th</sup>, 2018 Exeter Town Office, Exeter Public Library, and Town Departments.*

**TOWN OF EXETER  
PLANNING DEPARTMENT MEMORANDUM**

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Date: August 10, 2018  
To: Conservation Commission Board Members  
From: Kristen Murphy, Natural Resource Planner  
Subject: August 14<sup>th</sup> Conservation Commission Meeting

**1. Epping Road Intersection Improvement Project**

The Town is proposing to improve the intersection of Epping Road and Continental Drive to accommodate turn lanes, a light and some drainage improvements. The project will entail 685 SF of permanent wetland impact and 45 square feet (15 linear feet) of permanent impact to an intermittent stream channel. The project qualifies for a minimum impact expedited permit as it is less than 3,000 SF of wetland fill.

Wetland Application Review

- Application included items in “[Required Information](#)” check list
- Wetland application appears to be filled out accurately
- NH Heritage Bureau had no concerns or recommendations. FWS indicated northern long-eared bat habitat may be present but the project falls outside of any known hibernacula and work is within the programmatic biological opinion requirements.

*Suggested motions:*

*Should you concur with the applicant’s request for Expedited review, and the application and submitted plans accurately represent the proposed project, motion as follows:*

- *To sign the wetlands permit application under Section 12. Conservation Commission Signature.*

*Should you disagree, you have the option to refuse to sign. The application would be processed under standard review timeframes. If this option is chosen, motion as follows:*

- *Recommend sending a memo to NHDES indicating your concerns and recommendation.*

**2. Addition of a Kayak Launch Structure on existing Town Dock**

The Town is proposing to add a kayak launch pad and fishing platform extension to facilitate improved public use of the Town docks and access to the river. The addition will add 135 square feet to the surface area of the existing dock.

Wetland Application Review

- Application included items in “[Required Information](#)” check list
- Wetland application appears to be filled out accurately
- NH Heritage Bureau, NHFG had no concerns or recommendations.

*Suggested motion:*

*Send memo to NHDES indicating that the Conservation Commission*

- *does not object to the project as proposed*
- *recommends (approval) (denial) as noted below:*

**3. Mini-Makers Fair at Raynes Farm Oct 19th**

Ben Anderson has requested use of Raynes Barn for a mini-makers fair event on October 19<sup>th</sup>. The event would feature local artisans who would either occupy the stalls on the main floor of the barn or at tables in the field. He proposes to time the event to avoid impacts to the mowing season and the disc golf fundraiser event. We discussed this at the June meeting with support indicated from members at that time but note that no official action was taken on the event.

*Suggested Action:*

- *Move to (approve) (deny) the request for Ben Anderson’s use of the barn for a Makers Fair.*

**4. Annual Review of By-Laws**

Bill is looking for volunteer(s) to review the current by-laws and consider whether any amendments are needed. One recommended amendment would include the consideration of a “no new business after 10pm” addition to the rules of procedures.

**5. Treasurers Report**

*Drew will provide the Treasurers Report.*

*Suggested Motion:*

- *Move to expend \$200 from the Dues account for support to Exeter Squamscott Local Advisory Committee*

6. **Committee Reports: Property management**

a. **Mowing Proposals**

I reached out to 3 companies for Mowing. The Brush Crew (Dave Martin), Field of Dreams (Dave O'Hearn), and Olofson Landworks. Only two companies responded.

Field of Dreams: \$1,850 (½ of Morrissette), \$2,075 (all of Morrissette)

The Brush Crew: \$1450 (all of Morrissette)

Last year you wanted ½ of Morrissette mowed. Mowing was not completed before winter so the whole field was un-mowed for one year. I caution against allowing fields to remain un-mowed more than one year because currently the Autumn olive is visibly taller than surrounding vegetation. David also provided the suggestion that mowing in September is actually a benefit to wildlife as it will give time for growth before winter and wildlife take advantage of young October shoots. I feel this schedule makes it less likely we are unable to mow due to early snow.

Our current budget is \$1,800. We could cover the Brush Crew estimate within our existing budget and still have some funds for additional mowing at Raynes. If Field of Dreams was selected, we would need to transfer \$125 from Conservation Land Administration and \$150 from Contract Services to cover the additional cost for mowing at \$2,075.

*Suggested Motion:*

- *Move to \$\_\_\_\_\_ from the Roadside Mowing account for mowing for mowing White, Perry, Irvine, and (all) (half) of Morrissette field.*

b. **Invasives**

Carlos has been very busy marking invasives throughout the southern part of Henderson Swasey. Your packet includes a map of the invasives marked to date. We are currently advertising for interns to assist with removal.

*Suggested Action:*

- *Consider setting a CC work day to assist*
- *Move to approve \$20 from Conservation Land Administration for a new box of flagging*

7. **Committee Reports: Trails**

- a. Oaklands Trail re-alignments/restoration
- b. Industrial Drive Parkinglot
- c. Blazing supplies

*Suggested Action:*

- *Move to approve \$50 from Trails for blazing supplies*

8. **Committee Reports: Outreach**

a. **Raynes Farm Fall Events**

**Story Walk** – We need to ID a subset of people to help Ginny plan/prepare for this.

**Disc Golf** – There will be an event at Stratham Hill Park 9/15 and 9/16. We can have a table there to highlight the property and entice people to register but need volunteers.

*Suggested Action:*

- *ID assistances for Story Walk*
- *ID volunteers for Stratham Hill Park golf event*
- *Move to approve \$75 from Trails for laminating the interpretive signs for use at fall events*
- *Move to approve \$50 from Conservation Land Administration for purchase of State Registry Plaque*

b. **Sign Review – Little River and Morrissette**

Your packet includes two draft signs: one for the Little River kiosk at Garrison Lane and the other for the Skate Park entrance to Morrissette. They would be an 11x17 sign on a 4x4 post. Estimate for signs is \$110 each.

*Suggested Action:*

- *Move to approve \$220 from Trails for sign printing and supplies*

# Epping Road Intersection Improvement Project

Exeter, New Hampshire

PREPARED FOR

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Town of Exeter  
10 Front Street  
Exeter, NH 03833

PREPARED BY

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2 Bedford Farms Drive Suite 200  
Bedford, NH 03110  
603.391.3900

August 2018



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# NHDES Wetlands Permit Application Form





# WETLANDS PERMIT APPLICATION

## Water Division/ Wetlands Bureau Land Resources Management



Check the status of your application: [www.des.nh.gov/onestop](http://www.des.nh.gov/onestop)

RSA/Rule: [RSA 482-A/ Env-Wt 100-900](#)

<i>Administrative Use Only</i>	<i>Administrative Use Only</i>	<i>Administrative Use Only</i>	File No.:
			Check No.:
			Amount:
			Initials:

**1. REVIEW TIME:** Indicate your Review Time below. To determine review time, refer to [Guidance Document A](#) for instructions.

Standard Review (Minimum, Minor or Major Impact)                       Expedited Review (Minimum Impact only)

**2. MITIGATION REQUIREMENT:**  
If mitigation is required a Mitigation-Pre Application meeting must occur prior to submitting this Wetlands Permit Application. To determine if Mitigation is Required, please refer to the [Determine if Mitigation is Required Frequently Asked Question](#).

Mitigation Pre-Application Meeting Date: Month: \_\_\_ Day: \_\_\_ Year: \_\_\_  
 N/A - Mitigation is not required

**3. PROJECT LOCATION:**  
Separate wetland permit applications must be submitted for each municipality that wetland impacts occur within.

ADDRESS: **Existing Town Road Right-of-Way – Epping Road and Continental Drive**      TOWN/CITY: **Exeter**

TAX MAP: **N/A**      BLOCK: **N/A**      LOT: **N/A**      UNIT: **N/A**

USGS TOPO MAP WATERBODY NAME:                       NA      STREAM WATERSHED SIZE:                       NA

LOCATION COORDINATES (If known):      **42° 59' 42.9" N; 70° 50' 18.2" W**       Latitude/Longitude     UTM     State Plane

**4. PROJECT DESCRIPTION:**  
Provide a brief description of the project outlining the scope of work. Attach additional sheets as needed to provide a detailed explanation of your project. DO NOT reply "See Attached" in the space provided below.

The Town of Exeter proposes to improve the intersection of Continental Drive with Epping Road in Exeter, NH. Intersection improvements include roadway widening to introduce exclusive turn lanes, the addition of a traffic signal, and some drainage improvements. Widening along the east side of Epping Road, to provide a left turn lane onto Continental Drive, will occur for approximately 900 linear feet surrounding the existing intersection. Widening along the west side of Epping Road, to provide a right turn lane onto Continental Drive, will occur for approximately 550 feet surrounding the existing intersection. Continental Drive will also undergo approximately 275 linear feet of widening to the west, to accommodate left and right-hand turn lanes onto Epping Road. All turn lanes have been designed to accommodate the future average queue lengths to minimize impacts. The closed drainage system will be modified to accommodate the proposed widening at the intersection. The proposed project will result in approximately **685 sq. ft.** of permanent wetland impact as well as **45 sq. ft. (15 lin. ft.)** of permanent impact to an intermittent stream as a result of the proposed widening and associated drainage improvements. No temporary impacts are proposed. **Please refer to the attached Supplemental Narrative, Figures, and Appendices for more information.**

**5. SHORELINE FRONTAGE:**

NA This does not have shoreline frontage.                      SHORELINE FRONTAGE:

Shoreline frontage is calculated by determining the average of the distances of the actual natural navigable shoreline frontage and a straight line drawn between the property lines, both of which are measured at the normal high water line.

**6. RELATED NHDES LAND RESOURCES MANAGEMENT PERMIT APPLICATIONS ASSOCIATED WITH THIS PROJECT:**  
Please indicate if any of the following permit applications are required and, if required, the status of the application.  
To determine if other Land Resources Management Permits are required, refer to the [Land Resources Management Web Page](#).

Permit Type	Permit Required	File Number	Permit Application Status
Alteration of Terrain Permit Per RSA 485-A:17	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO	_____	<input type="checkbox"/> APPROVED <input type="checkbox"/> PENDING <input type="checkbox"/> DENIED
Individual Sewerage Disposal per RSA 485-A:2	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO	_____	<input type="checkbox"/> APPROVED <input type="checkbox"/> PENDING <input type="checkbox"/> DENIED
Subdivision Approval Per RSA 485-A	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO	_____	<input type="checkbox"/> APPROVED <input type="checkbox"/> PENDING <input type="checkbox"/> DENIED
Shoreland Permit Per RSA 483-B	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO	_____	<input type="checkbox"/> APPROVED <input type="checkbox"/> PENDING <input type="checkbox"/> DENIED

**7. NATURAL HERITAGE BUREAU & DESIGNATED RIVERS:**  
See the Instructions & Required Attachments document for instructions to complete a & b below.

a. Natural Heritage Bureau File ID:    NHB **18** - **1890**.

b.  [Designated River](#) the project is in ¼ miles of: \_\_\_\_\_; and  
date a copy of the application was sent to the [Local River Management Advisory Committee](#): Month: \_\_\_ Day: \_\_\_ Year: \_\_\_  
 N/A

<b>8. APPLICANT INFORMATION (Desired permit holder)</b>			
LAST NAME, FIRST NAME, M.I.: <b>Vlasich, Paul</b>			
TRUST / COMPANY NAME: <b>Town of Exeter</b>		MAILING ADDRESS: <b>10 Front Street</b>	
TOWN/CITY: <b>Exeter</b>		STATE: <b>NH</b>	ZIP CODE: <b>03833</b>
EMAIL or FAX: <b>pvlasich@exeternh.gov</b>		PHONE: <b>603-773-6157</b>	
ELECTRONIC COMMUNICATION: By initialing here: _____, I hereby authorize NHDES to communicate all matters relative to this application electronically.			
<b>9. PROPERTY OWNER INFORMATION (If different than applicant)</b>			
LAST NAME, FIRST NAME, M.I.:			
TRUST / COMPANY NAME:		MAILING ADDRESS:	
TOWN/CITY:		STATE:	ZIP CODE:
EMAIL or FAX:		PHONE:	
ELECTRONIC COMMUNICATION: By initialing here _____, I hereby authorize NHDES to communicate all matters relative to this application electronically.			
<b>10. AUTHORIZED AGENT INFORMATION</b>			
LAST NAME, FIRST NAME, M.I.: <b>Bakos, Greg</b>		COMPANY NAME: <b>VHB</b>	
MAILING ADDRESS: <b>2 Bedford Farms Drive, Suite 200</b>			
TOWN/CITY: <b>Bedford</b>		STATE: <b>NH</b>	ZIP CODE: <b>03110-6532</b>
EMAIL or FAX: <b>gbakos@vhb.com</b>		PHONE: <b>603-391-3900</b>	
ELECTRONIC COMMUNICATION: By initialing here _____, I hereby authorize NHDES to communicate all matters relative to this application electronically.			
<b>11. PROPERTY OWNER SIGNATURE:</b>			
See the Instructions & Required Attachments document for clarification of the below statements			
By signing the application, I am certifying that:			
<ol style="list-style-type: none"> <li>1. I authorize the applicant and/or agent indicated on this form to act in my behalf in the processing of this application, and to furnish upon request, supplemental information in support of this permit application.</li> <li>2. I have reviewed and submitted information &amp; attachments outlined in the Instructions and Required Attachment document.</li> <li>3. All abutters have been identified in accordance with RSA 482-A:3, I and Env-Wt 100-900.</li> <li>4. I have read and provided the required information outlined in Env-Wt 302.04 for the applicable project type.</li> <li>5. I have read and understand Env-Wt 302.03 and have chosen the least impacting alternative.</li> <li>6. Any structure that I am proposing to repair/replace was either previously permitted by the Wetlands Bureau or would be considered grandfathered per Env-Wt 101.47.</li> <li>7. I have submitted a Request for Project Review (RPR) Form (<a href="http://www.nh.gov/nhdhr/review">www.nh.gov/nhdhr/review</a>) to the NH State Historic Preservation Officer (SHPO) at the NH Division of Historical Resources to identify the presence of historical/ archeological resources while coordinating with the lead federal agency for NHPA 106 compliance.</li> <li>8. I authorize NHDES and the municipal conservation commission to inspect the site of the proposed project.</li> <li>9. I have reviewed the information being submitted and that to the best of my knowledge the information is true and accurate.</li> <li>10. I understand that the willful submission of falsified or misrepresented information to the New Hampshire Department of Environmental Services is a criminal act, which may result in legal action.</li> <li>11. I am aware that the work I am proposing may require additional state, local or federal permits which I am responsible for obtaining.</li> <li>12. The mailing addresses I have provided are up to date and appropriate for receipt of NHDES correspondence. NHDES will not forward returned mail.</li> </ol>			
 Property Owner Signature		 Print name legibly	7/31/18 Date



## MUNICIPAL SIGNATURES

### 12. CONSERVATION COMMISSION SIGNATURE

The signature below certifies that the municipal conservation commission has reviewed this application, and:

1. Waives its right to intervene per RSA 482-A:11;
2. Believes that the application and submitted plans accurately represent the proposed project; and
3. Has no objection to permitting the proposed work.

	Print name legibly	Date
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#### DIRECTIONS FOR CONSERVATION COMMISSION

1. Expedited review ONLY requires that the conservation commission's signature is obtained in the space above.
2. Expedited review requires the Conservation Commission signature be obtained **prior** to the submittal of the original application to the Town/City Clerk for signature.
3. The Conservation Commission may refuse to sign. If the Conservation Commission does not sign this statement for any reason, the application is not eligible for expedited review and the application will be reviewed in the standard review time frame.

### 13. TOWN / CITY CLERK SIGNATURE

As required by Chapter 482-A:3 (amended 2014), I hereby certify that the applicant has filed four application forms, four detailed plans, and four USGS location maps with the town/city indicated below.

	Andrea J. Kohler	Exeter, NH	08/03/18
Town/City Clerk Signature	Print name legibly	Town/City	Date

#### DIRECTIONS FOR TOWN/CITY CLERK:

Per RSA 482-A:3, I

1. For applications where "Expedited Review" is checked on page 1, if the Conservation Commission signature is not present, NHDES will accept the permit application, but it will NOT receive the expedited review time.
2. IMMEDIATELY sign the original application form and four copies in the signature space provided above;
3. Return the signed original application form and attachments to the applicant so that the applicant may submit the application form and attachments to NHDES by mail or hand delivery.
4. IMMEDIATELY distribute a copy of the application with one complete set of attachments to each of the following bodies: the municipal Conservation Commission, the local governing body (Board of Selectmen or Town/City Council), and the Planning Board; and
5. Retain one copy of the application form and one complete set of attachments and make them reasonably accessible for public review.

#### DIRECTIONS FOR APPLICANT:

1. Submit the single, original permit application form bearing the signature of the Town/ City Clerk, additional materials, and the application fee to NHDES by mail or hand delivery.

**14. IMPACT AREA:**

For each jurisdictional area that will be/has been impacted, provide square feet and, if applicable, linear feet of impact

Permanent: impacts that will remain after the project is complete.

Temporary: impacts not intended to remain (and will be restored to pre-construction conditions) after the project is complete.

After-the-fact (ATF): work completed prior to receipt of this application by DES. Check box to indicate ATF.

JURISDICTIONAL AREA	PERMANENT Sq. Ft. / Lin. Ft.		TEMPORARY Sq. Ft. / Lin. Ft.	
Forested wetland	505	<input type="checkbox"/> ATF		<input type="checkbox"/> ATF
Scrub-shrub wetland		<input type="checkbox"/> ATF		<input type="checkbox"/> ATF
Emergent wetland	180	<input type="checkbox"/> ATF		<input type="checkbox"/> ATF
Wet meadow		<input type="checkbox"/> ATF		<input type="checkbox"/> ATF
Intermittent stream	45 / 15	<input type="checkbox"/> ATF		<input type="checkbox"/> ATF
Perennial Stream / River	/	<input type="checkbox"/> ATF	/	<input type="checkbox"/> ATF
Lake / Pond	/	<input type="checkbox"/> ATF	/	<input type="checkbox"/> ATF
Bank - Intermittent stream	/	<input type="checkbox"/> ATF	/	<input type="checkbox"/> ATF
Bank - Perennial stream / River	/	<input type="checkbox"/> ATF	/	<input type="checkbox"/> ATF
Bank - Lake / Pond	/	<input type="checkbox"/> ATF	/	<input type="checkbox"/> ATF
Tidal water	/	<input type="checkbox"/> ATF	/	<input type="checkbox"/> ATF
Salt marsh		<input type="checkbox"/> ATF		<input type="checkbox"/> ATF
Sand dune		<input type="checkbox"/> ATF		<input type="checkbox"/> ATF
Prime wetland		<input type="checkbox"/> ATF		<input type="checkbox"/> ATF
Prime wetland buffer		<input type="checkbox"/> ATF		<input type="checkbox"/> ATF
Undeveloped Tidal Buffer Zone (TBZ)		<input type="checkbox"/> ATF		<input type="checkbox"/> ATF
Previously-developed upland in TBZ		<input type="checkbox"/> ATF		<input type="checkbox"/> ATF
Docking - Lake / Pond		<input type="checkbox"/> ATF		<input type="checkbox"/> ATF
Docking - River		<input type="checkbox"/> ATF		<input type="checkbox"/> ATF
Docking - Tidal Water		<input type="checkbox"/> ATF		<input type="checkbox"/> ATF
Vernal Pool		<input type="checkbox"/> ATF		<input type="checkbox"/> ATF
<b>TOTAL</b>	<b>730 / 15</b>		<b>/</b>	

**15. APPLICATION FEE:** See the Instructions & Required Attachments document for further instruction

Minimum Impact Fee: Flat fee of \$ 200

Minor or Major Impact Fee: Calculate using the below table below

Permanent and Temporary (non-docking) 730 sq. ft. X \$0.20 = \$ 146.00

Temporary (seasonal) docking structure: \_\_\_\_\_ sq. ft. X \$1.00 = \$

Permanent docking structure: \_\_\_\_\_ sq. ft. X \$2.00 = \$

**Projects proposing shoreline structures (including docks) add \$200 = \$**

Total = \$ 146.00

The Application Fee is the above calculated Total or \$200, whichever is greater = \$ 200.00

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

NHDES Wetlands Bureau, 29 Hazen Drive, PO Box 95, Concord, NH 03302-0095

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

# USACE PGP – Appendix B

## Secondary Impacts Checklist





**US Army Corps  
of Engineers**®  
New England District

**New Hampshire General Permits (GPs)  
Appendix B - Corps Secondary Impacts Checklist  
(for inland wetland/waterway fill projects in New Hampshire)**

1. Attach any explanations to this checklist. Lack of information could delay a Corps permit determination.
2. All references to “work” include all work associated with the project construction and operation. Work includes filling, clearing, flooding, draining, excavation, dozing, stumping, etc.
3. See GC 5, regarding single and complete projects.
4. Contact the Corps at (978) 318-8832 with any questions.

1. Impaired Waters	Yes	No
1.1 Will any work occur within 1 mile upstream in the watershed of an impaired water? See <a href="http://des.nh.gov/organization/divisions/water/wmb/section401/impaired_waters.htm">http://des.nh.gov/organization/divisions/water/wmb/section401/impaired_waters.htm</a> to determine if there is an impaired water in the vicinity of your work area.*	X <sup>1</sup>	
2. Wetlands	Yes	No
2.1 Are there are streams, brooks, rivers, ponds, or lakes within 200 feet of any proposed work?	X <sup>2</sup>	
2.2 Are there proposed impacts to SAS, special wetlands. Applicants may obtain information from the NH Department of Resources and Economic Development Natural Heritage Bureau (NHB) DataCheck Tool for information about resources located on the property at <a href="https://www2.des.state.nh.us/nhb_datacheck/">https://www2.des.state.nh.us/nhb_datacheck/</a> . The book <a href="#">Natural Community Systems of New Hampshire</a> also contains specific information about the natural communities found in NH.		X
2.3 If wetland crossings are proposed, are they adequately designed to maintain hydrology, sediment transport & wildlife passage?	X <sup>3</sup>	
2.4 Would the project remove part or all of a riparian buffer? (Riparian buffers are lands adjacent to streams where vegetation is strongly influenced by the presence of water. They are often thin lines of vegetation containing native grasses, flowers, shrubs and/or trees that line the stream banks. They are also called vegetated buffer zones.)	X <sup>4</sup>	
2.5 The overall project site is more than 40 acres?		X
2.6 What is the area of the previously filled wetlands?	N/A - Linear ROW	Project
2.7 What is the area of the proposed fill in wetlands?	N/A - Linear ROW	Project
2.8 What is the % of previously and proposed fill in wetlands to the overall project site?	N/A - Linear ROW	Project
3. Wildlife	Yes	No
3.1 Has the NHB & USFWS determined that there are known occurrences of rare species, exemplary natural communities, Federal and State threatened and endangered species and habitat, in the vicinity of the proposed project? (All projects require an NHB ID number & a USFWS IPAC determination.) NHB DataCheck Tool: <a href="https://www2.des.state.nh.us/nhb_datacheck/">https://www2.des.state.nh.us/nhb_datacheck/</a> USFWS IPAC website: <a href="https://ecos.fws.gov/ipac/location/index">https://ecos.fws.gov/ipac/location/index</a>	X <sup>5</sup>	



3.2 Would work occur in any area identified as either “Highest Ranked Habitat in N.H.” or “Highest Ranked Habitat in Ecological Region”? (These areas are colored magenta and green, respectively, on NH Fish and Game’s map, “2010 Highest Ranked Wildlife Habitat by Ecological Condition.”) Map information can be found at: <ul style="list-style-type: none"> <li>• PDF: <a href="http://www.wildlife.state.nh.us/Wildlife/Wildlife_Plan/highest_ranking_habitat.htm">www.wildlife.state.nh.us/Wildlife/Wildlife_Plan/highest_ranking_habitat.htm</a>.</li> <li>• Data Mapper: <a href="http://www.granit.unh.edu">www.granit.unh.edu</a>.</li> <li>• GIS: <a href="http://www.granit.unh.edu/data/downloadfreedata/category/databycategory.html">www.granit.unh.edu/data/downloadfreedata/category/databycategory.html</a>.</li> </ul>		X
3.3 Would the project impact more than 20 acres of an undeveloped land block (upland, wetland/waterway) on the entire project site and/or on an adjoining property(s)?		X
3.4 Does the project propose more than a 10-lot residential subdivision, or a commercial or industrial development?		X
3.5 Are stream crossings designed in accordance with the GC 21?		N/A
<b>4. Flooding/Floodplain Values</b>	Yes	No
4.1 Is the proposed project within the 100-year floodplain of an adjacent river or stream?		X
4.2 If 4.1 is yes, will compensatory flood storage be provided if the project results in a loss of flood storage?		N/A
<b>5. Historic/Archaeological Resources</b>		
For a minimum, minor or major impact project - a copy of the Request for Project Review (RPR) Form ( <a href="http://www.nh.gov/nhdhr/review">www.nh.gov/nhdhr/review</a> ) with your DES file number shall be sent to the NH Division of Historical Resources as required on Page 11 GC 8(d) of the GP document**	X <sup>6</sup>	

\*Although this checklist utilizes state information, its submittal to the Corps is a Federal requirement.

\*\* If your project is not within Federal jurisdiction, coordination with NH DHR is not required under Federal law.

1. The proposed project will occur within one mile of Little River and Colcord Pond to the southwest. However, it appears that the majority of the project drains to the east toward Norris Brook, which is not an impaired water. Both Little River and Colcord Pond are impaired for aquatic life.

2. An intermittent stream is located within the project area, however, no perennial streams, brooks, or rivers and no ponds or lakes are located within 200 feet of the proposed project.

3. The proposed project includes the modification of two culverts that cross Epping Road and Continental Drive. These culverts are anticipated to improve water flow around the intersection.

4. The proposed project may involve minor tree clearing up until the slope limits as shown in the attached Wetland Impact Plans.

5. A search for the occurrence of rare plant, animal, or natural communities within the vicinity of the proposed project was completed using the NH Natural Heritage Bureau (NHB) online DataCheck tool. A project report provided by the NHB dated June 25, 2018 indicated that although there is a NHB record within the vicinity of the project corridor, no impacts to this species are anticipated by the proposed project. The project area was also reviewed for the presence of federally listed or proposed, threatened, or endangered species, designated critical habitat, or other natural resources concerning the US Fish and Wildlife Services' (USFWS) Information for Planning and Consultation (IPaC) system. Results dated June 18, 2018 indicated northern long-eared bat (NLEB) within the vicinity of the project area. The proposed project involves tree clearing activities, however, no known occupied maternity roost trees are located within 150 feet of the proposed project, and no known hibernaculum are located within a 1/4 mile of the proposed project. Therefore, the project is not likely to impact the NLEB and no further coordination with the USFWS is required.

6. A Request for Project Review (RPR) was submitted on July 31, 2018 to the NH Department of Historical Resources (NHDHR) for the proposed project. Consultation with NHDHR is ongoing at this time.

# Review Criteria Administrative Rule [Env-Wt 302.04(b)]



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Documentation that the project complies with the requirements contained in Env-Wt 302.04(b) of the New Hampshire Code of Administrative Rules is provided below.

## **(1) Type of wetland to be impacted.**

A total of four wetlands and one intermittent stream were delineated within or directly adjacent to the project area on April 13, 2018 and May 3, 2018 by VHB Senior Wetland Scientist, Kristopher Wilkes (CWS #288). Only two out of the four wetlands delineated will be impacted by the project. Additionally, impacts are proposed to the intermittent stream. A brief description of the wetlands and the stream to be impacted is provided below.

Wetland W-01 is a large Palustrine, Forested, Broad-Leaved Deciduous, Seasonally Flooded/Saturated (PFO1E) wetland that is located downslope of the eastern road shoulder of Epping Road, extending easterly outside of the project area. This portion of the wetland is hydrologically connected to a larger wetland system located east of Epping Road and south of NH 101 (outside the project area). Within the project area, wetland W-01 is primarily fed by a 2-4-foot-wide intermittent stream, classified as Riverine, Intermittent, Streambed, Sand (R4SB4). This stream outlets downslope of the road shoulder and flows northwest to southeast into wetland W-01, eventually dissipating within the wetland interior. This stream is also associated with wetland W-03 as further described below. Additional hydrological input to wetland W-01 is present via a second (non-jurisdictional) drainage culvert along Epping Road to the south of the intersection with Continental Drive which conveys periodic run-off from surrounding development to wetland W-01 during storm events.

A portion of wetland W-03, classified as Palustrine, Emergent, Persistent, Seasonally Flooded, excavated (PEM1Cx), will be impacted by the proposed project. This excavated portion of the wetland drains from a Palustrine, Emergent, Persistent and Palustrine, Scrub-Shrub, Broad-Leaved Deciduous, Seasonally Flooded/Saturated (PEM/SS1E) wetland located to the northwest. Additionally, an intermittent stream outletting from a drainage culvert

downslope of a commercial parking lot located to the northwest is directed into wetland W-03 through a dug swale. The channel is approximately 2-3 feet wide and is classified at this location as Riverine, Intermittent, Streambed, Sand, Excavated (R4SB4x).

**(2) Surface areas of wetlands impacted.**

The proposed project will require approximately **505 square feet** of permanent impact along the western edge of wetland W-01 due to the proposed roadway widening along the east side of Epping Road and the relocation of the outlet of one drainage culvert. An existing 12" round concrete pipe is located in the northern end of wetland W-01, which will be extended at the inlet and outlet to accommodate for the widened roadway. The culvert extension will aid in maintaining and improving hydrological connectivity between wetland W-01 and W-03 and continuing to convey the intermittent stream channel. Wetland impacts north and south of the proposed culvert outlet are necessary to extend the slopes of the roadway to accommodate the proposed widening, which will span approximately 900 linear feet. Tree clearing is also proposed to occur within the slope limits east of Epping Road to accommodate for the widening. No temporary impacts are proposed as part of the intersection improvement project.

Approximately **45 square feet (15 linear feet)** of permanent impact is proposed along the intermittent stream channel where it outlets into wetland W-01 downslope of the eastern shoulder of Epping Road. Impacts are from modifying the existing drainage culvert due to the roadway widening.

Lastly, approximately **180 sq. ft.** of permanent impact is proposed within the PEM1Cx portion of wetland W-03 as a result of the roadway widening and extension of the existing culvert's inlet. Impacts are confined to an excavated wetland swale previously configured to convey drainage.

No temporary impacts are proposed as part of the intersection improvement project. Refer to **Appendix A – Wetland Permitting Plans** for the location and extent of proposed impacts.

**(3) Relationship of the proposed wetlands to be impacted relative to nearby wetlands and surface waters.**

Wetlands to be impacted within the project area are hydrologically connected via existing drainage culverts underneath Epping Road. Wetland W-03 drains northwest to southeast underneath Epping Road and into wetland W-01. As previously mentioned, an intermittent stream flows through a dug swale into wetland W-03 from the northwest, and eventually re-forms as a defined channel downslope and to the east of Epping Road as it flows out of the existing drainage culvert and through wetland W-01 before dissipating.

Within the broader landscape, project wetlands appear to drain east to a tributary to Norris Brook outside of the project area, which eventually enters the Squamscott River. Some of the surface water runoff from the project area may also drain toward Colcord Pond, located to the south.

**(4) The impact upon abutting owners pursuant to RSA 482-A:11, II.**

The intersection improvement project is proposed to occur within an area of active commercial development within the Town of Exeter. Therefore, the addition of turning lanes and a new traffic control signal is anticipated to improve the flow of traffic within the developing area, thus benefiting new and existing businesses abutting the project intersection.

**(5) Lack of alternatives with lesser wetlands and surface water impacts.**

Impacts to wetlands are required to expand the existing intersection and complete the associated improvements without needing to remove existing buildings or acquire additional abutting property. Although the alterations to the proposed drainage infrastructure will result in wetland impacts, these alterations will improve the existing hydrological connectivity between the existing wetland resources abutting the roadway. The conveyance of stormwater through the intersection will also be improved. The proposed project was designed to impact the least amount of wetlands practicable. Impacts to wetland W-01 will be confined along the wetland's western edge, while impacts to wetland W-03 are confined to a previously excavated portion of the wetland constructed to convey stormwater.

# Supplemental Narrative



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1.0	Introduction.....	1
2.0	Project Description .....	1
3.0	Site Description.....	2
4.0	Wetland & Stream Impact Assessment .....	5
5.0	Mitigation Measures and Best Management Practices.....	7

# Supplemental Narrative

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## 1.0 Introduction

On behalf of the Town of Exeter (“the Applicant”), this Wetlands Permit Application was prepared by VHB pursuant to the New Hampshire Revised Statutes Annotated (RSA) Chapter 482-A, Fill and Dredge in Wetlands, and Wetland Bureau Code of Administrative Rules, Chapters Env-Wt 100 through Env-Wt 900. This project is being submitted as a Minimum Impact Expedited Project per Env-Wt 303.04(f) and Env-Wt 501.04 since proposed project impacts involve less than 3,000 sq. ft.

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## 2.0 Project Description

The proposed project will involve roadway widening along the intersection of Continental Drive with Epping Road (refer to **Figure 1**, USGS Location Map) in Exeter, New Hampshire. Continual private, commercial and industrial development growth on Continental Drive is resulting in increased vehicle traffic and congestion at the stop-controlled Continental Drive / Epping Road intersection. This project will provide warranted traffic signal control and exclusive turn lanes at the intersection to better manage traffic operations. The intersection improvements include roadway widening on both roadways to accommodate the required turn lanes. This specifically includes:

- Widening approximately 900 feet along the northbound (east) side of Epping Road to provide an exclusive left turn lane onto Continental Drive,
- Widening approximately 550 feet along the southbound (west) side of Epping Road, to provide an exclusive right turn lane onto Continental Drive,
- Widening approximately 275 feet of the south side of Continental to accommodate left and right turn lanes onto Epping Road.

To minimize impacts, the turn lanes were designed to accommodate the future average queue lengths as opposed to future 95<sup>th</sup> percentile queues. The existing road will be cold planed and overlain, and the existing drainage culverts and basins will be modified to better accommodate the proposed roadway widening. The project will include minor clearing and utility pole relocations. Appropriate erosion prevention and sediment control standards will be followed throughout the duration of the proposed work. Additionally, the Town of Epping will be completing underground municipal utility upgrades exclusively within the existing roadway

through the same project area under a separate effort and in advance of this project. Refer to the Wetland Impact Plans in **Appendix A** for further information.

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## 3.0 Site Description

The project area is located approximately 0.5 miles south of NH 101 and 2 miles northwest of the town center of Exeter, NH. Continental Drive is part of a recently developed area that is continuing to expand. The primary land use outside of areas of development are forested lands and wetland complexes. The following is a description of the wetland resources, rare species, and wildlife habitat found within the project area. Photos of the project area can be found in **Appendix B**.

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### 3.1 Wetland and Stream Resources

Four wetlands, identified as wetlands W-01, W-02, W-03, and W-04, and one stream were delineated within or directly adjacent to the project area by Kristopher Wilkes, VHB Senior Environmental Scientist (CWS #288), on April 13, 2018 and May 3, 2018. Wetlands were delineated using alpha-numerically coded pink flagging tape affixed to vegetation. Field data collected pertinent to the stream resource and the two wetlands to be impacted (W-01 and W-03) by the proposed project is further detailed below.

Wetland delineations were performed in accordance with the *Corps of Engineers Wetland Delineation Manual* and the *Regional Supplement to the Corps of Engineers Wetland Delineation Manual: Northcentral and Northeast Region, Version 2.0* (January 2012). The *Corps of Engineers Wetland Delineation Manual* presents a three-parameter approach involving indicators of hydrophytic vegetation, hydric soils, and hydrology. The *Regional Supplement* presents wetland indicators, delineation guidance and other information that is specific to the Northcentral and Northeast region of the United States.

The *Northcentral-Northeast Regional Wetland Plant List* published by the U.S. Army Corps of Engineers, the *Field Indicators of Hydric Soils in the United States, Version 8.1* published by the Natural Resources Conservation Service (“NRCS”), and the *Field Indicators for Identifying Hydric Soils in New England, Version 4* published by the New England Interstate Water Pollution Control Commission were also used as technical references during the wetland field investigations. Soils were evaluated using a Dutch style auger. Wetlands were classified following the *Classification of Wetlands and Deepwater Habitats of the United States* (Cowardin et al., 1979, revised 1985.) Functions and values were assessed using the *Highway Methodology Workbook Supplement* (USACE, 1999).

## Wetland W-01

Wetland W-01 is a large Palustrine, Forested, Broad-Leaved Deciduous, Seasonally Flooded/Saturated (PFO1E) wetland that is located downslope of the eastern road shoulder of Epping Road, extending easterly outside of the project area. This portion of the wetland is hydrologically connected to a larger wetland system located east of Epping Road and south of NH 101. Within the project area, wetland W-01 is primarily fed by a 2-4-foot-wide intermittent stream, classified as Riverine, Intermittent, Streambed, Sand (R4SB4). This stream outlets downslope of the road shoulder and flows northwest to southeast into wetland W-01, eventually dissipating within the wetland interior. This stream is also associated with wetland W-03. Additional hydrological input to wetland W-01 is present via a second (non-jurisdictional) drainage culvert along Epping Road to the south of the intersection with Continental Drive which conveys periodic run-off from surrounding development to wetland W-01 during storm events.

Wetland vegetation present within wetland W-01 includes red maple (*Acer rubrum*), blue beech (*Carpinus caroliniana*), highbush blueberry (*Vaccinium corymbosum*), eastern white pine (*Pinus strobus*), cinnamon fern (*Osmundastrum cinnamomeum*), sensitive fern (*Onoclea sensibilis*), sphagnum (*Sphagnum* spp.), species of ash (*Fraxinus* spp.), soft rush (*Juncus effusus*), reed canary grass (*Phalaris arundinacea*), and various other grasses and sedges (*Carex* spp.). Several invasive species were noted within this wetland, including honeysuckle (*Lonicera* sp.), glossy buckthorn (*Frangula alnus*), multiflora rose (*Rosa multiflora*), and oriental bittersweet (*Celastrus orbiculatis*).

Soils sampled within wetland W-01 consist of a fine sandy loam with a depleted matrix with redox concentrations within 2 inches of the soil surface meeting the criteria of Hydric Indicator F3: Depleted Matrix Wetland hydrological indicators observed consisted of pockets of surface water, soil saturation, geomorphic position, hummock/hollow micro-topography, and drainage patterns.

## Wetland W-03

The portion of wetland W-03 to be impacted by the proposed project is classified as Palustrine, Emergent, Persistent, Seasonally Flooded, excavated (PEM1Cx). This excavated portion of the wetland drains from a Palustrine, Emergent, Persistent and Palustrine, Scrub-Shrub, Broad-Leaved Deciduous, Seasonally Flooded/Saturated (PEM/SS1E) wetland located to the northwest. Additionally, an intermittent stream outletting from a drainage culvert downslope of a commercial parking lot located to the northwest is directed into wetland W-03 through a dug swale. The intermittent channel at this location is approximately 2-3 feet wide and is classified as Riverine, Intermittent, Streambed, Sand, Excavated (R4SB4x).

The PEM1Cx portion of wetland W-03 to be impacted consists of a 4-foot-wide vegetated wetland swale which carries drainage from north to south underneath an existing auto dealership driveway via a 12-inch culvert. The swale then continues



south carrying drainage before being conveyed underneath Epping Road and into wetland W-01 via a second culvert.

Wetland vegetation found within the PEM/SS1E portion of wetland W-03 consists of narrowleaf cattail (*Typha angustifolia*), soft rush, white meadowsweet (*Spiraea alba*), glossy buckthorn, sensitive fern (*Onoclea sensibilis*), red maple, species of birch (*Betula* spp.), cinnamon fern, swamp dewberry (*Rubus hispidus*), speckled alder (*Alnus incana*), tussock sedge (*Carex stricta*), and purple loosestrife (*Lythrum salicaria*). Wetland vegetation found within the PEM1Cx portion of wetland W-03 consists of species of bedstraw (*Galium* spp.), soft rush, mowed cattail (*Typha* spp.), and various other grasses. Wetland W-03 hydrological indicators observed included soil saturation, drainage patterns, surface water inputs, and geomorphic position. Wetland soils sampled consisted of a saturated and depleted fine sandy loam with redox concentrations found at various depths due to disturbance and deposits associated with the adjacent roadway.

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### 3.4 Rare, Threatened, and Endangered Species

A search for the occurrence of rare plant, animal, or natural communities within the vicinity of the proposed project was completed using the New Hampshire Natural Heritage Bureau (NHNHB) online DataCheck tool. A project report provided by NHNHB, dated June 25, 2018, indicated that although there is a record within the vicinity of the project corridor, no impacts to this species are anticipated by the proposed project. Refer to **Appendix C** for the NHNHB DataCheck report.

The project area was also reviewed for the presence of federally-listed or proposed, threatened, or endangered species, designated critical habitat, or other natural resources utilizing the US Fish and Wildlife Services' (USFWS) Information for Planning and Consultation (IPaC) System. Results dated June 18, 2018 indicated the northern long-eared bat (*Myotis septentrionalis*) within the vicinity of the project area. Refer to **Appendix C** for the IPaC report.

The northern long-eared bat (NLEB) is federally listed as a threatened species. Tree clearing activities are one of the largest threats to the NLEB. The proposed project will require some tree clearing, however no known occupied maternity roost trees are located within 150 feet of the proposed project, and no known hibernaculum are located within a ¼ mile of the proposed project. The nearest known NLEB site is in the Town of Newfields, approximately 4 miles away. Therefore, the proposed project may affect the NLEB, but the resulting incidental take of the NLEB is not prohibited by the final 4(d) rule.

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### 3.5 Wildlife Action Plan

The New Hampshire Fish and Game (NHF&G) developed the Wildlife Action Plan (WAP) document that identifies habitat types across the state as well as ranked habitat tiers. Habitat tiers were created by NHF&G using biological data, landscape data, and human influence information. Habitat tiers are separated into three rankings, which are 1) *Highest Ranked Habitat in New Hampshire*, 2) *Highest Habitat in Biological Region*, and 3) *Supporting Landscape*. No ranked habitat has been mapped within the project corridor (refer to **Figure 3**).

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### 3.6 Cultural Resources

A Request for Project Review was submitted on July 31, 2018 to the NH Division of Historical Resources (NHDHR) by VHB on behalf of the Town of Exeter. Consultation with NHDHR is ongoing at this time. Refer to **Appendix D** for more information.

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### 3.7 Abutter Information

All intersection improvement work will be constructed within the existing roadway right-of-way. Temporary easements will be obtained for the proposed work along slopes extending onto two properties that abut the project area. In accordance with Env-Wt 501.01(e)(1), abutters have been notified of the proposed project. Tax maps, an abutters list, and abutter notification certified mail receipts for the proposed project are provided in **Appendix E**.

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## 4.0 Wetland & Stream Impact Assessment

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### 4.1 Proposed Wetland & Stream Impacts

The proposed project will require approximately **505 square feet** of permanent impact along the western edge of wetland W-01 due to the proposed roadway widening along the east side of Epping Road and the extension of the inlet and outlet of one drainage culvert. The inlet and outlet of an existing 12" round concrete pipe located in the northern end of wetland W-01 will be extended where roadway widening is proposed to maintain hydrological connectivity between wetland W-01 and W-03 and to convey the intermittent stream channel. Wetland impacts north and south of the proposed culvert outlet impacts are necessary to extend the slopes of the roadway to accommodate the proposed widening, which will span approximately 900 linear feet. Tree clearing is also proposed to occur within the slope limits east of Epping Road to accommodate for the widening.

Approximately **45 square feet (15 linear feet)** of permanent impact is proposed along the intermittent stream channel where it outlets into wetland W-01 downslope of the eastern shoulder of Epping Road. Impacts are from modifying the existing drainage culvert which is necessary to accommodate the roadway widening.

Lastly, approximately **180 sq. ft.** of permanent impact is proposed along to the PEM1Cx portion of wetland W-03 as a result of the roadway widening and extension of the existing culvert's inlet. Impacts are confined to an excavated wetland swale previously configured to convey drainage.

No temporary impacts are proposed as part of the intersection improvement project. Additionally, the proposed project is not located within the floodplain or floodway of a surface water identified by the Flood Emergency Management Agency's (FEMA) Flood Insurance Rate Maps, as shown in **Figure 2**, FEMA Floodplain Map.

Refer to **Appendix A – Wetland Permitting Plans** for the location and extent of proposed impacts.

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## 4.2 Wetland Functions & Values

Functions and values of wetlands presented below are based on a descriptive, best professional judgement approach, with reference to the methodology recommended by the US Army Corps of Engineers New England District – *The Highway Methodology Workbook Supplement: Wetland Functions and Values – A Descriptive Approach*. The USACE Highway Methodology provides a list of considerations and qualifiers that are used to assess the occurrences of each function or value, followed by a determination of principal functions and values.

The principal functions and values of wetland W-01 include floodflow alteration, sediment/toxicant retention, and nutrient removal/retention/transformation due to the resources landscape position and proximity to roadway and commercial development, as well as the presence of an intermittent channel and other stormwater drainage inputs. Wetland W-01 also functions as wildlife habitat since the wetland is connected to an extensive complex to the north and east varying in vegetative cover type and containing numerous micro-habitat types (forested, ponded, etc.). The proposed project is not expected to significantly impact or alter the functions and values of wetland W-01 since the impact area is small relative to the size of the wetland and occurs along the wetland edge. Additionally, wetland hydrological inputs influencing the wetland's principal functions will be maintained and improved because of the project.

Due to the location and extent of Wetland W-03, principal functions and values of the wetland include sediment/toxicant/pathogen retention and nutrient removal/retention/transformation. The wetland has clearly been altered previously because of commercial development along the west side of Epping Road and was reconstructed

purposely to convey and treat stormwater run-off. While the proposed project will remove a portion of the PEM1Cx swale located to the south of an existing auto dealership driveway as a result of extending the associated drainage culvert inlet, treatment of stormwater run-off is not anticipated be reduced as most of the treatment occurs in the more densely vegetated upper (northern) portions of the wetland which will not be impacted by the project.

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## 5.0 Mitigation Measures and Best Management Practices

According to NHDES Wetland Rule *Env-Wt 302.03(c)(2)(b)*, compensatory mitigation is not required for this project since the project wetland impacts total less than 10,000 square feet.

Erosion and sedimentation controls have been incorporated into the Wetland Impact Plans (**Appendix A**) to prevent indirect impacts to nearby wetlands and surface waters. These measures will include the installation of temporary erosion and sedimentation controls such as silt fence and/or compost filled silt socks upslope of sensitive resources to ensure that surface water run-off from unstabilized areas do not carry silt, sediment, or other debris outside the limits of the work. Areas of exposed soil will be kept to a minimum and permanent stabilization will be established as soon as practical upon completion of work. All installed temporary perimeter controls will be monitored daily for sediment accumulation and will be repaired/replaced as necessary to maintain their effectiveness. Erosion controls will not be removed until all project work is complete and the project area is stabilized in accordance with NHDES *Env-Wt 303.04(af)*.

Additionally, work is proposed to be conducted during periods of low-flow and appropriate de-watering and/or water diversion BMPs will be implemented if flow is present at the time of the proposed culvert extension work.

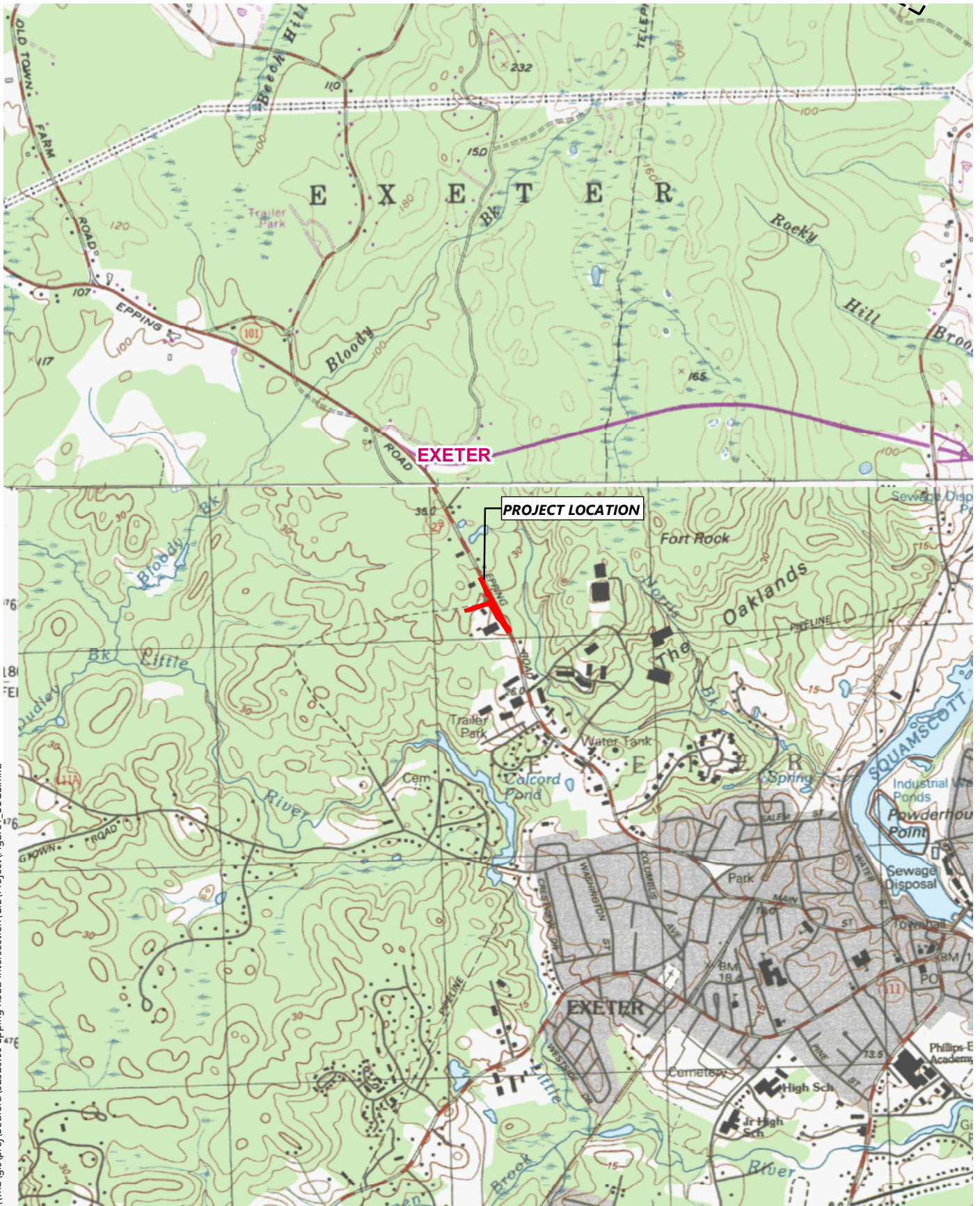
Invasive plant species including honeysuckle, glossy buckthorn, multiflora rose, and oriental bittersweet were identified within the limits of the project area during the field work conducted by VHB. When working within areas of invasive plant species, the contractor will be required to make additional efforts to prevent the re-introduction or spread of these species. Only clean equipment that is free of plant material and debris will be delivered to the project site and utilized during construction. Machinery entering and leaving areas where invasive plant species are present will be inspected for foreign plant matter (stems, flowers, roots, etc.) and soil embedded in the tracks or wheels, and any plant material and/or soils found will be removed using hand tools or compressed air. Invasive plant species and associated soils impacted by the proposed work will be removed from the project site and properly disposed of.

# Figures



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**Figure 1..... USGS Project Location Map**  
**Figure 2..... FEMA Floodplain Map**  
**Figure 3..... NHF&G Wildlife Action Plan Ranked Habitat**



\\vhb\gis\proj\Bedford\52526.00 Epping Road Intersection\GIS\Project\Figure1\_USGS.mxd

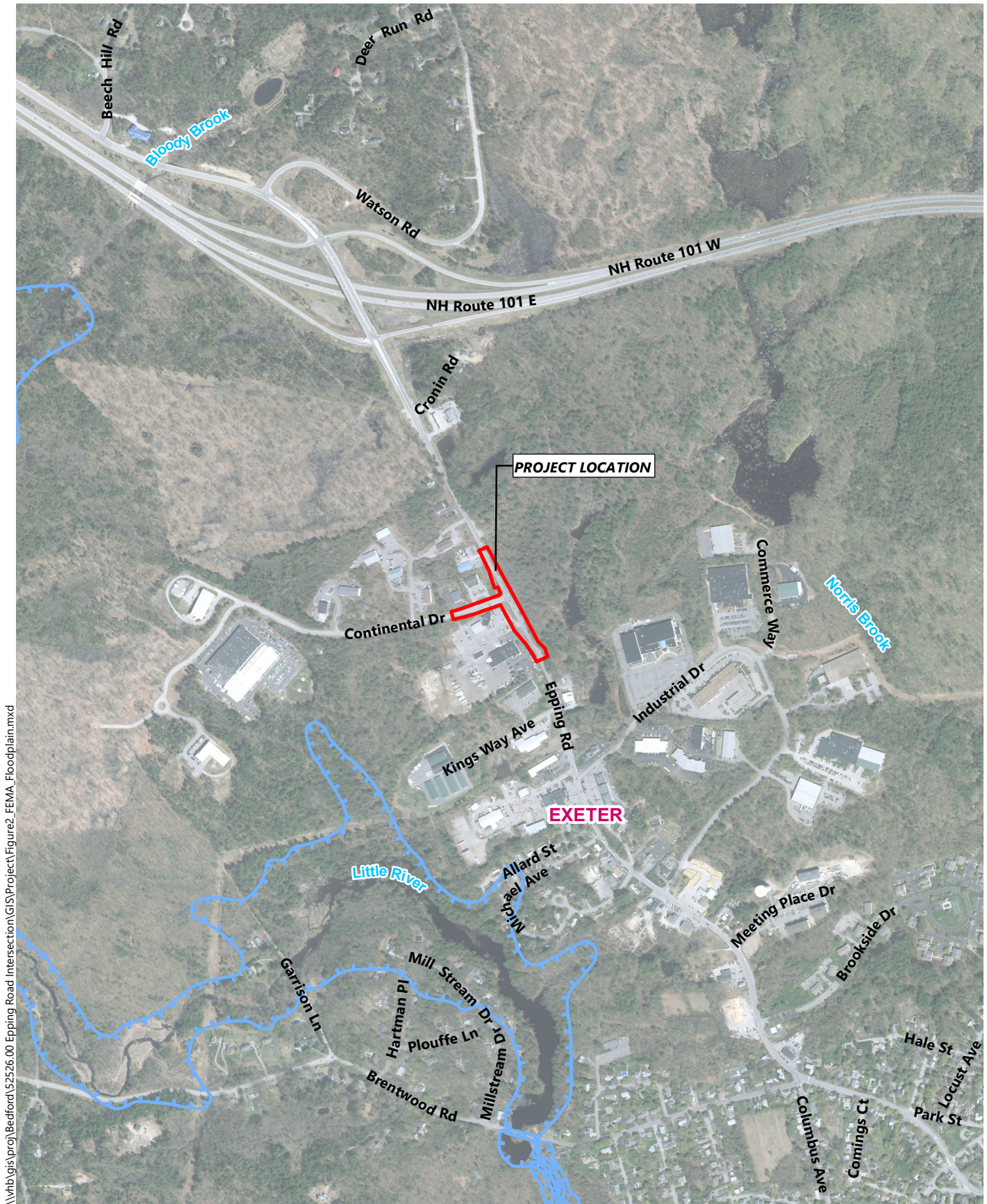


Epping Road Intersection

Exeter, New Hampshire



USGS Location Map





\\vhb\gis\proj\Bedford\52526.00 Epping Road Intersection\GIS\Project\Figure2\_FEMA\_Floodplain.mxd

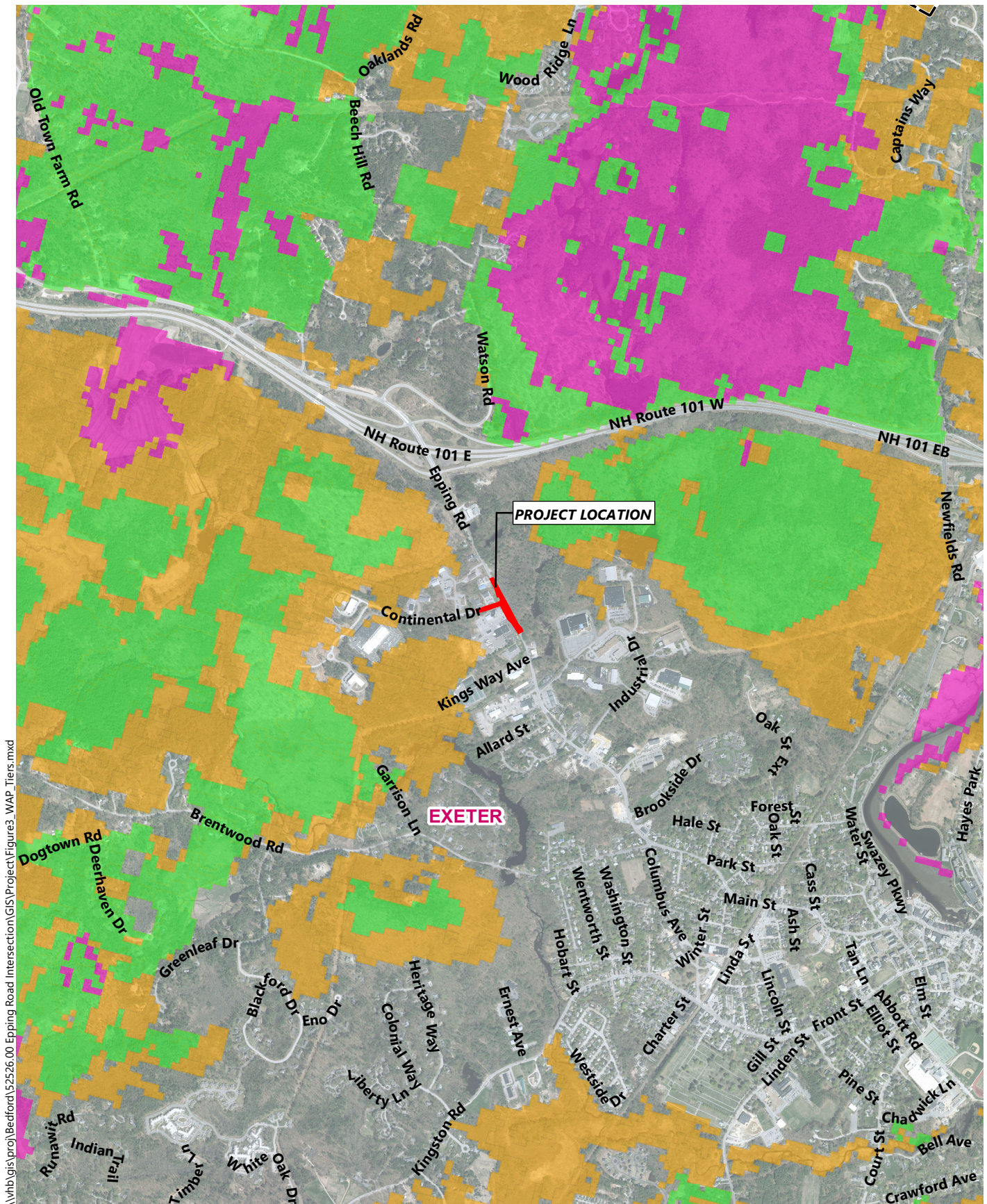


-  Project Area
-  FEMA 100-yr Floodplain

Epping Road Intersection | Exeter, New Hampshire

**FEMA Floodplain Map**





\\vhb\gis\proj\Bedford\52526.00 Epping Road Intersection\GIS\Project\Figure3\_WAP\_Tiers.mxd



Epping Road Intersection | Exeter, New Hampshire

- Wildlife Action Plan Tiers
- 1 Highest Ranked Habitat in New Hampshire
  - 2 Highest Ranked Habitat in Biological Region
  - 3 Supporting Landscapes

**NHF&G Wildlife Action Plan Ranked Habitat**

Source: Eversource, VHB, NHGRANIT



# Appendices A through E



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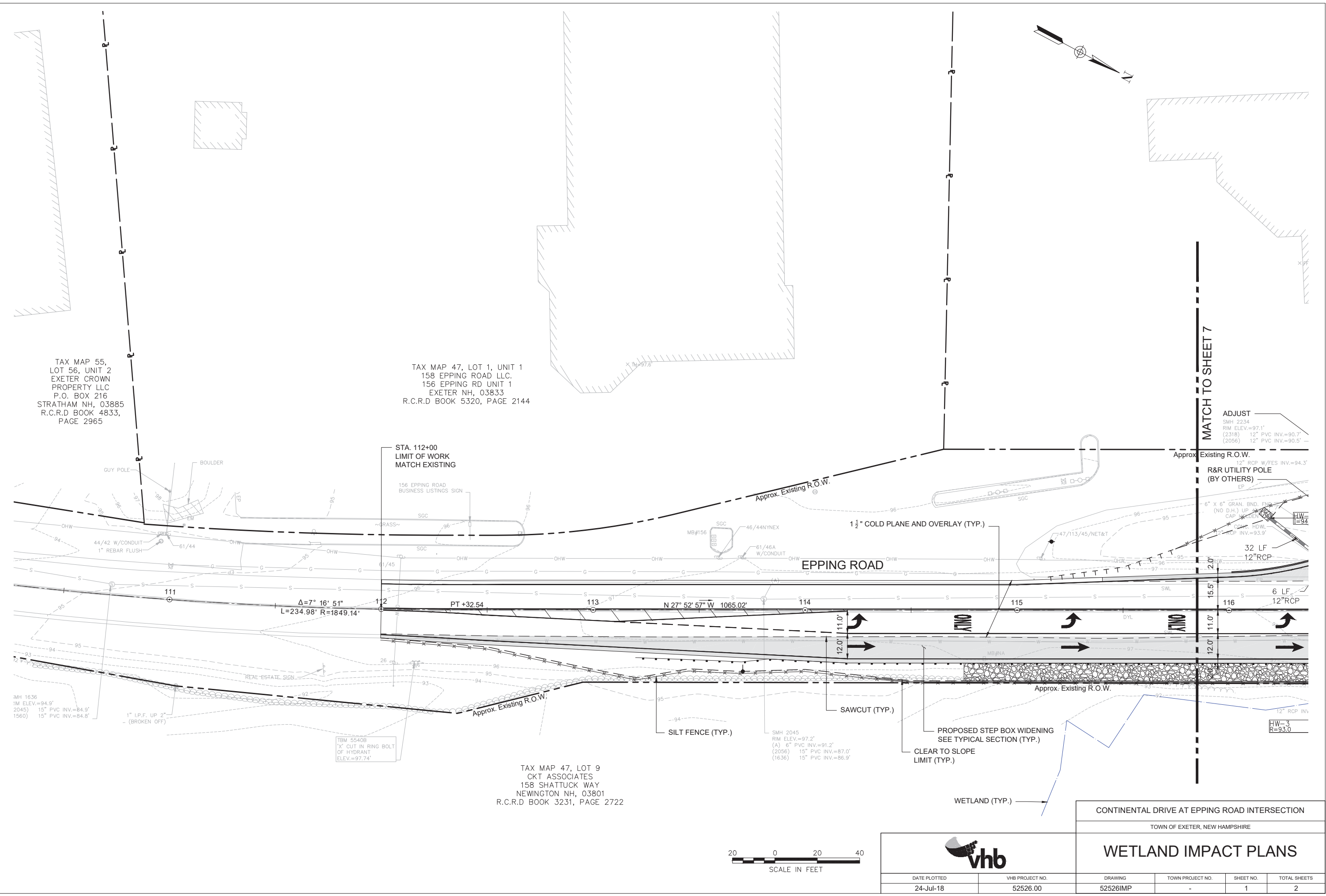
Appendix A.....	Wetland Permitting Plans
Appendix B.....	Representative Site Photographs
Appendix C.....	Natural Resource Agency Correspondence
Appendix D.....	Cultural Resource Agency Correspondence
Appendix E.....	Abutter Information

# Appendix A

## Wetland Permitting Plans



SDR PROCESSED	DOUCET SURVEY, INC.	DATE	MAY 2018
NEW DESIGN	KMH	DATE	7/24/18
SHEET CHECKED	GLB	DATE	7/24/18
AS BUILT DETAILS		DATE	



TAX MAP 55,  
LOT 56, UNIT 2  
EXETER CROWN  
PROPERTY LLC  
P.O. BOX 216  
STRATHAM NH, 03885  
R.C.R.D BOOK 4833,  
PAGE 2965

TAX MAP 47, LOT 1, UNIT 1  
158 EPPING ROAD LLC.  
156 EPPING RD UNIT 1  
EXETER NH, 03833  
R.C.R.D BOOK 5320, PAGE 2144

TAX MAP 47, LOT 9  
CKT ASSOCIATES  
158 SHATTUCK WAY  
NEWINGTON NH, 03801  
R.C.R.D BOOK 3231, PAGE 2722

MATCH TO SHEET 7



DATE PLOTTED	VHB PROJECT NO.	DRAWING	TOWN PROJECT NO.	SHEET NO.	TOTAL SHEETS
24-Jul-18	52526.00	52526IMP	-	1	2

CONTINENTAL DRIVE AT EPPING ROAD INTERSECTION  
TOWN OF EXETER, NEW HAMPSHIRE

WETLAND IMPACT PLANS

SDR PROCESSED DATE MAY 2018 DATE 7/25/18 DATE 7/25/18 DATE DATE SDR PROCESSED DOUCET SURVEY, INC. NEW DESIGN KMH SHEET CHECKED GIB AS BUILT DETAILS

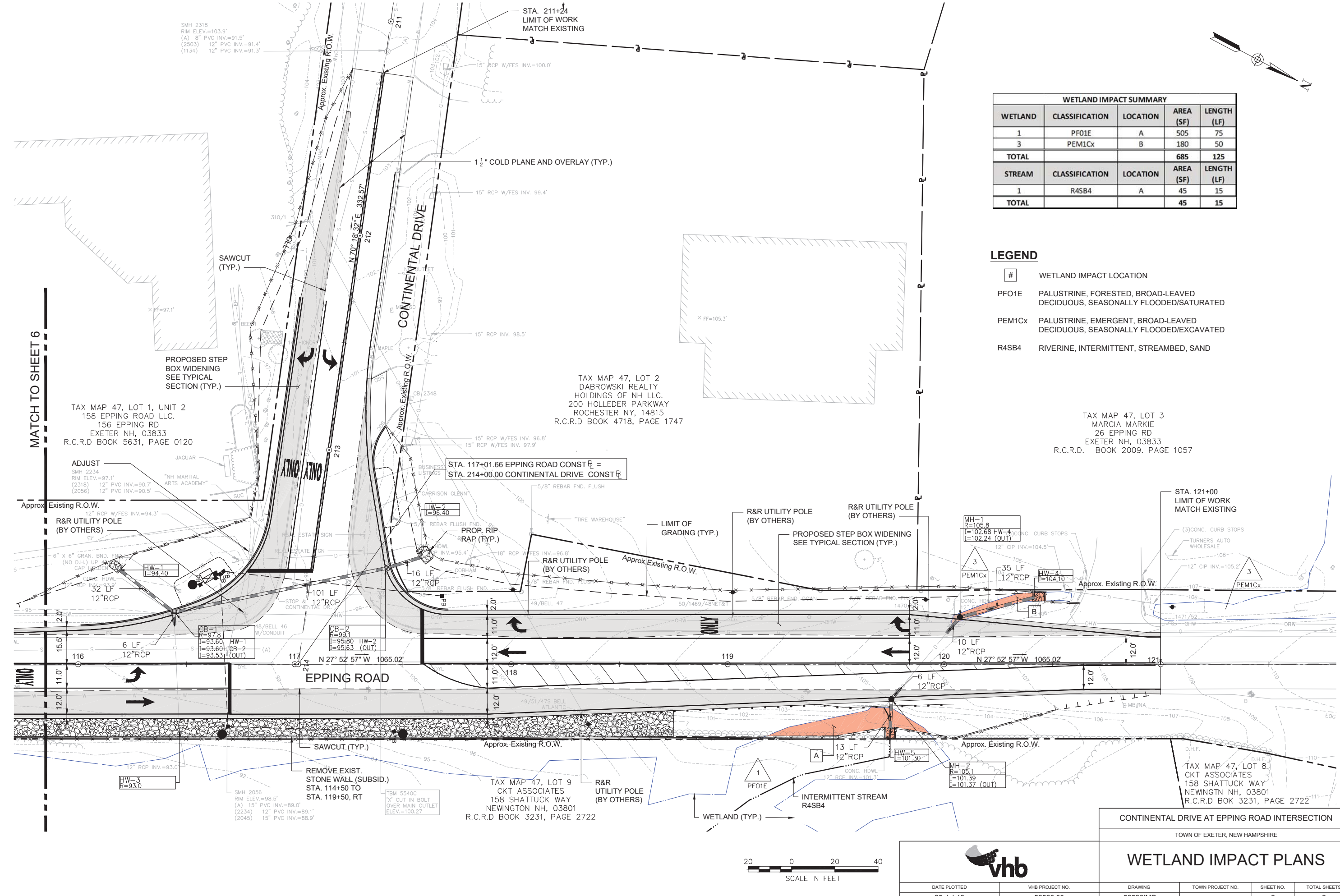
REVISIONS AFTER PROPOSAL

STATION

STATION

DATE

NUMBER



WETLAND IMPACT SUMMARY				
WETLAND	CLASSIFICATION	LOCATION	AREA (SF)	LENGTH (LF)
1	PFO1E	A	505	75
3	PEM1Cx	B	180	50
<b>TOTAL</b>			<b>685</b>	<b>125</b>
STREAM	CLASSIFICATION	LOCATION	AREA (SF)	LENGTH (LF)
1	R4SB4	A	45	15
<b>TOTAL</b>			<b>45</b>	<b>15</b>

- LEGEND**
- # WETLAND IMPACT LOCATION
  - PFO1E PALUSTRINE, FORESTED, BROAD-LEAVED DECIDUOUS, SEASONALLY FLOODED/SATURATED
  - PEM1Cx PALUSTRINE, EMERGENT, BROAD-LEAVED DECIDUOUS, SEASONALLY FLOODED/EXCAVATED
  - R4SB4 RIVERINE, INTERMITTENT, STREAMBED, SAND

TAX MAP 47, LOT 3  
MARCIA MARKIE  
26 EPPING RD  
EXETER NH, 03833  
R.C.R.D. BOOK 2009. PAGE 1057

CONTINENTAL DRIVE AT EPPING ROAD INTERSECTION  
TOWN OF EXETER, NEW HAMPSHIRE

WETLAND IMPACT PLANS



DATE PLOTTED	VHB PROJECT NO.	DRAWING	TOWN PROJECT NO.	SHEET NO.	TOTAL SHEETS
25-Jul-18	52526.00	52526IMP	-	2	2





# Appendix B

## Representative Site Photographs





**Representative Wetland and Stream Photographs  
Epping Road Intersection Improvement Project  
May 3, 2018**

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**Photo 1:** View east of the portion of wetland W-01 with standing water. The intermittent stream dissipates into wetland W-01 around this location.



**Photo 2:** View north of wetland W-01 located adjacent to Epping Road.



**Representative Wetland and Stream Photographs  
Epping Road Intersection Improvement Project  
May 3, 2018**

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**Photo 3:** View southeast along the intermittent stream located within wetland W-01.



**Photo 4:** View northeast of the intermittent stream entering wetland W-01 from the culvert underneath Epping Road.



**Representative Wetland and Stream Photographs  
Epping Road Intersection Improvement Project  
May 3, 2018**

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**Photo 5:** View northwest of wetland W-01 to the right of photo and Epping Road to the left. The intermittent stream is located in the center of the photo, curving around to the right.



**Photo 6:** View southeast toward wetland W-03, located west of Epping Road and south of a driveway to an auto repair shop.

**Representative Wetland and Stream Photographs  
Epping Road Intersection Improvement Project  
May 3, 2018**

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**Photo 7:** View northwest toward the northernmost portion of wetland W-03 located north of the driveway to an auto repair shop. This portion of wetland W-03 will not be impacted by the proposed project.



# Appendix C

## Natural Resource Agency Correspondence





NEW HAMPSHIRE NATURAL HERITAGE BUREAU  
NHB DATACHECK RESULTS LETTER

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**To:** Lindsay Matras, VHB  
2 Bedford Farms Drive Suite 200  
Bedford, NH 03110-6532

**From:** NH Natural Heritage Bureau

**Date:** 6/25/2018 (valid for one year from this date)

**Re:** Review by NH Natural Heritage Bureau of request submitted 6/18/2018

**NHB File ID:** NHB18-1890

**Applicant:** Paul Vlasich

**Location:** Exeter  
Roadway Right-of-Way

**Project Description:** The proposed project involves widening around the intersection of Epping Road and Continental Drive.

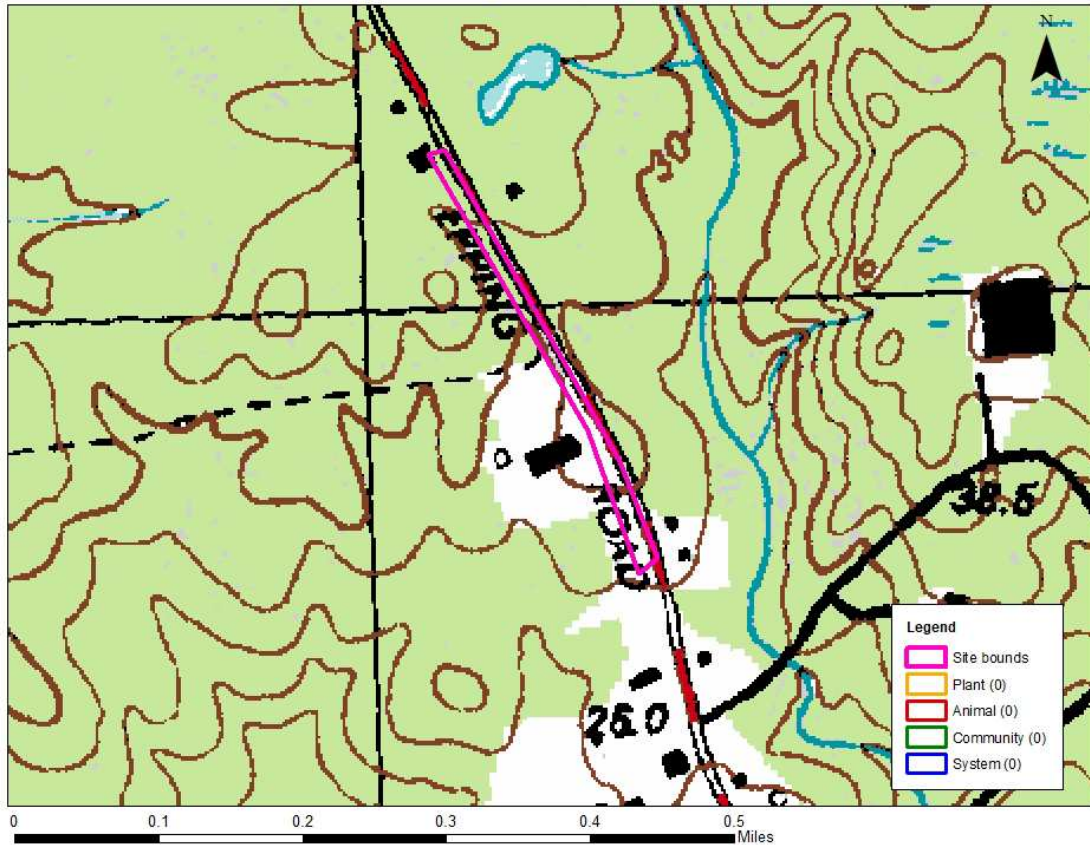
The NH Natural Heritage database has been checked by staff of the NH Natural Heritage Bureau and/or the NH Nongame and Endangered Species Program for records of rare species and exemplary natural communities near the area mapped below. The species considered include those listed as Threatened or Endangered by either the state of New Hampshire or the federal government.

It was determined that, although there was a NHB record (e.g., rare wildlife, plant, and/or natural community) present in the vicinity, we do not expect that it will be impacted by the proposed project. This determination was made based on the project information submitted via the NHB Datacheck Tool on 6/18/2018, and cannot be used for any other project.



MAP OF PROJECT BOUNDARIES FOR: NHB18-1890

NHB18-1890





# United States Department of the Interior



FISH AND WILDLIFE SERVICE  
New England Ecological Services Field Office  
70 Commercial Street, Suite 300  
Concord, NH 03301-5094  
Phone: (603) 223-2541 Fax: (603) 223-0104  
<http://www.fws.gov/newengland>

In Reply Refer To:

June 18, 2018

Consultation Code: 05E1NE00-2018-SLI-2121

Event Code: 05E1NE00-2018-E-04909

Project Name: Epping Road Intersection Improvement Project

Subject: List of threatened and endangered species that may occur in your proposed project location, and/or may be affected by your proposed project

To Whom It May Concern:

The enclosed species list identifies threatened, endangered, proposed and candidate species, as well as proposed and final designated critical habitat, that may occur within the boundary of your proposed project and/or may be affected by your proposed project. The species list fulfills the requirements of the U.S. Fish and Wildlife Service (Service) under section 7(c) of the Endangered Species Act (Act) of 1973, as amended (16 U.S.C. 1531 *et seq.*).

New information based on updated surveys, changes in the abundance and distribution of species, changed habitat conditions, or other factors could change this list. Please feel free to contact us if you need more current information or assistance regarding the potential impacts to federally proposed, listed, and candidate species and federally designated and proposed critical habitat. Please note that under 50 CFR 402.12(e) of the regulations implementing section 7 of the Act, the accuracy of this species list should be verified after 90 days. This verification can be completed formally or informally as desired. The Service recommends that verification be completed by visiting the ECOS-IPaC website at regular intervals during project planning and implementation for updates to species lists and information. An updated list may be requested through the ECOS-IPaC system by completing the same process used to receive the enclosed list.

The purpose of the Act is to provide a means whereby threatened and endangered species and the ecosystems upon which they depend may be conserved. Under sections 7(a)(1) and 7(a)(2) of the Act and its implementing regulations (50 CFR 402 *et seq.*), Federal agencies are required to utilize their authorities to carry out programs for the conservation of threatened and endangered species and to determine whether projects may affect threatened and endangered species and/or designated critical habitat.

A Biological Assessment is required for construction projects (or other undertakings having similar physical impacts) that are major Federal actions significantly affecting the quality of the human environment as defined in the National Environmental Policy Act (42 U.S.C. 4332(2)(c)). For projects other than major construction activities, the Service suggests that a biological evaluation similar to a Biological Assessment be prepared to determine whether the project may affect listed or proposed species and/or designated or proposed critical habitat. Recommended contents of a Biological Assessment are described at 50 CFR 402.12.

If a Federal agency determines, based on the Biological Assessment or biological evaluation, that listed species and/or designated critical habitat may be affected by the proposed project, the agency is required to consult with the Service pursuant to 50 CFR 402. In addition, the Service recommends that candidate species, proposed species and proposed critical habitat be addressed within the consultation. More information on the regulations and procedures for section 7 consultation, including the role of permit or license applicants, can be found in the "Endangered Species Consultation Handbook" at:

<http://www.fws.gov/endangered/esa-library/pdf/TOC-GLOS.PDF>

Please be aware that bald and golden eagles are protected under the Bald and Golden Eagle Protection Act (16 U.S.C. 668 *et seq.*), and projects affecting these species may require development of an eagle conservation plan ([http://www.fws.gov/windenergy/eagle\\_guidance.html](http://www.fws.gov/windenergy/eagle_guidance.html)). Additionally, wind energy projects should follow the wind energy guidelines (<http://www.fws.gov/windenergy/>) for minimizing impacts to migratory birds and bats.

Guidance for minimizing impacts to migratory birds for projects including communications towers (e.g., cellular, digital television, radio, and emergency broadcast) can be found at: <http://www.fws.gov/migratorybirds/CurrentBirdIssues/Hazards/towers/towers.htm>; <http://www.towerkill.com>; and <http://www.fws.gov/migratorybirds/CurrentBirdIssues/Hazards/towers/comtow.html>.

We appreciate your concern for threatened and endangered species. The Service encourages Federal agencies to include conservation of threatened and endangered species into their project planning to further the purposes of the Act. Please include the Consultation Tracking Number in the header of this letter with any request for consultation or correspondence about your project that you submit to our office.

Attachment(s):

- Official Species List
-

## Official Species List

This list is provided pursuant to Section 7 of the Endangered Species Act, and fulfills the requirement for Federal agencies to "request of the Secretary of the Interior information whether any species which is listed or proposed to be listed may be present in the area of a proposed action".

This species list is provided by:

**New England Ecological Services Field Office**

70 Commercial Street, Suite 300

Concord, NH 03301-5094

(603) 223-2541

---



## Project Summary

Consultation Code: 05E1NE00-2018-SLI-2121

Event Code: 05E1NE00-2018-E-04909

Project Name: Epping Road Intersection Improvement Project

Project Type: TRANSPORTATION

Project Description: The proposed project involves widening around the intersection of Epping Road and Continental Drive.

Project Location:

Approximate location of the project can be viewed in Google Maps: <https://www.google.com/maps/place/42.995261520460645N70.97173216413992W>



Counties: Rockingham, NH

---

## Endangered Species Act Species

There is a total of 1 threatened, endangered, or candidate species on this species list.

Species on this list should be considered in an effects analysis for your project and could include species that exist in another geographic area. For example, certain fish may appear on the species list because a project could affect downstream species.

IPaC does not display listed species or critical habitats under the sole jurisdiction of NOAA Fisheries<sup>1</sup>, as USFWS does not have the authority to speak on behalf of NOAA and the Department of Commerce.

See the "Critical habitats" section below for those critical habitats that lie wholly or partially within your project area under this office's jurisdiction. Please contact the designated FWS office if you have questions.

- 
1. [NOAA Fisheries](#), also known as the National Marine Fisheries Service (NMFS), is an office of the National Oceanic and Atmospheric Administration within the Department of Commerce.

## Mammals

NAME	STATUS
Northern Long-eared Bat <i>Myotis septentrionalis</i> No critical habitat has been designated for this species. Species profile: <a href="https://ecos.fws.gov/ecp/species/9045">https://ecos.fws.gov/ecp/species/9045</a>	Threatened

## Critical habitats

THERE ARE NO CRITICAL HABITATS WITHIN YOUR PROJECT AREA UNDER THIS OFFICE'S JURISDICTION.

---

# Appendix D

## Cultural Resource Agency Correspondence



Please mail the completed form and required material to:

New Hampshire Division of Historical Resources  
State Historic Preservation Office  
Attention: Review & Compliance  
19 Pillsbury Street, Concord, NH 03301-3570

DHR Use Only	
R&C #	_____
Log In Date	___ / ___ / ___
Response Date	___ / ___ / ___
Sent Date	___ / ___ / ___

## Request for Project Review by the New Hampshire Division of Historical Resources

- This is a new submittal  
 This is additional information relating to DHR Review & Compliance (R&C) #:

### GENERAL PROJECT INFORMATION

Project Title **Epping Road Intersection Improvement Project**  
Project Location **Intersection of Epping Road with Continental Drive**  
City/Town **Exeter**  
Tax Map **N/A – Roadway Right-of-Way** Lot # **N/A – Roadway Right-of-Way**  
NH State Plane - Feet Geographic Coordinates: Easting **1170170** Northing **181245**  
Lead Federal Agency and Contact (*if applicable*) **US Army Corps of Engineers**  
(*Agency providing funds, licenses, or permits*)  
Permit Type and Permit or Job Reference # **Wetland Permit (not yet submitted)**  
State Agency and Contact (*if applicable*) **NH Department of Environmental Services**  
Permit Type and Permit or Job Reference # **Wetland Permit (not yet submitted)**

### APPLICANT INFORMATION

Applicant Name **Paul Vlasich, Town of Exeter**  
Mailing Address **10 Front Street** Phone Number **603-773-6157**  
City **Exeter** State **NH** Zip **03833** Email **pvlasich@exeternh.gov**

### CONTACT PERSON TO RECEIVE RESPONSE

Name/Company **Greg Bakos, VHB**  
Mailing Address **2 Bedford Farms Drive, Suite 200** Phone Number **603-391-3900**  
City **Bedford** State **NH** Zip **03110-6532** Email **gbakos@vhb.com**

*This form is updated periodically. Please download the current form at [www.nh.gov/nhdhr/review](http://www.nh.gov/nhdhr/review). Please refer to the Request for Project Review Instructions for direction on completing this form. Submit one copy of this project review form for each project for which review is requested. Include a self-addressed stamped envelope to expedite review response. Project submissions will not be accepted via facsimile or e-mail. This form is required. Review request form must be complete for review to begin. Incomplete forms will be sent back to the applicant without comment. Please be aware that this form may only initiate consultation. For some projects, additional information will be needed to complete the Section 106 review. All items and supporting documentation submitted with a review request, including photographs and publications, will be retained by the DHR as part of its review records. Items to be kept confidential should be clearly identified. For questions regarding the DHR review process and the DHR's role in it, please visit our website at: [www.nh.gov/nhdhr/review](http://www.nh.gov/nhdhr/review) or contact the R&C Specialist at [christina.st.louis@nh.gov](mailto:christina.st.louis@nh.gov) or 603.271.3558.*

**PROJECTS CANNOT BE PROCESSED WITHOUT THIS INFORMATION**

Project Boundaries and Description

- Attach the relevant portion of a 7.5' USGS Map (photocopied or computer-generated) **indicating the defined project boundary.** (See RPR Instructions and R&C FAQs for guidance.)
- Attach a detailed narrative description of the proposed project.
- Attach a site plan. The site plan should include the project boundaries and areas of proposed excavation.
- Attach photos of the project area (overview of project location and area adjacent to project location, and specific areas of proposed impacts and disturbances.) (Informative photo captions are requested.)
- A DHR file review must be conducted to identify properties within or adjacent to the project area. Provide file review results in **Table 1.** (Blank table forms are available on the DHR website.)  
File review conducted on **07/05/2018.**

Architecture

Are there any buildings, structures (bridges, walls, culverts, etc.) objects, districts or landscapes within the project area?  Yes  No

If no, skip to Archaeology section. If yes, submit all of the following information:

Approximate age(s):

- Photographs of **each** resource or streetscape located within the project area, with captions, along with a mapped photo key. (Digital photographs are accepted. All photographs must be clear, crisp and focused.)
- If the project involves rehabilitation, demolition, additions, or alterations to existing buildings or structures, provide additional photographs showing detailed project work locations. (i.e. Detail photo of windows if window replacement is proposed.)

Archaeology

Does the proposed undertaking involve ground-disturbing activity?  Yes  No

If yes, submit all of the following information:

- Description of current and previous land use and disturbances.
- Available information concerning known or suspected archaeological resources within the project area (such as cellar holes, wells, foundations, dams, etc.)

**Please note that for many projects an architectural and/or archaeological survey or other additional information may be needed to complete the Section 106 process.**

**DHR Comment/Finding Recommendation** *This Space for Division of Historical Resources Use Only*

**Insufficient information to initiate review.** Additional information is needed in order to complete review.

No Potential to cause Effects    No Historic Properties Affected    No Adverse Effect    Adverse Effect

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

*If plans change or resources are discovered in the course of this project, you must contact the Division of Historical Resources as required by federal law and regulation.*

Authorized Signature: \_\_\_\_\_ Date: \_\_\_\_\_



# Appendix E

## Abutter Information



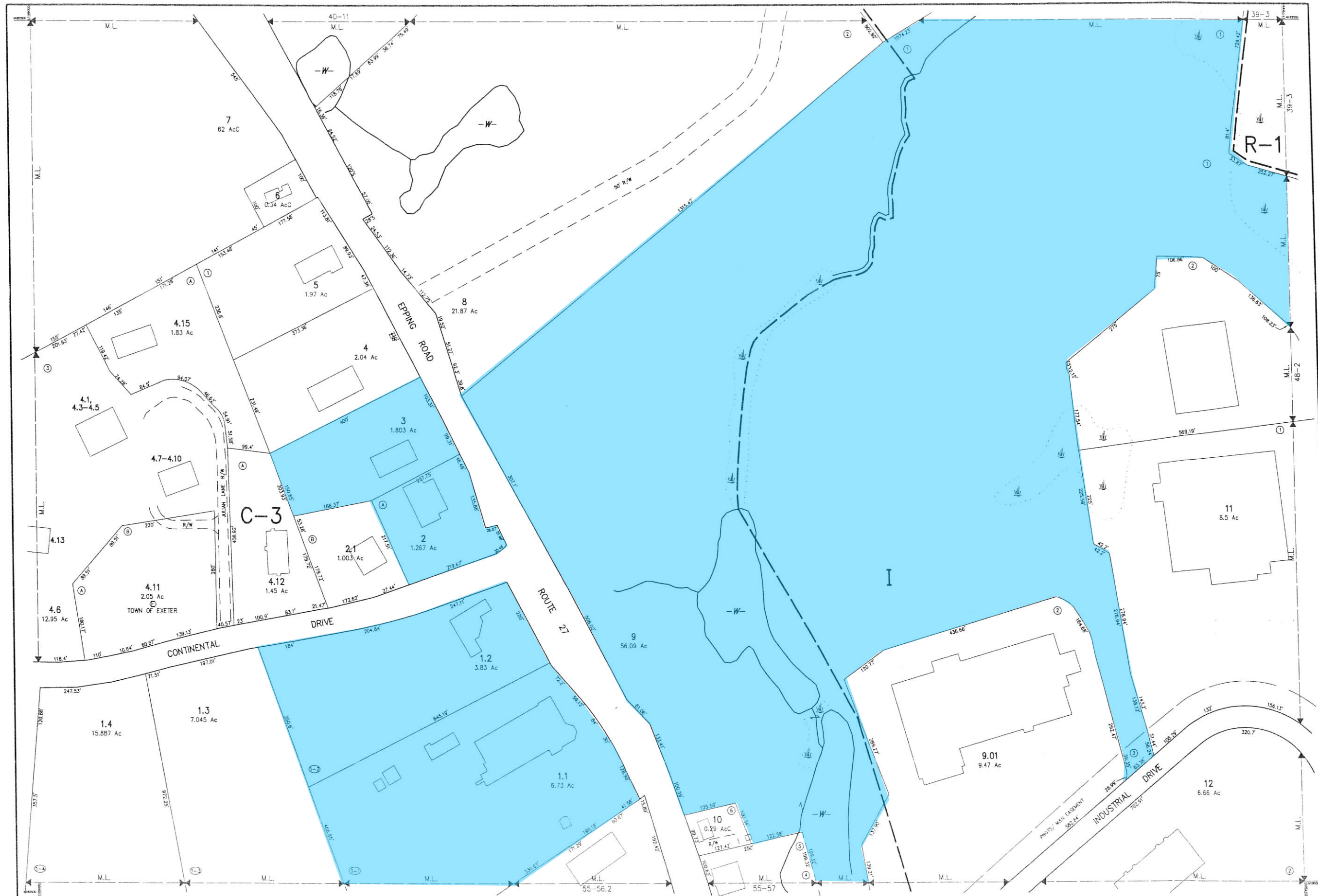
## Epping Road Intersection Improvement Project

### Abutters List: Exeter NH

Parcel ID	Site Address	Owner	Owner Address	Owner Town	Owner State	Owner Zip
47-1-1	156 Epping Road	156 Epping Road LLC	156 Epping Road, Unit 1	Exeter	NH	03833
47-1-2	158 Epping Road	158 Epping Road LLC	156 Epping Road, Unit 1	Exeter	NH	03833
47-2	160 Epping Road	Dabrowski Realty Holdings of NH LLC, c/o Monro Muffler Brake Inc.	200 Holleder Parkway	Rochester	NY	14815
47-3	162 Epping Road	Marcia Markie	26 Epping Road	Exeter	NH	03833
47-9	159 Epping Road	CKT Associates	158 Shattuck Way	Newington	NH	03801

Notes:

Assessing information collected July 2018 from <http://gis.vgsi.com/exeternh/Search.aspx>.



THIS MAP IS FOR ASSESSMENT PURPOSES. IT IS NOT VALID FOR LEGAL DESCRIPTION OR CONVEYANCE.  
 THE HORIZONTAL DATUM IS THE NEW HAMPSHIRE STATE PLANE COORDINATE SYSTEM.  
 PHOTOGRAPHY DATE: APRIL 25, 1995  
 COMPLETION DATE: MARCH 29, 1996

PRODUCED IN 1996 BY  
**CAI Technologies**  
 11 PLEASANT STREET, LITTLETON, NH 03561  
 800 322 4540 - WWW.CAI-TECH.COM

AREA SURVEYED	Ac
AREA CALCULATED	AcC
RECORD DIMENSION	100'
SCALED DIMENSION	100'S
MATCH LINE	M.L.
WATER	-W-

**LEGEND**  
 EXEMPT PROPERTY  
 SUBDIVISION LOT NO.  
 ZONE LIMIT  
 RIGHT OF WAY  
 COMMON OWNERSHIP  
 BUILDING  
 WETLANDS

FEET SCALE 1" = 100'  
 METERS  
 REVISED TO: APRIL 1, 2016

PROPERTY MAPS  
**EXETER**  
 NEW HAMPSHIRE

**INDEX DIAGRAM**

41	40	39
46	48	47
56	55	54

MAP NO.  
**47**



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Return Receipt (hardcopy) \$ \_\_\_\_\_

Return Receipt (electronic) \$ \_\_\_\_\_

Certified Mail Restricted Delivery \$ \_\_\_\_\_

Adult Signature Required \$ \_\_\_\_\_

Adult Signature Restricted Delivery \$ \_\_\_\_\_


Postage  
 \$ .47

Total Postage and  
 \$ 3.92

Sent To  
 156 Epping Road LLC  
 156 Epping Road, Unit 1  
 Exeter, NH 03833

City, State, ZIP+4®

PS Form 3800, April 2012 PSN 7530-02-000-9001



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Return Receipt (electronic) \$ \_\_\_\_\_

Certified Mail Restricted Delivery \$ \_\_\_\_\_

Adult Signature Required \$ \_\_\_\_\_

Adult Signature Restricted Delivery \$ \_\_\_\_\_

Postage  
 \$ .47

Total Postage and  
 \$ 3.92

Sent To  
 Dabrowski Realty Holdings of NH, LLC  
 c/o Munro Muffler Brake, Inc.  
 200 Holleder Parkway  
 Rochester, NY 14815

City, State, ZIP+4®

PS Form 3800, April 2012 PSN 7530-02-000-9001



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Extra Services & Fees (check box, add fee as appropriate)

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Return Receipt (electronic) \$ \_\_\_\_\_

Certified Mail Restricted Delivery \$ \_\_\_\_\_

Adult Signature Required \$ \_\_\_\_\_

Adult Signature Restricted Delivery \$ \_\_\_\_\_

Postage  
 \$ .47

Total Postage and  
 \$ 3.92

Sent To  
 158 Epping Road LLC  
 156 Epping Road, Unit 1  
 Exeter, NH 03833

City, State, ZIP+4®

PS Form 3800, April 2012 PSN 7530-02-000-9001



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Extra Services & Fees (check box, add fee as appropriate)

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Return Receipt (electronic) \$ \_\_\_\_\_

Certified Mail Restricted Delivery \$ \_\_\_\_\_

Adult Signature Required \$ \_\_\_\_\_

Adult Signature Restricted Delivery \$ \_\_\_\_\_

Postage  
 \$ .47

Total Postage and  
 \$ 3.92

Sent To  
 Marcia Markie  
 26 Epping Road  
 Exeter, NH 03833

City, State, ZIP+4®

PS Form 3800, April 2012 PSN 7530-02-000-9001



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Return Receipt (hardcopy) \$ \_\_\_\_\_

Return Receipt (electronic) \$ \_\_\_\_\_

Certified Mail Restricted Delivery \$ \_\_\_\_\_

Adult Signature Required \$ \_\_\_\_\_

Adult Signature Restricted Delivery \$ \_\_\_\_\_


Postage  
 \$ .47

Total Postage and  
 \$ 3.92

Sent To  
 CKT Associates  
 158 Shattuck Way  
 Newington, NH 03801

City, State, ZIP+4®

PS Form 3800, April 2012 PSN 7530-02-000-9001





# WETLANDS PERMIT APPLICATION

## Water Division/ Wetlands Bureau Land Resources Management



Check the status of your application: [www.des.nh.gov/onestop](http://www.des.nh.gov/onestop)

RSA/Rule: [RSA 482-A/ Env-Wt 100-900](#)

<i>Administrative Use Only</i>	<i>Administrative Use Only</i>	<i>Administrative Use Only</i>	File No.:
			Check No.:
			Amount:
			Initials:

**1. REVIEW TIME:** Indicate your Review Time below. To determine review time, refer to [Guidance Document A](#) for instructions.

Standard Review (Minimum, Minor or Major Impact)
  Expedited Review (Minimum Impact only)

**2. MITIGATION REQUIREMENT:**  
 If mitigation is required a Mitigation-Pre Application meeting must occur prior to submitting this Wetlands Permit Application. To determine if Mitigation is Required, please refer to the [Determine if Mitigation is Required Frequently Asked Question](#).

Mitigation Pre-Application Meeting Date: Month: \_\_\_ Day: \_\_\_ Year: \_\_\_\_

N/A - Mitigation is not required

**3. PROJECT LOCATION:**  
 Separate wetland permit applications must be submitted for each municipality that wetland impacts occur within.

ADDRESS: **Water Street** | TOWN/CITY: **Exeter**

TAX MAP: **64** | BLOCK: | LOT: **47** | UNIT: |

USGS TOPO MAP WATERBODY NAME: **Squamscott River**  NA | STREAM WATERSHED SIZE:  NA

LOCATION COORDINATES (If known):  Latitude/Longitude  UTM  State Plane

**4. PROJECT DESCRIPTION:**  
 Provide a brief description of the project outlining the scope of work. Attach additional sheets as needed to provide a detailed explanation of your project. DO NOT reply "See Attached" in the space provided below.

**Adding a floating kayak launch and fishing platform to our existing seasonal dock on the Squamscott River**

**5. SHORELINE FRONTAGE:**

NA This does not have shoreline frontage. SHORELINE FRONTAGE: **651'**

Shoreline frontage is calculated by determining the average of the distances of the actual natural navigable shoreline frontage and a straight line drawn between the property lines, both of which are measured at the normal high water line.

**6. RELATED NHDES LAND RESOURCES MANAGEMENT PERMIT APPLICATIONS ASSOCIATED WITH THIS PROJECT:**  
 Please indicate if any of the following permit applications are required and, if required, the status of the application.  
 To determine if other Land Resources Management Permits are required, refer to the [Land Resources Management Web Page](#).

Permit Type	Permit Required	File Number	Permit Application Status
Alteration of Terrain Permit Per RSA 485-A:17	<input type="checkbox"/> YES <input type="checkbox"/> NO	_____	<input type="checkbox"/> APPROVED <input type="checkbox"/> PENDING <input type="checkbox"/> DENIED
Individual Sewerage Disposal per RSA 485-A:2	<input type="checkbox"/> YES <input type="checkbox"/> NO	_____	<input type="checkbox"/> APPROVED <input type="checkbox"/> PENDING <input type="checkbox"/> DENIED
Subdivision Approval Per RSA 485-A	<input type="checkbox"/> YES <input type="checkbox"/> NO	_____	<input type="checkbox"/> APPROVED <input type="checkbox"/> PENDING <input type="checkbox"/> DENIED
Shoreland Permit Per RSA 483-B	<input type="checkbox"/> YES <input type="checkbox"/> NO	_____	<input type="checkbox"/> APPROVED <input type="checkbox"/> PENDING <input type="checkbox"/> DENIED

**7. NATURAL HERITAGE BUREAU & DESIGNATED RIVERS:**  
 See the Instructions & Required Attachments document for instructions to complete a & b below.

a. Natural Heritage Bureau File ID: NHB \_\_\_\_\_ - \_\_\_\_\_.

b.  [Designated River](#) the project is in ¼ miles of: **Squamscott River** ; and  
 date a copy of the application was sent to the [Local River Management Advisory Committee](#): Month: \_\_\_ Day: \_\_\_ Year: \_\_\_\_

N/A



<b>8. APPLICANT INFORMATION (Desired permit holder)</b>			
LAST NAME, FIRST NAME, M.I.: <b>Greg Bisson</b>			
TRUST / COMPANY NAME: <b>Town of Exeter</b>		MAILING ADDRESS: <b>32 Court Street</b>	
TOWN/CITY: <b>Exeter</b>		STATE: <b>NH</b>	ZIP CODE: <b>03833</b>
EMAIL or FAX: <b>gbisson@exeternh.gov</b>		PHONE: <b>(603) 773-6151</b>	
ELECTRONIC COMMUNICATION: By initialing here: <b>GB</b> , I hereby authorize NHDES to communicate all matters relative to this application electronically.			
<b>9. PROPERTY OWNER INFORMATION (If different than applicant)</b>			
LAST NAME, FIRST NAME, M.I.:			
TRUST / COMPANY NAME:		MAILING ADDRESS:	
TOWN/CITY:		STATE:	ZIP CODE:
EMAIL or FAX:		PHONE:	
ELECTRONIC COMMUNICATION: By initialing here _____, I hereby authorize NHDES to communicate all matters relative to this application electronically.			
<b>10. AUTHORIZED AGENT INFORMATION</b>			
LAST NAME, FIRST NAME, M.I.:		COMPANY NAME:	
MAILING ADDRESS:			
TOWN/CITY:		STATE:	ZIP CODE:
EMAIL or FAX:		PHONE:	
ELECTRONIC COMMUNICATION: By initialing here _____, I hereby authorize NHDES to communicate all matters relative to this application electronically.			
<b>11. PROPERTY OWNER SIGNATURE:</b>			
See the Instructions & Required Attachments document for clarification of the below statements			
By signing the application, I am certifying that:			
<ol style="list-style-type: none"> <li>I authorize the applicant and/or agent indicated on this form to act in my behalf in the processing of this application, and to furnish upon request, supplemental information in support of this permit application.</li> <li>I have reviewed and submitted information &amp; attachments outlined in the Instructions and Required Attachment document.</li> <li>All abutters have been identified in accordance with RSA 482-A:3, I and Env-Wt 100-900.</li> <li>I have read and provided the required information outlined in Env-Wt 302.04 for the applicable project type.</li> <li>I have read and understand Env-Wt 302.03 and have chosen the least impacting alternative.</li> <li>Any structure that I am proposing to repair/replace was either previously permitted by the Wetlands Bureau or would be considered grandfathered per Env-Wt 101.47.</li> <li>I have submitted a Request for Project Review (RPR) Form (<a href="http://www.nh.gov/nhdhr/review">www.nh.gov/nhdhr/review</a>) to the NH State Historic Preservation Officer (SHPO) at the NH Division of Historical Resources to identify the presence of historical/ archeological resources while coordinating with the lead federal agency for NHPA 106 compliance.</li> <li>I authorize NHDES and the municipal conservation commission to inspect the site of the proposed project.</li> <li>I have reviewed the information being submitted and that to the best of my knowledge the information is true and accurate.</li> <li>I understand that the willful submission of falsified or misrepresented information to the New Hampshire Department of Environmental Services is a criminal act, which may result in legal action.</li> <li>I am aware that the work I am proposing may require additional state, local or federal permits which I am responsible for obtaining.</li> <li>The mailing addresses I have provided are up to date and appropriate for receipt of NHDES correspondence. NHDES will not forward returned mail.</li> </ol>			
 Property Owner Signature		<b>Greg Bisson</b> Print name legibly	/ / Date

## MUNICIPAL SIGNATURES

### 12. CONSERVATION COMMISSION SIGNATURE

The signature below certifies that the municipal conservation commission has reviewed this application, and:

1. Waives its right to intervene per RSA 482-A:11;
2. Believes that the application and submitted plans accurately represent the proposed project; and
3. Has no objection to permitting the proposed work.

	Print name legibly	Date
--	--------------------	------

#### **DIRECTIONS FOR CONSERVATION COMMISSION**

1. Expedited review ONLY requires that the conservation commission's signature is obtained in the space above.
2. Expedited review requires the Conservation Commission signature be obtained **prior** to the submittal of the original application to the Town/City Clerk for signature.
3. The Conservation Commission may refuse to sign. If the Conservation Commission does not sign this statement for any reason, the application is not eligible for expedited review and the application will be reviewed in the standard review time frame.

### 13. TOWN / CITY CLERK SIGNATURE

As required by Chapter 482-A:3 (amended 2014), I hereby certify that the applicant has filed four application forms, four detailed plans, and four USGS location maps with the town/city indicated below.

	Print name legibly	Town/City	Date
--	--------------------	-----------	------

#### **DIRECTIONS FOR TOWN/CITY CLERK:**

Per RSA 482-A:3,I

1. For applications where "Expedited Review" is checked on page 1, if the Conservation Commission signature is not present, NHDES will accept the permit application, but it will NOT receive the expedited review time.
2. IMMEDIATELY sign the original application form and four copies in the signature space provided above;
3. Return the signed original application form and attachments to the applicant so that the applicant may submit the application form and attachments to NHDES by mail or hand delivery.
4. IMMEDIATELY distribute a copy of the application with one complete set of attachments to each of the following bodies: the municipal Conservation Commission, the local governing body (Board of Selectmen or Town/City Council), and the Planning Board; and
5. Retain one copy of the application form and one complete set of attachments and make them reasonably accessible for public review.

#### **DIRECTIONS FOR APPLICANT:**

1. Submit the single, original permit application form bearing the signature of the Town/ City Clerk, additional materials, and the application fee to NHDES by mail or hand delivery.

**14. IMPACT AREA:**

For each jurisdictional area that will be/has been impacted, provide square feet and, if applicable, linear feet of impact

*Permanent: impacts that will remain after the project is complete.*

*Temporary: impacts not intended to remain (and will be restored to pre-construction conditions) after the project is complete.*

JURISDICTIONAL AREA	PERMANENT Sq. Ft. / Lin. Ft.	TEMPORARY Sq. Ft. / Lin. Ft.
Forested wetland	<input type="checkbox"/> ATF	<input type="checkbox"/> ATF
Scrub-shrub wetland	<input type="checkbox"/> ATF	<input type="checkbox"/> ATF
Emergent wetland	<input type="checkbox"/> ATF	<input type="checkbox"/> ATF
Wet meadow	<input type="checkbox"/> ATF	<input type="checkbox"/> ATF
Intermittent stream	<input type="checkbox"/> ATF	<input type="checkbox"/> ATF
Perennial Stream / River	/ <input type="checkbox"/> ATF	/ <input type="checkbox"/> ATF
Lake / Pond	/ <input type="checkbox"/> ATF	/ <input type="checkbox"/> ATF
Bank - Intermittent stream	/ <input type="checkbox"/> ATF	/ <input type="checkbox"/> ATF
Bank - Perennial stream / River	/ <input type="checkbox"/> ATF	/ <input type="checkbox"/> ATF
Bank - Lake / Pond	/ <input type="checkbox"/> ATF	/ <input type="checkbox"/> ATF
Tidal water	/ <input type="checkbox"/> ATF	/ <input type="checkbox"/> ATF
Salt marsh	<input type="checkbox"/> ATF	<input type="checkbox"/> ATF
Sand dune	<input type="checkbox"/> ATF	<input type="checkbox"/> ATF
Prime wetland	<input type="checkbox"/> ATF	<input type="checkbox"/> ATF
Prime wetland buffer	<input type="checkbox"/> ATF	<input type="checkbox"/> ATF
Undeveloped Tidal Buffer Zone (TBZ)	<input type="checkbox"/> ATF	<input type="checkbox"/> ATF
Previously-developed upland in TBZ	<input type="checkbox"/> ATF	<input type="checkbox"/> ATF
Docking - Lake / Pond	<input type="checkbox"/> ATF	<input type="checkbox"/> ATF
Docking - River	<input type="checkbox"/> ATF	<input type="checkbox"/> ATF
Docking - Tidal Water	135 <input type="checkbox"/> ATF	<input type="checkbox"/> ATF
Vernal Pool	<input type="checkbox"/> ATF	<input type="checkbox"/> ATF
<b>TOTAL</b>	/	/

**15. APPLICATION FEE:** See the Instructions & Required Attachments document for further instruction

Minimum Impact Fee: Flat fee of \$ 200

Minor or Major Impact Fee: Calculate using the below table below

Permanent and Temporary (non-docking) \_\_\_\_\_ sq. ft. X \$0.20 = \$ \_\_\_\_\_

Temporary (seasonal) docking structure: **135** sq. ft. X \$1.00 = **\$ 135**

Permanent docking structure: \_\_\_\_\_ sq. ft. X \$2.00 = \$ \_\_\_\_\_

**Projects proposing shoreline structures (including docks) add \$200 = \$ \_\_\_\_\_**

Total = **\$ 135**

The Application Fee is the above calculated Total or \$200, whichever is greater = **\$ 200**

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

NHDES Wetlands Bureau, 29 Hazen Drive, PO Box 95, Concord, NH 03302-0095

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



**WETLANDS PERMIT APPLICATION – ATTACHMENT A  
MINOR AND MAJOR - 20 QUESTIONS**  
Land Resources Management  
Wetlands Bureau



Check the Status of your application: [www.des.nh.gov/onestop](http://www.des.nh.gov/onestop)

RSA/ Rule: RSA 482-A, Env-Wt 100-900

<p><b><u>Env-Wt 302.04 Requirements for Application Evaluation</u></b> - For any major or minor project, the applicant shall demonstrate by plan and example that the following factors have been considered in the project's design in assessing the impact of the proposed project to areas and environments under the department's jurisdiction. Respond with statements demonstrating:</p>
<p>1. The need for the proposed impact.</p> <p>The proposed kayak launch addition will enable the town to accommodate safe entry/exist of the river without the users entering the river. We have included a future proposal of adding a 6'6" x 10' fishing platform with railings should the Town ordinances be amended to allow fishing from the dock.</p>
<p>2. That the alternative proposed by the applicant is the one with the least impact to wetlands or surface waters on site.</p>

The proposed kayak launch is designed to attach to our existing dock system, will be removed seasonally with the docks, and will enable kayakers access to the river without wading in from the boat launch area and boarding the kayak, thereby avoiding entry of the river completely. This will have a benefit of preventing disturbance of the river substrate .

3. The type and classification of the wetlands involved.

**Tidal waters**

4. The relationship of the proposed wetlands to be impacted relative to nearby wetlands and surface waters.

**The project is proposed for location within the Squamscott River, adjacent to an existing seasonal dock.**

5. The rarity of the wetland, surface water, sand dunes, or tidal buffer zone area.



**There is no rarity of this type of water.**

6. The surface area of the wetlands that will be impacted.

**135 square feet**

7. The impact on plants, fish and wildlife including, but not limited to:

- a. Rare, special concern species;
- b. State and federally listed threatened and endangered species;
- c. Species at the extremities of their ranges;
- d. Migratory fish and wildlife;
- e. Exemplary natural communities identified by the DRED-NHB; and
- f. Vernal pools.

NH Natural Heritage was consulted in association with this application and determined that though there is a data record within the vicinity, no impacts would be expected in association with this proposal.

8. The impact of the proposed project on public commerce, navigation and recreation.

**None**

9. The extent to which a project interferes with the aesthetic interests of the general public. For example, where an applicant proposes the construction of a retaining wall on the bank of a lake, the applicant shall be required to indicate the type of material to be used and the effect of the construction of the wall on the view of other users of the lake.

**None**

10. The extent to which a project interferes with or obstructs public rights of passage or access. For example, where the applicant proposes to construct a dock in a narrow channel, the applicant shall be required to document the extent to which the dock would block or interfere with the passage through this area.

**None**

11. The impact upon abutting owners pursuant to RSA 482-A:11, II. For example, if an applicant is proposing to rip-rap a stream, the applicant shall be required to document the effect of such work on upstream and downstream abutting properties.

**None. A docking structure is currently in place. This will accomodate a use that is already occurring.**

12. The benefit of a project to the health, safety, and well being of the general public.

**Reduces the need for people to enter the water in order to board their kayaks, preventing disturbance of river bottom while creating a safe entry into and exit from their kayaks/boats.**

13. The impact of a proposed project on quantity or quality of surface and ground water. For example, where an applicant proposes to fill wetlands the applicant shall be required to document the impact of the proposed fill on the amount of drainage entering the site versus the amount of drainage exiting the site and the difference in the quality of water entering and exiting the site.

**None. As stated previously, by providing a safe entry into boats from the Town's seasonal dock without wading into the river, it is anticipated this would reduce distubance of this ongoing activities.**

14. The potential of a proposed project to cause or increase flooding, erosion, or sedimentation.

**None**

15. The extent to which a project that is located in surface waters reflects or redirects current or wave energy which might cause damage or hazards.

**None, or potential dissipation of energy by introducing angled areas and creating a "rougher or more jagged" surface**

16. The cumulative impact that would result if all parties owning or abutting a portion of the affected wetland or wetland complex were also permitted alterations to the wetland proportional to the extent of their property rights. For example, an applicant who owns only a portion of a wetland shall document the applicant's percentage of ownership of that wetland and the percentage of that ownership that would be impacted.

**Because of the small size of this project and the presence of docks in the area, we believe cumulative impacts would be minimal. In addition since this provides access for the public, this proposal could reduce the likelihood that abutters would need to install a similar system.**

17. The impact of the proposed project on the values and functions of the total wetland or wetland complex.

**This proposal adds a minimal amount of surface area to the existing docking system so it is unlikely to create a major impact on the functions and values of the Squamscott River.**

18. The impact upon the value of the sites included in the latest published edition of the National Register of Natural Landmarks, or sites eligible for such publication.



**None**

19. The impact upon the value of areas named in acts of congress or presidential proclamations as national rivers, national wilderness areas, national lakeshores, and such areas as may be established under federal, state, or municipal laws for similar and related purposes such as estuarine and marine sanctuaries.

**None**

20. The degree to which a project redirects water from one watershed to another.

**None**

Additional comments



**US Army Corps  
of Engineers**®  
New England District

**New Hampshire General Permits (GPs)  
Appendix B - Corps Secondary Impacts Checklist  
(for inland wetland/waterway fill projects in New Hampshire)**

1. Attach any explanations to this checklist. Lack of information could delay a Corps permit determination.
2. All references to “work” include all work associated with the project construction and operation. Work includes filling, clearing, flooding, draining, excavation, dozing, stumping, etc.
3. See GC 5, regarding single and complete projects.
4. Contact the Corps at (978) 318-8832 with any questions.

1. Impaired Waters	Yes	No
1.1 Will any work occur within 1 mile upstream in the watershed of an impaired water? See <a href="http://des.nh.gov/organization/divisions/water/wmb/section401/impaired_waters.htm">http://des.nh.gov/organization/divisions/water/wmb/section401/impaired_waters.htm</a> to determine if there is an impaired water in the vicinity of your work area.*	x	
2. Wetlands	Yes	No
2.1 Are there are streams, brooks, rivers, ponds, or lakes within 200 feet of any proposed work?	x	
2.2 Are there proposed impacts to SAS, special wetlands. Applicants may obtain information from the NH Department of Resources and Economic Development Natural Heritage Bureau (NHB) DataCheck Tool for information about resources located on the property at <a href="https://www2.des.state.nh.us/nhb_datacheck/">https://www2.des.state.nh.us/nhb_datacheck/</a> . The book <a href="#">Natural Community Systems of New Hampshire also contains specific information about the natural communities found in NH.</a>		x
2.3 If wetland crossings are proposed, are they adequately designed to maintain hydrology, sediment transport & wildlife passage?		NA
2.4 Would the project remove part or all of a riparian buffer? (Riparian buffers are lands adjacent to streams where vegetation is strongly influenced by the presence of water. They are often thin lines of vegetation containing native grasses, flowers, shrubs and/or trees that line the stream banks. They are also called vegetated buffer zones.)		x
2.5 The overall project site is more than 40 acres?		x
2.6 What is the area of the previously filled wetlands?		
2.7 What is the area of the proposed fill in wetlands?	1355F	
2.8 What is the % of previously and proposed fill in wetlands to the overall project site?		
3. Wildlife	Yes	No
3.1 Has the NHB & USFWS determined that there are known occurrences of rare species, exemplary natural communities, Federal and State threatened and endangered species and habitat, in the vicinity of the proposed project? (All projects require an NHB ID number & a USFWS IPAC determination.) NHB DataCheck Tool: <a href="https://www2.des.state.nh.us/nhb_datacheck/">https://www2.des.state.nh.us/nhb_datacheck/</a> USFWS IPAC website: <a href="https://ecos.fws.gov/ipac/location/index">https://ecos.fws.gov/ipac/location/index</a>	x Impacts not likely	

3.2 Would work occur in any area identified as either “Highest Ranked Habitat in N.H.” or “Highest Ranked Habitat in Ecological Region”? (These areas are colored magenta and green, respectively, on NH Fish and Game’s map, “2010 Highest Ranked Wildlife Habitat by Ecological Condition.”) Map information can be found at: <ul style="list-style-type: none"> <li>• PDF: <a href="http://www.wildlife.state.nh.us/Wildlife/Wildlife_Plan/highest_ranking_habitat.htm">www.wildlife.state.nh.us/Wildlife/Wildlife_Plan/highest_ranking_habitat.htm</a>.</li> <li>• Data Mapper: <a href="http://www.granit.unh.edu">www.granit.unh.edu</a>.</li> <li>• GIS: <a href="http://www.granit.unh.edu/data/downloadfreedata/category/databycategory.html">www.granit.unh.edu/data/downloadfreedata/category/databycategory.html</a>.</li> </ul>		X
3.3 Would the project impact more than 20 acres of an undeveloped land block (upland, wetland/waterway) on the entire project site and/or on an adjoining property(s)?		X
3.4 Does the project propose more than a 10-lot residential subdivision, or a commercial or industrial development?		X
3.5 Are stream crossings designed in accordance with the GC 21?		NA
<b>4. Flooding/Floodplain Values</b>	Yes	No
4.1 Is the proposed project within the 100-year floodplain of an adjacent river or stream?		X
4.2 If 4.1 is yes, will compensatory flood storage be provided if the project results in a loss of flood storage?		NA
<b>5. Historic/Archaeological Resources</b>		
For a minimum, minor or major impact project - a copy of the Request for Project Review (RPR) Form ( <a href="http://www.nh.gov/nhdhr/review">www.nh.gov/nhdhr/review</a> ) with your DES file number shall be sent to the NH Division of Historical Resources as required on Page 11 GC 8(d) of the GP document**		

\*Although this checklist utilizes state information, its submittal to the Corps is a Federal requirement.

\*\* If your project is not within Federal jurisdiction, coordination with NH DHR is not required under Federal law.

## **NH Natural Heritage Bureau Report**



NEW HAMPSHIRE NATURAL HERITAGE BUREAU  
NHB DATACHECK RESULTS LETTER

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**To:** Kristen Murphy, Town of Exeter - Planning Dept  
10 Front Street, Town of Exeter, Planning Department  
Town of Exeter, Planning Department  
Exeter, NH 03833

**From:** NH Natural Heritage Bureau

**Date:** 7/23/2018 (valid for one year from this date)

**Re:** Review by NH Natural Heritage Bureau of request submitted 6/28/2018

**NHB File ID:** NHB18-2030

**Applicant:** Kristen Murphy

**Location:** Exeter  
Tax Maps: 64 47

**Project**

**Description:** Add a seasonal floating kayak launch to our existing public dock

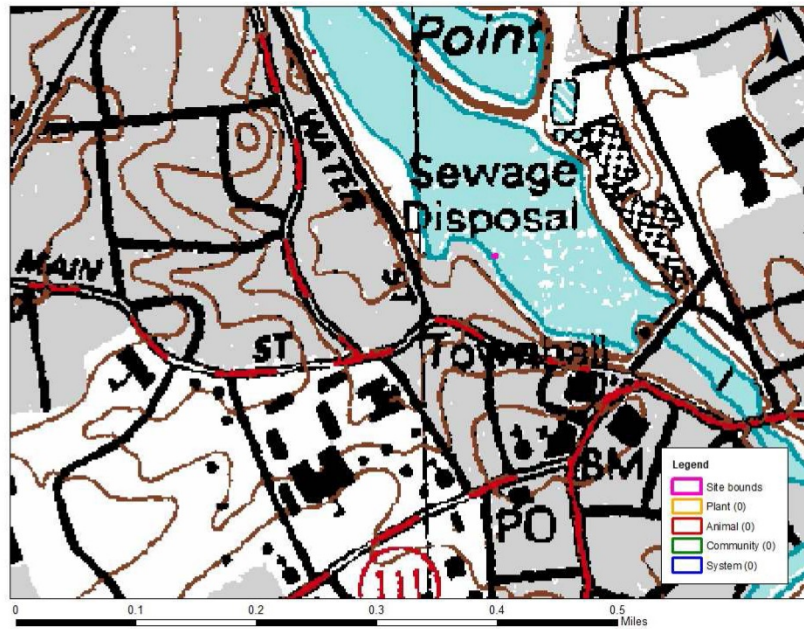
The NH Natural Heritage database has been checked by staff of the NH Natural Heritage Bureau and/or the NH Nongame and Endangered Species Program for records of rare species and exemplary natural communities near the area mapped below. The species considered include those listed as Threatened or Endangered by either the state of New Hampshire or the federal government.

It was determined that, although there was a NHB record (e.g., rare wildlife, plant, and/or natural community) present in the vicinity, we do not expect that it will be impacted by the proposed project. This determination was made based on the project information submitted via the NHB Datacheck Tool on 6/28/2018, and cannot be used for any other project.



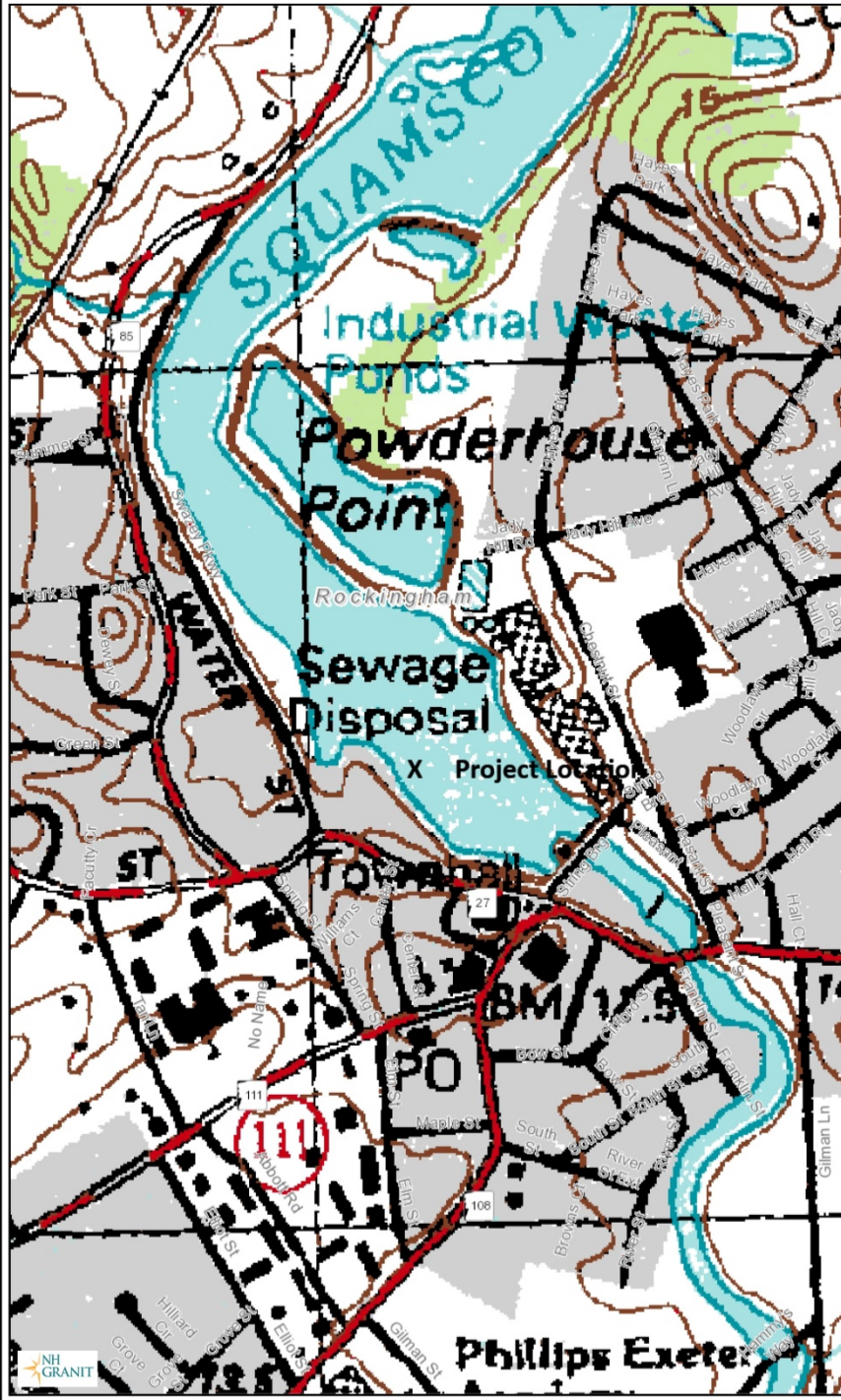
MAP OF PROJECT BOUNDARIES FOR: **NHB18-2030**

**NHB18-2030**





Map by NH GRANIT



Legend

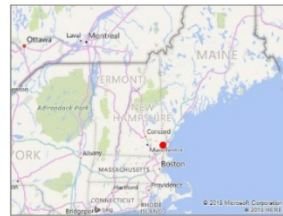
- State
- County
- City/Town

Map Scale  
1: 6,494



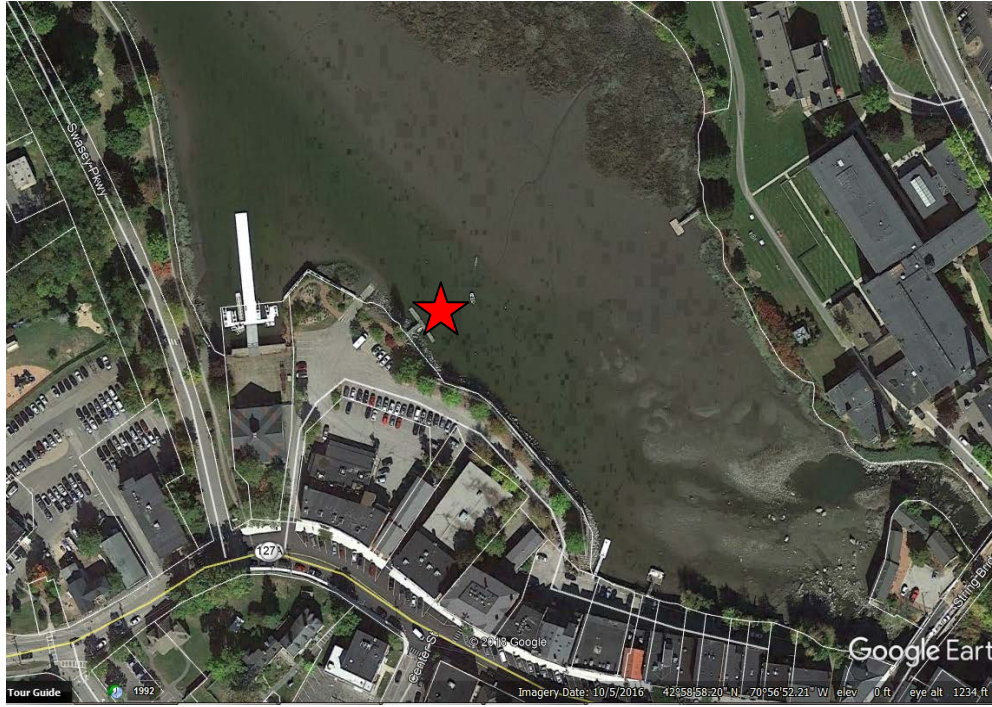
© NH GRANIT, www.granit.unh.edu  
Map Generated: 6/28/2018

Notes



## **PHOTOS**

### **1. AERIAL VIEW**

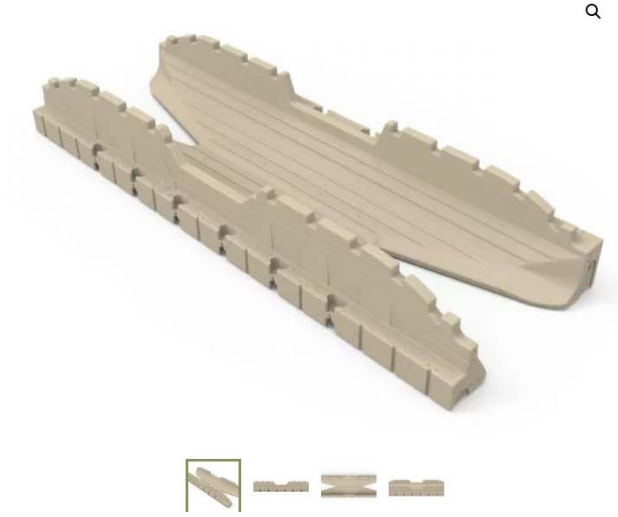


### **2. PROJECT LOCATION**





### 3. MANUFACTURERS IMAGE OF KAYAK LAUNCH ADDITION



Q

## EZ KAYAK LAUNCH

SKU# 200900 | Category: EZ Kayak Launch

DIMENSIONS: 58.5" W x 168" L x 25" H

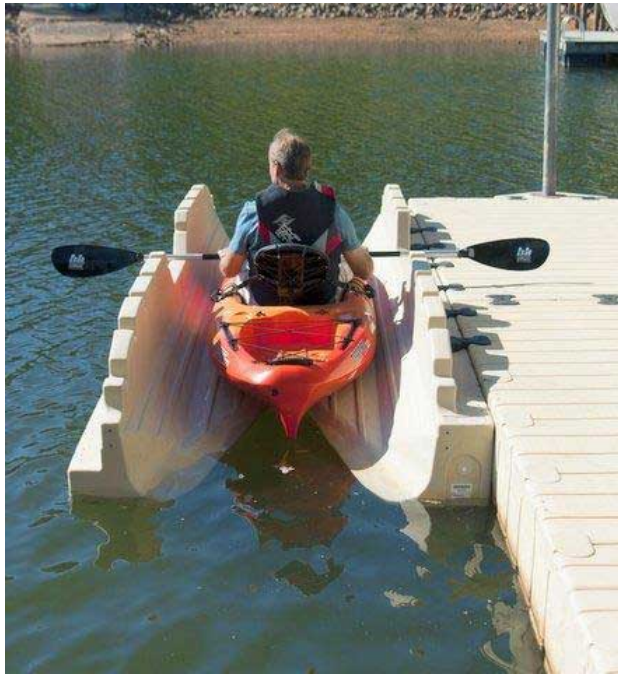
#### DESCRIPTION

The EZ Kayak Launch was designed from the ground up to provide a new level of stability, security and simplicity for kayakers and canoes. Its one-piece construction, integrated paddle notches and v-shaped entry make launching and docking safe, easy and dry, even as water levels change.

1

ADD TO QUOTE

### 4. STOCK IMAGES OF KAYAK LAUNCH ADDITION



## 5. TAX MAP



## 6. **SAMPLE ABUTTER NOTIFICATION**

***Via Certified Mail***

July 2, 2018

Abutter's Name  
Mailing Address  
City, State, Zip Code

### **Re: NHDES Wetlands Permit Application**

Water Street Seasonal Dock  
Exeter, NH  
Project's Tax Map 64 / Lot No. 47

Dear Sir or Madam:

This letter is to inform you that a Wetlands Permit Application will be submitted to the NH Department of Environmental Services (NHDES) Wetland Bureau for a *Wetlands and Non-Site Specific Permit* to add a seasonal floating kayak launch to the Town's existing seasonal dock. Under state law RSA 482-A:3 I (d)(1), via certified mail, I am required to notify you about this wetlands permit application which proposes work abutting your property.

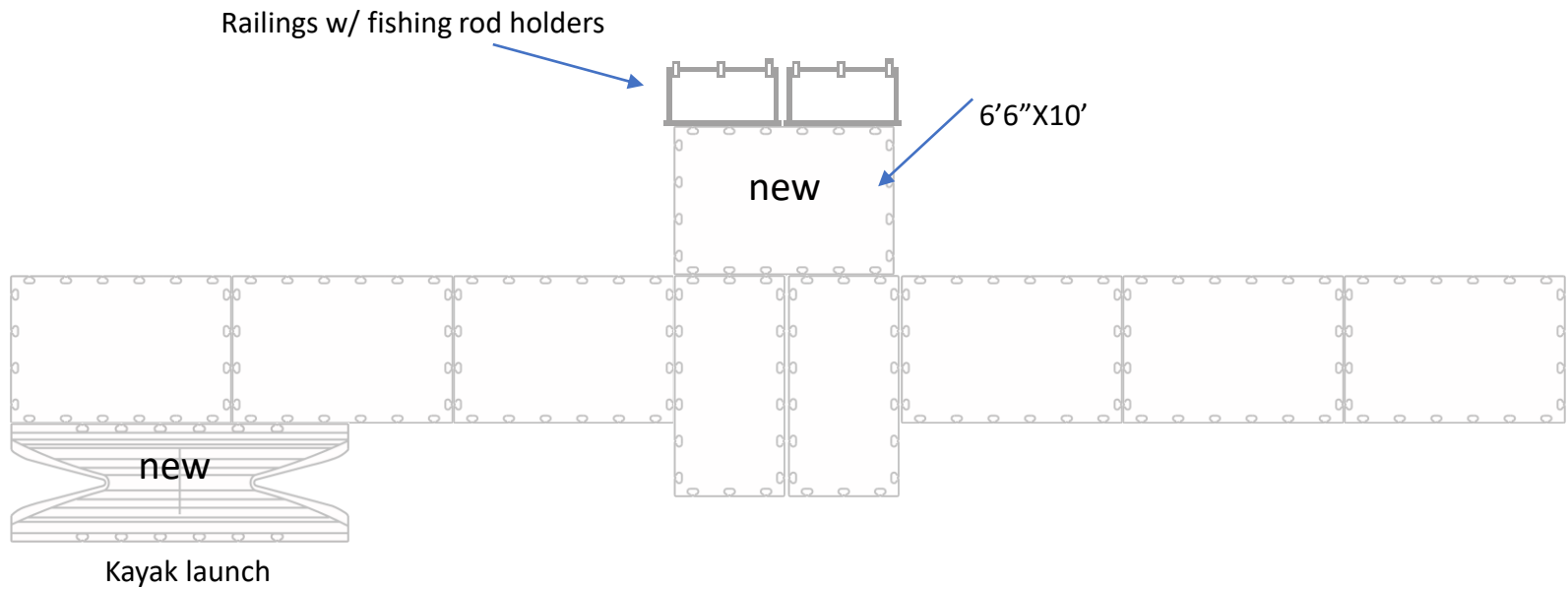
Once the permit application is submitted to NHDES, a copy of the permit application, including the plans associated with the project proposal, will be available for public review at the City or Town Clerk's Office within the City/Town where the proposed project is located. A copy of the permit application, including the plans associated with the project proposal, can also be reviewed at the NHDES headquarters in Concord by scheduling a file review by calling (603) 271- 8808 or visiting online at:

[www4.egov.nh.gov/DES/FileReview](http://www4.egov.nh.gov/DES/FileReview).

If you have questions, you may contact [me / my agent] at the contact information provided below.

Sincerely,

Greg Bisson, Acting Director  
Exeter Parks and Rec Department  
32 Court Street  
Exeter, NH 03833  
(603) 773-6151  
gbisson@exeternh.gov



MODULAR

VERSATILE

MAINTENANCE FREE

DURABLE

SAFE



# Exeter Kayak & Fishing platform

MADE IN USA





*BY-LAWS OF THE EXETER CONSERVATION COMMISSION*

**Article I: Name and Location**

The name of this (voluntary, non-profit,) organization shall be the Exeter Conservation Commission (hereafter called The Commission). The principal office of The Commission shall be located at The Exeter Town Office Building, 10 Front Street, Exeter, New Hampshire.

**Article II: Authority**

Established in March 1965 by a vote at Exeter Town Meeting, the Commission derives its authority from State Law RSA 36-A and from the Town of Exeter Ordinances. Nothing in these by-laws is intended to conflict with these.

**Article III: Purposes**

1. To ensure the conservation and proper utilization of the natural resources and the protection of watershed resources of the Town of Exeter.
2. To advise other Town boards and State agencies on conservation and natural resource matters as defined by local and state regulations.
3. To acquire land for fee (full title) or through conservation easement for conservation purposes and to receive gifts of money or property in the name of the Town. This may include water resources. The Commission will then manage these areas.
4. To manage duly authorized town forests.
5. To conduct research into local land and water natural resources to ascertain their value for conservation purposes.
6. To keep the public informed as to actions taken and lands available for public use through maps, signs, charts, plans, and pamphlets.
7. To intervene when appropriate within 10 days of a dredge and fill of wetlands application, and to investigate and report its findings and recommendations within 40 days to the NH Wetlands Board.(RSA 483A)
8. To receive copies of sand and gravel excavation permit applications and make necessary comments and recommendations to the proper board.(RSA 155-E)
9. To advise the Planning Board on Conditional Use Permits
10. To monitor open space and conservation lands, including easements for compliance with the deed.
11. To conduct or sponsor activities which foster conservation education.
12. To assist in the Town's Master Plan up-date.
13. To attend workshops, informational meetings and conferences so that the Commission is adequately informed about conservation issues.

**Article IV: Membership**

**1. Membership And Terms Of Office**

- A. Regular Members: A full Commission shall consist of seven (7) regular members, appointed by the Board of Selectmen for three-year terms. Terms shall be arranged so that approximately one-third of the members' terms expire yearly. Members may serve no more than two consecutive three-year terms and are eligible for alternate member position after maximum terms are served. The appointment of members shall conform to terms and requirements of RSA 36-A.
- B. Alternates: The Board of Selectmen may appoint five (5) alternate members. Upon designation of the Chair, alternate members may serve in place of a regular member in the event of absence or recusal. The terms for alternates shall be the same as for regular members.
- C. New members shall file an application with the Town Manager's Office and will be contacted for an interview by the Board of Selectmen. All members must be residents of Exeter.
- D. The Natural Resource Planner participates as an advisor to the Commission but does not vote.

*BY-LAWS OF THE EXETER CONSERVATION COMMISSION*

**2. Election Of Officers**

Officers for the Commission shall be elected each May for a term of one year and may serve consecutive terms.

**3. Absenteeism**

- A. Members are expected to attend all monthly meetings unless the Chair is notified in advance.
- B. Unexcused absence from four meetings may result in a letter being sent to the regular member or alternate in question. If no reply is forthcoming in a reasonable amount of time (usually one month), the member will be requested to submit his or her resignation and the Selectmen will be so notified to select a replacement.

**Article V: Responsibilities of Offices**

**1. Chairperson**

- A. It shall be the duty of the Chair, or his/her designate, to notify in advance all members of the Commission of any scheduled meeting. The Chair is also responsible for finalizing agenda for the meeting listing issues to be discussed.
- B. The Chair shall run the meeting and assign the floor to those speakers who request it.
- C. The Chair may take part in any discussions relative to the business at hand and will rule on any disputes that arise during debates.

**2. Vice-Chairperson**

- A. The Vice-Chair shall preside at all meetings of the Commission in the absence of the Chair and shall perform all duties and have all powers of the Chair in case of temporary absence or incapacity of the Chair.

**3. Clerk**

- A. In the absence of administrative staff, the Clerk shall keep an accurate record of the meetings and other proceedings of the Commission
- B. In accordance with RSA 91-A:2, a typed copy of the minutes shall be made available for public inspection not more than 5 business days after the meeting, and a copy brought to the Town Clerk's Office.
- C. In the absence of administrative staff, the Clerk shall be responsible for correspondence designated by the Commission.

**4. Treasurer**

- A. The Treasurer ensures all monies received by the Commission is accounted for and deposited into the Conservation Fund and disbursed from that account only with proper authorization by official vote of The Commission.
- B. The Treasurer shall report on the status of the Commissions monies at meetings of the Commission not less than quarterly and file a copy of that report with the Planning Department of the Town of Exeter.
- C. The Treasurer, with support of the Natural Resource Planner, is responsible for preparing the annual budget request.

*BY-LAWS OF THE EXETER CONSERVATION COMMISSION*

**Article VI: Committees**

**1. The Raynes Farm Stewardship Sub-Committee**

- A. **Objectives:** This committee is advisory to the Commission and shall:
- (i) Help identify and prioritize preservation and public use objectives for Commission review.
  - (ii) The Conservation Commission serves as the primary contact person for inquiries regarding the property and may call upon the Stewardship Committee to advise, particularly in maintaining the Town's relationship with the farmers who lease the farmland and barn.
  - (iii) Review the LCHIP monitoring report, the farmer-Commission lease agreement, and the Raynes Farm Long Range Development Plan. Any suggestions for changes are agreed upon by the Committee and shall be submitted to The Commission for their approval.
  - (iv) Provide recommendations to the Conservation Commission on implementation of projects that have budgetary impacts.
- B. **Membership:** This committee shall consist of at least 5 members including 2 representatives from The Commission, a member of the Exeter Historical Society, a member of the Public Works Department and private citizens. In addition, any individuals leasing the land will also be a part of the committee but will not vote when decisions concerning their lease are discussed. Other members may be appointed by the Commission from the town at large with the goal of furthering the objectives of the Long Range Development Plan.
- C. **Procedures:** The committee shall elect its own chair annually. The committee shall meet at least annually for the purposes of reviewing the LCHIP monitoring report, the Farmer-Commission lease agreement, and the progress with projects identified in the Raynes Farm Long Range Development Plan.

**2. Trails Sub-Committee**

- A. **Objectives:** This committee is advisory to The Commission and shall:
- (i) Oversee the creation and maintenance of trails on Conservation Lands in accordance with the trail management plan and advise The Commission on actions that need to be taken.
  - (ii) Submit a list of recommended trail projects to the Commission each year in order to meet budget planning schedules.
- B. **Membership:** This committee shall consist of at least 2 representatives from The Commission. Other members may include both residents and non-resident users of the trail network with the goal of having representation from a diversity of recreational uses and furthering the intent of the Trail Plan.
- C. **Procedures:** The committee shall meet at least 2 times a year to identify and prioritize trail projects needs and as needed to further the objectives of the trail management plan.

**3. Ad Hoc Committees**

- A. Ad Hoc committees may be appointed by the Chair of the Commission as the need arises. At least one member of the Commission shall serve on each committee.

**Article VII: Operating Procedures**

**1. Meetings**

- A. Public notice of Commission Meetings must be posted in two public places, such as the Town Offices, the Town's website, or the Library 24 hours prior to the meeting. The notice shall be published according to State law RSA 91, a copy of which is available in the Conservation Commission Handbook.

*BY-LAWS OF THE EXETER CONSERVATION COMMISSION*

- B. At the discretion of the Chair there shall be not less than one regular meeting of the Commission each month. Such meetings will be held in the Town Offices on the second Tuesday of each month at 7:00 p.m. unless otherwise specified by the Commission or the Chair prior to the second Tuesday.
- C. Special meetings may be held, if necessary, at the discretion of the Chair. They may also be called by the Commission on a majority vote of the members for a special purpose. At any special meeting, no business other than that specified by the Commission may be considered.
- D. Individual notification of each Commission member by the Chair shall be given not less than five days before the date of any special meeting.
- E. A majority of the members of the Commission then in office shall constitute a quorum for the transaction of any business.
- F. It is the responsibility of the Chair to convey to the appropriate State, County or Town board or commission recommendations passed by the Commission.

**2. Public Hearings**

- A. A public hearing must be held before any money from Conservation funds are used to acquire "any interest in real property"(RSA 36-A:5 II). A public hearing may be held to solicit opinions on other issues deemed important by the Commission.
- B. Notice for such a meeting must be posted in two public places and in a newspaper "of general circulation in the municipality" at least 10 days before the hearing, counting neither the day of posting or the day of the hearing. (RSA 675:7)
- C. Conduct of the meeting should follow the procedure outlined on p. III-4 of the Handbook for Municipal Conservation Commissions in New Hampshire.
- D. Minutes of the meeting should include the members of the commission present, those who testified and a summary of their positions. These minutes should be distributed in the same manner as regular minutes, described in Article V, Section 3B.

**3. Dredge and Fill Applications**

- A. Upon receipt of a copy of an application to dredge and fill wetlands from the Town clerk, per RSA 482-A:3 (except for agricultural and minimum impact applications as noted in D below), the Natural Resource Planner on behalf of the Chair shall send a letter of intervention to the wetlands board asking for an additional 30 days for review if a regularly scheduled meeting will not meet review deadlines.
- B. The Commission may hold public hearings, public informational meetings and/or conduct site walks as part of its review. The application must be discussed, and a decision made as to its impact, at a regular meeting of the Commission.
- C. A final letter of recommendations shall be sent to the wetlands board.
- D. Upon receipt of agricultural wetlands or minimal impact applications, the Commission shall review the application and sign the supplied forms in accordance with State procedures if expedited review is supported by the Commission.

*BY-LAWS OF THE EXETER CONSERVATION COMMISSION*

**4. Review of Sand and Gravel Excavations**

- A. Upon receipt of a copy of an application for a permit to excavate, per RSA 155-E, the Commission will review the application as to its impact on the natural resources of the area.
- B. The Commission may hold public hearings, public informational meetings and/or conduct site walks as part of its review. The application must be discussed, and a decision made as to its impact, at a regular meeting of the Commission.
- C. A final letter of recommendations shall be sent to the Planning Board.

**5. Request from Planning Board, Zoning Board or Technical Review Committee for Advice or Review.**

- A. Upon receipt of a Conditional Use Permit application or request for input or review by any Town board or committee, the Commission shall review the request and respond appropriately.
- B. For projects that appear before the Commission prior to other land use boards, The Commission shall provide written recommendations to those Boards for consideration.

**6. By-laws**

- A. These By-laws shall be reviewed annually and revised as needed by a majority vote of the Commission.

# Mowing Proposal for the Irvine-Hayes Conservation Area

Submitted to the Exeter Conservation Commission

By Fields of Dreams Mowing and Reclamation 07-27-18



EXETERNEW HAMPSHIRE

## Conservation Commission



Fields of Dreams Mowing and  
Reclamation LLC

David O'Hearn  
fieldsofdreamsmowing@hotmail.com  
603-770-3905

fieldsofdreamsmowing.com  
9 Hale St.  
Exeter, NH 03833





Mowing \$500

Three trees cut \$50 each.

Brush stacked on site.

Trees cut into 4' sections on site.

Pine Tree





## Aspen trees



Thank you for the opportunity to bid.

# Mowing Proposal for the Morrissette Conservation Area

Submitted to the Exeter Conservation Commission

By Fields of Dreams Mowing and Reclamation 07-27-18



EXETERNEW HAMPSHIRE

## Conservation Commission

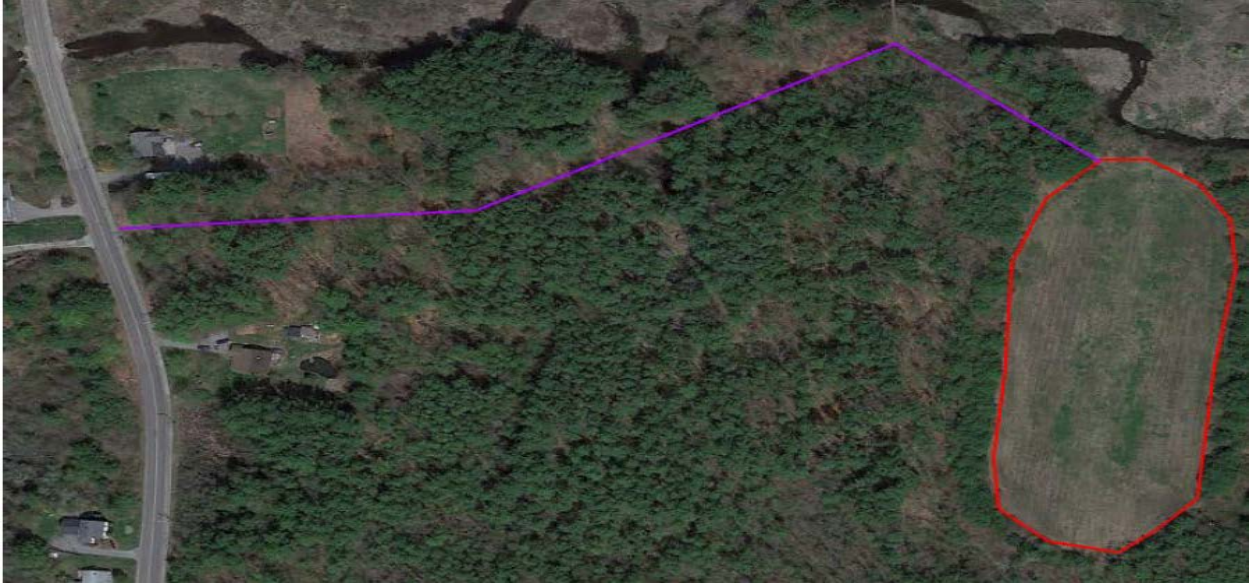


Fields of Dreams Mowing and  
Reclamation LLC

David O'Hearn  
fieldsofdreamsmowing@hotmail.com  
603-770-3905

fieldsofdreamsmowing.com  
9 Hale St.  
Exeter, NH 03833





Mowing road and the whole field \$475

Mowing road and half the field \$250

One tree cut \$100.

Brush stacked on site. Tree cut into 4' sections on site.

Aspen tree



Thank you for the opportunity to bid.

# Mowing Proposal for the Perry and White's Meadow Conservation Area

Submitted to the Exeter Conservation Commission

By Fields of Dreams Mowing and Reclamation 07-27-18



EXETERNEW HAMPSHIRE

## Conservation Commission



Fields of Dreams Mowing and  
Reclamation LLC

David O'Hearn  
fieldsofdreamsmowing@hotmail.com  
603-770-3905

fieldsofdreamsmowing.com  
9 Hale St.  
Exeter, NH 03833





Mowing Proposal for the Perry and White's Meadow  
Conservation Area

Perry Land only \$250

Mowing both fields \$850

Subject to getting around the ditch in the trail to White's  
Meadow.

Alternate route sent to Ms. Murphy and Mr. Campbell  
White's Meadow mowing subject to dry soil conditions.

Thank you for the opportunity to bid.



# Legend

- 8\_6\_2018
- 7\_17\_18
- 7\_15\_18
- 7\_6\_18
- 6\_26\_18

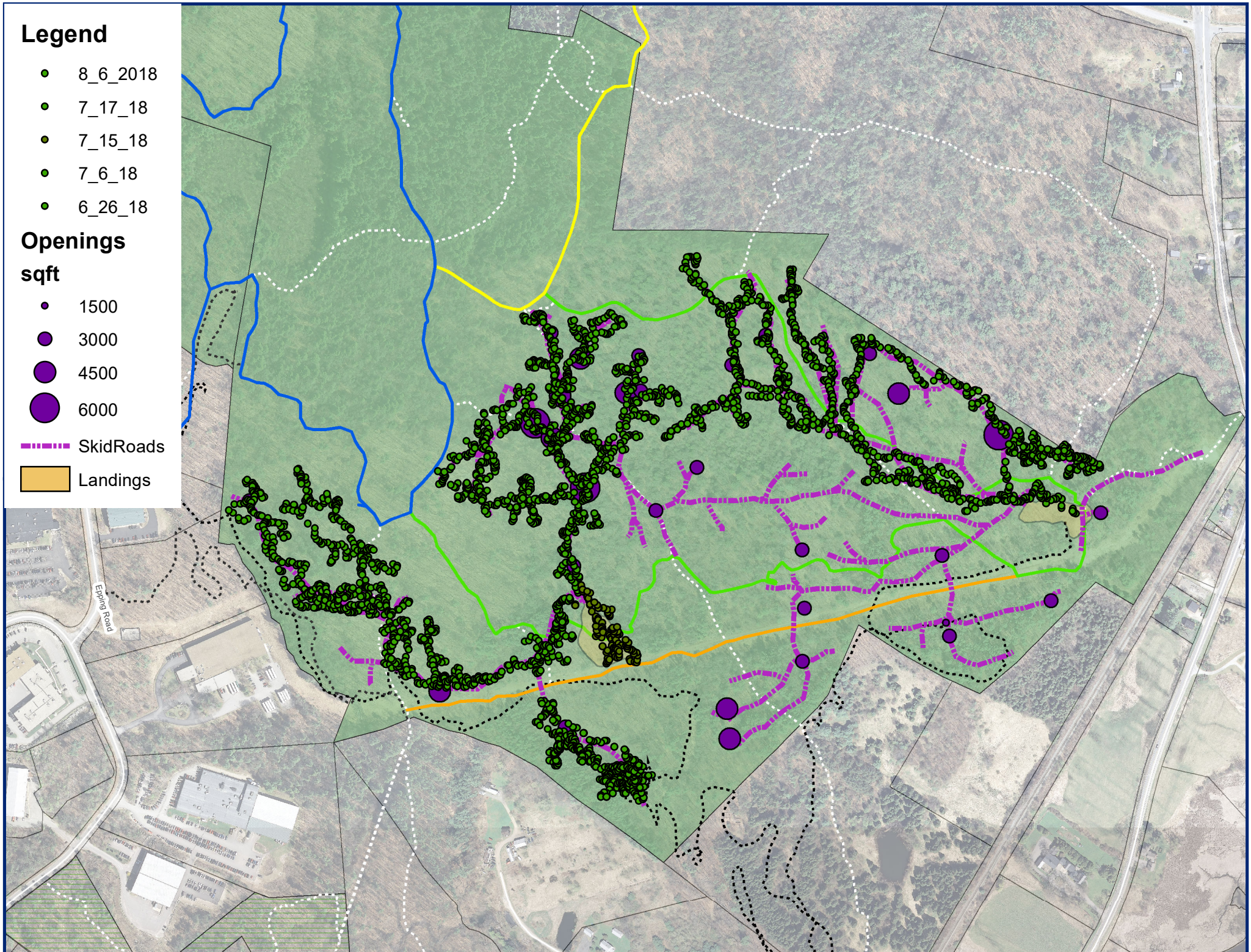
# Openings

sqft

- 1500
- 3000
- 4500
- 6000

SkidRoads

Landings





### Listing of properties in need of monitoring

The following is a list of lands that the Town either owns or has a Conservation easement on the parcel. In cases of easements, the owner of the land should be contacted before monitoring the land. Kristen has the contact information as well as maps and any other information.

#### 1. Allen Street Woodland Park and Starry Brook

Allen Street is a 9-acre parcel bordered by homes on Allen Street on the south, some commercial property on the east and the Swampscott River on the west. It was acquired by the Town with partial help from the residents of Allen Street. There are three entry ways to the parcel from Allen Street. The one at the end of Allen Street is probably the easiest to access, although the other two should be checked out. On this entry way, there is a part of a shed that we have allowed. There is a trail on the property which should be walked. The boundary on the east and south should also be checked for violations.

#### 2. Dolloff Easement and FGS land.                   **CARLOS GUINDON**

The Dolloff Easement consists of two parts, a 2-acre lot on Brentwood Road opposite the Dolloff home and an 83-acre portion on the other side of Brentwood Road in what is called The Little River Conservation area.

The 2-acre parcel has an exclusion for the Dolloff's to use the lot for a garden. We have the right to park there, the general area for that is to the left as you drive in.

The larger area can be accessed by walking down the Dolloff's driveway to the right of their house. About 200 yards in, one will pick up the trail which leads down to Dudley Brook and the site of an old mill. One should then walk the trails and the boundaries, particularly those which bound residential areas.

On the map, one will see where the FGS land abuts the Dolloff land. The 12 acres should be easily monitored along with Dolloff.

#### 3. Exeter Country Club, Irvine Conservation Area and Irvine-Hayes Marsh

The Country Club has a conservation easement on it. It is good to monitor this property along with someone from the Club, usually the groundskeeper. The Irvine land can be reached by going down the road to the maintenance house and closing the fairway to get to the property. The marsh is just to the north of the Irvine area and is largely inaccessible.

#### 4. Joseph and Nellie Swasey Conservation Easement.                   **BILL CAMPBELL**

This easement can be accessed at a point at the end of Greenleaf Drive. This property is posted against hunting and thus, some signs may need replacement. Taking some "No Hunting" signs, some aluminum nails and a hammer, in addition to a bucket or small stepladder might be taken along. There is no official trail on the property, so walking the boundary is the most likely task.

#### 5. Morrissette Property                   **GINNY RAUB**

This property has recently acquired a kiosk which is easily accessed by the bridge over Little River from the back of the SST parking lot. The trail that goes from Linden Street, past the kiosk to the skateboard park should be walked. In addition the boundary along the east side (parallel to Court Street) and the south (parallel to Gary Lane) , should be walked with a particular eye for encroachments.

6. Linden Commons

MARIE RICHEY

This property runs on the south side of the Little River between the railroad track and Linden Street. There is also an additional portion of the land on the north side of the river adjacent to the cemetery. This property is best monitored via the trail network that runs from Linden Street west to the RR with a smaller trail heading south toward the development. This portion of the trail meets the development at a site established for composting grass clippings. It is helpful to check to be sure this area is regularly mowed to encourage use by the residents.

7. McDonnell Property

TODD PISKOVITZ

The McDonnell easement can be accessed off Linden Street from the parking lot just north of the Exeter River, opposite the Exeter Landing Manufactured Home Park.

8. Raynes Land along with Lee/Diller/Renewable Resources/Thomas Lands

SALLY FIELD

The Raynes farm parking lot is accessed from Newfield's road. The boundaries should be walked, along with the trail that goes through the wooded area in the northern part of the property. The three smaller pieces, the Lee/Diller, Renewable Resources and the Thomas lands are located to the North of the Raynes land, along the Swampscott. Walk along the eastern side of the railroad tracks to access these lands.

9. Henderson Swasey Town Forest

DAVE SHORT

This property can be accessed either through the parking area off Newfield's Road and through the C3i parking lot off of Industrial Drive. This is a large area, but in need of both boundary walking and trail walking. In particular, the Deene trail, which runs off the Town forest land onto the Churchill Property, is on private property. Not everyone is aware of this, and we need to be particularly aware of any transgressions on this land. This also includes the entrance to the tunnel under Route 101.

DREW KOFF: CHENEY PROPERTY \*\*\* STRUCTURE VIOLATION-NEEDS LE ASSISTANCE





# Little River Conservation Area

Scan Code For  
A Copy Of  
This And Other  
Trail Maps



## Natural Resources

The Little River Conservation area is a 400± acre area of lands managed by the Exeter Conservation Commission for conservation and recreation purposes. This area is comprised of several Town-owned parcels and several privately-owned parcels with Town-held conservation easements.

The Conservation Area is bisected by the Little River, Dudley and Bloody Brooks, and when combined with the NH Fish and Game-managed Conner Farm wildlife Management Area to the north, extends from Brentwood Road north to Route 101. These lands include diverse freshwater and forest systems containing mixed conifer and deciduous forest, wetlands, marsh and riparian habitat.

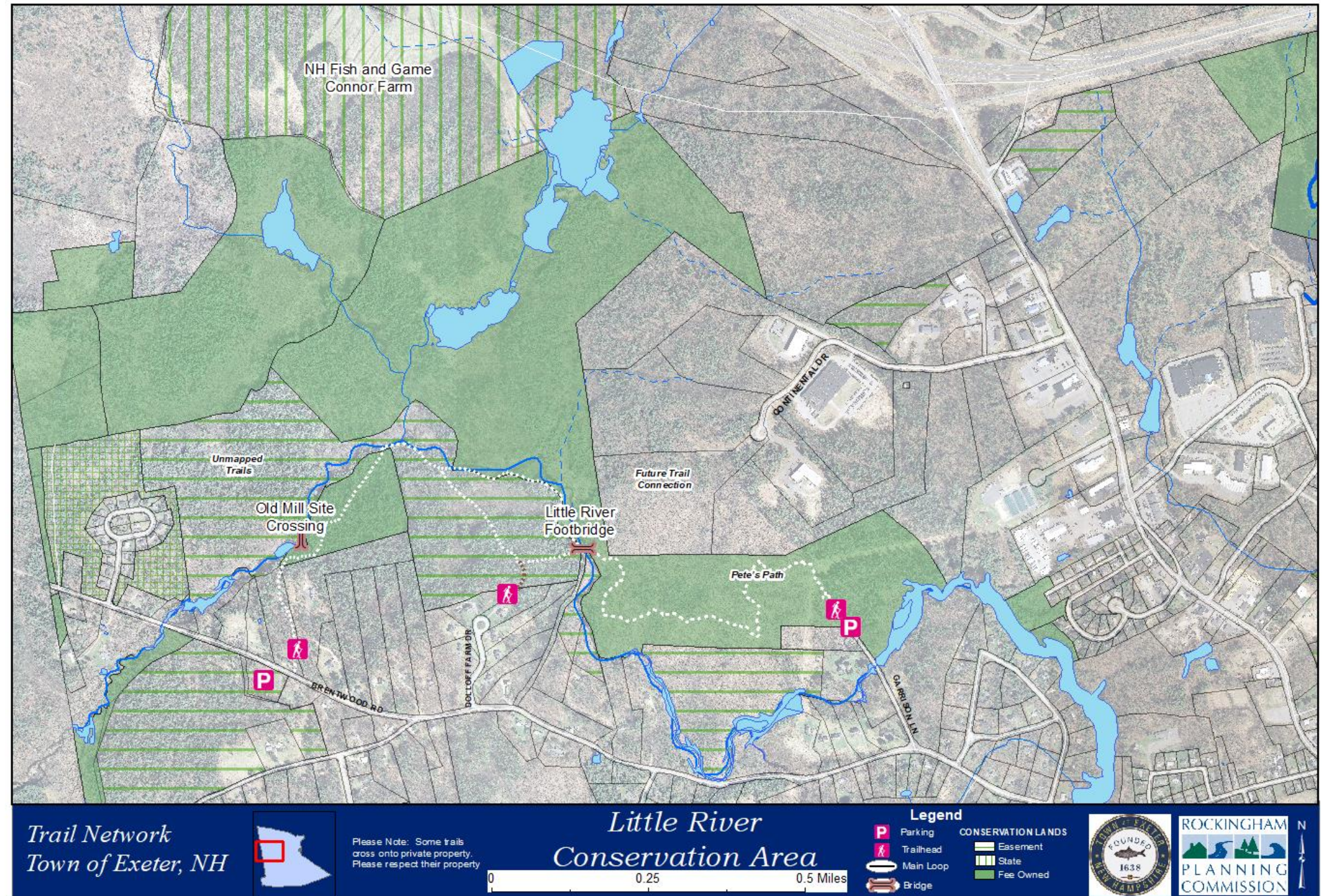
The large unfragmented block of habitat here is important for sustaining wildlife diversity, quality habitat and movement corridors for numerous of wildlife including beavers, deer, small rodents and many bird species. The large undisturbed, natural areas also create a protective buffer for this portion of the Little River watershed.

## Trail Parking

Parking can be found in the field south of the Dolloff's home at 143 Brentwood Road. After parking and carefully crossing Brentwood Road, the trail starts at the top of their driveway. Parking is also available at the end of Garrison Lane. A small trail right-of-way is accessible between 5 and 8 Dolloff Farm Drive. On the north side of the Little River footbridge, an old woods road on private land will eventually lead to Continental Drive. The Commission is working with the landowner to formalize access to Continental Drive in the future.

## The Trail Network

The 1.2 mi. main trail is marked with white blazes and meanders through woods and along the Little River, creating a loop at the Little River Footbridge. Points of interest such as the Dolloff Easement are marked along the way. Family patriarch Carroll was a nature-lover who protected their land in the 1990's. The Old Mill Site Crossing, with stone remnants of the mill, will lead to an unmapped trail meandering north to a large marsh complex. From the Little River footbridge, the trail continues 0.75 mi. to Garrison Lane along Pete's Path. This trail was designed by Peter Richardson, a former Conservation Commission member who was a strong advocate for Exeter's natural environment before his passing in 2016.



### Compatible Uses:

- Hiking
- Winter Snowshoeing/XC Skiing
- Wildlife Viewing
- Other passive recreation
- Hunting in season

Leashed dogs under their owners control are permitted. As a courtesy to others and out of respect to your trail system, please carry in - carry out all trash and clean up dog waste.

Hunting in season is permitted within the conservation area. All visitors should wear day-glow orange for safety during hunting season

### Distances:

- 0.25 mi. Brentwood Parking Lot to Old Mill Crossing
- 0.65 mi. Old Mill Site to Little River Footbridge
- 0.75 mi. Pete's Path



**REMEMBER**  
Please take only pictures  
and leave only footprints.







# MORRISSETTE CONSERVATION AREA

## NATURAL RESOURCES

The Morrissette Property is comprised of a 36 acre parcel with a small trail system connecting Linden Street to Court Street on the south side of the Little River. A small bridge north of the property over the Little River also connects this land to the YMCA, Seacoast School of Technology, and the Great Bay Charter School, providing opportunities for hands on learning experiences.

This property protects a unique combination of woodlands, shrubs, riparian river corridor and an open grassy field, supporting a wide variety of species for food, cover and breeding -- all within a short walk from downtown. In order to keep the fields open, the Conservation Commission conducts late season mowing of the land. This allows time for birds to nest and their young to disperse and allows bees and butterflies to feed off the wildflowers and allows those flowers to spread their seed before winter. Protecting a vegetated buffer along the shoreline of the Little River is also an essential component to keeping the river healthy.

Grassland and shrublands are declining habitats in the northeast. Preservation of these areas through land conservation affords long term protection for important wildlife such as the ruffed grouse, and the American woodcock whose mating flight is a welcomed sight each spring.

Scan Code For A Copy Of This And Other Trail Maps



## ACQUISITION AND HISTORY

The Morrissette Property was donated to the Town by the Exeter School District to offset impacts from the High School construction. When owned by the school, the footbridge provided access to the large open field which was formerly the football.

Prior to the school's ownership, this land was owned by Joseph and Lillian Morrissette who farmed the land. The remnants of their apple orchard are signs of its farming history. Today these apple trees are managed to provide food for deer, turkey and other wildlife.

## ACTIVITIES

The property may be enjoyed by the public for passive recreation including hiking and bird watching. Wheeled and motorized vehicles, camping and fires are prohibited. In the winter, cross-country skiing and snowshoeing enable year-round exploration of the area.

In addition, this property is included in the Conservation Commission's Trail Passport Program--a fun way for families to explore a small portion of Exeter's Conservation Lands. Passport Books and more information are available on the Town's webpage

Visitors can travel between Linden Street, the Skate park on Court Street, and continue across the street to Gilman Park and the Phillips Exeter Sports Complex.

Please be aware that the tall grass is prime habitat for ticks. Dogs are welcome but must be leashed and cleaned up after.



Photo circa 1950s courtesy of the Morrissette Family

## USE LIMITATIONS:





## Conservation Commission

7/10/18

### Draft Minutes

#### Call to Order:

##### 1. Introduction of Members Present

Sally Ward, Alyson Eberhardt, Carlos Guindon, Bill Campbell, Andrew Koff, Todd Piskovitz, Dave Short, Ginny Raub, Don Clement, and Kristin Murphy were all present. The meeting was called to order at 7:00PM by Mr. Campbell.

##### 2. Public Comment

There was no public comment at this meeting.

#### Action Items

##### 1. Standard Dredge and Fill Wetland Application for a Light Industrial/Distribution Facility from Garrison Glen, LLC located at 24 Continental. Tax Map 56, Lot 3-1. (Brendan Quigley, Gove Environmental Service, Inc.)

Brendan Quigley, from Gove Environmental Services, told the commission that no changes to the project had been made after it was approved. The project is at the end of Continental Drive, and is a heavily forested area. The wetlands in the area are marginal. The proposed project is a 116,000 square foot building with associated parking and stormwater management. The most sensitive resources are being avoided, included Little River and the shoreland protection area to the west. There are two small wetland impacts, about 4,950 square feet total, on the fringes of the area.

Mr. Quigley briefly went through the questions on the application. The need for the impact is that this type of project requires a single piece of land on which to build. There is existing pavement on the site to connect to, and they are constrained by Little River and the wetlands on the sides of the project. The direct wetland impacts have been minimized using steep grading. The wetlands are classified as seasonally saturated forested wetlands, dominated by red maple. Mr. Quigley said that this is a very common type of wetland in the state. There are also no species of concern that would be impacted.

Mr. Campbell asked about the effect on the larger wetlands outside of the site, because drainage might go into it. Mr. Quigley said that all the wetlands are in the Little River watershed. The drainage goes off the site onto the adjacent properties, before it would go into Little River. The wetlands in this area act more like upland habitats, and act like a buffer to the more sensitive wetlands downslope. Also, any drainage will be treated.

Mr. Quigley continued that public commerce will probably be positively affected. One condition of approval is that the developer work with the board to relocate the trail so that recreation is not negatively impacted. The project will not interfere with set interests because it is consistent with current zoning for an industrial area. The impacts are contained within the site, and will not affect abutting



properties. There are no ill effects on public health or safety, the zoning area is contained. For drainage, the project will eventually have to gain approval for alteration of terrain. Impacts on flooding, erosion and sedimentation are minimal.

Ms. Ward asked about the commission's previous concern of snow storage and removal. Mr. Quigley answered that it was a condition of approval, and Ms. Murphy said that all of the conservation commission's concern were made conditions of approval by the planning board. Ms. Eberhardt asked for more information on erosion control. Mr. Clement was similarly concerned about the steep slope next to impact area A, because of possible erosion into the wetland.

Mr. Quigley said that the erosion control plan is straightforward. Once the slopes are formed, they will be seeded and stabilized. There will also be retaining walls alongside some sections of slope. The water will be captured from the pavement by a catch basin, and the grass seeding will prevent physical movement by rain. The slopes are engineered so that they will not collapse. Mr. Clement suggested recommending to the wetlands bureau to install substantial erosion control adjacent to area A.

Pete Steckler thought that it was frustrating that the project is only considering what is the impact from this sole tract of land, and urged the commission to consider the cumulative effect if others did this as well.

Ms. Eberhardt would like to see some details corrected. For instance, the application states there were no records detected but the NH Natural Heritage Bureau showed a hit on their record for the species in the area, but the project would not impact this. She would also like a screening of the trail from the development, so it is less visible to recreation users. She also wanted to clarify that the stormwater quality is going to be affected in some way, and suggested that the word "minimal" is used instead of saying there will be no impact on water quality. Concern was expressed for how the site would be graded near the wetland fill and whether erosion will be an issue. Mr. Short added that generally erosion is only an issue if the land is not stabilized, or if water is pouring directly on it from pavement.

**MOTION:** Ms. Ward moved to approve the wetland dredge and fill application with the conditions outlined above. Mr. Guindon seconded the motion, and it passed unanimously.

2. Review and Discussion of Application Materials for the "Exeter Rose Farm" Open Space Subdivision at Oak Street Extension and Forest Street Tax Map 54 Lot 5, 6, 7 and Tax Map 63, Lot 20. Submission includes Natural Resource and Wetlands Reports, Revised potential Conservation Land of 6.31 acres in accordance with Zoning Ordinance 7.7.1, Shoreland Conditional Use Permit application in accordance with Zoning Ordinance 9.3, Wetland Waiver request in accordance with Zoning Ordinance 9.1.6.C. and Site and Subdivision Regulations 9.9.3 (Marc Jacobs, CWS, Brenda Kolbow, TFM):

Ms. Eberhardt and Mr. Piskovitz recused themselves from the conversation, and Ms. Raub will be acting as a voting member. Todd Baker, the owner of the developer, showed the commission the area of revised conservation land due to the last meeting. There is a total of 6.31 acres abutting the town forest. There will be street parking, and people can also access it from the town forest. Mr. Campbell read the conditions for the conservation land as following:

- Hunting would not be permitted on the property.

- Prior to Town acceptance, the applicant will provide: a draft deed to the Commission for review and approval, a surveyed plan, a baseline documentation report, and on-site boundary marker placement will be confirmed on the ground by the Commission (or their representative) and the Grantor.
- The applicant is responsible for construction of the trail connection to the existing trail network, any required crossings along that connection, and installation of a trailhead sign at the trail entrance.
- The applicant will install conservation boundary discs along the conservation boundary adjacent to house lots

**MOTION:** Mr. Guindon moved to submit a memo to the planning board that the commission is supportive of the town accepting fee ownership of this land with the conditions as read. Mr. Koff seconded the motion, and it passed unanimously.

Shoreland Conditional Use Permit:

Marc Jacobs, the wetland/soil scientist for the development, showed the commission a map of various shoreland zones on the site. The total site area is 2,176,025 square feet. The biggest land area is the 0-75' vegetative buffer (about 500,000 sq.ft), and the biggest impact in that area is associated with the construction of Rose Farm Lane and the construction of stormwater gravel wetland. The largest amount of impacted area is in the 150'-300' shoreland protection district area, which has about 95,000 sq. ft of permanent impact. Other impacts include the construction of driveways for multifamily units, the remediation of land and removal of waste, additional stormwater gravel wetlands, and the construction of homes/lots.

Brenda Kolbow reviewed the various strata. The Shoreland Protection Zone gets 300' buffer around Norris Brook. The perennial stream gets a 150' buffer because it is a tributary to Norris Brook. Within the vegetative buffer, surface alteration is permitted for the road. No buildings will be added within the structure setbacks. Most of left side of map shows impacts due to remediation. Mr. Jacobs clarified that there are no special exceptions being asked for, and that everything is covered by conditional use. He also explained that CUP use for the Shoreland Protection meets all requirements and permitted uses.

Mr. Campbell asked about potential climate change effects to the sewer pump station due to sea level rise. Mr. Jacobs said that the sewer pump station was designed to be at the lowest point to capture the most water, and it was designed based on projected sea level rise including storm surge. It is also a sealed unit. Mr. Campbell also asked about snow storage on the site. Mr. Jacobs said that it would be pushed into the right-of-way, not stockpiled, and would melt into the storm drains because the roads are designed with a slant.

The roads have a slanted design so that snow melt will go into storm drain. Majority of snow will be captured and go into treatment system. He also said that the gravel wetlands use layered gravel that doesn't seep into ground. Dirt is put on top and vegetation is added to help filter any water. Mr. Clement mentioned the administrative order to manage and reduce nitrogen. The gravel wetlands are very good at treating nitrogen, removing about 85-90%.

Mr. Jacobs went through the requirements for a Shoreland CUP. He said that for waste treatment, the entire subdivision will tie into the municipal sewer system and will be part of public water/sewer. There will be no individual waste disposal. He mentioned that a significant piece of this project is also to remediate existing hazardous waste from previous greenhouse.

He said that damage to wildlife habitat will be minimal. Norris Brook lacks spawning beds and they designed the project to manage stormwater. The proposed stream crossing for Rose Farm Lane is using a box culvert with stream simulation to replicate stream characteristics. The culvert will have an upland bench on both sides of the bank to provide a migration corridor. They were open to using an open-box culvert if the commission preferred. Mr. Clement asked about fish species going up Norris Brook from Squamscott River. Mr. Jacobs said that he could not find specific data on that migration.

Mr. Campbell asked about building setbacks with properties 39, 40, and 41. Mr. Jacobs clarified that they are existing homes, and that any new construction would need to be outside the setback. The developers are limiting side slope grading to reduce the wetland and shoreland footprint. Also, they will be obtaining an alteration of terrain. The project is not requesting work in any of the 75ft vegetative buffers for home construction. Mr. Guindon emphasized the importance of minimizing the expansion of invasive species into town forest, and that anything to reduce spread is important. Mr. Jacobs said they could develop an invasive species management program.

For prohibited uses, Mr. Jacobs said that the only proposed one is fertilizer, which would be applied during construction to establish vegetation to mitigate erosion. After this, a prohibition on fertilizer use will be included in the HOA. Mr. Campbell asked about the wastes that will be removed vs. buried. Mr. Jacobs said the lead contaminated soils in former greenhouse area and pond will be removed from the site. Any coal ash will be capped. Solid wastes will be removed as much as possible.

Mr. Jacobs moved on to ordinances, and said that they have tried to minimize all impacts and are complying with all requirements. The project is not located in the Exeter River watershed or the Fresh River watershed. Continued access to the spring will be protected by HOA. Mr. Guindon asked where the water from the spring is coming from. Mr. Jacobs said that they are not entirely sure, but the bulk of the area contributing to the spring is covered by residential neighborhoods. The spring provides water to existing homes, and those lines will need to be capped.

The commission opened the discussion for public comment:

Mark West said that the buffer restrictions are meant to protect the resources in town including Norris Brook and the perennial rivers which flow into Squamscott and the Great Bay. There is a total of 5.33 acres of permanent impact. Many of them are directly adjacent to resources, removing the buffer completely in these areas. The wetlands might help protect the streams, but the wetlands are also an important resource and shouldn't be degraded. There are also a lot of clay soils, which are very fine and erode much easier. There is a lot of digging in construction on these soils, loosening them. The wildlife habitat will be impacted by the road, culverts, basins, pump station, and gravel wetlands. They are all in middle of the wildlife corridor.

Eileen Flockhart asked the commission to consider the impact of the construction on the nearby spring. She said that many in the neighborhood see the spring as a valuable resource and want to ensure it is truly protected.

Maura Fay, an abutter to the property, said that her biggest concern is the sheer size of impacted land out of total area. She was also worried about the tidal impact of the sewer pump station on Norris Brook, especially decades from now. Also, other recent development projects like on Epping Road flow into the same watershed. She doesn't think there has been enough study on the cumulative impacts or quality/importance of wetlands.

Pete Steckler requested that the commission recommend denial. He emphasized that surface water quality will be affected negatively, and that the wetlands will not be as effective as a buffer for long because they will become contaminated. He also pointed out that gravel wetlands only last about 10-15 years. He didn't think that it is conclusive to say that the area lacks spawning beds. Also, there may be indirect impacts to wildlife like water temperature, trash, minerals, sedimentation, invasive species, etc. This is an important wildlife corridor, and the assessment seemed to be based on visual observation. He also wants more definitive language in the application, firmer requirements in the HOA documents, and a commitment from the developer. He also thinks there should be a requirement for a no-cut and vegetative buffer along the town forest at the top of the property.

Suzanne Iverson talked about EPA Estuary protection program and PREP to protect Great Bay. The State of the Estuary report shows that water quality is on the decline. One way to protect health is to protect buffer lands along water resources like Norris Brook. Small streams are recognized as important to estuarine health and have an impact on water quality. Green infrastructure like buffers prevent degradation and also are cost effective by reducing treatment costs. She emphasized the important economic role of protecting open space.

Todd Piskovitz talked about protecting and enhancing the water quality of the Squamscott River, that it needs to be emphasized and the project has not proven how they plan to enhance the water quality. He also said that they have not proven that the planned uses for the land cannot be outside of the wetland area. In the past, as well, Norris Brook was considered to be important enough to put a 300-ft buffer around it.

Doug Murphy does not think that the use of fertilizer by the river should be allowed. He also suggested putting two smaller pump stations instead of one, so that way it could be further away. Also, the pump station is not going to be repaired before it has issues, so it should not be placed in such an important area.

Melissa Paley, from the Conservation Law Foundation, said that the estuary is in a state of decline in numerous ways. Squamscott River in particular is an impaired waterway for nitrogen and dissolved oxygen, and this has a major impact throughout the system as a major tributary. The 2010 PREP report stated that Exeter has about 50-60% of impervious cover, much higher than other communities. Generally, 10% is threshold for a healthy watershed that isn't impacted. There are lots of examples of good developments with good water management. This project will create a lot of new impervious surface. She also mentioned that Exeter is regarded as a community that is making a good effort to fix their issues with water quality, so they should continue this effort.

Mr. Jacobs responded to some of the concerns brought up. He said that the impacts mentioned all acknowledged that the infrastructure involved needs to go where it is proposed, due to topography and other factors. They will need to capture all water before it gets to Norris Brook so that it can be treated. He also said that the wildlife corridor of Norris Brook is already broken up by Oak Street Ext.

The commission needs to strike a balance between the protection of waterways and the applicant's rights to access property and use their land. There are no other means of access except for crossing Norris Brook. A detailed topographic evaluation was done for the crossing location. Mr. Clement said that the area will also be extensively reviewed by the town's engineering consultants.

Mr. Clement reminded the commission that some impacts are unavoidable, but that they need to be mitigated as much as possible. The conditional use application does not say there will be no impacts, but instead that there will not be excessive damage. Also, a 2018 report about the impervious surfaces in Exeter shows there are less now compared to the 2010 report. The commission cannot deny access to the property, but they can demand that the impacts are minimized as much as possible. If they cannot be minimized, there is an issue.

Mr. Jacobs said that all of the improvements will be under the purview of the HOA, unlike other developments with no maintenance or update requirements. They will need to develop a maintenance plan, and the HOA will be saving money for the purpose of maintenance as well which will include the environmental aspects.

Ms. Ward had some concerns about the HOA. She asked how they would be held to their standards, and who would be providing oversight. Another concern is the spring. She believes more work needs to be done to look at how the spring flows and what the pipe structure is. Her third concern is the impact on the estuary. She is not confident that everything has been done to mitigate impacts. Development is good for the town, and they need affordable housing, but Norris Brook is unique and she wants to make sure that everything possible has been done to protect the waterways.

Mr. Koff shared similar concerns with Ms. Ward. He did not think they had enough information about the effect on the nitrogen in the water. There needs to be ways to make this a more nitrogen neutral project for the Great Bay.

Jack McTigue stated they are using the best BMP that the AOT approves of for removal of nitrogen. Its rated at 85% removal nitrogen, 95% total solids.

Mr. Campbell asked about the location of some of the gravel wetlands. Mr. Jacobs said that the site soils dictate the selection of the gravel wetlands. In this case, the clays promote good stormwater management by filtering. Weekly inspections and status reports in erosion and sediment control during construction are needed.

Suzanne Iverson asked to address the board in response to a question posed by Mrs. Ward. She said that one option would be to decrease the number of homes, and to conserve the western part. The abutting neighbors want to reduce the development to 12 homes, and would even help with a fundraising campaign for conservation.

Mr. Campbell said that the developers have done a good job at minimizing impacts, but he still thinks that having 1/6 of the shoreland protection district permanently impacted is alarming. 5.3 acres of land is too much impact. Mr. Jacobs responded that 5 acres of permanent impact represents about 10% of the total property area. Also, the HOA is a legal entity with an elected board of directors to manage their affairs. Mr. Clement pointed out that track record of HOA with maintaining these types of structures is a concern. Ms. Murphy said that the town does not inspect the HOA to ensure compliance, but if there is a complaint, the town has the ability to ensure enforcement.

Ms. Ward asked how much impact would be lessened by a bridge vs a culvert. The developer responded that the bridge would be very expensive and is not feasible. The impacts to Norris Brook could be lessened, but there would be the same amount of impervious surface.

Ms. Raub said she has been part of a HOA, and they have a lot of turnover. They do not reliably enforce rules, because they do not want to police people. She is concerned about the buffer between the development and the town forest not being monitored except by the homeowner. She also asked if the townhouses could be relocated off of Rose Farm Lane, which would reduce the amount of impervious surface and reduce impacts. Mr. Baker responded that one major improvement to the plan was that the 6-acre conservation land would not be touched, so they squeezed in properties more tightly elsewhere.

**MOTION:** Mr. Koff moved that they do not recommend the Shoreland CUP as proposed due to the following concerns over wildlife and water impacts (see below). Ms. Raub seconded the motion, and it passed unanimously.

- Snow storage/snow melt
- An open-bottom culvert is preferred over a box culvert
- Stormwater infrastructure be designed to reduce nitrogen loading
- Construction activities must reduce invasive species spread
- A prohibition of fertilizer by the HOA
- Capping the connection to homes from spring
- The enforcement of the HOA

Wetland Waiver Request:

Mr. Jacobs went through the areas that would be impacted. Out of a total area of 333,000 square feet, about 52,000ft will be permanent buffer impact, and 3,600 ft is permanent wetland impact. Impacts from cleanup include removal of solid waste and coal ash. The area will be restored and re-vegetated. The impacts from construction will include Norris Brook crossing, drainage, the sewer pump, and the improvements to access. The spring access impacts include drainage, a turnaround area, and more parking.

They have done a wetland evaluation to determine the value of the wetland. The Rose Farm Lane wetland crossing will be particularly impacted. Manmade wetlands will also be impacted, mostly to remove waste. All negative impacts will be minimized, and the spring will be protected. He reminded the commission that the property is zoned for the proposed use, and that there is no access without a wetland crossing. There will not be any home construction in the wetland buffer.

The developers believe that the gravel wetlands are the best management practice. No more than 50% of drainage is located within the wetland buffer (specifically, about 40% of the drainage is). There are also a number of mitigation opportunities that they have proposed. Originally, they had proposed to cross two other streams with cul-de-sacs, and have since downsized to avoid that. They are also re-vegetating the area with grass seed, shrubs, and no-mowing, so that they will eventually grow a tree canopy.

The commission turned the discussion over for public comment:



Mary D. Hanson said that the owner bought land knowing what the access to the land was. Also, she said they would not be able to put the cul-de-sac back in on the land to the left because it's not likely the planning board would approve that.

Mark West agreed that the drainage structures need to be put into lower areas. He said that wetlands are being filled to build some of this, and they are not leaving any buffer at all. The wetland is too important to have these high impacts, especially going from a 50-foot buffer to none at all.

Pete Steckler reiterated that it is not possible to not have any negative impact. The finfish and shellfish habitat function should be represented as a function of this area. This is a good habitat for a lot of different species of fish and shellfish, and he wants to make sure that we are not just relying on visual observation to come to the conclusion that no species are present. He asked if there was a way to access Oak Street Ext. to cross Norris Brook only once. Mr. Clement answered that Oak Street Ext. does not meet the town standards of width. Mr. Baker also said that it would be too close to the spring.

Mr. Jacobs said that there had been a lot of design review, and the grades are very steep in that area. None of the proposed uses are prohibited. He also emphasized the difference between adverse impacts, and any impact at all. They are not creating excessive adverse impacts.

The commission was not satisfied that all of the conditions had been met, and they felt that the impact on the wetland was unknown. Mr. Campbell did say that the criteria for this waiver seemed more straightforward than the Shoreland CUP, but he was unsure if criteria 1 and 2 especially were met. Ms. Ward had concerns about water quality similar to the concerns above.

Mr. Jacobs said that the TRC reviewed the management designs, which was sent for peer-review and received no comments. He also said that the impacts need to be gratuitous in nature to fail the criteria. The impacts in the west are due to the removal of hazardous material, and to the east they are due to that area being the only access point.

**MOTION:** Mr. Koff moved that they do not feel comfortable recommending the wetland waiver due to the concerns about the water quality and wildlife habitat as outlined below, and the other concerns as outlined from the Shoreland CUP. Mr. Guindon seconded, and it passed unanimously.

- 3<sup>rd</sup> party information review of management design needs to be seen
- More information about the fish/shellfish habitat of the area
- Net-zero nitrogen loading
- Better understanding of the wetland function

### 3. Other Business

**MOTION:** Mr. Koff moved to approve a \$1,200 payment to the Preservation Company for their work on the LCHIP application. Mr. Guindon seconded the motion, and it passed unanimously.

4. Next Meeting: Date Scheduled (8/07/18), Submission Deadline (8/3/18)

The meeting was adjourned at 11:30PM.

Respectfully submitted by recording secretary Samantha Cave