



**McLean's Mountain Wind Farm**

September 11, 2013

The Ministry of the Environment  
Director, Environmental Assessment and Approvals Branch  
2 St. Clair Avenue West, Floor 12A,  
Toronto, ON  
M4V 1L5

Dear Vic Schroter,

**Re: McLean's Mountain Wind Farm Project  
Renewable Energy Approval (REA) 7733-8XUNS5 - Amendment Application**

On October 31, 2012, McLean's Mountain Wind GP Inc. (operating as McLean's Mountain Wind LP) was issued a Renewable Energy Approval (REA) for the McLean's Mountain Wind Farm. The project is a Class 4 Wind Facility with a total name plate capacity of 60 megawatts.

An amendment of the REA permit was obtained on May 17, 2013, approving the use of a quieter wind turbine generator gearbox and several minor layout changes which were identified during detailed project design activities completed once the project's main contractor mobilized to the wind farm site.

As site preparations and construction activities progressed early this summer, our contractor identified an additional opportunity to make a minor change to the routing of a feeder line which will have the benefit of reducing environmental impacts during the construction/installation stage. A meeting was held on August 21, 2013, with Kristina Rudzki and Mohsen Keyvani, Ministry of the Environment (MOE) to discuss the proposed change. The change has also been presented to the Ministry of Natural Resources (MNR) and a confirmation letter has been received from MNR confirming the change is not of concern from a natural heritage perspective.

The attached Modifications Document provides information on the change, the rationale for the change, ways in which the originally-submitted REA documents are affected by the change and a discussion of associated negative environmental impacts. It also contains revised site plan mapping and our correspondence with the MNR.

A Renewable Energy Approval application for an amendment to the existing REA has also been attached. The proposed project change that requires the amendment can be generally described as follows:

- Re-alignment of a segment of the electrical collection feeder lines within the wind farm, resulting in a reduction of approximately 2.5 km of trenching disruption and buried cable.

While we understand that there is no regulated timeline for the processing of REA amendment requests, given the minor nature of this proposed change and that the change would reduce project impacts, we would appreciate a timely review of this application. The urgency of a timely amendment is threefold: 1) the project's construction has commenced and trenching contractors have mobilized in this area, 2) the main environmental benefits of the change (avoiding unnecessary tree clearing and maximizing separation from a pond providing turtle habitat) are time sensitive versus the project's implementation schedule, and 3) the project has to meet its contractual completion obligations with the Ontario Power Authority.

Should you have any questions about the attached documents or project change, please feel free to contact me at 416 662 1437 or [jim.mulvale@northlandpower.ca](mailto:jim.mulvale@northlandpower.ca) .

Yours truly,



Jim Mulvale  
Manager EH&S  
Northland Power Inc.

Cc: MOE Sudbury District Manager  
Kristina Rudzki

Attach: Renewable Energy Approval Amendment Application  
Modifications Document

**General Information and Instructions**

Form Version 1.1

**General**

Information requested in this form is collected under the authority of the *Environmental Protection Act*, R.S.O. 1990 (EPA) and will be used to evaluate this application for a Renewable Energy Project. Questions about this collection of information should be directed to: Information Unit Supervisor, Environmental Assessment and Approvals Branch, 2 St. Clair Ave. W, Floor 12A, Toronto ON M4V 1L5. Telephone outside Toronto 1-800-461-6290 or in Toronto 416-314-8001.

**Instructions**

1. **Applicants are responsible for ensuring that they complete the most recent application form.** Application forms and supporting documentation are available from the Environmental Assessment and Approvals Branch toll free at 1-800-461-6290 (locally at 416-314-8001), from your local District Office of the Ministry of the Environment, and in the "Publications" section of the Ministry of the Environment website at [www.ene.gov.on.ca](http://www.ene.gov.on.ca).
2. Questions regarding completion and submission of this application should be directed to the Environmental Assessment and Approvals Branch, 2 St. Clair Avenue West, Floor 12A, Toronto, Ontario, M4V 1L5, telephone number 1-800-461-6290 or (416) 314-8001, or to your local District Office of the Ministry of the Environment.
3. **Complete Submission**  
In order to be eligible for the issue of a renewable energy approval, a person who proposes to engage in a renewable energy project shall, before submitting an application to the Director,
  - 1) prepare the application in a form or format approved by the Director;
  - 2) obtain or prepare, as the case may be, any documents that,
    - a) are required under Part IV to be submitted as part of the application, or
    - b) are to be submitted as part of the application for the purposes of obtaining an exemption from a provision of Part V; and
    - c) comply with all other requirements of Part IV of Ontario Regulation 359/09.
  - 3) If there is more than one person applying for the issue of a renewable energy approval in respect of a renewable energy project, those persons shall jointly submit one application for the issue of a renewable energy approval.
  - 4) An application to alter the terms and conditions of a renewable energy approval shall be prepared in a form or format approved by the Director and shall be submitted to the Director.

**Supporting documents**

- 1) A person who proposes to engage in a renewable energy project shall submit a document set out in Column 1 of Table 1 of the Regulation as part of an application for the issue of a renewable energy approval in respect of the project if it is a project described opposite the document in Column 3.
- 2) If a document set out in Column 1 of Table 1 of the Regulation is submitted as part of an application for the issue of a renewable energy approval, the person who is engaging in the renewable energy project shall ensure that the document meets the requirements set out opposite the document in Column 2 of Table 1 of the Regulation.
- 3) Any document submitted as part of an application for the issue of a renewable energy approval shall be in writing.
- 4) Any document submitted as part of an application for the issue of a renewable energy approval that is a diagram, map or plan shall be drawn to scale and shall include a scale bar and a north arrow.

**INCOMPLETE APPLICATIONS WILL BE RETURNED TO THE APPLICANT.**

The Ministry may require additional information during the technical review of any application.

4. If you are submitting your application electronically, electronic PDF application form should be completed and submitted by email to [REAESubmission@ontario.ca](mailto:REAESubmission@ontario.ca). Once the application has been received, you will receive an acknowledgement email with an MOE reference number for your application and additional instructions for submitting your hard copy application package and supporting information.

If you are not submitting your application electronically, the original application form and all required supporting documents must be sent to:

**The Ministry of the Environment,  
Director, Environmental Assessment and Approvals Branch,  
2 St. Clair Avenue West, Floor 12A, Toronto, Ontario, M4V 1L5**

A copy of the complete application must be sent to any local Ministry District Office having jurisdiction over the project location. To locate the appropriate local Ministry District Office, please visit the Ministry of the Environment Internet site at: [www.ene.gov.on.ca/envision/org/op.htm#Reg/Dist](http://www.ene.gov.on.ca/envision/org/op.htm#Reg/Dist).

A cover letter addressed to the Director of Environmental Assessment and Approvals Branch should accompany both submissions and indicate that a copy of the complete submission has been sent to each District Office that has jurisdiction over the project location.

5. Information collected by the Ministry of the Environment is subject to the *Freedom of Information and Protection of Privacy Act* (FOIPPA). If you are of the view that any part of your application is confidential on the grounds such information constitutes a trade secret or scientific, technical, commercial, financial or labour relations information, please make this known now. Otherwise, the Ministry may make the information available to the public without further notice to you.

For Office Use Only		
Reference Number	Date (y/m/d)	Initials

Form ID: 1650469

## Application Summary

Project Name *(Project identifier to be used as a reference in correspondence)*

**McLean's Mountain Wind Farm**

Project Description Summary  
*(This summary should reflect the description in the documents upon which consultation has been completed and if it does not, the difference should be highlighted)*

Northland Power Inc. and Mnidoo Mnising Power, together form the McLean's Mountain Wind Limited Partnership and propose to develop the McLean's Mountain Wind Farm. The proposed wind farm will consist of twenty-four (24) GE 2.x class wind turbines and will generate sixty (60) megawatts (MW) of electricity, access roads, substation, operations and maintenance and operations building, feeder lines, and 10.3km transmission line.

The facility is considered to be a Class 4 Wind Facility under O.Reg. 359/09.

Required Information	Completed (yes or no)
<input checked="" type="checkbox"/> Project Name & Description	Yes
<input checked="" type="checkbox"/> Section 1: Applicant Information	Yes
<input checked="" type="checkbox"/> Section 2: Project Information	Yes
<input checked="" type="checkbox"/> Section 3: Site Information	Yes
<input checked="" type="checkbox"/> Section 4: Required Documents	Yes

Application Status: **FORM COMPLETE.**

### Summary:

Type of Application <b>Amendment to REA 7733-8XUNS5</b>	Type of Renewable Energy Generation Facility <b>Wind Class 4.</b>
Total Maximum Name Plate Capacity <b>60 MW</b>	
Total Expected Generation Capacity <b>60 MW</b>	

# Section 1: Applicant Information



## 1.1 Applicant Information (Owner of works/facility)

Applicant Name (legal name of individual or organization as evidenced by legal documents)		Business Identification Number	
McLean's Mountain Wind Limited Partnership		82929 1409	
Business Name (the name under which the entity is operating or trading - also referred to as trade name)		<input checked="" type="checkbox"/> same as Applicant Name	
McLean's Mountain Wind Limited Partnership			
Applicant Type:		North American Industry Classification System (NAICS) Code	
<input type="checkbox"/> Corporation	<input type="checkbox"/> Federal Government	221119 Other Electric Power Generation	
<input type="checkbox"/> Individual	<input type="checkbox"/> Municipal Government		
<input checked="" type="checkbox"/> Partnership	<input type="checkbox"/> Provincial Government		
<input type="checkbox"/> Sole Proprietor	<input type="checkbox"/> Other (describe):		
Business Activity Description (a description of the business endeavour, this may include products sold, services provided or machinery/equipment used, etc.)			
Developer, owner and operator of McLean's Mountain Wind Farm			



## 1.2 Applicant Physical Address

Civic Address- Street information (includes street number, name, type and direction)				Unit Identifier (i.e. apartment number)	
30 St. Clair Ave. West, 12th Floor					
Survey Address (Not required if Street Information is provided)		Lot	Conc.	Part	Reference Plan
Municipality /Unorganized Township	County/District	Province/State	Country	Postal Code	
Toronto		Ontario	Canada	M4V 3A1	
Telephone Number (include area code & ext.)	Fax Number (include area code)	Mobile Number (include area code)	E-mail Address		
(647)288-1273 ext.		(416)662-1437	jim.mulvale@northlandpower.ca		



## 1.3 Applicant Mailing Address

Same as Applicant Physical Address?		<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No (If no, please provide site address information below)
Civic Address - Street information (civic numbering and street information including street number, name, type and direction)			
30 St. Clair Ave. West, 12th Floor			
Delivery Designator		Delivery Identifier	Postal Station
Municipality /Unorganized Township	Province/State	Country	Postal Code
Toronto	Ontario	Canada	M4V 3A1



## 1.4 Statement of Applicant

I, the undersigned hereby declare that, to the best of my knowledge:

- The information contained herein is complete and accurate in every way and I am aware of the penalties against providing false information as per s.184(2) of the Environmental Protection Act.
- I understand that by submitting this form, I am guaranteeing the completeness and accuracy of all the information provided on this form and included in the draft reports. Failure to submit the correct information will result in an incomplete application being returned.
- The Project Technical Information Contact identified below is authorized to act on my behalf for the purpose of obtaining approval under section 47.3 of the EPA for the Project identified herein.

Name of Signing Authority (please print)	Title	
Jim Mulvale	Manager EH&S	
Telephone Number (including area code & extension)	Fax Number (including area code)	E-mail Address
(647)288-1273 ext.	(416)962-6266	jim.mulvale@northlandpower.ca
Mobile Number (including area code)	Signature	Date (y/m/d)
(416)662-1437		2013/09/11


## Section 2: Project Information

Form ID: 1650469

### 2.1 Application Type

Type of Application:			
<input type="checkbox"/> New Renewable Energy Approval		Where Applicable provide Existing Renewable Energy Approval Number:	
<input checked="" type="checkbox"/> Amendment to Renewable Energy Approval		<b>7733-8XUNS5</b>	
Application Initiated by:			
<input checked="" type="checkbox"/> Proponent		<input type="checkbox"/> Environmental Assessment and Approvals Branch	
<input type="checkbox"/> Provincial Officer Order (attach copy)		<input type="checkbox"/> Other (specify): _____	
Current Certificate(s) of Approval <i>(please attach a separate list if more space is required)</i>			
Certificate of Approval Number	Date of Issue (yyyy/mm/dd)	Certificate of Approval Number	Date of Issue (yyyy/mm/dd)
Certificate of Approval Number	Date of Issue (yyyy/mm/dd)	Certificate of Approval Number	Date of Issue (yyyy/mm/dd)
Current Permit(s) to Take Water <i>(please attach a separate list if more space is required)</i>			
Permit Number	Date of Issue (yyyy/mm/dd)	Permit Number	Date of Issue (yyyy/mm/dd)
Permit Number	Date of Issue (yyyy/mm/dd)	Permit Number	Date of Issue (yyyy/mm/dd)
Project Schedule			
Estimated date for start of construction/installation (yyyy/mm/dd)		Estimated date for start of operation (yyyy/mm/dd)	
<b>2012/11/01</b>		<b>2014/03/01</b>	

### 2.2 Statement of Project Technical Information Contact

Is the Project Technical Information Contact the same as the Applicant (identified in Section 1)?			
<input checked="" type="checkbox"/> Yes		<input type="checkbox"/> No	
<b>I, the undersigned hereby declare that, to the best of my knowledge:</b>			
<ul style="list-style-type: none"> <li>The information contained herein and the information submitted in support of this application (electronically and in hard copy) is complete and accurate in every way and I am aware of the penalties against providing false information as per s.184(2) of the <i>Environmental Protection Act</i>.</li> <li>I understand that by submitting this form, I am guaranteeing the completeness and accuracy of this form and the draft documents. Failure to submit the correct information will result in the application being returned as incomplete.</li> <li>That the information contained in the electronically submitted application form is the same as the information submitted in the hard copy submission.</li> <li>I have used the most recent application form (as obtained from the "publications" section of the Ministry of the Environment website at <a href="http://www.ene.gov.on.ca">www.ene.gov.on.ca</a> or from the Environmental Assessment and Approvals Branch at 1-800-461-6290).</li> </ul>			
Name of Project Technical Information Contact		Company	
<b>Jim Mulvale</b>		<b>Northland Power Inc.</b>	
Telephone Number <i>(include area code &amp; ext.)</i>	Fax Number <i>(include area code)</i>	Mobile Number <i>(include area code)</i>	E-mail Address
<b>(647)288-1273</b> ext.	<b>(416)962-6266</b>	<b>(416)662-1437</b>	<b>jim.mulvale@northlandpower.ca</b>
Signature <i>(hard copy submission MUST be signed)</i>		Date (yyyy/mm/dd)	
		<b>2013/09/11</b>	
Address Information:			
Same as Applicant Mailing Address? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <i>(If no, please provide technical information contact address information below)</i>			
Civic Address - Street information <i>(civic numbering and street information including street number, name, type and direction)</i>			Unit Identifier <i>(i.e. apartment number)</i>
<b>30 St. Clair Ave. West, 12th Floor</b>			
Delivery Designator	Delivery Identifier	Postal Station	
Municipality /Unorganized Township	Province/State	Country	Postal Code
<b>Toronto</b>	<b>Ontario</b>	<b>Canada</b>	<b>M4V 3A1</b>



**2.3 Other Approvals for Facility** – Please attach a separate list if more space is required Separate list attached?  Yes  No

List all other environmental approvals/permits applied for related to this project or received in relation to this project

Approval Number	Approval Date <small>(yyyy/mm/dd)</small>	Approval Number	Approval Date <small>(yyyy/mm/dd)</small>

Ontario Power Authority (OPA) Registration ID (if applicable): **F-000520-WIN-130-601**

Ontario Power Authority (OPA) Reference Number (if applicable): **FIT-FBN77QW and FIT-FA8YIXK**

**2.4 Type of Renewable Energy Generation Facility** (select all that apply)

Wind Facility	Biofuel / Biogas / Other	Anaerobic Digestion Facility	Thermal Treatment Facility	Solar Photo Voltaic Facility
<input type="checkbox"/> Class 2	<input type="checkbox"/> Biofuel	<input type="checkbox"/> Class 1	<input type="checkbox"/> Class 1	<input type="checkbox"/> Class 3
<input type="checkbox"/> Class 3	<input type="checkbox"/> Biogas	<input type="checkbox"/> Class 2	<input type="checkbox"/> Class 2	
<input checked="" type="checkbox"/> Class 4	<input type="checkbox"/> Other	<input type="checkbox"/> Class 3	<input type="checkbox"/> Class 3	
<input type="checkbox"/> Class 5	If other, please describe:			

**2.5 Generation of Electricity**

Total Maximum Name Plate Capacity	Total Expected Generation Capacity
<input style="width: 90%;" type="text" value="60"/> MW (1 MW = 1000 kW / 1 kW = 0.001 MW)	<input style="width: 90%;" type="text" value="60"/> MW (1 MW = 1000 kW / 1 kW = 0.001 MW)
Days and Hours of Operation	
<input style="width: 95%;" type="text" value="365 days/year; 24 hours/day"/>	

### Section 3: Site Information



#### 3.1 Project Location - (the site/location where project will be located)

Same as Applicant Physical Address? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No (If no, please provide site address information below)					
Civic Address- Street information (includes street number, name, type and direction)					Unit Identifier (i.e. apartment number)
<b>Local Office at 13 Worthington Street, Little Current, ON P0P 1K0</b>					
Survey Address <i>(Legal description of the site)</i>	Lot	Conc.	Part	Reference Plan	
<b>see below</b>	<b>see below</b>	<b>see below</b>	<b>see below</b>	<b>Schedule A of By-law 2001-00</b>	
Municipality / Unorganized Township	County/District		Postal Code		
<b>Northeastern Manitoulin and the Islands</b>	<b>Manitoulin island</b>		<b>P0P 1K0</b>		
Non Address Information (where the project spans many locations or a large rural area, specify how the project area relates to the address provided)					
<p>The project location is south of the community of Little Current in the Municipality of Northeastern Manitoulin and the Islands (NEMI); geographic Township of Howland and the geographic Township of Bidwell in the District of Manitoulin, Ontario. Please see map provided in the Modifications Document.</p> <p>Optioned properties include:                      Township of Howland: Concession 1, Lots 15-17 and 31-33, south part of Lots 34 &amp; 35 (25 acres of each lot); Concession 2, Lots 10-14 and Lots 21-32; Concession 3, Lots 12-15 and Lots 21-32; Concession 4, Lots 7-9 and 14, 19 and 20; Concession 5, Lots 6-8 and 10-14; Concession 6, Lots 5-10; Concession 7, Lot 6; Concession 12, Part Lot 21; and in the Township of Bidwell: Concession 12, Lots 22-28.</p>					
Map Datum	Zone	Accuracy Estimate	Geo Referencing Method	UTM Easting	UTM Northing
<b>NAD83</b>	<b>17</b>	<b>+/- 5m</b>	<b>GPS</b>	<b>414356</b>	<b>5083191</b>



#### 3.2 Municipal or local authority Information - (List all municipal or board authorities where the project is located)

Local Municipality / Unorganized Township (Include each Single Tier or Lower Tier in which the project location is situated. Attach a separate list if more space is necessary)		
Name of Municipality	Address	Phone
<b>Northeastern Manitoulin and the Islands</b>	<b>15 Manitowaning Rd, Postal Bag 2000, Little Current, ON</b>	<b>(705)368-3500</b>
Clerk's Name	Clerk's Phone/Fax	E-Mail Address
<b>Janet Moore</b>	<b>(705)368-3500 ext 228</b>	<b>jmoore@townofnemi.on.ca</b>
Is the project location situated in one or more Upper Tier Municipality? (i.e., county, regional or district municipality.) <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No List all Upper Tier Municipalities that the project location is situated in. Attach a separate list if more space is necessary		
Name of Municipality	Address	Phone
Clerk's Name	Clerk's Phone/Fax	E-Mail Address
Is the project location situated in a Local Roads Area? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No List all Local Roads Areas that the project location is situated in. Attach a separate list if more space is necessary		
Name of local roads board	Address	Phone
Secretary-treasurer's Name	Secretary-treasurer's Phone/Fax	E-Mail Address
Is the project location in a Local Service Board area? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No List all Local Service Board areas the project location is situated in. Attach a separate list if more space is necessary		
Name of Local Service Board	Address	Phone
Secretary's Name	Secretary's Phone/Fax	E-Mail Address



 **3.3 Site Information** - (information about the site/location where project will be located)

Site Name	MOE District Office
Geographical Townships of Howland and Bidwell, Northeastern Manitoulin and the Islands	Sudbury District Office
Is in any portion of the Project location on federally owned land or a reserve?	
<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
Is in any portion of the Project location on Crown Land?	
<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
Is the Project location that is the subject of this application owned by the Applicant?	
<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <b>If no, please attach the owner's name, address and a signed letter granting consent for the installation and operation of the facilities</b>	
Is the Applicant the operating authority of the facility that is the subject of this application?	
<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <b>If no, please attach the operating authority name, address and phone number</b>	
Is the Project location in the area of the Niagara Escarpment Plan?	
<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
Is the Project location in the area subject to the Oak Ridges Moraine Conservation Plan?	
<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
Is the Project location in the Protected Countryside as shown in Schedule 1 to the Greenbelt Belt Plan?	
<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
Is the Project location in the Lake Simcoe Watershed as defined in the Lake Simcoe Protection Act, 2008?	
<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
Is the Project location in the Central Pickering Development Planning Area as shown in Schedule 1 to the Central Pickering Development Plan?	
<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
Has an Archaeological Report (s. 22) been prepared as part of the complete submission?	
<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <b>Previously provided with original REA application</b>	
Has a Heritage Report (s.23) been prepared as part of the complete submission?	
<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
Has an Environmental Impact Study Report (s.38, s. 41 or s. 43) been prepared as part of the complete submission?	
<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <b>Previously provided with original REA application</b>	
Has a Water body Report (s.39, s. 40, s.44 s. 45) been prepared as part of the complete submission?	
<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <b>Previously provided with original REA application</b>	





# NORTHLAND POWER

## McLean's Mountain Wind Farm

*Modifications Document for  
REA Amendment – September 2013*



Submitted by:

The logo for Dillon Consulting, consisting of a stylized graphic of three curved lines above the text "DILLON CONSULTING" in a bold, black, sans-serif font.  
**DILLON  
CONSULTING**



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<b>Appendix A:</b>	Site Plan per May 17, 2013 Amendment (February 2013 Revised Project Layout)
<b>Appendix B:</b>	Revised (Proposed) Site Plan
<b>Appendix C:</b>	Site Plan - Changes Comparison September 2013
<b>Appendix D:</b>	Correspondence with the MNR

## **1. Introduction**

Northland Power Inc. (NPI) and Mnídoo Mnísing Power (MMP), are developing the McLean's Mountain Wind Farm (MMWF), located south of the community of Little Current, in the Municipality of Northeastern Manitoulin and the Islands (NEMI); geographic Township of Howland, and the geographic Township of Bidwell in the District of Manitoulin, Ontario. The proposed wind farm will consist of twenty-four (24) wind turbines that will generate sixty (60) megawatts (MW) of electricity.

An application for Renewable Energy Approval (REA) under *Ontario Regulation 359/09* was submitted to the MOE in September 2011. A Project Changes Report was prepared in October 2012, and the REA approval was received October 31, 2012. As a result of continuing project design activity for the MMWF, some minor changes to the project's layout design and equipment specifications were considered and these modifications were outlined in the March 2013 Modifications Document for REA Amendment. The REA amendment was received May 17, 2013.

An additional minor change to the project design is outlined in this Modifications Document. The modification discussed herein can be generally described as follows:

- Re-alignment of a segment of the electrical collection feeder lines within the wind farm, resulting in a reduction of approximately 2.5 km of trenching disruption and buried cable.

Also described in this report are the changes that would be required to the originally-submitted REA documents to accommodate the project change proposed. A discussion of whether the proposed project change would result in changes to the previously identified environmental effects and mitigation is provided as well.



## **2. Project Status Update**

Throughout the summer, construction has continued on transmission line pole erections, sub-merged cable installation, operations & maintenance building and substation construction, transition yard work, feeder line trenching and horizontal directional drilling, crane path work, and turbine foundation preparation. All access roads have been completed with the exception of the top gravel layer, which will be completed next year.

## **3. Description of Change**

The proposed change is the realignment of a segment of the electrical collection feeder line in the northeast corner of the wind farm. The approved wind farm site plan, including the revisions obtained by the May 2013 amendment, is provided in *Appendix A*. The newly proposed revised site plan, based on the changes discussed above, is provided in *Appendix B*. To easily compare the final site plan and changes with the original, *Appendix C* provides a site plan identifying the feeder line segment being removed and the feeder line being added.

Referencing the site plan in *Appendix B*, the proposed change is the addition of a feeder line segment starting just south of T5, continuing southwest past T6 and extending to T12's feeder line (approximately 1.5 km in total length). This new, trenched feeder line would run within the approved overhead transmission line's easement path, which has already been grubbed and cleared of any trees/brush. Whereas the transmission line passes over a wetland located southwest of T6, the feeder line will be brought above ground and will be strung overhead of the wetland in the same manner as the transmission line (i.e. the feeder line will be trenched and buried, except at the wetland crossing where it will be an overhead line supported on the transmission line's poles). This will minimize any impacts to the wetland feature.

With the addition of the proposed 1.5 km of new feeder line, the originally approved 4.0 km long feeder line route can be deleted from the project. The deleted route (see *Appendix A and C*) would have run from T10 southwest to T13 (where additional trees would have to have been cut), south from T13 to Green Bush Rd (past wetlands and a pond which provides turtle habitat) and then turning west along Green Bush Rd (which would have required additional tree cutting and trenching disruption in the roadway).

Thus the proposed new feeder line route is more direct and involves less trenching, avoids disturbance adjacent to an intermittent watercourse (watercourse #6), avoids trenching in proximity to a pond feature (south of T13) and avoids the removal of woodland habitat in two areas (i.e., between T13 and T10 and along Greenbush Road).

## **4. Additional Potential Negative Effects**

Based on the change discussed above, it is not anticipated that there will be additional potential impacts to the natural environment, outside of those already identified in the original project reports. The impacts and related mitigation measures proposed in the

REA report package, including the Natural Heritage Assessment and Water Reports, remain unchanged. The Ministry of Natural Resources has been consulted with regard to the modifications (correspondence is provided in *Appendix D*) and determined the proposed alterations to be minor in nature and that no further assessment is required.

## 5. Impact of Changes on REA Documentation

Table 1 provides an accounting of modifications that would be required to each of the reports originally submitted to the MOE in order to reflect the above-noted project change.

**Table 1: Summary of Changes Required to Original REA Documents**

Report Section	Page Number	Original Text <sup>1</sup>	Comments or Revised Text – September 2013
<b>Project Description Report</b>			
Appendix A	N/A	Figure A-2: Project Components Site Plan	September 2013 Revised Project Layout as attached to Modifications Document
Appendix A	N/A	Figure 2: REA Setbacks Map	See revised site plan
<b>Construction Report</b>			
Table 4-2	11	In an effort to minimize impacts to environmentally sensitive areas four locations will be directionally drilled in order to avoid impact to wetland features.	In an effort to minimize impacts to environmentally sensitive areas four locations will be directionally drilled in order to avoid impact to wetland features. One wetland, between T6 and T12 will be crossed overhead on the main transmission line poles.
Appendix A	N/A	Figure A-2: Project Components Site Plan	September 2013 Revised Project Layout as attached to Modifications Document
Appendix A	N/A	Figure 2: REA Setbacks Map	See revised site plan
Appendix A	N/A	Figure 3: Watercourse Crossings	See revised site plan
Appendix E	N/A	Stage 1 and 2 Archaeological Assessments	See note below under Archaeological and Cultural Heritage

<sup>1</sup> Note: Unless otherwise noted, changes and modifications outlined in the Project Changes Report in October 2012 and the March 2013 Modifications Document for REA Amendment are not impacted by the current proposed modification.

Appendix F	N/A	Cultural Heritage Self-Assessment	See note below under Archaeological and Cultural Heritage
<b>Design and Operations Report</b>			
5.2	12	All feeder lines will be located underground with the exception of 2 water crossings where there will be overhead lines.	All feeder lines will be located underground with the exception of 3 water crossings where there will be overhead lines.
Appendix A	N/A	Figure A-2: Project Components Site Plan	September 2013 Revised Project Layout as attached to Modifications Document
Appendix A	N/A	Figure A-3: Natural Features and REA Setbacks Site Plan	See revised site plan
Appendix B	N/A	Figure 2: Turbine, Transformer, and Receptor Layout  Note: this Environmental Noise Impact Assessment report has been replaced with revised February 2013 Environmental Noise Impact Assessment. This modification refers to that document.	See revised site plan
<b>Decommissioning Plan Report</b>			
The revised routing of the feeder line outlined in this Modification Document does not necessitate any amendments to this report. Plans for Cable wire and Trench Decommissioning (Section 4.2.4) remain unchanged.			
<b>Natural Heritage Assessment – (Records Review, Site Investigation, Evaluation of Significance, Environmental Impact Study)</b>			
Changes relevant to the NHA have been summarized for the MNR and are appended to the Modifications Document ( <i>Appendix D</i> ). The MNR documentation confirming that proposed project changes as outlined in the Modifications Document do not negatively affect new natural features or increase negative environmental effects is also provided in <i>Appendix D</i> .			
<b>Water Assessment (Records Review)</b>			
Figure 2	5	Water Assessment Records Review	See revised site plan
<b>Water Assessment (Site Investigation Reports)</b>			
Figure 2	5	Water Assessment Records Review	See revised site plan

Figure 3	14	Water Assessment Site Investigation Project Location Map	See revised site plan
Figures 4-11	17-24	See titles of eight corresponding figures in this report	See revised site plan
<b>Water Body Report (Water Assessment Environmental Impact Study)</b>			
Figure 2	5	Water Assessment Site Investigation Project Location Map	See revised site plan
Section 7.1	17	In an effort to minimize impacts to environmentally sensitive areas four locations will be directionally drilled in order to avoid impact to wetland features.	In an effort to minimize impacts to environmentally sensitive areas four locations will be directionally drilled in order to avoid impact to wetland features. One wetland, between T6 and T12 will be crossed overhead on the main transmission line poles.
<b>Archaeology and Cultural Heritage</b>			
While the site plans presented in the Archaeological Assessments and Cultural Heritage Self-Assessment are now outdated, the revised locations of the collector lines are within studied lands as described in these reports and thus, no changes of note are necessary to these documents.			
<b>Consultation Report</b>			
With the exception of consultation with the MNR (appended to this Modifications Document) there are no changes to the Consultation Report as a result of the proposed project changes.			
<b>Noise Study Report</b>			
The Environmental Noise Impact Assessment report has been replaced with revised February 2013 Environmental Noise Impact Assessment. The only revision to this most recent report is to the site layout illustrated in Figure 2: Turbine, Transformer, and Receptor Layout. See revised site plan for modification.			
<b>Property Line Setback Report</b>			
No amendment to this document is required because the modification proposed herein does not alter any turbine locations.			
<b>Wind Turbine Specifications Report</b>			
No amendment to this document is required because the modification proposed herein does not alter any turbine specifications.			

## 6. Summary

This document provides a description of the feeder line layout change proposed for the MMWF project. The proposed change outlined in this document is minor in nature and



does not result in increased environmental impact or the need for additional mitigation measures. As a result of the change, the overall environmental impact of the project would be reduced.



# APPENDIX A

Site Plan per May 17, 2013 Amendment  
(February 2013 Project Layout)

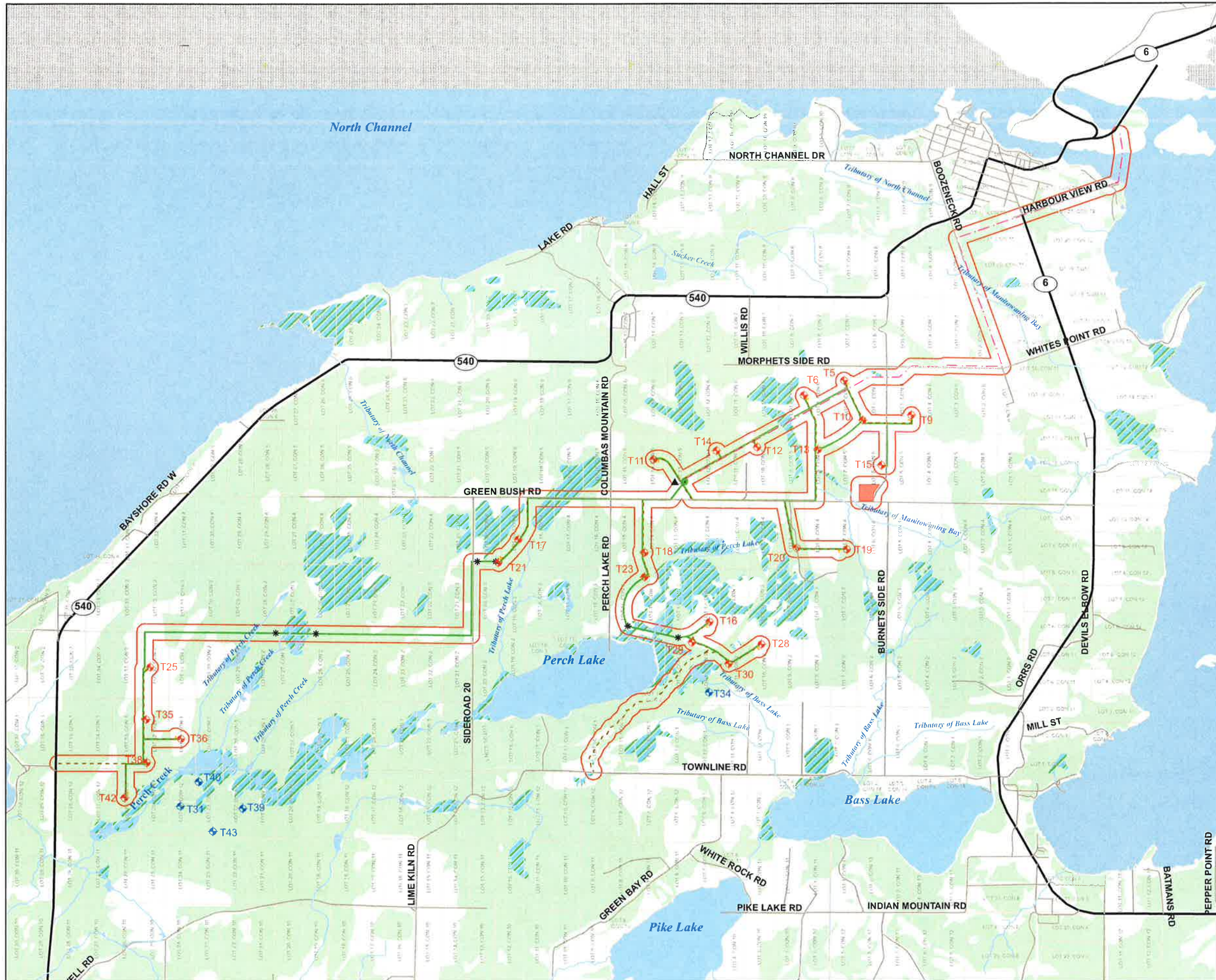




# McLean's Mountain Wind Farm Site Plan per May 17, 2013 Amendment (February 2013 Project Layout)

### Legend

- Local Roads
  - Highway
  - Lots/Concessions
  - Water Body
  - Watercourse
  - Woodland
  - Unevaluated Wetland
- ### Project Components
- 24 Wind Turbine Locations
  - 5 Extra Permitted Sites
  - Horizontal Directional Drilling Locations
  - Operations Building
  - Substation
  - Hammerhead
  - Access Road
  - Feeder Line
  - Transmission Line
  - Construction Laydown Area
  - 120 m Project Location Setback



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Date Modified: September 4, 2013  
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2013 Project Components.mxd



# APPENDIX B

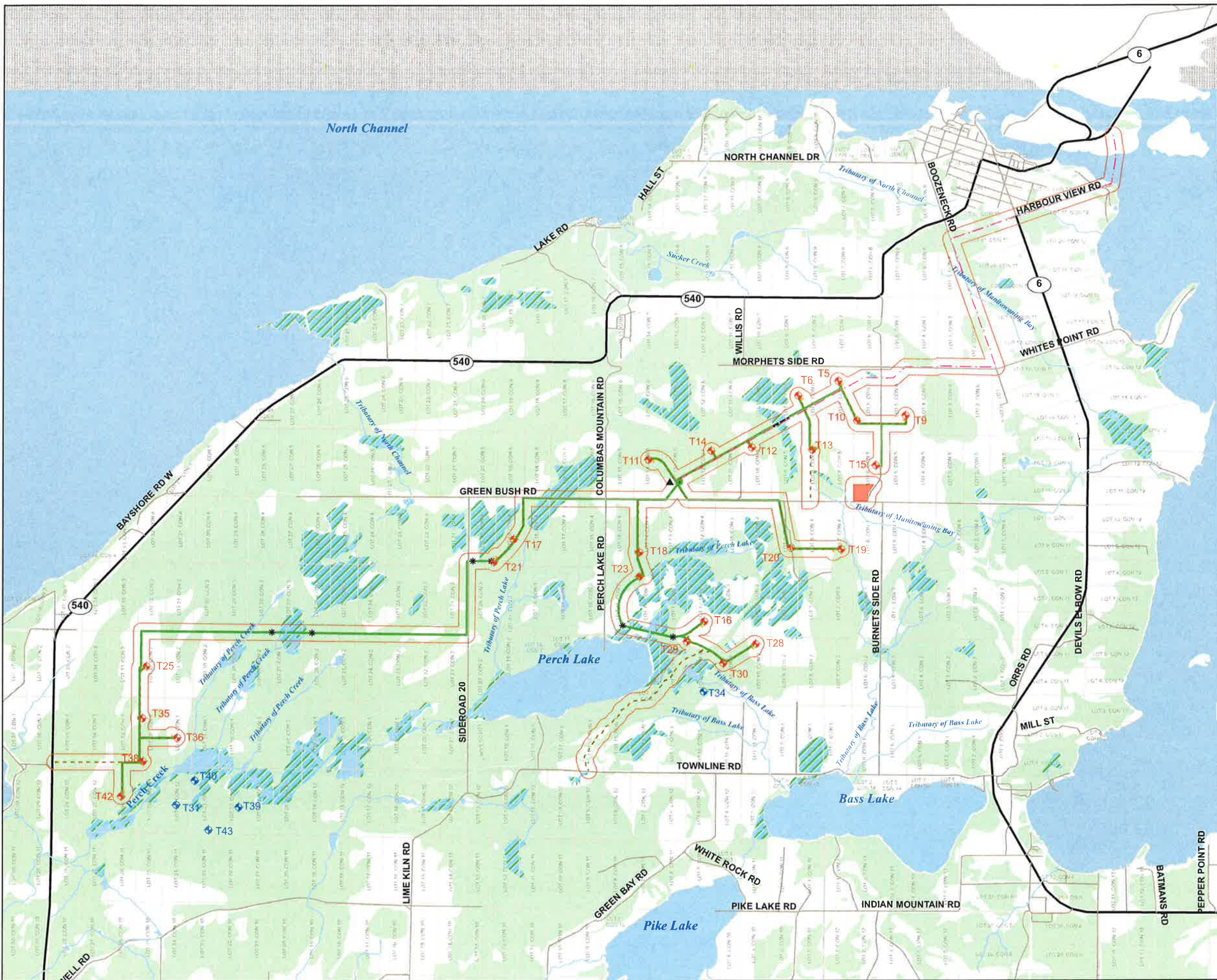
## Revised (Proposed) Site Plan





**NORTHLAND  
POWER**

### McLean's Mountain Wind Farm Revised (Proposed) Site Plan



#### Legend

- Local Roads
  - Highway
  - Lots/Concessions
  - Water Body
  - Watercourse
  - Woodland
  - Unevaluated Wetland
- #### Project Components
- 24 Wind Turbine Locations
  - 5 Extra Permitted Sites
  - Horizontal Directional Drilling Locations
  - Operations Building
  - Substation
  - Hammerhead
  - Access Road
  - Feeder Line
  - Overhead Feeder Line
  - Transmission Line
  - Construction Laydown Area
  - 120 m Project Location Setback



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 2013 Project Components.mxd





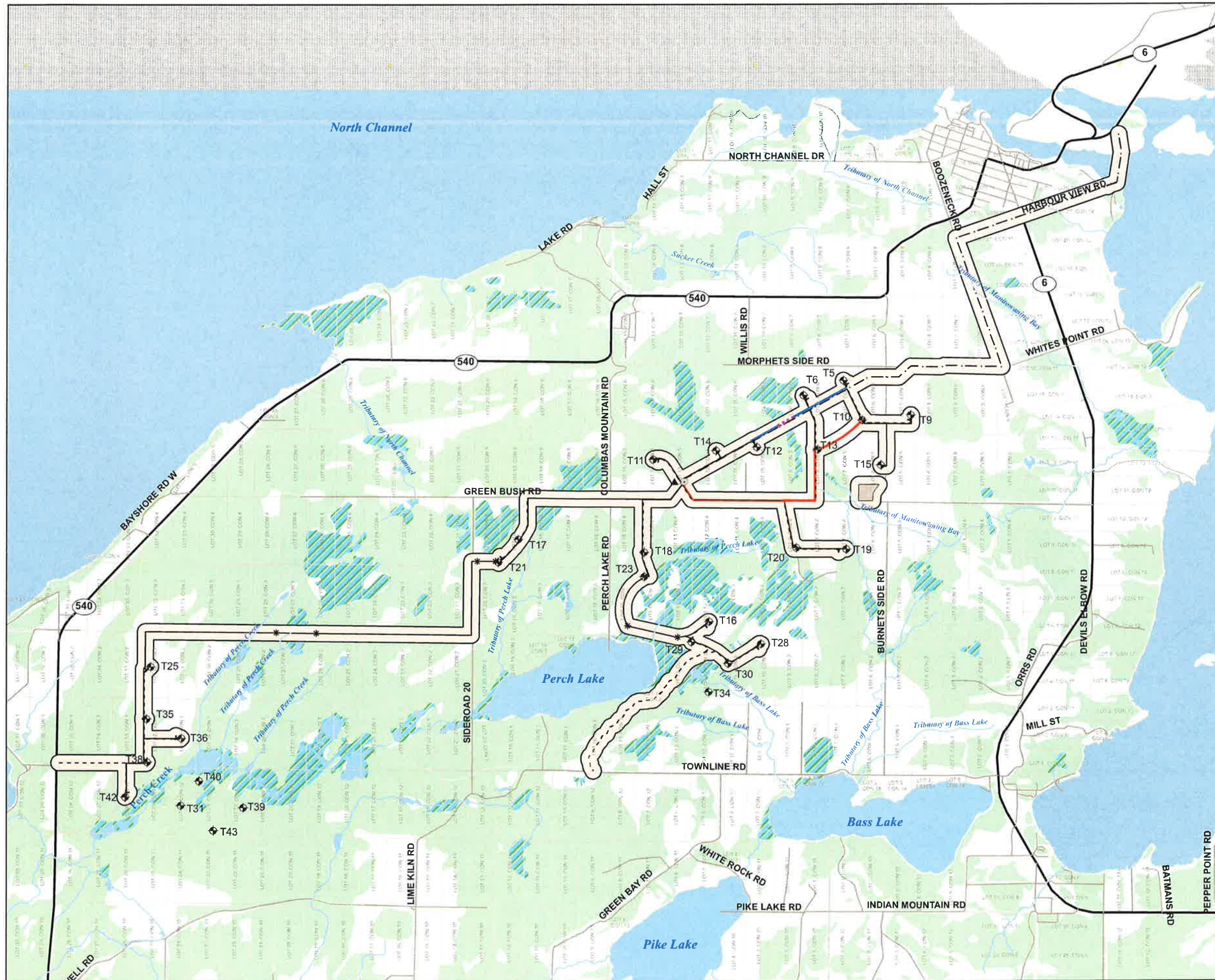
# APPENDIX C

## Site Plan - Changes Comparison September 2013





# McLean's Mountain Wind Farm Site Plan - Changes Comparison September 2013



### Legend

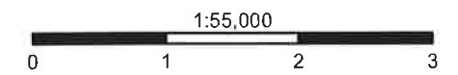
- Local Roads
- Highway
- Lots/Concessions
- Water Body
- Watercourse
- Woodland
- Unevaluated Wetland

### Project Components Unchanged

- Wind Turbine Locations
- Horizontal Directional Drilling Locations
- Operations Building
- Substation
- Hammerhead
- Access Road
- Feeder Line
- Transmission Line
- Construction Laydown Area

### Project Components Changed

- Overhead Feeder Line Added
- Underground Feeder Line Added
- Feeder Line Removed
- February 2013 - 120 m Project Location Setback
- September 2013 - 120 m Project Location Setback



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 Proposed Layout and Component Changes 2013.mxd



# APPENDIX D

## Correspondence with the MNR





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## RE: MMWF\_Potential Feeder Line Realignment

---

**Enneson, Jean (MNR)** <Jean.Enneson@ontario.ca>

Fri, Jul 19, 2013 at 9:01 AM

To: "Restivo, David" <drestivo@dillon.ca>

Cc: 137753 <137753@dillon.ca>, "Richard, Bruce (MNR)" <Bruce.Richard@ontario.ca>, "Robinson, Bob L. (MNR)" <Bob.L.Robinson@ontario.ca>, "Boucher, Nikki (MNR)" <Nikki.Boucher@ontario.ca>

Hello David,

The Ministry of Natural Resources has reviewed the proposed feeder line realignment for the Maclean's Mountain Wind Farm Project, submitted by Dillon Consulting on July 18, 2013.

The proposed alterations have been assessed as minor in nature. As a result the MNR does not require further assessment. The existing Natural Heritage Assessment, as confirmed on September 9, 2011, and your May 6 letter, accepted as an addendum to the Natural Heritage Assessment by MNR on May 24, 2013, apply.

The letter of advice From Nikki Boucher to Jim Mulvale dated June 24, 2013 can be taken to represent MNR's advice with respect to the *Endangered Species Act, 2007* regarding installation of the feeder line in its new location and maintenance of the transmission line.

Please contact me or Bob Robinson if you require any further information.

Regards,

Jean Enneson

**From:** Restivo, David [mailto:drestivo@dillon.ca]

**Sent:** July 18, 2013 11:05 AM

**To:** Robinson, Bob L. (MNR)

**Cc:** Enneson, Jean (MNR); 137753

**Subject:** Fwd: MMWF\_Potential Feeder Line Realignment

Bob,

I want to discuss a potential project realignment for the MMWF project. It involves eliminating sections of the underground collector system (feeder line) along Greenbush Road/Access road to T13 and rerouting this section along the transmission line easement. See attached.

Essentially, there would be less disturbance through the grassland habitat and three additional circuits on the overhead transmission line poles. There is no additional project footprint (i.e., no added project location) as the work will take place in the existing transmission line easement. In fact, the project footprint will be reduced. The mitigation and monitoring plan has been established previously (See attached MAY 6th letter). We also have the LoA for SAR (attached).

We are looking for MNR confirmation that this realignment is acceptable.



**David Restivo**

*Associate*

**Dillon Consulting Limited**

235 Yorkland Blvd Suite 800

Toronto, Ontario, M2J 4Y8

T - 416.229.4647 ext. 2438

F - 416.229.4692

M - 416.300.4918

[DRestivo@dillon.ca](mailto:DRestivo@dillon.ca)

[www.dillon.ca](http://www.dillon.ca)



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**Figure 1**  
**McLean's Mountain Wind Farm**  
**Proposed Layout and Component**  
**Changes February 2013**

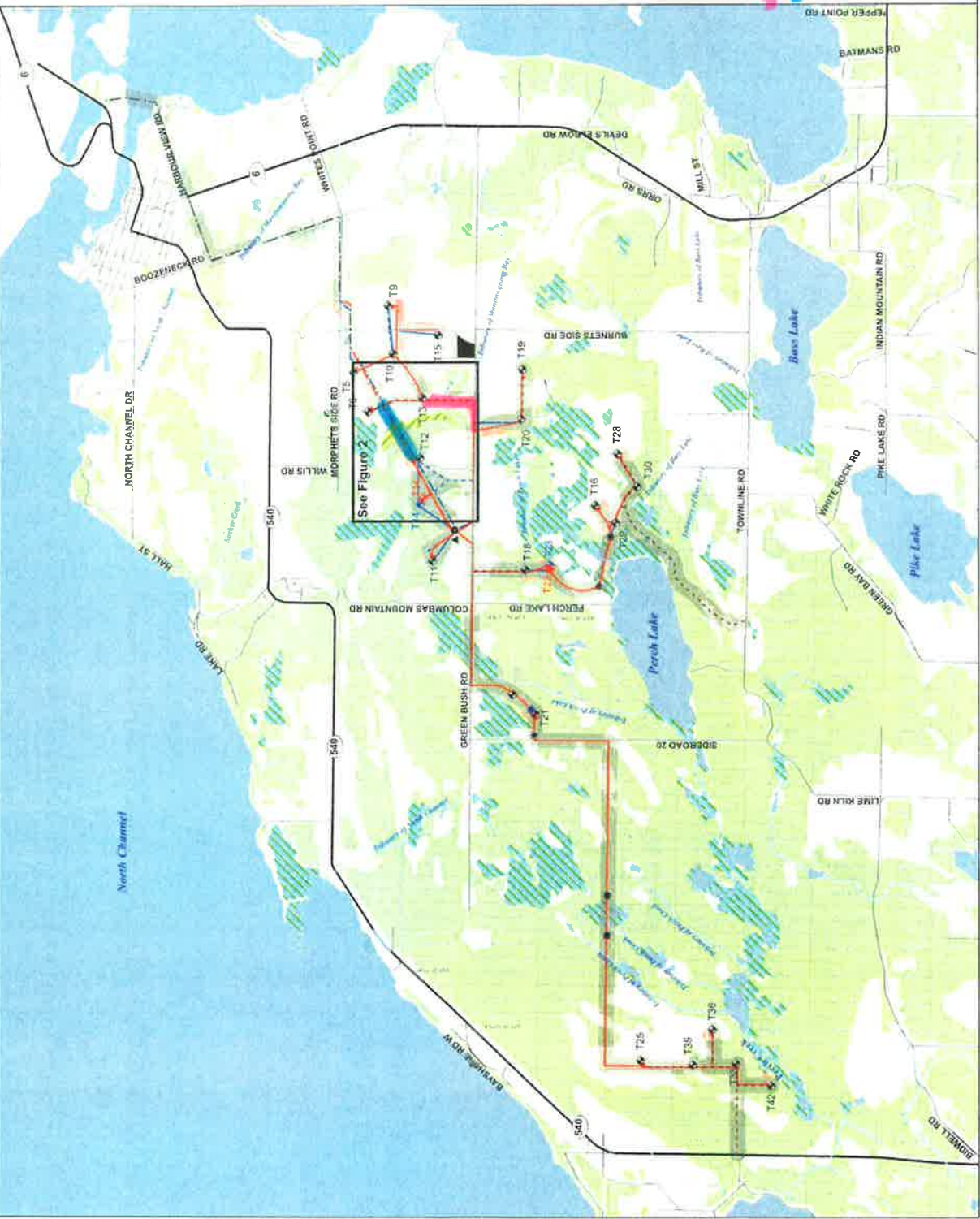
- Legend**
- Local Roads
  - Highway
  - Lot/Concessions
  - Water Body
  - Watercourse
  - Woodland
  - Newly Evaluated Wetland (Subject of This Request)
  - Unevaluated Wetland
- Project Components Unchanged**
- Turbines
  - Horizontal Directional Drilling Locations
  - Operations Building
  - Substation
  - Access Road
  - Feeder Line
  - Transmission Line
  - Construction Laydown Area
  - 120 m Project Location Setback
- February 2013 Relocated Project Component**
- Turbine
  - Horizontal Directional Drilling Locations
  - Access Roads
  - Feeder Line
  - Transmission Line
  - 120 m Project Location Setback
- Project Components to be Removed**
- Horizontal Directional Drilling Locations
  - Access Road
  - Feeder Line
  - Transmission Line

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North Arrow





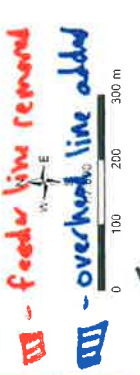


**Figure 2**  
**McLean's Mountain Wind Farm**  
**Newly Evaluated Wetland**

- Legend**
- Local Route
  - Highway
  - Watercourse
  - 120m Project Component Setback
  - Use/Combinations
  - Water Body
  - Wetland

**Ecological Land Classification (Based on Community Code)**

- 11 BO Bog
- 21 CSC 2 Light Industrial
- 31 CUI 3 Sewage and Other Treatment
- 41 CVP 1 Low Density Residential
- 51 FLD Deciduous Forest
- 61 ODM 1 Dry Fresh Oak Deciduous Forest
- 71 FCOM 3 Dry-Fresh Sugar Maple Deciduous Forest
- 81 FCOM 5 Fresh-Moist Paper Deciduous Forest
- 91 FCOM 10 Fresh-Moist Spruce-Fir - Hardwood Moist Forest
- 101 FOM 4 Dry-Fresh White Cedar Moist Forest
- 111 MAMM 1 Gamagrass Moist Meadow
- 121 MAMM 5 Mixed Moist Meadow
- 131 MAMM 10 Gamagrass Shallow Marsh
- 141 MAMM 11 Callow Marsh Shallow Marsh
- 151 MAMM 14 Wetland Shallow Marsh
- 161 R 1 Meadow
- 171 OGD 1 Open Prairie
- 181 R 2 Open Water
- 191 R 3 Open Water
- 201 R 4 Open Water
- 211 R 5 Open Water
- 221 R 6 Open Water
- 231 R 7 Open Water
- 241 R 8 Open Water
- 251 R 9 Open Water
- 261 R 10 Open Water
- 271 R 11 Open Water
- 281 R 12 Open Water
- 291 R 13 Open Water
- 301 R 14 Open Water
- 311 R 15 Open Water
- 321 R 16 Open Water
- 331 R 17 Open Water
- 341 R 18 Open Water
- 351 R 19 Open Water



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