



The Corporation of Loyalist Township
P.O. Box 70, 263 Main Street Odessa, ON K0H 2H0

t: 613-386-7351 f: 613-386-3833 www.loyalist.ca

February 22, 2017

Algonquin Power Co.
354 Davis Road
Oakville, ON
L6J 2X1

Attn: Ariel Bautista, Senior Project Manager

Dear Mr. Bautista:

Re: Fill Permit 2017-01 – Windlectric Project

We have received and reviewed your letter of February 10, 2017, in which you have provided a response to the comments offered by our consultant after reviewing your fill permit application.

We are pleased to confirm that your response has satisfied our concerns, and as such, we are enclosing the approved permit.

Please do not hesitate to contact the undersigned at 613-386-7351, ext. 117, should you have any questions.

Yours truly,

David MacPherson, C.E.T.
Public Works Manager
DM/ka

CC: Dan Fencott, G.D. Jewell Engineering
Guy Laporte, AECOM (retired)
Murray Beckel
Dave Thompson
Robert Maddocks



P.O. Box 70, 263 Main Street
Odessa, Ontario
K0H 2H0

2017 01
(Year - Permit #)

APPLICATION FOR FILL PLACEMENT/ REMOVAL PERMIT

General Requirements

- Permit valid for maximum of two years
- No person shall remove, dump or place fill to alter an approved drainage plan
- All fill must be clean and free of asphalt, trash, rubbish, glass, liquid or toxic chemicals, hazardous waste or garbage materials
- Fill plans, security deposits and in some cases Environmental Impact Statements are required
- Director may require entering into an agreement that may require registering on title to the subject lands
- Certifications of work done by Professional Engineer may be required
- All works subject to inspection by Township staff and their affiliates.
- Schedule "A" of bylaw specifies fees for fill/alteration of grade on property \$300 plus \$250 per hectare or part hectare to a maximum of \$1,000.

Date: 12/21/2016	
Applicant	Property Owner
Name: Windlactic Inc	Name: Lance Eves & Vince Eves
Mailing Address	Mailing Address
Street 354 Davis Road	6400 Front Road, Stella,
City Orillia	Ontario, K0H 2S0
Postal Code L6T 2K2	
Phone: 905 465 4500	
Fax:	
E-mail address: Riley.Griffin@AlbionPower.com	
Details of Project: Wind Project to Access road construction	
Location: 6400 Front Road	
Brief Description of work: grading in conjunction with access road construction. Fill as required. Stockpiling of Aggregate.	
Fill Plan (including drawings and report): See attached drawings labelled C201 & C103	

The undersigned hereby confirms that we fully understand the requirements of the Township's by-law 2003-22, as amended, known, as the Fill bylaw and that we will conform to all requirements. Failure to do so can result in prosecution and/or forfeiting the security deposit. Permit applicants are advised that other agencies may have jurisdiction with regard to proposed activities and it is the applicants' responsibility to obtain all applicable permits.

Riley Griffin
Applicant's Signature
Date: 12/21/2016

Lance Eves & Vince Eves
Owner's Signature
Date: 12/22/2016

Township use Only:	
Permit Fee Paid:	\$ 1,300.00 (Acct. #) 1-4-334-0148
Amount of Security Deposit	\$ (Acct. #)
Approved: <i>Paul Muller</i>	Date: Feb, 22, 2017
Director of Engineering Services or designated official	
Conditions:	
See back for any additional conditions	



Memorandum

To	Dave MacPherson	Date	February 22, 2017	Project Number	150-3800
CC	Dave Thompson, Loyalist Township Murray Beckel, Loyalist Township Bob Maddocks, Loyalist Township Guy Laporte, G.D. Jewell Engineering Inc. Bryon Keene, G.D. Jewell Engineering Inc.				
Subject	Algonquin Power Amherst Island Wind Project – Fill Permit Application Submission				
From	Dan Fencott				

We have completed our review of the response provided by Algonquin Power related to the Amherst Island Wind Project Fill Permit Application Submission dated February 10, 2017. The application is for grading in conjunction with construction of the dock access road and stockpiling of aggregate.

We have no further comments on the fill permit application.

It is recommended that the aforementioned response letter be included with the application package that will be referenced by the fill permit.

The Township should maintain communication with the MOECC to ensure they are also satisfied with the response.

End of Document



POWER INVESTED

Algonquin Power Co

354 Davis Road
Oakville, ON
L6J 2X1

Tel: 905-465-4500
Fax: 905.465.4514

February 10, 2017

Mr. David MacPherson
Public Works Manager
Loyalist Township
Box 70
263 Main Street
Odessa, Ontario
K0H 2H0

RE: Amherst Island Wind Project
Response to Loyalist Township letter dated February 6, 2017

Dear Mr. MacPherson:

Please accept the following responses to your consultant's questions that are itemized in your correspondence, dated February 6, 2017.

Comment #1:

MOECC has approved the ESC and SWMP as submitted, but only for the dock access road and stock pile area. Algonquin Power must submit plans for other components. MOECC has indicated other requirements that must be met before construction starts, most notably:

- a. an emergency response plan must be prepared*
- b. a turbidity sampling program must be submitted to the Director for approval; and*
- c. a Marine Logistics Plan must be prepared*

Response #1:

Algonquin has provided to the Ministry of Environment and Climate Change the necessary information in order to commence construction. It should be noted since the start of construction the company has been in contact with their representative, including on-site visits, in regards to dock construction activity.

Comment #2:

Stantec has prepared an SWMP and ECP of sufficient detail for this application. However, the SWMP, as submitted, does not include sizing calculations for required culverts and does not address the impact of road construction on sheet flow, such as will occur between Drainage Areas 4 and 5. The drawing for Drainage Area 15 shows the turbine access road crossing natural watercourses, but no culverts are indicated. The proponent should be advised that this information will be required for future submissions where drainage impacts will be more substantial than what is anticipated for this first phase of construction.

Response #2:

Culvert sizes were determined through a field assessment of the current drainage and conveyance conditions. Culvert sizes upstream and downstream of the proposed culvert locations were documented. In addition, the MTO guidance document 'MTO Drainage Design Standards' (Section WC-8) was used to confirm the adequacy of culvert sizing. Culvert sizes for the entrance to the island dock are consistent with upstream/downstream culverts and the MTO document referenced above.

Windlectric is aware of the natural watercourses associated with Drainage Area 15 and we are currently working to permit the crossings with the CRCA. Submissions to the Township, for a fill permit, will provide sizing and details of culverts associated with these watercourses.

Comment #3:

There are drawings included in the application materials for the CRCA, showing the proposed access road and works needed for the Island dock. A second set of drawings is also included in the Municipal package, that are further advanced than the drawings sent to CRCA for approval. The approval drawings (for CRCA) show a 500mm culvert to be placed in the ditch at Front Road. The culvert material is unspecified. In the "For Construction" drawings the same culvert is shown as 400mm CSP. Which size will be installed? How was the culvert sized? Did CRCA provide any review of the proposed culverts on the municipal road? Are they aware of the revised size?

Response #3:

The discrepancy between a 400mm and 500mm culvert is the result of a (typographical) error. The entrance culvert for the Island dock parcel should read 500mm. This item has been corrected on the drawing attached to this submission. In addition, the temporary entrance permit, approved by Loyalist Township, notes the correct size of 500mm.

Comment #4:

The same culvert is shown to have 15m of permanent culvert proposed with an additional 21m of temporary culvert. The CRCA permit application drawings show removals of temporary works within the floodplain, but there is no direction provided in the application materials to show removals of the temporary works within the road allowance. Temporary culverts are to be removed immediately after the completion of the turbine construction phase.

Response #4:

Comment noted.

Comment #5:

The south culvert at the same intersection is also changed in size between the two sets of drawings. It appears a 400mm culvert is being proposed as per the "For Construction" drawings. Why?

Response #5:

The discrepancy between a 400mm and 500mm culvert is the result of a (typographical) error. The entrance culvert for the Island dock parcel should read 500mm. This item has been corrected on the drawing attached to this submission. In addition, the temporary entrance permit, approved by Loyalist Township, notes the correct size of 500mm. The culvert sizing process is described in the response to question 2, see above.

Comment #6:

Rip-rap was shown on the entrances and exits of the culverts on the road allowance in the CRCA approval drawings. This rip-rap has been removed in the "For Construction" drawings. Why?

Response #6:

Although rip-rap is not shown on this drawing, the applications to Loyalist Township for temporary entrance permits do show this detail. These permits have been approved and we understand that the Roads Superintendent has inspected the culvert installation on January 12th and 13th. This application has been submitted for fill activities related to the construction of the access road.

Comment #7:

Straw bale flow check dams were initially shown in the CRCA approval drawings, but have been removed in the Municipal application drawings. Why?

Response #7:

Although straw bales are not shown on this drawing, the applications to Loyalist Township for temporary entrance permits do show this detail. These permits have been approved and we understand that the Roads Superintendent has inspected the culvert installation on January 12th and 13th. This application has been submitted for fill activities related to the construction of the access road.

Comment #8:

The storm report states the stockpile areas will be proof-rolled, prior to placing materials. This information has not been carried through to the design drawings. Is this no longer proposed?

Response #8:

Proof rolling will still be carried out as required and described in section 2.2 of the Stormwater report with respect to the laydown area. The drawing provided for review is intended to depict the access road layout.

Comment #9:

Please be advised that this permit does not give approval for the use of the Municipal right-of-way, other than legal uses provided to normal-sized vehicles under the Highway Traffic Act (Ontario). No oversized loads will be allowed until the conditions outlined in the Road Use Agreement are met.

Response #9:

Comment noted.

It is our hope that the above information is satisfactory, and kindly request that the permit be expedited. The project's general contractor is set to proceed with the work as soon as possible and will be working with a local contractor to complete it.

Should you have any questions please feel free to contact the undersigned at 905-465-6756 or Riley Griffin at 905-465-6741.

Sincerely,



Ariel Bautista
Senior Project Manager
Algonquin Power Co. (on behalf of Windlectric, Inc.)

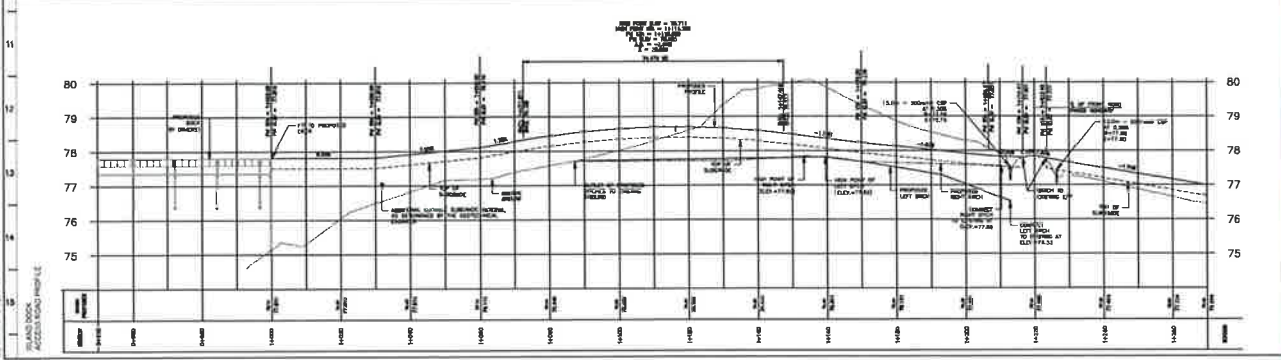
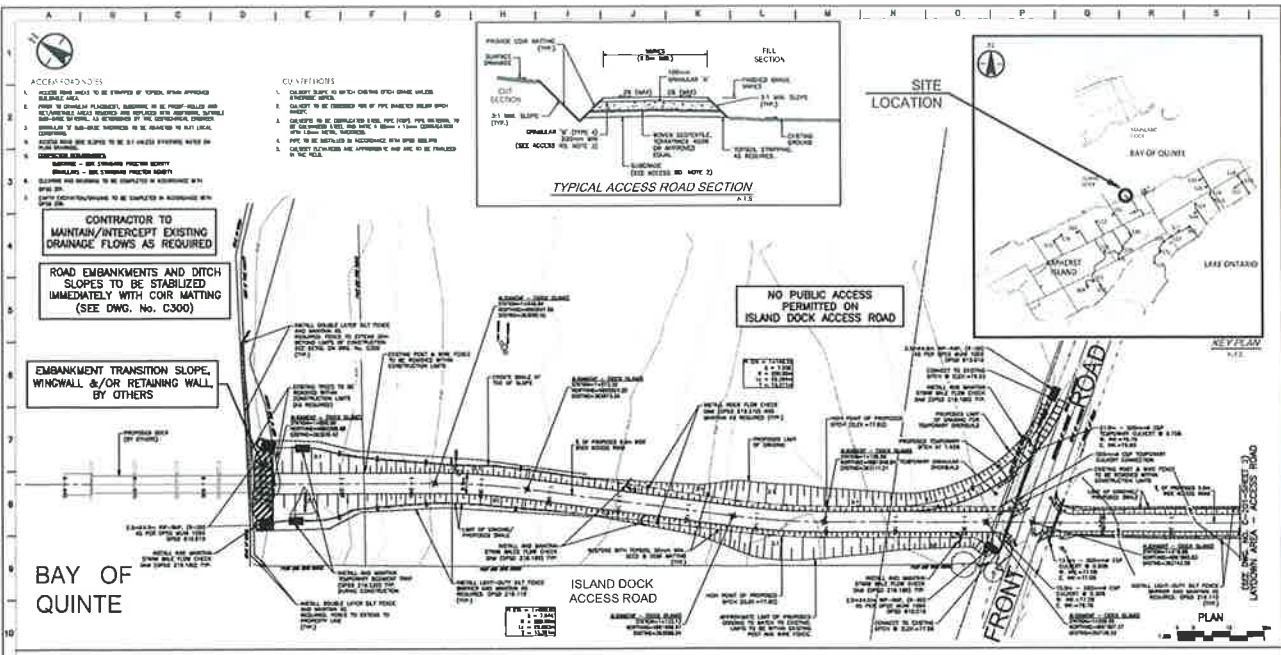
cc: Riley Griffin, Algonquin Power Co.



North Carolina
Professional Engineer
No. 12345
Date: 01/20/2020

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- 1. VERIFY ALL DIMENSIONS AND ELEVATIONS ARE ACCURATE AND CORRECTED TO THE PROPOSED FINISH GRADE. THE EXISTENCE OF ANY OBSTACLES SHALL BE INDICATED BY THE CONTRACTOR. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS FROM THE LOCAL AND STATE AUTHORITIES.
- 2. THE CONTRACTOR SHALL MAINTAIN ALL EXISTING UTILITIES AND STRUCTURES UNLESS OTHERWISE SPECIFIED.
- 3. ALL EROSION CONTROL MEASURES SHALL BE INSTALLED AND MAINTAINED THROUGHOUT CONSTRUCTION.
- 4. THE CONTRACTOR SHALL MAINTAIN ACCESS TO ALL ADJACENT PROPERTIES AND PUBLIC ROADS.
- 5. ALL MATERIALS AND METHODS SHALL BE APPROVED BY THE ENGINEER BEFORE CONSTRUCTION.
- 6. THE CONTRACTOR SHALL MAINTAIN RECORDS OF ALL CONSTRUCTION ACTIVITIES.
- 7. ALL WORK SHALL BE COMPLETED WITHIN THE SPECIFIED TIME FRAME.
- 8. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS FROM THE LOCAL AND STATE AUTHORITIES.
- 9. THE CONTRACTOR SHALL MAINTAIN ACCESS TO ALL ADJACENT PROPERTIES AND PUBLIC ROADS.
- 10. ALL MATERIALS AND METHODS SHALL BE APPROVED BY THE ENGINEER BEFORE CONSTRUCTION.



NO.	DESCRIPTION	DATE
1	ISSUED FOR PERMITTING	01/20/2020
2	ISSUED FOR CONSTRUCTION	01/20/2020
3	ISSUED FOR AS-BUILT	01/20/2020

NO.	DATE	BY	DESCRIPTION
1	01/20/2020	J. Smith	ISSUED FOR PERMITTING
2	01/20/2020	J. Smith	ISSUED FOR CONSTRUCTION
3	01/20/2020	J. Smith	ISSUED FOR AS-BUILT



Client: PENNECON
ADDRESS: ISLAND WIND PROJECT
75AW WIND FARMS
Address: 12345 Industrial Drive

File: ACCESS ROAD ISLAND DOCK PLAN AND PROFILE
Project No: 131600-00
Scale: 1/4" = 1'-0"
Drawing No: C201