



**North Burgess Solar Farm**

January 13, 2014

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

Attention: Mr. Vic Schroter, Director, EPA Section 47.5

**Re: North Burgess Solar Farm Project  
Renewable Energy Approval (REA) #5149-8YPMVG - Amendment 2**

Northland Power Inc's North Burgess Solar Farm has been under construction since April 2013. This application is to request a minor amendment for alterations to the high water mark of an adjacent tributary and for the relocation of a fence line immediately next to a row of trees.

Please find attached: an amendment cover letter/report (modification document) on Hatch letterhead dated December 17, 2013, which includes a description of the amendment request, a revised site plan and a completed Application form; an application fee cheque in the amount of \$300.

A copy of this amendment application has been couriered to the MOE, District Office, as well.

Should you have any questions about the attached documents, please feel free to contact me at 416 662 1437.

Yours truly,

Jim Mulvale  
Manager EH&S  
Northland Power Inc.  
[Jim.mulvale@northlandpower.ca](mailto:Jim.mulvale@northlandpower.ca)

Cc: MOE Ottawa District Manager

Attach: Hatch Cover Letter Report/Modifications Document  
which includes Renewable Energy Approval Amendment Application

December 17, 2013

Agatha Garcia-Wright, Director  
Ontario Ministry of Natural Resources  
2 St. Clair Avenue, Floor 12A  
Toronto, ON M4V 1L5

Dear Ms. Garcia-Wright:

**Subject: Proposed Changes  
Renewable Energy Approval (No. 5149-8YPMVG) - Amendment Request  
North Burgess Solar Project**

As you are aware, Northland Power Solar North Burgess L.P., has almost completed construction of the North Burgess Solar Project facility, located on a privately owned parcel of land on Narrows Lock Road near the intersection with Scotch Line, within the Township of Tay Valley in Lanark County; herein referred to as “North Burgess” or the “Project”. The Ministry of the Environment (MOE) issued a Renewable Energy Approval (REA) for the Project (No. 5149-8YPMVG) on November 7, 2012, along with an amendment to the REA on April 11, 2013.

Since the receipt of the amendment in April of 2013, additional changes to the Project have been identified:

- A reassessment of the high water mark for Tributary B was completed during the summer of 2012, which resulted in the relocation of the 30 m setback from the watercourse. As a result, additional lands are available for Project activities, which will be used for tree removal/vegetation management during operations of the Project
- The Project fence line was installed with no setback to the trees associated with the woodland along the southern boundary of the Project site. As a result, this does not meet the required mitigation measure identified within the Natural Heritage Environmental Impact Study for the Project. As opposed to removing additional trees, Northland is proposing to remove the identified mitigation measure.
- Northland has identified a need to conduct occasional tree tending and maintenance along their property line within the woodland community in order to ensure the protection of Project equipment and safety of individuals working on the Project site, as well as to reduce shading impact on nearby solar panels. It is anticipated that this would occur within 10 m of the Project boundary and would occur periodically throughout the operations phase of the Project.

Northland Power Solar North Burgess L.P. would like to submit an amendment to the REA to take into consideration these changes identified above.

This letter summarizes the proposed changes to the Project, including the rationale for each change, and identifies the amendments to each of the supporting documents prepared for the REA application to

incorporate the proposed Project changes. This letter also provides an assessment of the potential for new negative effects not addressed in the initial REA supporting documentation.

## 1. Proposed Project Changes

Table 1.1 provides a description of each proposed change, the rationale for the change, an assessment of potential for altered environmental effects and any additional mitigation or monitoring required.

**Table 1.1 Table of Proposed Changes, Rationale for Change, Altered Effects and Additional Mitigation Measures and Monitoring**

| <b>Change</b>   | <b>Change Details</b>  | <b>Rationale for Change</b>   | <b>Altered Effect</b>   | <b>Additional Mitigation Required</b>  | <b>Additional Environmental Effects Monitoring</b> |
|---|--|---|---|--|--|
| Revisions to high water mark for watercourse and associated Project location      | The high water mark for Tributary B was adjusted, further west in two locations, and the Project location was similarly adjusted.  | A site visit was conducted in order to confirm the high water mark. Details are provided below. As a result of the revision, a modification was made to the Project location to identify additional vegetation management areas in order to prevent shading of the nearby solar panels.           | No  | No   | No   |
| Removal of the 1 m setback from dripline of trees within the significant woodland | The fence will now be located immediately within the significant woodland, under the branches/drip line of the first row of trees. | Following installation of the Project fence, it was determined that the 1 m setback from the dripline was not incorporated by the construction contractor. Rather than removing additional trees, the 1 m setback from the Natural Heritage Environmental Impact Study is proposed to be removed. | The presence of the fence in close proximity to the remnant trees may result in some damage to the nearby trees through impacts to the root system/soil compaction. | In the Natural Heritage EIS for the Project, Northland committed to a woodland compensation planting program for all trees removed at a 1:1 basis. Northland has already committed to replanting at a 1.25:1 basis with the Township of Tay Valley and therefore any additional trees impacted by the location of the fence will be compensated for within the existing program. | No   |
| Tree trimming in the significant woodland   | Tree trimming and maintenance is proposed within the significant woodland  | Northland requires the ability to maintain these trees in order to protect Project equipment and safety of employees, as well   | Yes, potential for destruction of trees if not properly trimmed   | Trimming to be conducted or overseen by a certified arborist to ensure survival of trees. Should any   | No   |

| Change | Change Details  | Rationale for Change   | Altered Effect | Additional Mitigation Required  | Additional Environmental Effects Monitoring |
|--------|---|--|----------------|---|---|
|        | adjacent to portions of the Project boundary. Tree trimming will occur up to a maximum of 10 m from the fence line. | as to reduce the shading impact on adjacent panels. Ensuring that dead trees along the perimeter edge may be cleared during the life of the Project, so as not to create a H&S hazard. |                | trees be inadvertently destroyed through this process, the additional tree compensation discussed in the row above would compensate for the lost individuals. |   |

Overall, the proposed Project changes will have no altered effects on waterbodies, but will have altered effects to the significant woodland along the southern portion of the Project location. However, the amount of woodland potentially impacted by the proposed activities would remain well below the area initially confirmed by MNR for complete removal (i.e., initial proposal confirmed by MNR was the removal of 14.0 ha of trees from the significant woodland, current proposal is to remove 9.0 ha and to trim an additional 1.1 ha). In addition, mitigation measures have been identified to compensate for any damage to adjacent trees such that there will be no new net effect on the environment in the area to the natural environment or waterbodies. Based on this, the proposed changes are determined to be a Project Design Change (Minor) Amendment.

## 2. Summary of Revisions to REA Supporting Documents

This section identifies the amendments to each of the supporting documents submitted with the original REA Application that are required to address the proposed Project changes.

The supporting documents that are amended by this letter include

- Construction Plan Report
- Design and Operations Report
- Natural Heritage Environmental Impact Study Report
- Water Body Site Investigation Report.
- Water Body Environmental Impact Study Report.

Several studies are not impacted by these proposed changes, as these reports considered the entire property. Therefore, a number of the REA supporting documents do not require revisions as a result of the proposed changes, including

- Decommissioning Plan Report
- Protected Properties Assessment
- Natural Heritage Records Review
- Natural Heritage Site Investigation

- Natural Heritage Evaluation of Significance
- Project Description Report
- Stage 1 and 2 Archaeological Assessments (previous assessments included the areas described herein)
- Water Body Records Review Report
- Noise Assessment Report

The following sections identify the amendments to each of the REA supporting documents as a result of the proposed Project changes. For each amended report, a table is provided identifying the original text, the amended text and the original page and section of the text being amended. The tables provide the text submitted with the original REA application, the application to amend the REA and the most recent revisions in response to the currently proposed Project changes.

## 2.1 Construction Plan Report

Table 2.1 identifies the amendments to the Construction Plan Report, as a result of the changes discussed in this letter.

**Table 2.1 Construction Plan Report Amendments**

| Page | Section    | Original Text | Amended Text                                      |
|------|------------|---------------|---|
| 27   | Appendix A | Site Layout   | Revised Site Layout (Attachment A of this report) |

## 2.2 Design and Operations Report

Table 2.2 identifies the amendments to the Design and Operations Report, as a result of the changes discussed in this letter.

**Table 2.2 Design and Operations Report Amendments**

| Page | Section    | Original Text | Amended Text                                       |
|------|------------|---------------|--|
| 21   | Appendix A | Site Layout   | Revised Site Layout (Attachment A of this report). |

## 2.3 Natural Heritage Environmental Impact Study Report

Table 2.3 identifies the amendments to the Natural Heritage Environmental Impact Study, as a result of the changes discussed in this letter.

**Table 2.3 Natural Heritage Environmental Impact Study Amendments**

| Page | Section     | Original Text  | Revised Text  |
|------|-------------|--|---|
| 9    | Figure 1.1. | Figure 1.1.  | Updated Figure 1.1. (Attachment B of this report).  |
| 17   | 4.1.1.1.1   | The fence line will be installed at the edge of the cleared area at 1 m from the dripline of the | The fence line will be installed at the edge of the cleared area. As there will be no setback from the dripline of trees along the edge of the woodland there exists the potential for damage to the root zone of the |

| Page | Section                | Original Text  | Revised Text  |
|------|------------------------|--|---|
|      |                        | woodland.  | trees due to soil compaction or physical interference with the roots as a result of installation of the fencing. Should any trees be lost as a result of this work, they will be compensated through the woodland compensation program described below.   |
| 17   | 4.1.1.1.1              | The woodland restoration program will consist of targeted tree planting on a number of properties in eastern Ontario to facilitate the restoration of an equal area of woodland as was removed from the Project location (currently anticipated to a maximum of approximately 9.6 ha, pending final design). | The woodland restoration program will consist of targeted tree planting on a number of properties in eastern Ontario to facilitate the restoration of an area of woodland equal to 1.25 times that removed from the Project location (currently anticipated to a maximum of approximately 9.6 ha removed from the Project location, pending final design)   |
| 18   | 4.1.1.2                | A minimum 5-m setback from the wetland community in agricultural areas, and a minimum 30-m setback in treed areas, will be in place to ensure impacts are minimized.   | <i>Note: Portions of this text were amended by previous amendments and the discussion herein reflects only the proposed change related to tree trimming adjacent to the wetland.</i><br><br>Along an approximately 100m long portion of the wetland, it is proposed to trim trees within a 10 m corridor up to the edge of the wetland community. In order to ensure the health of any managed trees in this area, any required maintenance will be conducted or overseen by a certified arborist to ensure survival of trees. Should any trees be inadvertently destroyed through this process, they will be replaced as soon as possible (i.e. within the next suitable planting timeframe) by planting saplings at the location of the destroyed tree and tending them as required for the first 5 years following planting. |
| 21   | New Section<br>4.1.2.4 | None   | <b>4.1.2.4 – Vegetation Management within Significant Woodland</b><br><br>Vegetation management within the significant woodland will consist of tree trimming and maintenance. This will occur within 10 m of the Project fence line, as shown in Figure 1.1 The total area identified for vegetation management is 1.1 ha. In order to ensure the health of any managed trees, any required maintenance will be conducted or overseen by a certified arborist to ensure survival of trees. Should any trees be inadvertently destroyed through this process, the tree compensation program discussed previously in Section 4.1.1.1.1 would compensate for the lost individuals.  |
| 32   | Appendix A             | Site Layout  | Revised Site Layout (Attachment A of this report).  |

## 2.4 Water Body Site Investigation Report

Table 2.4 identifies the amendments to the Water Body Environmental Impact Study, as a result of the changes discussed in this letter.

**Table 2.4 Water Body Site Investigation Report Amendments**

| Page | Section    | Original Text   | Revised Text  |
|------|------------|---|---|
| 7    | 3          | The original text in this section described Site Investigation 1 alone.   | <p><b>Site Investigation 2</b></p> <p><i>Date, Time and Duration of Site Investigation:</i><br/>Date: July 19, 2013<br/>Start Time: 09:30<br/>End Time: 11:30<br/>Duration: 2 hours</p> <p><i>Weather During Site Investigations:</i><br/>Temperature: 28°C<br/>Beaufort Wind: 3<br/>Cloud Cover: 20%</p> <p><i>Name and Qualification of Person Conducting Site Investigation:</i><br/>The site investigation was completed by Caleb Coughlin.<br/>Caleb is an environmental technologist with experience in fisheries and fish habitat assessments. Recent projects have included spawning surveys (Muskoka and Trout Lake rivers), Riverine Index Netting (White Lake and Mattagami River), Fall Walleye Index Netting (Mattagami River), forage fish collection, Brook Trout mark and recapture studies and Ontario Broad-scale Monitoring (OBM). A recent study required a complete fish community inventory involving electrofishing, trap netting and seine netting (Shickluna Hydro Development). He has participated in a number of other resource management studies focusing on aquatic and terrestrial ecosystems including assessments of natural heritage features, aquatic invasive species, avian populations, large mammals, furbearers and sustainable forestry practices.</p> <p><i>Survey Methods:</i><br/>The main objective of this site visit was to delineate the high water mark of Tributary B. As this waterbody was previously described, the focus of this effort was the delineation of the upstream extents of these waterbodies. In order to facilitate this work, the boundary was delineated with a surveyor from McIntosh Perry. Photographs of the upstream areas were taken (see Figure 2-1 below this table for representative pictures).</p> |
| 11   | Figure 4.1 | Figure 4.1  | Figure 4.1 is replaced with a revised Figure provided in Attachment C of this report.   |
| 13   | 4.1.2      | As shown in Figure 4.1, the upstream-most approximately 100 m of the tributary are identified as a grassed waterway, since there is no defined channel and vegetation is dominated by meadow species that do not require or prefer submergence or continuously saturated soil conditions. Therefore, no setback is required around this section | As shown in Figure 4.1, the upstream-most approximately 100 to 150 m of the tributary are identified as a grassed waterway, since there is no defined channel and vegetation is dominated by meadow species that do not require or prefer submergence or continuously saturated soil conditions. Therefore, no setback is required around this section of the tributary, although the surface drainage that occurs in the area will require   |



| Page | Section | Original Text  | Revised Text  |
|------|---------|--|---|
|      |         | of the tributary, although the surface drainage that occurs in the area will require consideration during Project planning to ensure existing drainage patterns are maintained and erosion is prevented. | consideration during Project planning to ensure existing drainage patterns are maintained and erosion is prevented. |



Figure 2-1 View of upland area previously considered to be part of Tributary B.

## 2.5 Water Body Environmental Impact Study Report

Table 2.3 identifies the amendments to the Water Body Environmental Impact Study, as a result of the changes discussed in this letter.

**Table 2.3 Water Body Environmental Impact Study Amendments**

| Page | Section    | Original Text | Revised Text                                       |
|------|------------|---------------|--|
| 9    | Figure 1.1 | Figure        | Revised Figure 1.1 (Attachment D of this report)   |
| 31   | Appendix A | Site Layout   | Revised Site Layout (Attachment A of this report). |



### 3. Consultation

The Ontario Ministry of Tourism, Culture and Sport and the Ontario Ministry of Natural Resources have been copied on this notification to ensure they are aware of the proposed changes.

In order to ensure that the public, Aboriginal communities, the Township of Tay Valley and Lanark County are aware of the proposed changes, we propose, once confirmed by MOE, to notify these individuals via letter of the proposed changes to the Project.

### 4. Conclusion

Because the proposed changes as outlined in this letter do not result in any significant additional negative effects following the implementation of proposed mitigation measures, it is our assessment that these proposed changes constitute a Project Design Change (Minor).

Once you have had an opportunity to review the information contained herein, if you have any questions relating to the proposed amendment, please do not hesitate to contact me at 905-374-0701, Ext. 5280.

Yours truly,



Sean Male  
Environmental Coordinator  
SM:mg

cc: Rob Miller, Northland Power  
Kathy Woeller, Ontario Ministry of Natural Resources  
Ian Hember, Ontario Ministry of Tourism, Culture and Sport

**General Information and Instructions**

**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: 2286320

## Application Summary

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

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)*

The proposed facility is a 10 MW solar generating facility, located in the township of Tay Valley, in Lanark County. The project will generate electricity using photovoltaic panels mounted on fixed racking structures, with in-ground foundations. Direct current generated by the panels is converted to alternating current by inverters and stepped up to intermediate voltages by a transformer. Alternating current is routed to a main facility substation where it is stepped up to distribution line voltage. A short distribution line is used to connect the facility into the existing distribution grid. Other project components include access roads, a control building and site fencing. This amendment is being made in order to identify additional changes to the Project, including changes to vegetation management, the setback of the fence line from the boundary of the woodland and the high water mark for Tributary B.

| 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<br>Amendment to REA 5149-8YPMVG | Type of Renewable Energy Generation Facility<br>Solar Photo Voltaic Class 3. |
| Total Maximum Name Plate Capacity<br>10 MW          |  |
| Total Expected Generation Capacity<br>10 MW         |  |

## 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)<br><b>Northland Power Solar North Burgess L.P.</b>  |  | Business Identification Number<br><b>191194752</b>  |
| Business Name (the name under which the entity is operating or trading - also referred to as trade name)<br><b>Northland Power Solar North Burgess L.P.</b>   |  | <input checked="" type="checkbox"/> same as Applicant Name  |
| Applicant Type:<br><input type="checkbox"/> Corporation <input type="checkbox"/> Federal Government<br><input type="checkbox"/> Individual <input type="checkbox"/> Municipal Government<br><input checked="" type="checkbox"/> Partnership <input type="checkbox"/> Provincial Government<br><input type="checkbox"/> Sole Proprietor <input type="checkbox"/> Other (describe): |  | North American Industry Classification System (NAICS) Code<br><b>221119 Other Electric Power Generation</b> |
| Business Activity Description (a description of the business endeavour, this may include products sold, services provided or machinery/equipment used, etc.)<br><b>Northland Power specializes in the development and operation of renewable energy facilities, including solar power projects</b>  |  |   |



### 1.2 Applicant Physical Address

|   |  |  |   |
|---|--|--|---|
| Civic Address- Street information (includes street number, name, type and direction)<br><b>30 St. Clair Avenue West</b> |  | Unit Identifier (i.e. apartment number)<br><b>12th Floor</b> |   |
| Survey Address<br>(Not required if Street Information is provided)  | Lot  | Conc.  | Part  |
| Municipality /Unorganized Township<br><b>Toronto</b>  | County/District  | Province/State<br><b>Ontario</b>                             | Country<br><b>Canada</b>  |
| Postal Code<br><b>M4V 3A1</b>   | Telephone Number (include area code & ext.)<br><b>(647)288-1273 ext.</b> | Fax Number (include area code)<br><b>(416)962-6266</b>       | Mobile Number (include area code)<br>E-mail Address<br><b>jim.mulvale@northlandpower.ca</b> |

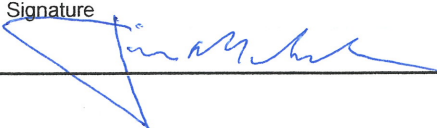


### 1.3 Applicant Mailing Address

|  |                                  |
|--|----------------------------------|
| 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)<br><b>30 St. Clair Avenue West</b> |                                  |
| Unit Identifier (i.e. apartment number)<br><b>12th Floor</b>   |                                  |
| Delivery Designator  | Delivery Identifier              |
| Municipality /Unorganized Township<br><b>Toronto</b>   | Province/State<br><b>Ontario</b> |
| Country<br><b>Canada</b>   | Postal Code<br><b>M4V 3A1</b>    |



### 1.4 Statement of Applicant

|  |   |  |
|--|---|--|
| I, the undersigned hereby declare that, to the best of my knowledge:   |   |  |
| <ul style="list-style-type: none"> <li>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 <i>Environmental Protection Act</i>.</li> <li>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.</li> <li>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.</li> </ul> |   |  |
| Name of Signing Authority (please print)<br><b>Jim Mulvale</b>   | Title<br><b>Manager, EH &amp; S</b>   |  |
| Telephone Number (including area code & extension)<br><b>(647)288-1273 ext.</b>  | Fax Number (including area code)<br><b>(416)962-6266</b>  | E-mail Address<br><b>jim.mulvale@northlandpower.ca</b> |
| Mobile Number (including area code)<br><b>(416)662-1437</b>  | Signature<br> | Date (y/m/d)<br><b>2013/12/20</b>                      |

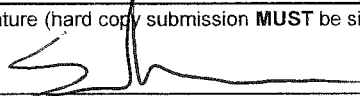
## Section 2: Project Information

Form ID: 2286320

**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                          | 5149-8YPMVG  |   |   |
| 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)              |   |
| 2013/02/15  |  | 2014/01/31  |   |

**2.2 Statement of Project Technical Information Contact**

|  |                                       |  |  |
|--|---------------------------------------|--|--|
| Is the Project Technical Information Contact the same as the Applicant (identified in Section 1)? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No  |                                       |  |  |
| <p><b>I, the undersigned hereby declare that, to the best of my knowledge:</b></p> <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                                  |  |
| Sean Male  |                                       | Hatch                                    |  |
| 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                                 |
| (905)374-0701 ext. 5280  | (905)374-1157                         |  | smale@hatch.ca                                 |
| Signature <i>(hard copy submission MUST be signed)</i>   |                                       | Date (yyyy/mm/dd)                        |  |
|   |                                       | 2013/12/17                               |  |
| Address Information:   |                                       |  |  |
| Same as Applicant Mailing Address? <input type="checkbox"/> Yes <input checked="" 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> |
| 4342 Queen Street  |                                       |  | Suite 500                                      |
| Delivery Designator  | Delivery Identifier                   | Postal Station                           |  |
|  |                                       |  |  |
| Municipality /Unorganized Township   | Province/State                        | Country                                  | Postal Code                                    |
| Niagara Falls  | Ontario                               | Canada                                   | L2E 7J7  |



**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<br>(yyyy/mm/dd) | Approval Number | Approval Date<br>(yyyy/mm/dd) | Approval Number | Approval Date<br>(yyyy/mm/dd) |
|-----------------|-------------------------------|-----------------|-------------------------------|-----------------|-------------------------------|
|                 |                               |                 |                               |                 |                               |
|                 |                               |                 |                               |                 |                               |
|                 |                               |                 |                               |                 |                               |

Ontario Power Authority (OPA) Registration ID (if applicable)  
F-000567-SPV-130-505

Ontario Power Authority (OPA) Reference Number (if applicable)  
FIT-F0HJPWL

**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 checked="" type="checkbox"/> Class 3 |
| <input type="checkbox"/> Class 3 | <input type="checkbox"/> Biogas  | <input type="checkbox"/> Class 2 | <input type="checkbox"/> Class 2 |   |
| <input 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:<br>   |                                  |                                  |   |

**2.5 Generation of Electricity**

| Total Maximum Name Plate Capacity        | Total Expected Generation Capacity       |
|--|--|
| 10 MW (1 MW = 1000 kW / 1 kW = 0.001 MW) | 10 MW (1 MW = 1000 kW / 1 kW = 0.001 MW) |
| Days and Hours of Operation              |  |
| 365 d/yr, sunlight hours                 |  |

### 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) |
| n/a  |                 |                   |                        |                |   |
| Survey Address<br><i>(Legal description of the site)</i>   | Lot             | Conc.             | Part                   | Reference Plan |   |
|  | Part Lot 13     | 9                 | n/a                    | n/a            |   |
| Municipality / Unorganized Township  | County/District |                   | Postal Code            |                |   |
| Township of Tay Valley   | Lanark county   |                   | K7H 3C5                |                |   |
| Non Address Information (where the project spans many locations or a large rural area, specify how the project area relates to the address provided)           |                 |                   |                        |                |   |
| The Project is located on approximately 78 ha of land on a property associated with the above address. UTM below is the facility's main transformer location.  |                 |                   |                        |                |   |
| Geo Reference (southwest corner of property)   |                 |                   |                        |                |   |
| Map Datum  | Zone            | Accuracy Estimate | Geo Referencing Method | UTM Easting    | UTM Northing                            |
| NAD83  | 18              | +/- 10 m          | GIS mapping            | 396658.5       | 4963853.2                               |



#### 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                     |  |
| Township of Tay Valley  |  | 217 Harper Rd, RR 4, Perth, On K7H SC6              |  | (613)267-5353             |  |
| Clerk's Name  |  | Clerk's Phone/Fax                                   |  | E-Mail Address            |  |
| Amanda Mabo   |  | (613)264-8516                                       |  | clerk@tayvalleytwp.ca     |  |
| Is the project location situated in one or more Upper Tier Municipality? (i.e., county, regional or district municipality.) <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No |  |   |  |                           |  |
| <i>List all Upper Tier Municipalities that the project location is situated in. Attach a separate list if more space is necessary</i>   |  |   |  |                           |  |
| Name of Municipality  |  | Address   |  | Phone                     |  |
| Lanark County   |  | PO Box 37, 99 Christie Lake Road, Perth, On K7H 3E2 |  | (613)267-4200             |  |
| Clerk's Name  |  | Clerk's Phone/Fax                                   |  | E-Mail Address            |  |
| Cathie Richie   |  | (613)267-2964                                       |  | clerk@county.lanark.on.ca |  |
| Is the project location situated in a Local Roads Area? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No   |  |   |  |                           |  |
| <i>List all Local Roads Areas that the project location is situated in. Attach a separate list if more space is necessary</i>   |  |   |  |                           |  |
| 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  |  |   |  |                           |  |
| <i>List all Local Service Board areas the project location is situated in. Attach a separate list if more space is necessary</i>  |  |   |  |                           |  |
| 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<br>Kingston District Office |
| North Burgess Solar Project  |   |
| 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><i>If no, please attach the owner's name, address and a signed letter granting consent for the installation and operation of the facilities</i></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><i>If no, please attach the operating authority name, address and phone number</i></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  |   |
| 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  |   |
| 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  |   |

## Section 4: Required Documents – Table 1 of the Regulation

**4.1 Supporting Information Checklist** - This is a list of all supporting information to this application and is subject to the FOIPPA and EBR.

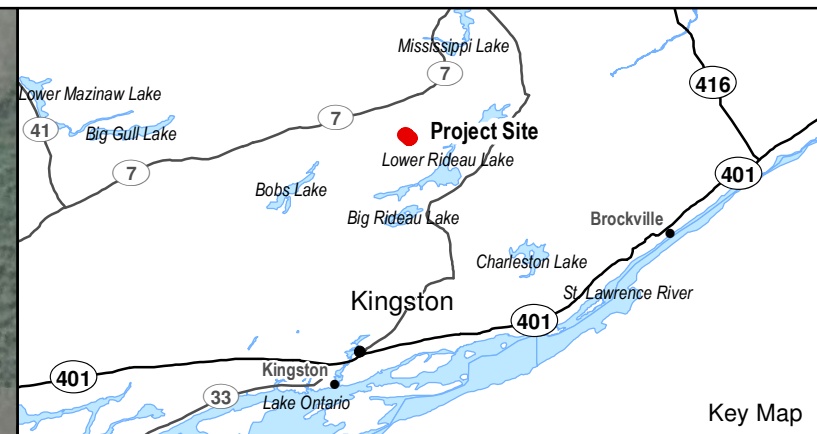
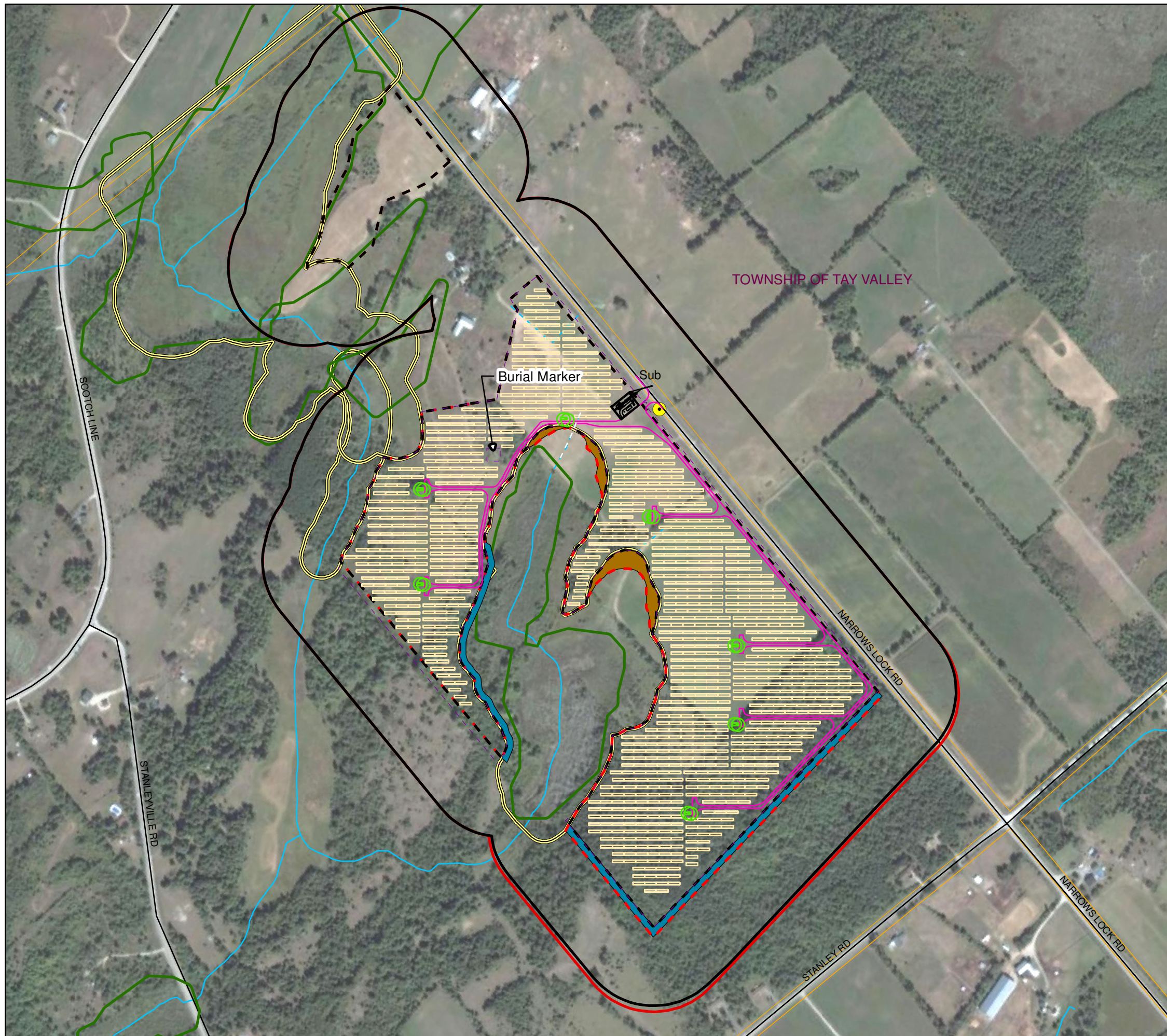
| Mandatory   | Attachment   | Attached   | Reference                                      | Confidential*<br>(√)     |
|---|--|--|--|--------------------------|
| ★ Yes   | Proof of Legal Name of Applicant   | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No  | Previously submitted with original application | <input type="checkbox"/> |
| ★ Yes   | A map that identifies the project location.  | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No  | Previously submitted with original application | <input type="checkbox"/> |
|   | Name, Address and Phone Number of the Operating Authority  | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No  | Previously submitted with original application | <input type="checkbox"/> |
| ★ Yes   | Name, Address and consent of land/site owner for the installation/construction and operation of the facility | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No  | Previously submitted with original application | <input type="checkbox"/> |
| ★ Yes   | Project Description Report   | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No  | Previously submitted with original application | <input type="checkbox"/> |
| ★ Yes   | Design and Operations Report   | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No  | Previously submitted with original application | <input type="checkbox"/> |
| ★ Yes   | Decommissioning Plan Report  | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No  | Previously submitted with original application | <input type="checkbox"/> |
| ★ Yes   | Construction Plan Report   | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No  | Previously submitted with original application | <input type="checkbox"/> |
| ★ Yes   | Consultation Report  | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No  | Previously submitted with original application | <input type="checkbox"/> |
|   | Development Permit under the <i>Niagara Escarpment Planning and Development Act</i>                          | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No  |  | <input type="checkbox"/> |
| ★ Yes   | A copy of this application has been sent to the local district office(s)                                     | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No  |  | <input type="checkbox"/> |
| <b>Other Information Submitted in Support of the Application for a Renewable Energy Project</b>                             |  |  |  |                          |
| Title   | Reference  | Confidential*<br>(√)   |  |                          |
| ★ Project Change Letter to MOE  |  | <input type="checkbox"/>   |  |                          |
|   |  | <input type="checkbox"/>   |  |                          |
|   |  | <input type="checkbox"/>   |  |                          |
|   |  | <input type="checkbox"/>   |  |                          |
|   |  | <input type="checkbox"/>   |  |                          |
|   |  | <input type="checkbox"/>   |  |                          |
|   |  | <input type="checkbox"/>   |  |                          |
|   |  | <input type="checkbox"/>   |  |                          |
|   |  | <input type="checkbox"/>   |  |                          |
|   |  | <input type="checkbox"/>   |  |                          |
|   |  | <input type="checkbox"/>   |  |                          |
|   |  | <input type="checkbox"/>   |  |                          |
|   |  | <input type="checkbox"/>   |  |                          |
|   |  | <input type="checkbox"/>   |  |                          |
|   |  | <input type="checkbox"/>   |  |                          |
| Are you attaching an additional list of attachments?<br><input type="checkbox"/> Yes <input checked="" type="checkbox"/> No |  | If there is not enough space to list all of the attachments included in this application package, please include an additional listing of these attachments. |  | <input type="checkbox"/> |

**\*Please note:** the release of information contained in application forms and documentation submitted in support of applications for approval is subject to the provisions of the *Freedom of Information and Protection of Privacy Act*. This Act defines what may and may not be disclosed to the public, and is used to assess all requests for information contained in the documents on file with an application for approval. The information submitted with an application for approval may also be subject to the *Environmental Bill of Rights*. In those situations, the application and the associated non-confidential supporting documentation is made available for review by members of the public. The applicants should therefore identify all documents or portions of documents as noted above which are to be considered confidential and must provide detailed evidence in support of this claim. This evidence will be one of the factors the ministry would consider when making a decision regarding disclosure of specific documents on file.

# Attachment A

## Revised Project Layout





- Legend**
- Road
  - - - Grassed Waterway
  - Watercourse
  - ▭ Parcel
  - - - Project Location
  - - - Project Location (Revised November 2013)
  - ▭ 120 m from Project Location
  - ▭ 120 m from Revised Project Location
  - ▭ 30 m from Average Annual High Water Mark
  - ▭ 10 m from Wetland
- Project Infrastructure**
- Connection Point With Existing Distribution Line
  - ▭ Solar Panel
  - Inverter
  - ▭ Substation
  - Access Road
  - - - Fence
- Vegetation Management Area**
- ▭ Mowing/Tree Removal
  - ▭ Tree Trimming

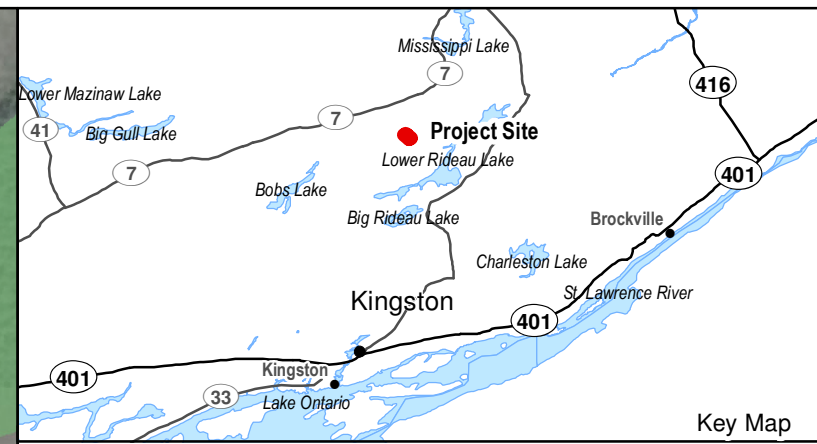
Notes:  
 1. OBM and NRVIS data downloaded from LIO, with permission.  
 2. Spatial referencing UTM NAD 83.  
 3. Satellite imagery from Google Earth Pro.





**Attachment B**  
**Revised Figure 1.1 from the Natural Heritage**  
**Environmental Impact Study**





- Legend**
- Road
  - - - Grassed Waterway
  - Watercourse
  - ▭ Parcel
  - ▭ Woodland
  - ▭ Old Growth Forest (as identified by MNR)
- Significant Natural Features**
- ▭ Provincially Significant Wetland (assumed)/ Amphibian Breeding Habitat
  - ▭ Forest Providing a High Diversity of Habitat / Animal Movement Corridor / Significant Woodland
  - - - Animal Movement Corridor / Western Chorus Frog Habitat / Eastern Ribbonsnake Habitat / Snapping Turtle Habitat / Northern Map Turtle Habitat
- Project Components**
- Connection Point With Existing Distribution Line
  - - - Project Location
  - ▭ 120 m from Project Location
  - - - Project Location (Revised November 2013)
  - ▭ 120 m from Project Location (Revised November 2013)
- Vegetation Management Area**
- ▭ Mowing/Tree Removal
  - ▭ Tree Trimming



Notes:

1. OBM and NRVIS data downloaded from LIO, with permission.
2. Old Growth Forest data based on information by Information Management & Planning Kemptville District.
3. Spatial referencing UTM NAD 83.
4. Satellite imagery from Google Earth Pro.

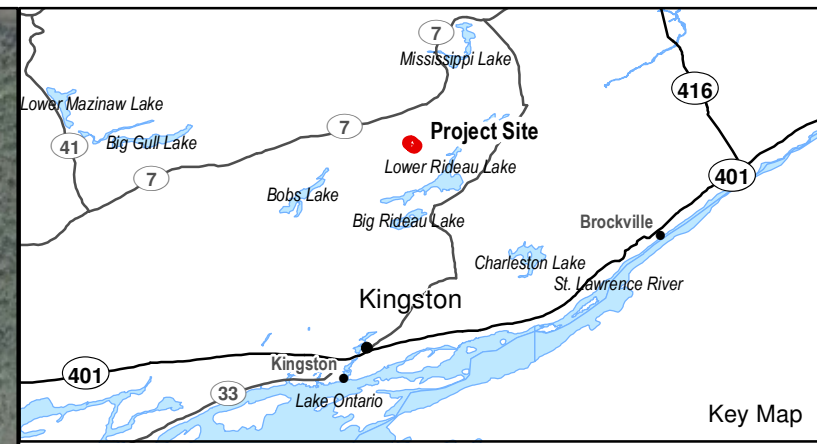
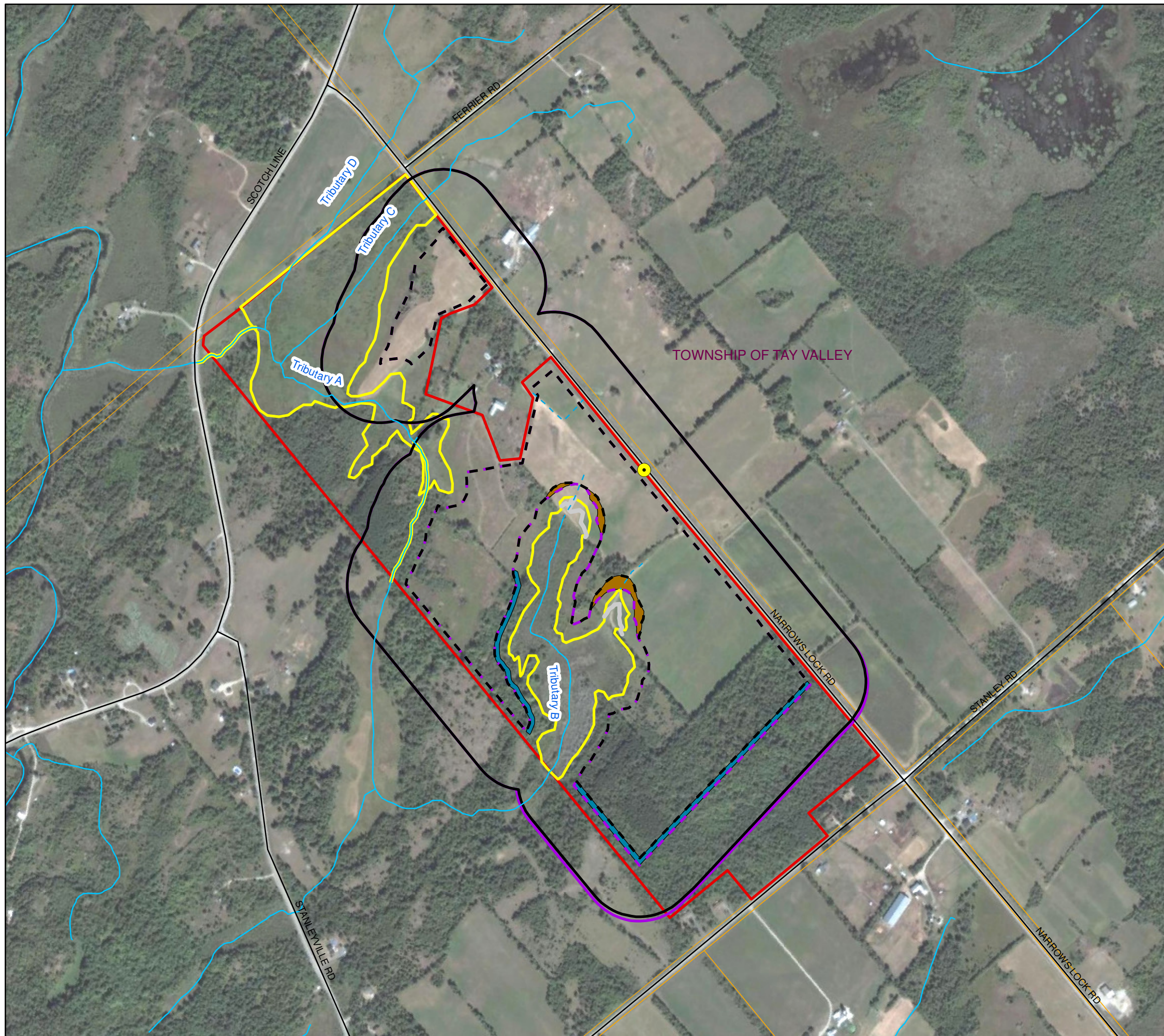
Figure 1.1  
 Northland Power Inc.  
**North Burgess Solar Project**  
**Project Location and Significant Natural Heritage Features**



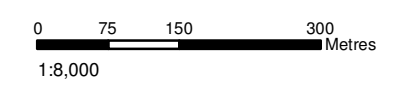
# **Attachment C**

## **Revised Figure 4.1 from the Water Body Site Investigation Report**





- Legend**
- Road
  - - - Grassed Waterway
  - Watercourse
  - ▭ Average Annual High Water Mark
  - ▭ Revised Average Annual High Water Mark (2013)
  - ▭ Study Area
  - ▭ Study Area (Revised November 2013)
  - ▭ Parcel
  - ▭ Project Site
- Project Components**
- Connection Point With Existing Distribution Line
  - ▭ Project Location
  - ▭ Project Location (Revised November 2013)
- Vegetation Management Area**
- ▭ Mowing/Tree Removal
  - ▭ Tree Trimming



Notes:  
 1. OBM and NRVIS data downloaded from LIO, with permission.  
 2. Spatial referencing UTM NAD 83.  
 3. Satellite imagery from Google Earth Pro.

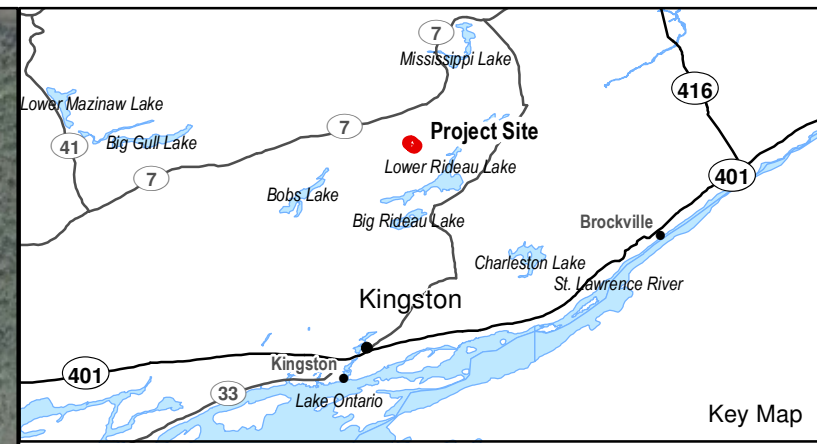
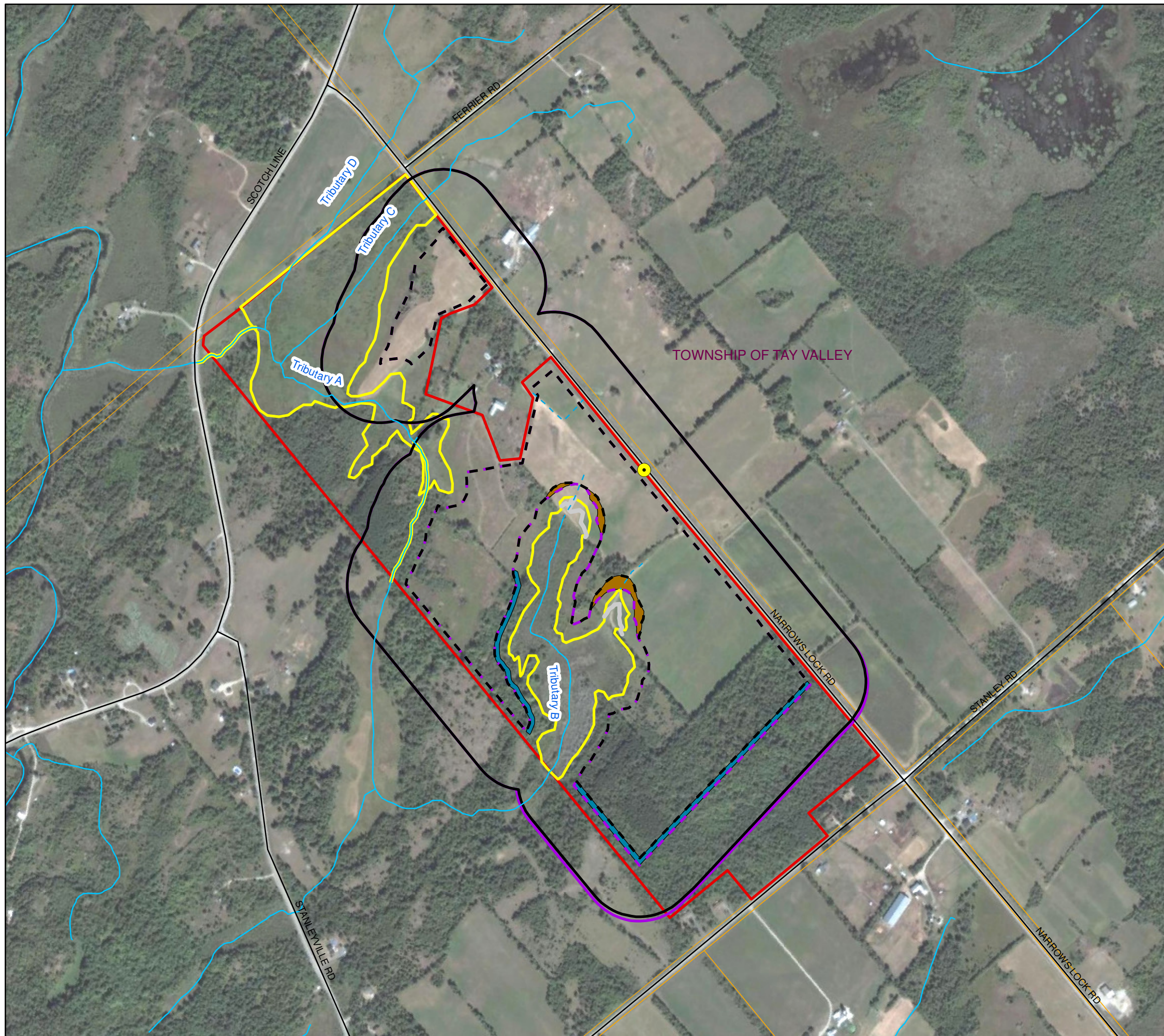
Figure 4.1  
 Northland Power Inc.  
**North Burgess Solar Project**  
**Project Location and**  
**Water Body Features**



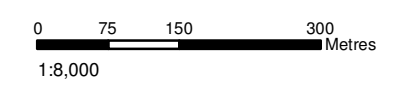


**Attachment D**  
**Revised Figure 1.1 from the Water Body**  
**Environmental Impact Study**





- Legend**
- Road
  - - - Grassed Waterway
  - Watercourse
  - Average Annual High Water Mark
  - Revised Average Annual High Water Mark (2013)
  - ▭ Study Area
  - ▭ Study Area (Revised November 2013)
  - ▭ Parcel
  - ▭ Project Site
- Project Components**
- Connection Point With Existing Distribution Line
  - ▭ Project Location
  - ▭ Project Location (Revised November 2013)
- Vegetation Management Area**
- ▭ Mowing/Tree Removal
  - ▭ Tree Trimming



Notes:  
 1. OBM and NRVIS data downloaded from LIO, with permission.  
 2. Spatial referencing UTM NAD 83.  
 3. Satellite imagery from Google Earth Pro.

Figure 1.1  
 Northland Power Inc.  
**North Burgess Solar Project**  
**Water Body and**  
**Project Boundaries**

