



**GRAND RENEWABLE ENERGY PARK
CONSULTATION REPORT**

File No. 160960577
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Prepared for:

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Executive Summary

Samsung C&T (Samsung), Pattern Energy (Pattern) and Korea Electric Power Corporation (KEPCO) are proposing to develop, construct, and operate the Grand Renewable Energy Park (the “Project”) in response to the Government of Ontario’s initiative to promote the development of renewable electricity in the Province. Together, these companies (referred to herein as “SPK”) will be involved in the development of the first phase of the energy cluster development.

The Project is proposed within the County of Haldimand and is generally bounded by Townline Road to the north, Haldimand Road 20 to the west, the Grand River to the east and Lake Erie to the south. It consists of a 148.6 MW (nameplate capacity) wind project, a 100 MW (nameplate capacity) solar project located on privately owned and Ontario Realty Corporation (ORC) managed lands and a transmission line to convey electricity to the existing power grid.

The basic components of the Project include 67 wind turbines, approximately 425,000 photovoltaic (PV) solar panels installed on fixed ground-mounted racking structures organized into 100-1 MW solar modules, a collector sub-station, interconnect station and Operations and Maintenance building, temporary storage and staging areas, approximately 20 km of 230 kV transmission lines along Haldimand Road 20, approximately 82 km of new overhead and/or underground 34.5 kV collector lines along public roads, approximately 48 km of new underground collector lines along turbine access roads, approximately 45 km of turbine access roads and 40 km of solar panel maintenance roads.

SPK has retained Stantec Consulting Ltd. (Stantec) to prepare a Renewable Energy Approval (REA) application, as required under Ontario Regulation 359/09 - Renewable Energy Approvals under Part V.0.1 of the Act of the *Environmental Protection Act* (O. Reg. 359/09). According to subsection 6(3) of O. Reg. 359/09, the wind component of the Project is classified as a Class 4 Wind Facility and the solar component of the Project is classified as a Class 3 Solar Facility. This Consultation Report is one component of the REA application for the Project, and has been prepared in accordance with O. Reg. 359/09, the Ontario Ministry of Natural Resources’ (MNR’s) *Approval and Permitting Requirements Document for Renewable Energy Projects* (September 2009), and MOE’s “Technical Guide to Renewable Energy Projects (July 2011)”.

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1.0 Introduction

1.1 PROJECT OVERVIEW

Samsung C&T (Samsung), Pattern Energy (Pattern) and Korea Electric Power Corporation (KEPCO) are proposing to develop, construct, and operate the Grand Renewable Energy Park (the “Project”) in response to the Government of Ontario’s initiative to promote the development of renewable electricity in the Province. Together, these companies (referred to herein as “SPK”) will be involved in the development of the first phase of the energy cluster development.

The Project is proposed within the County of Haldimand and is generally bounded by Townline Road to the north, Haldimand Road 20 to the west, the Grand River to the east and Lake Erie to the south. It consists of a 148.6 MW (nameplate capacity) wind project, a 100 MW (nameplate capacity) solar project located on privately owned and Ontario Realty Corporation (ORC) managed lands and a transmission line to convey electricity to the existing power grid.

The basic components of the Project include 67 wind turbines, approximately 425,000 photovoltaic (PV) solar panels installed on fixed ground-mounted racking structures organized into 100-1 MW solar modules, a collector sub-station, interconnect station and Operations and Maintenance building, temporary storage and staging areas, approximately 20 km of 230 kV transmission lines along Haldimand Road 20, approximately 82 km of new overhead and/or underground 34.5 kV collector lines along public roads, approximately 48 km of new underground collector lines along turbine access roads, approximately 45 km of turbine access roads and 40 km of solar panel maintenance roads.

For the purposes of the identification of Project stakeholders, a “Study Area” was determined at the outset of the Project which encompassed all of the Project Location plus additional lands surrounding the Project Location (at least 550 m from the Project Location). The Project Location includes all land and buildings/structures associated with the Project and any air space in which the Project will occupy. All landowners within the Study Area were then added to the Project contact list and were provided with notifications throughout the development of the Project.

SPK has retained Stantec Consulting Ltd. (Stantec) to prepare a Renewable Energy Approval (REA) application, as required under Ontario Regulation 359/09 - Renewable Energy Approvals under Part V.0.1 of the Act of the *Environmental Protection Act* (O. Reg. 359/09). According to subsection 6.(3) of O. Reg. 359/09, the wind component of the Project is classified as a Class 4 Wind Facility and the solar component of the Project is classified as a Class 3 Solar Facility. This Consultation Report is one component of the REA application for the Project, and has been prepared in accordance with O. Reg. 359/09, the MNR’s APRD, and the Ministry of the Environments’ (MOE) “Technical Guide to Renewable Energy Approvals (July 2011)”.

2.0 Consultation Process

2.1 COMMUNICATION TOOLS

SPK used various communication tools for both disseminating Project information, and collecting information from and having ongoing correspondence with interested parties, including but not limited to, the public, Aboriginal communities, agencies and municipalities.

The communication tools used for the Project included:

- Project notices published in local newspapers;
- Direct mailings to assessed landowners in the Study Area and to interested stakeholders;
- Public Meetings;
- Public Meeting feedback forms;
- On-site meetings with landowners;
- Project Community Newsletters;
- Presentation to Haldimand County Mayor and Council;
- A Project website (<http://www.samsungrenewableenergy.ca>);
- A Project e-mail address (GrandRenewable@SamsungRenewableEnergy.ca);
- Mailing addresses for both Samsung and Stantec;
- A toll-free Project telephone number (1-877-536-6050); and,
- Meetings with local community members, Aboriginal communities, and municipal staff.

Contact information for Project representatives was provided on all Project communications provided to the public. A Project website, e-mail, and local telephone number would continue to remain active throughout the life of the Project.

In addition to the public meetings described below, SPK staff also met with several stakeholders in person throughout the development of the Project. SPK arranged these meetings to personally address stakeholder concerns regarding the Project including multiple meetings with landowners along the proposed transmission line route (June 2011).

2.2 PROJECT DISTRIBUTION LIST

A Project distribution list was developed during the initiation of the Project, and updated as required to identify mandatory and other key contacts that may have a potential interest in the Project. The Project distribution lists are provided in Appendix B, and include agencies, municipalities, and Aboriginal communities. To protect the privacy of personal information of stakeholders including assessed landowners, copies of the assessed landowner and stakeholder distribution lists have not been provided as part of this report.

2.2.1 Assessed Landowners

Mailing information for assessed landowners was obtained from municipal property assessment information. This information was obtained for the entire Study Area. The assessed landowners for this larger area were included on the Project distribution list to ensure that potentially interested parties received information about the Project.

2.2.2 Municipalities

The Project is located entirely within Haldimand County and as such, the County was included on the Project distribution list, as required by O. Reg. 359/09 (Haldimand County requested that the Project contact be James Goodram, Manager Economic Development and Tourism Division).

2.2.3 Aboriginal Communities

On June 4, 2010, as per O. Reg. 359/09, the draft Project Description Report was sent to the Director of the MOE in order to obtain the Aboriginal Communities List. A second version of the draft Project Description Report, which included additional information related to Project setbacks and the identification of potential environmental effects was sent to the Director of the MOE on June 24, 2010 with a second request to obtain the Aboriginal Communities List. The list was received from the MOE on September 23, 2010.

Prior to receiving the Aboriginal consultation list for the Project from the MOE, Stantec developed a contact list of Aboriginal communities, based on best professional judgement, which included a focus on communities within 100 km of the Study Area. The Project distribution list was updated to reflect the information provided by the MOE on September 23, 2010. See Section 4.0 for a detailed description of the activities undertaken as part of the Aboriginal consultation.

2.2.4 Updates to the Project Distribution List

The Project distribution list was continually updated throughout the REA process. Additions to the Project distribution list occurred primarily as a result of attendance at the Public Meetings, or

as a result of requests received via e-mail, telephone calls and as a result of personal interactions. At an individual's request, their name was either added to or removed from the Project distribution list. Changes to the Project distribution list for agencies, municipalities and Aboriginal communities were generally made by SPK at the direction of these groups.

2.3 PROJECT NOTICES

2.3.1 Notice of Proposal to Engage / Notice of Public Open House #1

The combined Notice of Proposal to Engage in a Project and Notice of Public Open House #1 was published in three local newspapers on three publication dates in June 2010. The Notice was first published on June 7, 2010, more than thirty (30) days prior to the first Public Open House for the Project. See Appendix C for the Notice of Proposal to Engage in a Project and Notice of Public Open House #1.

Table 2.1: Summary of Newspaper Notices

Newspaper	Description	Notice of Proposal to Engage in Project & Notice of Public Open House #1
Brantford Expositor	Published six days a week serving Brantford and surrounding area.	June 7 and 8, 2010
Dunnville Chronicle	Weekly publication serving Haldimand County	June 9, 2010
Haldimand Press	Weekly publication serving Hagersville, Cayuga and surrounding area.	June 9, 2010

The Notice was also directly mailed or e-mailed where preferred, on June 4, 2010, to the Project distribution list including provincial and federal agencies, municipalities, Aboriginal communities, and assessed landowners within the Study Area.

2.3.2 Notice of Public Meeting #2

The Notice of Public Meeting was published in three local newspapers on three publication dates in July 2011. The Notice was published more than sixty (60) days prior to the second Public Meeting for the Project. See Appendix C for the Notice of Public Meeting.

Table 2.2: Summary of Newspaper Notices

Newspaper	Description	Notice of Public Meeting
Brantford Expositor	Published six days a week serving Brantford and surrounding area.	July 21, 2011
Dunnville Chronicle	Weekly publication serving Haldimand County	July 20, 2011
Haldimand Press	Weekly publication serving Hagersville, Cayuga and surrounding area.	July 20, 2011

The Notice was also directly mailed or e-mailed where preferred, the week of July 18, 2011, to the Project distribution list including provincial and federal agencies (including the Director of the MOE and the MOE district office), municipalities, Aboriginal communities, and assessed landowners within the Study Area.

2.4 PROJECT NEWSLETTERS

A Project Community Newsletter provided an update on the status of the Project, including the preliminary layout for the Project and direction to review the Project website for further information. This newsletter was distributed in December 2010 (Appendix E).

The newsletter was directly mailed to the Project distribution list including assessed landowners within the Study Area, and other interested stakeholders that had requested to be placed on the list. The newsletter was also made available on the Project website.

2.5 PUBLIC MEETINGS

2.5.1 July 8, 2010 Public Meeting

The purpose of Public Open House #1 was to introduce the Project, the process and Project team to the community. Public Open House #1 provided the opportunity for community members to learn about the Project, the REA process and to ask questions of the Project team. It also provided community members the opportunity to provide their input into the Project so that their comments, issues and concerns could be incorporated into the Project design, to the greatest extent possible.

Display boards provided background information on SPK, an overview of the Project, information on the REA process, and excerpts from relevant academic and industry studies. In addition the Draft Project Description Report was available for community members to review.

On June 30, 2010, a letter was sent to all optioned landowners inviting them to a private screening on July 8, 2010, in advance of the Public Open House. An hour, from 3:00 to 4:00 p.m., was made available to the optioned landowners to have an opportunity to speak directly with representatives of SPK and Stantec regarding plans for the development of the Project.

Table 2.2: Public Open House #1: Key Information

Municipality	Haldimand County
Date	July 8, 2010
Location	Cayuga Kinsmen Community Centre 15 Thorburn Street, Cayuga, Ontario
Attendees	302
Information Presented and Made Available	<ul style="list-style-type: none"> • 21 display boards • Draft Project Description Report (June 2010) • Project Contact Information page; academic and industry studies, Project fact sheets and relevant media clippings

Information captured from Public Open House #1 was considered in appropriate sections of the REA Reports and considered by the Project team during Project planning and siting, as appropriate. A themed summary of all comments received from Public Open House #1, along with the related responses are provided in Appendix D. The themed summary and response also indicates where the comments/questions from stakeholders have been addressed within the REA Reports.

Based on public feedback related to concerns of visual impacts from the solar farm, SPK has committed to installing a proposed berm (approximately 8.4 km long) around the solar farm to minimize potential visual impacts. In addition, SPK will ensure that each panel will be laminated with anti-reflection coating so that glare from the panels impacting adjacent areas will not be a concern. Further with respect to visual impacts, SPK has committed to bury collector lines that were to be located on private lands to further minimize potential visual impacts of the Project.

Stakeholders also expressed concerns over the potential noise that could be emitted from the Project's substation, so SPK has developed the Project's site plan with the addition of a sound barrier around the substation to help attenuate any noise emitted. Following the Public Meeting, it was also requested that SPK conduct an economic impact assessment which includes a comparison of the economic difference between the solar project and the use of the land for agricultural purposes to Haldimand County. SPK agreed to commission such an analysis which concluded that the removal of the solar lands from agricultural production is not anticipated to have a noticeable impact on the local agri-business economy given the magnitude of the Project and the inherent variability in crop production.

Following the public meeting, the Ministry of Natural Resources identified the requirement for additional field work over multiple seasons in addition to the baseline studies conducted for the Project at two turbine locations. Given this requirement and the potential delays to the Project, SPK removed the two turbines from the design of the Project.

2.5.2 September 22, 2011 Public Meeting

The purpose of the second Public Meeting was to provide an opportunity for members of the public to ask questions related to the Project and specifically the Draft REA Reports which were released for review on July 23, 2011. It also provided community members another opportunity to provide their input into the Project so that their comments, issues and concerns could be incorporated into the Project design, as appropriate. Display boards and copies of the Draft REA Reports were made available for review and comment.

Table 2.3: Public Meeting #2: Key Information

Municipality	Haldimand County
Date	September 22, 2011
Location	Cayuga Kinsmen Community Centre 15 Thorburn Street, Cayuga, Ontario
Attendees	Approximately 350

Table 2.3: Public Meeting #2: Key Information

Information Presented and Made Available	<ul style="list-style-type: none">• 25 Display boards• Draft REA Reports (July 2011)• Project Contact Information page; academic and industry studies, Project fact sheets and relevant media clippings
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Information captured from the second Public Meeting was considered by the Project team when finalizing the Project, as appropriate. A themed summary of all comments received from the Public Meeting, along with the related responses are provided in Appendix D.

Although outside the requirements of O. Reg. 359/09 and although not regulated within the Province, SPK commissioned a shadow flicker assessment of the Project in an effort to address stakeholder requests leading up to and at the public meeting. Information related to the potential health effects associated with shadow flicker was provided in the Draft Design and Operations Report; however a computer modelled prediction of shadow flicker levels specifically for the Project had not been undertaken as part of the Draft REA reports. The results of the shadow flicker assessment have been provided within Appendix I of this report.

To provide additional information related to the visual appearance of the Project, SPK provided visual simulations of the solar and wind components of the Project at the public meeting. The simulation of the solar farm also included the proposed berm to be erected around the perimeter of the solar farm based on requests from stakeholders at the first public meeting.

While no physical changes were required to the Project site plan and thus the Project Location following the public meeting, Samsung is investigating the potential to “de-rate” multiple turbines in an effort to further mitigate stakeholder concerns related to noise emissions from the turbines. Essentially, a “de-rated” turbine is designed to generate less power while also generating less noise than a normal operating turbine. The investigation will include an analysis of several factors including the change in predicted sound levels, loss of overall Project output, and cost. A final determination will be made following the investigation, during detailed design of the Project. It is important to note that “de-rating” a turbine does not change the site plan, Project Location, or potential effects of the Project, with the exception of reducing noise emissions.

3.0 Municipal and Agency Consultation

3.1 PROJECT NOTIFICATION

Communications began on June 4, 2010 when the draft Project Description Report was sent to the Director, Approvals Program of the Environmental Assessment and Approvals Branch at the Ministry of the Environment (MOE). On June 24, 2010 a draft Project Description Report – Version 2 was also circulated to the Director, Approvals Program of the Environmental Assessment and Approvals Branch at the MOE.

The Notice of Proposal to Engage in a Project and Notice of Public Open House and a Project introduction letter was distributed to agencies and organizations that may have a potential interest in the Project on June 4, 2010.

Additional communication with agencies, municipalities and elected officials occurred throughout the course of the Project. Communication occurred through various media types including e-mails, letters, telephone correspondence and visits to agency offices to gather and/or clarify information collected for the technical studies.

3.2 MUNICIPAL CONSULTATION FORM

3.2.1 Notices and Municipal Consultation Form Distribution

Municipal consultation occurred with Haldimand County as the community has a single-tier municipal structure. The Clerk of the County was sent all mandatory notices issued for the Project. In addition to Project notifications, in accordance with O. Reg. 359/09 s. 18(2), a Municipal Consultation Form (MCF), along with the following Draft REA Reports; Construction, Design and Operations, Decommissioning and Project Description, were provided to the Clerk of the County on February 15, 2011, at least 90 days before the second public meeting was to be held. All Draft REA Reports were then provided on July 19, 2011, at least 60 days before the second public meeting. Documentation of key correspondence with Haldimand County including a copy of the MCF can be found in Appendix G. On August 26, 2011, Haldimand County staff provided SPK with a draft copy of the completed Municipal Consultation Form for the Project. A copy of the draft form is provided in Appendix G. A final version of the completed Municipal Consultation Form is anticipated to be provided by the County in mid-October, 2011 following review and endorsement by Haldimand County Council. Following receipt of the finalized/endorsed version of the Municipal Consultation Form, SPK will address all County concerns in writing and will continue to meet with County staff throughout Project development to continually address County concerns.

3.2.2 Overview of Consultation with Municipal Staff

SPK communicated with staff from the County and provided communications regarding the Project including the Project Notices, Newsletters, the MCF and two sets of Draft REA Reports. SPK worked to ensure Project information was received and understood by the County and that comments received were incorporated into the Project planning and design, as appropriate.

On June 4, 2010, the draft Project Description Report was provided to the County for internal use and display prior to the initial Public Open House. On June 24, 2010 a second version of the draft Project Description Report was issued to the County. The draft Project Description Report - Version 2 was updated to include additional information related to Project setbacks and the identification of potential environmental effects.

A summary of issues that had been raised by Council members at the first public meeting was received from the County on July 9, 2010. These issues included the following:

- Details relating to the cutting of woodlots and proposed measures for replacement. Also how other natural features will be impacted and mitigated.
- Evaluation of the possible impacts of the anchoring of wind turbines to bedrock and whether this provides a conduit for the transmission of vibration to other properties.
- Relationship of the proposed transmission corridors to the County's Trail Master Plan and opportunities/constraints that may exist or occur.
- Clarification on the location of the transmission corridor either on or adjacent County Road 20.
- Confirmation that the decommissioning plan, funding mechanisms and report will include the capital works in the transmission corridor.
- Concerns about the impact of drainage from the solar farm and how this issue will be addressed/mitigated.
- Concerns about the long term impact of solar panels on agricultural soil quality.
- Confirmation about the amount of land that would be covered by solar panels.
- How the visual impact of the solar farm will be mitigated for residential uses.
- The impact of construction traffic and access from the County Road system to the project components and how this will be addressed.
- Confirmation that SPK will try to influence the Province to assist displaced homeowners to obtain the first right to reacquire the use of the lands.
- As part of the economic impact assessment conduct a complete comparison of the difference between the Project and the use of the land for agricultural purposes to Haldimand County.
- Clarification about how increased 'assessment' resulting from the Project on Provincial land will be dealt with in terms of payments in lieu made to the County by the Province.

SPK responded to the County's concerns via email on July 15, 2010. Refer to Appendix G for complete responses.

In order to keep the County apprised of the status of the Project, SPK/Stantec provided a presentation on December 13, 2010 to Haldimand Council which included details of the current stage of the Project and REA process.

As noted above, in accordance with O. Reg. 359/09 the REA Municipal Consultation Form was provided to Haldimand County on February 15, 2011. A copy of the draft Project Description Report, draft Construction Plan Report, draft Design and Operations Report, and draft Decommissioning Plan Report was also provided. On July 7, 2011, Stantec sent a follow-up letter to the County requesting comments related to the Municipal Consultation Form.

Stantec then provided all Draft REA Reports, including updated reports of the four (4) previously provided reports to the County on July 19, 2011 to further keep the County up to date on the status of the Project. Haldimand County held a meeting with SPK on August 26th, 2011 to present the County's draft comments with respect to the MCF and to initiate discussions with additional County staff. Such meetings and discussions will continue to take place with County staff during detailed Project design including municipal permitting and through the construction and operational phases of the Project.

3.3 CORRESPONDENCE WITH AGENCIES AND ORGANIZATIONS

Numerous federal and provincial government departments and authorities were included on the Project distribution list and were therefore notified and kept updated regarding the Project. Details regarding the key agency and organization comments, and how the Project team considered each comment, are provided in Appendix G.

3.3.1.1 Ministry of Natural Resources Confirmation Letter

The Project team maintained regular communications with the Ministry of Natural Resources (MNR) throughout the REA process. Key correspondence relevant to the REA process was generally related to the Natural Heritage Assessment and Environmental Impact Study (NHA/EIS). This included various discussions regarding clarification on significant species and natural features.

Stantec submitted a draft NHA/EIS on February 1, 2011 to the MNR for review and the MNR responded with comments on March 1, 2011. Further information was required before the MNR could provide confirmation of several natural heritage aspects. Representatives from MNR, SPK, and Stantec met on March 7, 2011 to discuss the MNR's recommended changes. Minutes of the meeting are available in Appendix G.

On June 24, 2011, a revised NHA/EIS was submitted to the MNR, incorporating changes as discussed on March 7, 2011. MNR confirmed that the requirements under the REA regulation for the NHA/EIS were met on June 30, 2011.

3.3.1.2 Ministry of Tourism and Culture

The draft Stage 1 Archaeological Assessment was submitted to Ministry of Tourism and Culture (MTC) on August 24, 2010. The MTC responded on August 26, 2010 and noted that the MTC will provide a final letter containing written comments when the Stage II Archaeological Assessment is completed. On February 9, 2011, Stantec and Golder submitted the Interim Stage II Archaeological Assessment. The MTC noted in its March 15, 2011 letter that comments will be provided when the Stage II Archaeological Assessment is complete. The March 15, 2011 letter also identified sites requiring a Stage 3 Archaeological Assessment. The complete Stage II Archaeological Assessments were then submitted to MTC on July 12, 2011. MTC provided comments and requested further revisions to the reports on July 25, 2011. The revised Stage II Archaeological Assessments which addressed MTC's request for further revisions were re-submitted to MTC on August 4, 2011. Following MTC's review of the revised assessment, MTC provided their final comment letter as required under O. Reg. 359/09 on September 21, 2011.

The draft Heritage Impact Assessment and Protected Properties Reports were submitted to MTC on February 9, 2011. The reports were revised based on MTC feedback and resubmitted on March 17, 2011. The MTC had no further comments on the Protected Properties Report; however the MTC requested additional edits to the Heritage Impact Assessment Report. The Heritage Impact Assessment Report was revised again and resubmitted on April 11, 2011. The MTC issued a letter on April 19, 2011 confirming that the MTC is satisfied with both reports.

3.3.2 Project Crystallization

On December 22, 2010, SPK submitted a draft site plan to the MOE in order to "crystallize" the turbine layout of the Project. The Project Crystallization was communicated to the public, Aboriginal communities, and other stakeholders through the December 2010 Project Newsletter (see Section 2.5) and a posting on the Project website. In accordance with Section 54 of O. Reg. 359/09, a REA application must be submitted within six months of the date the draft site plan was issued. However, the Director may extend the six-month period if the Director is of the opinion that the proponent has made all reasonable efforts to submit an application within the six-month period, but is not able to do so due to circumstances beyond the proponent's control.

Due to several unforeseen circumstances beyond SPK's control and based on the proposed schedule moving forward, SPK requested on June 23, 2011 that the MOE extend the period in which the draft site plan is considered "crystallized" until March 1, 2012. On June 29, 2011, the MOE approved SPK's request and extended the deadline by which SPK must have submitted its REA application to March 1, 2012.

4.0 Aboriginal Engagement

4.1 MOE ABORIGINAL LIST

The goal of Aboriginal engagement as it relates to the Project is to engage interested and local Aboriginal communities in a way that is meaningful and respectful of their Aboriginal and treaty rights and interests in the Project Location.

On June 4, 2010, in accordance with O. Reg. 359/09, the draft Project Description Report was provided to the Director of the MOE in order to obtain the Aboriginal Communities List as per S.14 of O.Reg.359/09. A revised version of the draft Project Description Report was provided to the MOE on June 24, 2010, also with a request to obtain the Aboriginal Communities List.

As per O. Reg. 359/09 S.14 (1) (b), a request was made to the MOE for a list of Aboriginal communities who:

- (i) *Have or may have constitutionally protected Aboriginal or treaty rights that may be adversely impacted by the project, or*
- (ii) *Otherwise may be interested in any negative environmental effects of the project.*

Prior to Stantec being retained by SPK to undertake the REA application process, Hatch completed preliminary engagement activities with Aboriginal communities, based on direction from both the Ministry of Aboriginal Affairs and the Ministry of Energy.. This engagement included correspondence with the Six Nations Elected Council, the Haudenosaunee Confederacy Council, and the Mississaugas of New Credit. This correspondence has been included in the following summary sections.

In July 2010, the Ministry of Aboriginal Affairs and Ministry of Energy identified five aboriginal communities as having a potential interest in the Project. These aboriginal communities are:

- Mississaugas of the Credit First Nation (Mississaugas of the New Credit First Nation)
- Six Nations of the Grand River (Six Nations (Part) 40)
- Six Nations of the Grand River Haudenosaunee Confederacy Council
- Grand River Métis Council
- Metis Nation of Ontario

On September 23, 2010 the MOE responded to Stantec's request to obtain the Aboriginal Communities List for the Project. The communication from the MOE identified the following additional Aboriginal communities, in addition to the communities identified above, that may have protected rights:

- Oneida Nation of the Thames (Oneida 41)
- Wahta Mohawks (Wahta Mohawk Territory)
- Mohawks of the Bay of Quinte (Tyendinaga Mohwaks)
- Mohawks of Akwesasne (Akwesasne (Part) 59)

Upon receiving the Aboriginal consultation list from the MOE, the Project distribution list was updated and engagement with the additional Aboriginal communities regarding the Project commenced with a Project introductory letter. After contacting all Aboriginal communities, the Ministry of Energy advised SPK to discontinue contact with the additional communities identified by the MOE on September 23, 2010 until further discussion and verification with the appropriate Ministries was completed. The MOE provided clarification on the Aboriginal Communities List on March 2, 2011, noting that the most proximate 1701 Treaty communities (Six Nations of the Grand River and Oneida Nations of the Thames) were to be proactively engaged throughout the REA process. The remaining, more distant 1701 Treaty communities only require follow-up (via meetings, etc.) if the community responded to and/or approached SPK.

Summaries of the engagement efforts, as well as copies of comments and issues raised by the Aboriginal communities and SPK's responses can be found in Appendix H.

4.2 SIX NATIONS OF THE GRAND RIVER FIRST NATION

Prior to the retention of Stantec, a Memorandum of Understanding (MOU) was established on January 22, 2010 between the Six Nations Elected Council, SPK, the Ministry of Aboriginal Affairs, and the Ministry of Energy. The MOU set forth the basic principles and understandings for the establishment of collaboration and cooperation for the Project.

In addition to the MOU there were several conversations and meetings between SPK and Six Nations prior to Stantec's involvement with the Project and the initiation of the REA process including the attendance of SPK at the Six Nations' Pow Wow.

Following the retention of Stantec for the REA component of the Project, contact has been maintained through telephone calls, e-mail, and written communications to ensure that Project activities and updates have been communicated to the Six Nations community. Copies of formal correspondence (i.e., letters) with Six Nations to date are contained in Appendix H1.

On June 2, 2010, SPK sent an email to Six Nations and attached the newspaper advertisement that was scheduled to be published in newspapers that week. SPK noted its intent to communicate with the Six Nations more often and before key events.

An introductory letter was sent to Chief Montour on June 4, 2010, providing information on the Project and the Notice to Engage in a Project / Notice of Public Open House and Draft Project Description Report. An email sent on the same date to Matt Jamieson (Director of Economic Development) also included the Draft Project Description Report as an attachment.

On June 24, 2010, the revised Project Description Report – Version 2 was sent to Chief Montour. Version 2 of the Project Description Report included additional information related to Project setbacks and the identification of potential environmental effects.

On June 28, 2010 an email was sent to Chief Montour with two letters attached. The first letter was an offer from SPK to hold a Community Information Session prior to the first public open house. The second letter invited community members to participate in archaeology and natural heritage field studies. On the same date, an email was sent to Chief Montour with the Notice to Engage / Notice of Public Meeting attached.

A follow-up email was sent to Chief Montour on June 30, 2010 to again inquire as to whether or not Six Nations would like SPK to hold a Community Information Session on the Reserve prior to the Public Open House. Six Nations responded on July 1, 2010 noting that they would like to further discuss the possibility of a Community Information Session on the Reserve at a July 5, 2010 meeting scheduled between Six Nations and SPK. In the July 5, 2010 meeting, Six Nations indicated that a July 7, 2010 Community Information Session was too soon and would not allow for sufficient time to promote the session. As well, Hydro One had already scheduled an information session with Six Nations on transmission line clearing for July 7, 2010.

Stantec sent a courier package containing a copy of the display boards used in POH#1 as well as an email with access to an electronic version of the display boards to Joanne Thomas on July 13, 2010.

Stantec staff contacted Joanne Thomas on August 23, 2010 to determine if Six Nations wanted to participate in field programs. On August 25, 2010 Six Nations confirmed that they would not be participating in the field programs, however Six Nations would participate in the archaeology program.

On August 25, 2010, Stantec requested that a meeting with Six Nations technical staff be held to go over the Project and inform them of the new REA process, the regulatory requirements, and what they can expect from Stantec/SPK regarding the process. The meeting was held on September 10, 2010. During the meeting Six Nations noted they are aware of deer hunting within the Study Area. Stantec inquired about appropriate methods for engaging Six Nations. Six Nations suggested making reports available at the EcoCentre. Six Nations had several other general questions regarding the Project, which were addressed by the Project team.

Stantec sent a letter to Six Nations on October 5, 2010, which included a summary of the September 10, 2010 meeting and also requested, in accordance with O. Reg. 359/09, that they provide, in writing, any information that, in their community's opinion, should be considered in preparing the REA documents for the Project, and in particular, any information the community may have about any adverse impacts the Project may have on constitutionally protected aboriginal or treaty rights and any measures for mitigating those adverse impacts.

On October 12, 2010, Six Nations responded to the October 5, 2010 letter. Six Nations asked for clarification on Stantec's apparent reporting role in the discussions occurring between SPK and Six Nations. Six Nations also wanted confirmation/clarifications regarding the following:

- that meeting minutes for the discussion on July 5, 2010 which capture Chief Montour's opening remarks that the discussion did not constitute consultation;
- requested copies of all meeting minutes, and advised that should the minutes fail to accurately record Six Nation's declaration that the discussions did not constitute consultation, that Six Nations would hold Stantec accountable; and
- it is Six Nations position that the communications, records and correspondence that are part of discussions are not records of "consultations" and shall not be part of any communication by either Party to any third party as evidence of "consultation" without consent.

A Project update was provided in a letter from Stantec to Six Nations on February 7, 2011. In particular, Stantec again requested any information that should be considered in preparing the REA reports for the Project, and any information Six Nations may have about adverse impacts the Project may have on constitutionally protected aboriginal or treaty rights and any measures for mitigating those adverse impacts. Attached to the letter were the preliminary wind turbine layout and the Project Newsletter.

A June 7, 2011 letter from Six Nations to SPK noted that none of the meetings held to date have met Six Nations consultation requirements as identified in their Policy Statement available on the Six Nations' website.

A letter was sent to both Chief Montour and the Six Nations' Land Use Officer on July 19, 2011 to provide the Draft REA Reports for review and comment. Stantec attached the Notice of Public Meeting to the letter and advised the Notice will be published in a local newspaper in Haldimand County and offered to publish a copy of the Notice of Public Meeting in a Six Nations community paper. It was requested that the Draft REA Reports also be made available to community members and that additional copies of the Reports could be provided if needed. As the MOE identified the Six Nations as potentially having constitutionally protected Aboriginal or treaty rights that may be adversely impacted by the Project, Stantec again requested any

information that should be considered in writing the final REA Reports. The deadline for comments and information was identified as September 22, 2011.

4.3 SIX NATIONS – HAUDENOSAUNEE CONFEDERACY COUNCIL

An introductory letter was sent to the Haudenosaunee Confederacy Council (HCC) on June 7, 2010. Attachments to the letter included the Notice to Engage in a Project / Notice of Public Open House and the Draft Project Description Report. Copies of formal correspondence (i.e., letters) with the HCC to date are contained in Appendix H2.

On June 24, 2010, Stantec informed HCC that the Draft Project Description Report had been updated to include additional information related to Project setbacks and the identification of potential environmental effects. A copy of the Draft Project Description Report – Version 2 was attached to the letter.

An update on the Project was delivered via letter to HCC on January 7, 2011. Stantec requested any information that should be considered in preparing the REA reports, any information the community may have about adverse impacts the Project may have on constitutionally protected aboriginal or treaty rights and any measure for mitigating those adverse impacts. Stantec also requested a meeting with HCC. Attachments to the letter included the preliminary wind turbine layout, Project Newsletter and the Draft Project Description Report – Version 2.

A letter dated July 11, 2011 was received from the Haudenosaunee Development Institute (HDI). HDI noted it has a specific policy regarding engagement in REA projects and that the Project is of significant concern as it is sited within areas of the Haudenosaunee jurisdiction. The letter also served notice that HDI's Archaeology Representative would be attending and monitoring the proposed site to ensure compliance of standards.

A letter was sent to both Chief MacNaughton and the Interim Director of the HDI on July 19, 2011 to provide the Draft REA Reports for review and comment. Stantec attached the Notice of Public Meeting to the letter and advised the Notice will be published in a local newspaper in Haldimand County and offered to publish a copy of the Notice of Public Meeting in a community paper. It was requested that the Draft REA Reports also be made available to community members and that additional copies of the Reports could be provided if needed. As the MOE identified the HDI as potentially having constitutionally protected Aboriginal or treaty rights that may be adversely impacted by the Project, Stantec requested any information that should be considered in writing the final REA Reports. The deadline for comments and information was identified as September 22, 2011.

4.4 MISSISSAUGAS OF THE NEW CREDIT FIRST NATION

An introductory call was placed from Stantec to the Mississaugas of New Credit First Nation (MNCFN) on May 20, 2010 to establish a meeting date. The Chief and Council were very

interested in meeting. Meeting dates were suggested as well as meeting topics such as an overview of MNCFN history, introductions and factors that will be examined during the Project. Copies of formal correspondence (i.e., letters) with MCFN to date are contained in Appendix H3.

A letter was sent to MNCFN on June 4, 2010 and included the Notice to Engage in a Project / Notice of Public Open House and the Draft Project Description Report.

A meeting was held on June 16, 2010 on the MNCFN Reserve. MNCFN provided an overview of their history and a map of their traditional territory while Stantec/SPK provided an overview of the Project. MNCFN requested that a written agreement that outlines expectations and commitments for Project engagement be drafted between SPK and themselves. SPK agreed to draft some content that may be included in an agreement and send it to MNCFN.

An email dated June 17, 2010, which was followed-up by a hardcopy, MNCFN thanked Stantec/SPK for the information sharing session, but noted the meeting was not be deemed as consultation. Once the agreement was in place between SPK and MNCFN that sets out expectations and commitments for how MNCFN will participate in the consultation process, then consultation would commence. MNCFN suggested SPK send the draft of expectations for consultation to MNCFN by June 30, 2010 in order to keep the process moving in a timely way. MNCFN also requested a list of studies to be undertaken.

On June 24, 2010, Draft Project Description Report – Version 2 was sent to MNCFN.

SPK sent, via email on June 28, 2010, two letters. In one letter, SPK offered to hold a Community Information Session on the MNCFN Reserve prior to POH#1. The second letter invited community members to participate in archaeology and natural heritage field studies. SPK followed-up via email on June 30, 2010 to ask MNCFN to advise SPK if they would like to hold a Community Information Session Reserve prior to POH#1 as planning would need to begin.

A voicemail was left on July 5, 2010 from MNCFN inquiring about the qualifications needed to participate in field work. During a phone conversation on July 6, 2010, Stantec provided additional information regarding participation in field surveys.

In a July 14, 2010 email, Stantec thanked the MNCFN representative for attending POH#1. The email also noted the display boards were available on a FTP site. A response email from MNCFN on the same date confirmed receipt of the display boards.

On July 26, 2010, SPK provided a response to the MNCFN's letter dated June 17, 2010. The letter outlined the engagement activities required by the REA process. Proposed content for the draft Engagement Protocol was also provided for MNCFN comment and input. A list of studies to be undertaken as part of the Project was attached.

On August 6, 2010 the Director of Economic Development for the MNCFN contacted SPK for an update on the Project as he had not received any information since the introductory meeting. SPK provided a summary of correspondence with other representatives of MNCFN since the introductory meeting.

Stantec phoned MNCFN on August 23, 2010 and left a message, to follow-up on the offer to have community members participate in field studies. As Stantec staff were in the field at the time, Stantec wanted to ensure the community had the opportunity to participate in the field studies if there was interest.

As a follow-up to the August 23, 2010 message, Stantec phoned MNCFN on September 1, 2010 regarding the field studies and SPK's letter dated July 26, 2010. MNCFN responded that there is interest in the community to participate in the field studies. The MNCFN Employment and Training Office would be able to provide the names of people who would like to participate. The contact at MNCFN was unsure as to whether or not the July 26th letter had been received and was going to look into the matter. Stantec offered to meet with technical staff to provide an overview of the new REA process and the Project. MNCFN was to confirm if they wanted a meeting.

In a phone conversation on September 21, 2010, MNCFN advised that their consultant recommended they do not accept the offer of participating in the field studies. MNCFN was unable to find the July 26, 2010 letter from SPK. Stantec confirmed that a copy would be emailed to MNCFN. As a follow-up call to the September 21, 2010 phone conversation, Stantec emailed a copy of the July 26, 2010 letter to MNCFN.

In a letter dated January 18, 2011 Stantec provided an update on the Project and requested any information that should be considered in preparing the REA reports for the Project, and any information the community may have about any adverse impacts the Project may have on constitutionally protected Aboriginal or treaty rights and any measure for mitigating those adverse impacts. SPK's offer to participate in a meeting with technical staff who may review the REA reports on behalf of the community was reiterated. The preliminary wind turbine layout was attached to the email as well as the Project Newsletter Volume 1 (December 2010).

On February 7, 2011 SPK wrote to MNCFN to note they would be pleased to meet with the Chief and Council to discuss the Project, ways to engage the community, and any impacts the community has identified that the Project may have on constitutionally protected aboriginal or treaty rights and any measures for mitigating those adverse impacts. SPK also requested any feedback on the letter sent July 26, 2010 and resent on September 21, 2010.

A letter was sent to Chief LaForme and copied to the Director, Lands, Membership and Research on July 19, 2011 to provide the Draft REA Reports for review and comment. Stantec attached the Notice of Public Meeting to the letter and advised the Notice will be published in a local newspaper in Haldimand County and offered to publish a copy of the Notice of Public Meeting in a community paper. It was requested that the Draft REA Reports also be made

available to community members and that additional copies of the Reports could be provided if needed. As the MOE identified the MNCFN as potentially having constitutionally protected Aboriginal or treaty rights that may be adversely impacted by the Project, Stantec requested any information that should be considered in writing the final REA Reports. The deadline for comments and information was identified as September 22, 2011. On September 21, 2011, the MNCFN contacted Stantec to set up a meeting with technical staff to discuss the Project which would then be followed by a meeting with Chief and Council at a later date. The meeting was scheduled with technical staff for October 12, 2011.

4.5 MÉTIS NATION OF ONTARIO

The MOE identified the Grand River Métis Council as an Aboriginal community that that may

be interested in any negative environmental effects of the project (O. Reg. 359/09 s14(b)(i) and (ii)).

Initial contact with the Métis Nation of Ontario (MNO) regarding the Project was through Melanie Paradis, Director, Lands Resources and Consultation, Métis Nation of Ontario. Subsequent ongoing communication with MNO was through James Wagar (MNO Consultation Assessment Coordinator Lands, Resources and Consultation) who remained as the main point of contact to date for the MNO community. Copies of formal correspondence (i.e., letters) with MNO to date are contained in Appendix H4.

Stantec first initiated contact with the MNO on May 20, 2010 to advise that SPK was proposing a wind and solar project in southern Ontario and wanted to provide some pre-disclosure information regarding the Project.

During a phone conversation on June 4, 2010 between Stantec and the Consultation Assessment Coordinator, Stantec provided a general overview of the Project and advised that the Notice to Engage in a Project and Notice of Public Open House was to be published on June 7, 2010. Stantec would arrange for the Notice and Draft Project Description to arrive in a courier on June 7, 2010 addressed to President Lipinski and copied to Melanie Paradis. The courier, including a letter to President Lipinski and copied to Melanie Paradis was sent to MNO on June 4, 2010.

On June 24, 2010, Stantec sent the Draft Project Description Report – Version 2 to President Lipinski, copied to Melanie Paradis. The Draft Project Description Report had been updated to include additional information related to Project setbacks and the identification of potential environmental effects.

During a June 29, 2010 phone conversation between Stantec and the Consultation Assessment Coordinator, the MNO identified themselves as having an interest in the Project and noted their understanding of the sensitivity of the Project with respect to First Nations interests. The Consultation Assessment Coordinator thought it was likely that a small meeting would be

proposed to determine how to engage the community. MNO indicated that they would like to develop a brief written understanding of how the MNO will be engaged on the Project; however the agreement will not constitute a Memorandum of Understanding.

The MNO notified Stantec by phone on August 4, 2010 that they had reviewed the Project materials sent previously. The Consultation Assessment Coordinator inquired regarding the project location in proximity to Six Nations. Stantec confirmed that the Project is within the Haldimand Tract and is not on the reserve. The Consultation Assessment Coordinator noted that, in review of the agricultural mapping provided in the PDR, it was strange that the entire Project area was not considered prime agricultural land. It was explained that portions of the solar project would be on Class 3 agricultural land. The MNO expressed their interest in having an introductory meeting and would like to meet sometime after August 25, 2010. Stantec and MNO would correspond regarding possible meeting dates.

On November 22, 2010, SPK, through Stantec, advised the MNO that they would be pleased to meet with the MNO community to discuss the Project and Project materials sent to date. It was noted that the Aboriginal community list received from the MOE identifies the MNO as potentially having an interest in the environmental effects of the Project, but does not identify the MNO as one of the communities that have or may have constitutionally protected aboriginal or treaty rights that may be adversely impacted by the Project. MNO requested a copy of the MOE Aboriginal communities list. In an email sent to MNO on December 1, 2010, Stantec documented a summary of the November 22, 2010 phone call and provided the MNO Aboriginal communities list, as requested by the MNO.

Stantec provided a Project update in a letter to MNO dated January 18, 2011. Stantec requested any information that should be considered in preparing the REA reports for the Project, and any information the community may have about any adverse impacts the Project may have on constitutionally protected aboriginal or treaty rights and any measures for mitigating those adverse impacts. The preliminary wind turbine layout and Project Newsletter Volume 1 (December 2010) was attached to the letter.

A letter was sent to the Consultation Assessment Coordinator and copied to the President of MNO on July 19, 2011 to provide the Draft REA Reports for review and comment. Stantec attached the Notice of Public Meeting to the letter and advised the Notice will be published in a local newspaper in Haldimand County and offered to publish a copy of the Notice of Public Meeting in a community paper. It was requested that the Draft REA Reports also be made available to community members and that additional copies of the Reports could be provided if needed. As the MOE identified the MNO potentially having interest in any negative environmental effects of the Project, Stantec requested any information that should be considered in writing the final REA Reports. The deadline for comments and information was identified as September 22, 2011.

4.6 WAHTA MOHAWKS

In concordance with the September 23, 2010 letter from the MOE to Stantec identifying additional Aboriginal communities that should be consulted, Stantec sent an introductory letter to the Wahta Mohawks on November 15, 2010. The letter provided an overview of the Project, requested an introductory meeting with community representatives and offered to hold a Community Information Session. A copy of the Draft Project Description Report – Version 2, the Notice to Engage and Notice of Public Open House, and a copy of the Public Open House #1 display boards were included with the letter. Copies of formal correspondence (i.e., letters) with the Wahta Mohawks to date are contained in Appendix H5.

Stantec provided a Project update letter to the Wahta Mohawks dated June 6, 2011. Stantec requested any information that should be considered in preparing the REA reports for the Project, and any information the community may have about any adverse impacts the Project may have on constitutionally protected aboriginal or treaty rights and any measures for mitigating those adverse impacts. The preliminary wind turbine layout and Project Newsletter Volume 1 (December 2010) was attached to the letter.

A letter was sent to Chief Blaine on July 19, 2011 to provide the Draft REA Reports for review and comment. Stantec attached the Notice of Public Meeting to the letter and advised the Notice will be published in a local newspaper in Haldimand County and offered to publish a copy of the Notice of Public Meeting in a community paper. It was requested that the Draft REA Reports also be made available to community members and that additional copies of the Reports could be provided if needed. As the MOE identified the Wahta Mohawks as potentially having constitutionally protected Aboriginal or treaty rights that may be adversely impacted by the Project, Stantec requested any information that should be considered in writing the final REA Reports. The deadline for comments and information was identified as September 22, 2011.

4.7 MOHAWKS OF AKWESASNE

In concordance with the September 23, 2010 letter from the MOE to Stantec identifying additional Aboriginal communities that should be consulted, Stantec sent an introductory letter to the Mohawks of Akwesasne on November 15, 2010. The letter provided an overview of the Project, requested an introductory meeting with community representatives and offered to hold a Community Information Session. A copy of the Draft Project Description Report – Version 2, the Notice to Engage and Notice of Public Open House, and a copy of the Public Open House #1 display boards were included with the letter. Copies of formal correspondence (i.e., letters) with Mohawks of Akwesasne to date are contained in Appendix H6.

Stantec provided a Project update in a letter to the Mohawks of Akwesasne dated June 6, 2011. Stantec requested any information that should be considered in preparing the REA reports for the Project, and any information the community may have about any adverse impacts the

Project may have on constitutionally protected aboriginal or treaty rights and any measures for mitigating those adverse impacts. The preliminary wind turbine layout and Project Newsletter Volume 1 (December 2010) was attached to the letter.

A letter was sent to the Mohawk Council of the Akwesasne on July 19, 2011 to provide the Draft REA Reports for review and comment. Stantec attached the Notice of Public Meeting to the letter and advised the Notice will be published in a local newspaper in Haldimand County and offered to publish a copy of the Notice of Public Meeting in a community paper. It was requested that the Draft REA Reports also be made available to community members and that additional copies of the Reports could be provided if needed. As the MOE identified the Mohawks of Akwesasne as potentially having constitutionally protected Aboriginal or treaty rights that may be adversely impacted by the Project, Stantec requested any information that should be considered in writing the final REA Reports. The deadline for comments and information was identified as September 22, 2011

4.8 MOHAWKS OF THE BAY OF QUINTE

In concordance with the September 23, 2010 letter from the MOE to Stantec identifying additional Aboriginal communities that should be consulted, Stantec sent an introductory letter to the Mohawks of the Bay of Quinte on November 15, 2010. The letter provided an overview of the Project, requested an introductory meeting with community representatives and offered to hold a Community Information Session. A copy of the Draft Project Description Report – Version 2, the Notice to Engage and Notice of Public Open House, and a copy of the Public Open House #1 display boards were included with the letter. Copies of formal correspondence (i.e., letters) with Mohawks of the Bay of Quinte to date are contained in Appendix H7.

Stantec provided a Project update in a letter to the Mohawks of the Bay of Quinte dated June 6, 2011. Stantec requested any information that should be considered in preparing the REA reports for the Project, and any information the community may have about any adverse impacts the Project may have on constitutionally protected aboriginal or treaty rights and any measures for mitigating those adverse impacts. The preliminary wind turbine layout and Project Newsletter Volume 1 (December 2010) was attached to the letter.

A letter was sent to Chief Maracle on July 19, 2011 to provide the Draft REA Reports for review and comment. Stantec attached the Notice of Public Meeting to the letter and advised the Notice will be published in a local newspaper in Haldimand County and offered to publish a copy of the Notice of Public Meeting in a community paper. It was requested that the Draft REA Reports also be made available to community members and that additional copies of the Reports could be provided if needed. As the MOE identified the Mohawks of the Bay of Quinte as potentially having constitutionally protected Aboriginal or treaty rights that may be adversely impacted by the Project, Stantec requested any information that should be considered in writing the final REA Reports. The deadline for comments and information was identified as September 22, 2011

4.9 ONEIDA NATION OF THE THAMES

In concordance with the September 23, 2010 letter from the MOE to Stantec identifying additional Aboriginal communities that should be consulted, Stantec sent an introductory letter to the Oneida Nation of the Thames on November 15, 2010. The letter provided an overview of the Project, requested an introductory meeting with community representatives and offered to hold a Community Information Session. A copy of the Draft Project Description Report – Version 2, the Notice to Engage and Notice of Public Open House, and a copy of the Public Open House #1 display boards were included with the letter. Copies of formal correspondence (i.e., letters) with Oneida Nation of the Thames to date are contained in Appendix H8.

Stantec provided a Project update in a letter to the Oneida Nation of the Thames dated June 6, 2011. Stantec requested any information that should be considered in preparing the REA reports for the Project, and any information the community may have about any adverse impacts the Project may have on constitutionally protected aboriginal or treaty rights and any measures for mitigating those adverse impacts. The preliminary wind turbine layout and Project Newsletter Volume 1 (December 2010) was attached to the letter.

A letter was sent to Chief Abram on July 19, 2011 to provide the Draft REA Reports for review and comment. Stantec attached the Notice of Public Meeting to the letter and advised the Notice will be published in a local newspaper in Haldimand County and offered to publish a copy of the Notice of Public Meeting in a community paper. It was requested that the Draft REA Reports also be made available to community members and that additional copies of the Reports could be provided if needed. As the MOE identified the Oneida Nation of the Thames as potentially having constitutionally protected Aboriginal or treaty rights that may be adversely impacted by the Project, Stantec requested any information that should be considered in writing the final REA Reports. The deadline for comments and information was identified as September 22, 2011

5.0 Ongoing Consultation

The following describes SPK's plan for ongoing consultation activities that would occur following submission of the REA application to MOE, and what would occur during construction, operation and decommissioning of the Project.

5.1 COMMUNITY UPDATES

SPK and/or the Contractor will continue contact with Project stakeholders (public, aboriginal communities, and the County) during the operation of the Project for as long as this seems an effective two-way channel of communication including providing Project updates on the Project website (www.SamsungRenewableEnergy.ca). As a long-term presence in the County, SPK will continue to develop contacts and to develop local relationships and channels of communication, which could benefit the local area.

In the event of an emergency, SPK and/or the Operations Firm will initiate the Emergency Response Plan and will directly contact (via phone or in-person) Project stakeholders who may be directly impacted so that the appropriate actions can be taken to protect stakeholders health and safety. Additional updates (non-emergency related) may be provided via the website, letters/newsletters, newspaper notices, or direct contact.

5.2 COMMUNITY CONTACT INFORMATION

A telephone number for contacting SPK and/or the Contractor along with the mailing/e-mail address will be posted on the Project website (www.SamsungRenewableEnergy.ca) and provided directly to the County and MOE. These would be the direct contact points for SPK and/or the Contractor during all phases of the Project. The Emergency Response and Communications Plan will include key contact information for emergency service providers, a description of the chain of communications and how information would be disseminated between SPK and/or the Contractor and the relevant responders. This information will be obtained during consultations with the County's Emergency Services Departments.

The telephone number provided for the reporting of concerns and/or complaints would be equipped with a voice message system used to record the name, address, telephone number of the complainant, time and date of the complaint along with details of the complaint. All messages would be recorded in a Complaint Response Document to maintain a record of all complaints. SPK and/or the Contractor would endeavour to respond to messages within 24 hours. All reasonable commercial efforts would be made to take appropriate action as a result of concerns as soon as possible. The actions taken to remediate the cause of the complaint and the proposed actions to be taken to prevent reoccurrences of the same complaint in the future would also be recorded within the Complaint Response Document. If appropriate, the MOE Spills Action Centre would be contacted to notify them of the complaint. Correspondence would be shared with other stakeholders, such as the MOE, as required and/or as deemed appropriate.

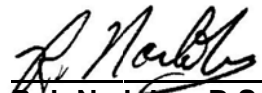
Ongoing stakeholder communication would allow SPK and/or the Contractor to receive and respond to community issues on an ongoing basis.

6.0 Conclusion and Signatures

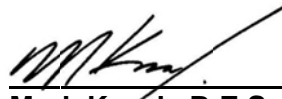
This **Consultation Report** for the Grand Renewable Energy Project has been prepared by Stantec for SPK in accordance with Item 2, Table 1 of O. Reg. 359/09, and the Ministry of the Environments' (MOE) "Technical Guide to Renewable Energy Approvals (July 2011)".

This report has been prepared by Stantec for the sole benefit of SPK, and may not be used by any third party without the express written consent of SPK. The data presented in this report are in accordance with Stantec's understanding of the Project as it was presented at the time of reporting.

STANTEC CONSULTING LTD.



Rob Nadonny, B.Sc. Hons., CPT
Senior Project Manager



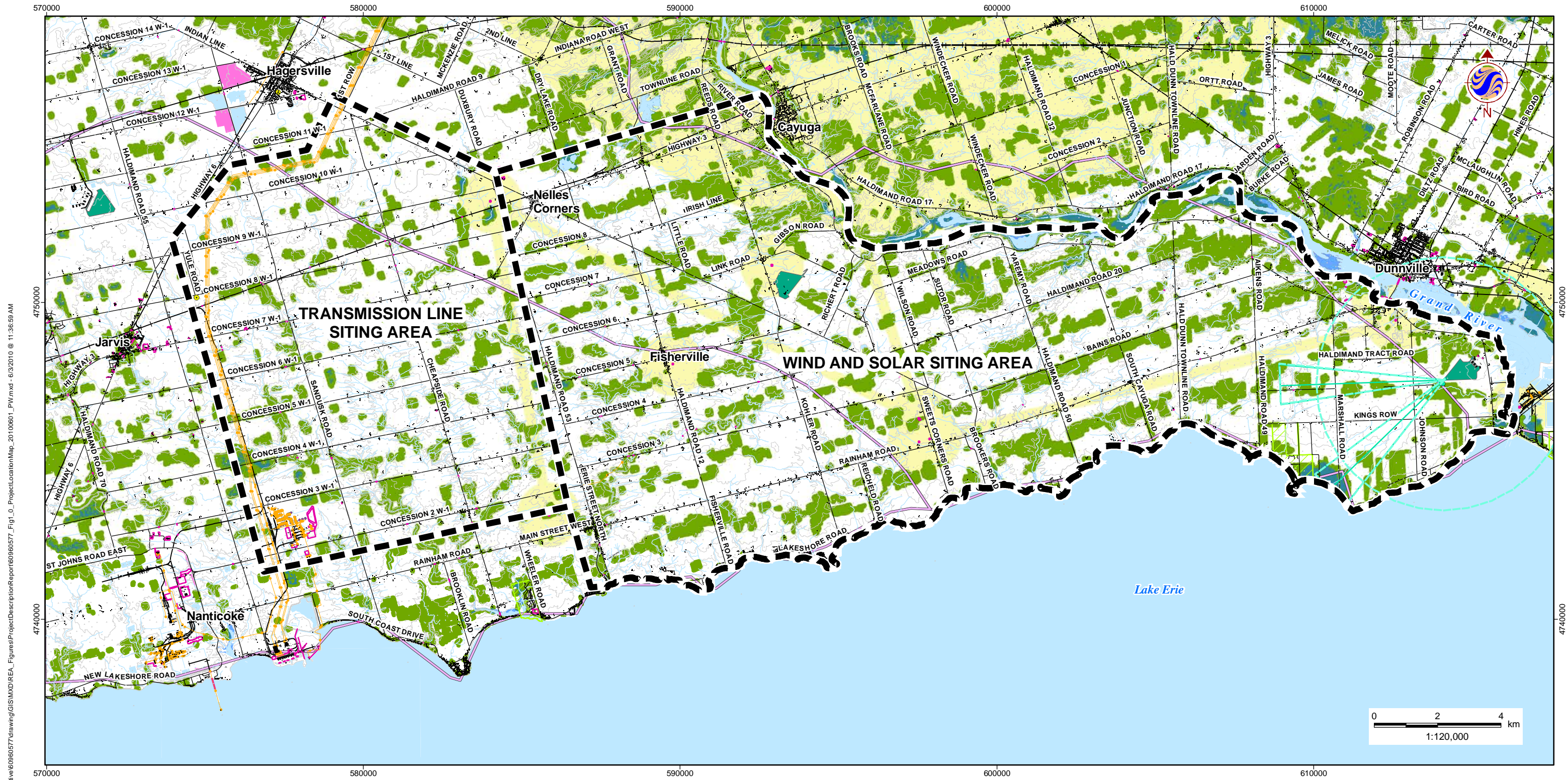
Mark Kozak, B.E.S., Dipl. EA
Project Manager

Stantec

**GRAND RENEWABLE ENERGY PARK
CONSULTATION REPORT**

Appendix A

Project Maps

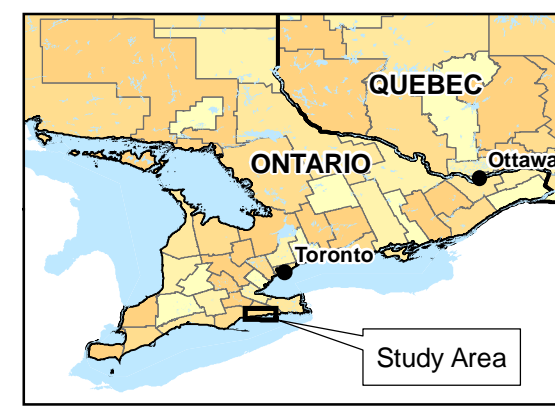


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Legend					
	Project Location		Road		Pit or Quarry (OBM)
	Airport Runway Area Point		Railway (OBM)		Wireless Communication Corridor
	Airport Runway Area Polyline		Watercourse (OBM)		Waterbody (OBM)
	Airport Runway Area		Transmission Line (OBM)		Wetland (OBM)
	Airport (OBM)		Transport Line (OBM)		Wooded Area (OBM)
	Spot Elevation Height (OBM)		Building Area (OBM)		
	Building Point (OBM)		Conservation Authority Boundary (OBM)		
	Tower (OBM)		Provincial Park (OBM)		
	Wireless Communication Point		Tank (OBM)		
	Contour (OBM)				



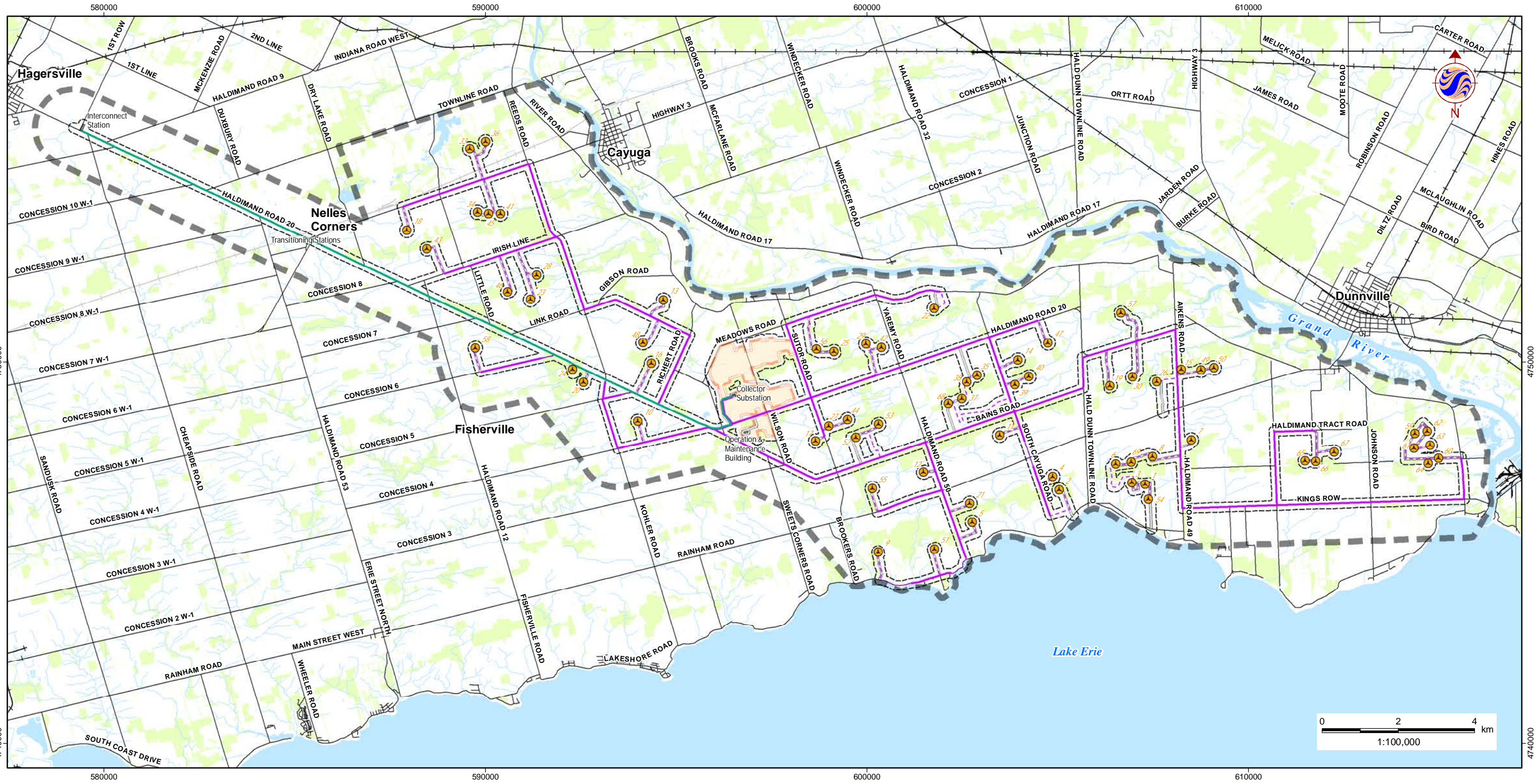
Notes

- Coordinate System: UTM NAD 83 - Zone 17 (N).
- Data Sources: Ontario Ministry of Natural Resources © Queens Printer Ontario, 2009; © GREP, 2010; © Samsung, 2010.
- Image Sources: © Google Earth Pro, 2010 (© First Base Solutions, 2010; © TeleAtlas, 2010 - Imagery Date: April 7, 2006).

Client/Project
**SAMSUNG C&T
GRAND RENEWABLE ENERGY PARK**

Figure No.
1.0

Title
PROJECT LOCATION MAP



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July 2011
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Stantec

Legend

- | | | | | | |
|-------------------------------|----------------------------|--------------------------|-----------------------------------|--|-------------------|
| | Study Area | | Overhead Transmission Line | | Waterbody (MNR) |
| | Zone of Investigation | | Underground Transmission Line | | Wooded Area (MNR) |
| Wind Project Location | | | | | |
| | Proposed Turbine Location | | Electrical Transmission Component | | |
| | Access Road | Existing Features | | | |
| | Overhead Collector Line | | Road | | Railway |
| | Underground Collector Line | | Abandoned Railway | | Watercourse (MNR) |
| Solar Project Location | | | | | |
| | Solar Lands | | | | |

Notes

- Coordinate System: UTM NAD 83 - Zone 17 (N).
- Base features produced under license with the Ontario Ministry of Natural Resources © Queens Printer Ontario, 2011; © Samsung, 2011.

Client/Project
SAMSUNG, PATTERN & KEPKO (SPK)
GRAND RENEWABLE ENERGY PARK

Figure No.
1.0

Title
STUDY AREA

DRAFT

Appendix B

Distribution Lists

Aboriginal Contact List

Community	Department	Job Title	Title	First Name	Last Name	Phone	Fax	Address	City	Prov	Postal Code
Mississaugas of the New Credit First Nation			Chief	M. Bryan	LaForme	905-768-1133	905-768-1225	2789 Mississauga Road, R.R. #6	Hagersville	ON	N0A 1H0
Mississaugas of the New Credit First Nation	Lands, Membership and Research Department	Director	Ms.	Margaret	Sault	(905) 768-0100	(905) 768-7311	468 New Credit Road, R.R.#6	Hagersville	ON	N0A 1H0
Six Nations of the Grand River First Nation			Chief	William K.	Montour	519-445-2201	519-445-4208	1695 Chiefswood Road, P.O. Box 5000	Ohswéken	ON	N0A 1M0
Six Nations of the Grand River First Nation	Economic Development	Director	Mr.	Matt	Jamieson	519-753-1950	519-758-0768	2498 Chiefswood Road, P.O. Box 5000	Ohswéken	ON	N0A 1M0
Six Nations of the Grand River First Nation	Lands and Resources	Director	Mr.	Lonny	Bomberry	519-753-0665	519-753-3449	2498 Chiefswood Road, P.O. Box 5000	Ohswéken	ON	N0A 1M0
Six Nations of the Grand River First Nation	Lands and Resources	Wildlife Officer/Eco-Centre Manager	Mr.	Paul	General	519-445-0330	519 445-0242	2676 4th Line Rd. P. O. Box 5000	Ohswéken	ON	N0A 1M0
Six Nations of the Grand River First Nation	Lands and Resources	Land Use Officer	Ms.	Joanne	Thomas	519-445-2563	519-445-0242	2498 Chiefswood Road, P.O. Box 5000	Ohswéken	ON	N0A 1M0
Métis Nation of Ontario			President	Gary	Lipinski	613-798-1488		500 Old St. Patrick St., Unit D	Ottawa	ON	K1N 9G4
Métis Nation of Ontario	Lands, Resources and Consultation Branch	Consultation Assessment Coordinator	Mr.	James	Wagar	416-977-9881	416-977-9911	222-75 Sherbourne St.	Toronto	ON	M5A 2P9
Métis Nation of Ontario	Grand River Community Métis Council		President	Cora	Bunn	519-843-7602		1 Stephen's Court	Fergus	ON	N1M 3G1
Six Nations of the Grand River Haudenosaunee Confederacy Council			Chief	Allen	MacNaughton	519-755-2769		R.R.#2, P.O. Box 449	Ohswéken	ON	N0A 1M0
Haudenosaunee Development Institute		Interim Director	Ms.	Hazel	Hill	519-445-4222	519-445-2389	16 Sunrise Court, Suite 417, P.O. Box 714	Ohswéken	ON	N0A 1M0

Aboriginal Contact List

Mohawks of Akwesasne				Mohawk Council of Akwesasne		(613) 575-2250		PO Box 579	Cornwall	ON	K6H 5T3
Oneida Nation of the Thames			Chief	Joel	Abram			RR2	Southwold	ON	N0L 2G0
Mohawks of the Bay of Quinte			Chief	R. Donald	Maracle	(613) 396-3424		13 Old York Rd	Tyendinaga Mohawk Territory		K0K 1X0
Wahta Mohawks			Chief	Blaine	Commandant	(705) 762-2354		2664 Muskoka Rd. 38, P.O. Box 260	Bala	ON	P0C 1A0

Agency Contact List

Agency	Title	First Name	Last Name	Position	Department	Phone	Fax	Address	City	Prov	Postal Code	Email
Haldimand County	Ms.	Evelyn	Eichenbaum	Clerk	Cayuga Admin Office	905-318-5932 x 262		45 Munsee Street North, PO Box 400	Cayuga	ON	N0A 1E0	
Ministry of Energy and Infrastructure	Mr.	Allan	Jenkins	Sr. Policy Analyst	Ministry of Energy	416-325-6926	416-325-6972	880 Bay St., 3rd Floor	Toronto	ON	M7A 2E1	allan.jenkins@ontario.ca
Ministry of the Environment	Ms.	Doris	Dumais	Director, Approvals Program	Environmental Assessment and Approvals Branch	416-314-8171	416-314-8452	2 St. Clair Ave. West, Floor 12A	Toronto	ON	M4V 1L5	doris.dumais@ontario.ca
Ministry of the Environment	Mr.	Geoffrey	Knapper	Manager	Hamilton District Office	905-521-7650	905-521-7806	119 King St. W	Hamilton	ON	L8P 4Y7	geoffrey.knapper@ontario.ca
Ministry of Natural Resources	Ms.	Renee	Bowler	Env. Planner	Env. Planning	705-755-5870	705-755-1971	300 Water Street, 5th Floor, North Tower	Peterborough	ON	K9J 4R5	Renee.Bowler@ontario.ca
Ministry of Aboriginal Affairs	Mr.	David	Pickles	Team Lead	Ministry of Municipal Affairs and Housing	416-326-4757		160 Bloor St. East, 4th Floor	Toronto	ON	M7A 2E61	david.pickles@ontario.ca
Ontario Realty Corporation	Mr.	Anil	Wijesooriya	General Manager	Planning, Survey and Appraisal Professional Services	(416) 212-6183	(416) 212-1131	1 Dundas St. W., Suite 2000	Toronto	ON	M5G 2L5	anil.wijesooriya@ontariorealty.ca
Ministry of Transportation	Ms.	Shelley	Tapp	Acting Manager	Provincial and Environmental Planning Office	(905) 704-2104	(905) 704- 2007	301 St. Paul Street - 2nd Floor	St. Catharines	ON	L2R 7R4	shelley.tapp@ontario.ca
Ministry of Government Services	Mr.	Lou	Battiston	Manager, Technology and Liaison	Ontario Government Mobile Communications Office	416-327-0368	416-327-0353	155 University Avenue - 14th Floor	Toronto	ON	M5H 3B7	
Ministry of Municipal Affairs and Housing	Mr.	Victor	Doyle	Mgr. Comm. Plan. & Develop	Central Municipal Services Office	416-585-6109	416-585-6882	777 Bay Street, 2nd Floor	Toronto	ON	M5G 2E5	victor.doyle@ontario.ca
Ministry of Tourism and Culture	Ms.	Karla	Barboza	Heritage Adviser	Culture Services Unit	(416) 314 7120	(416) 212 1802	401 Bay Street, Suite 1700	Toronto	ON	M7A 0A7	karla.barboza@ontario.ca
Ministry of the Attorney General												
Ministry of Agriculture Food and Rural Affairs	Mr.	Drew	Crinklaw	Rural Planner	Environmental & Land Use Policy	519-873-4085	519-873-4062	667 Exeter Road	London	ON	N6E 1L3	drew.crinklaw@ontario.ca
Electrical Safety Authority		Chris	Jodhan	VP and General Counsel				155 Matheson Blvd. West	Mississauga	ON	L5R 3L5	
Independent Electricity System Operator	Mr.	Roy	Stewart	General Counsel and Corporate Secretary				Station A, Box 4474	Toronto	ON	M5W 4E5	
Ontario Power Authority	Mr.	Michael	Lyle	Aboriginal and Regulatory Affairs				Suite 1600, 120 Adelaide Street West	Toronto	ON	M5H 1T1	
Imperial Oil - Nanticoke	Ms.	Nancy	Sherwin	Env. Coordinator		519-587-7130	519-587-7070	20 Lakeside Dr., PO Box 500	Nanticoke	ON	N0A 1L0	
U.S. Steel Canada						905 528 2511	905-308-7002	386 Wilcox St., PO Box 2030	Hamilton	ON	L8N 3T1	
Haldimand County Hydro (Jarvis TS)	Mr.	Lloyd	Payne	President/CEO		905-765-5211		1 Greendale Dr.	Caledonia	ON	N3W 2J3	
Hydro One Networks Inc. (Jarvis TS)	Mr.	Nairn	McQueen	Sr. Vice President		416-345-5974		483 Bay St.	Toronto	ON	M5G 2P5	leslie.koch@hydroOne.com
Ontario Power Generation Inc. (Nanticoke GS)	Mr.	Craig	Wardrop	Plant Manager		519-587-2201 ext. 3501		34 Haldimand Rd. 55 South, PO Box 2000	Nanticoke	ON	N0A 1L0,	
Haldimand County Hydro (Caledonia TS)	Mr.	Lloyd	Payne	President/CEO		905-765-5211		1 Greendale Dr.	Caledonia	ON	N3W 2J3	
Hydro One Networks Inc. (Caledonia TS)	Mr.	Nairn	McQueen	Sr. Vice President		416-345-5974		483 Bay St.	Toronto	ON	M5G 2P5	
Norfolk Power Distribution Inc. (Bloomsburg MTS)	Mr.	Brad	Randall	President/CEO		519-426-4440		70 Victoria St., Box 588	Simcoe	ON	N3Y 4N6	
Norfolk Power Distribution Inc. (Norfolk TS)	Mr.	Brad	Randall	President/CEO		519-426-4440		70 Victoria St., Box 588	Simcoe	ON	N3Y 4N6	

Agency Contact List

Hydro One Networks Inc. (Norfolk TS)	Mr.	Naim	McQueen	Sr. Vice President		416-345-5974		483 Bay St.	Toronto	ON	M5G 2P5	
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Stantec

**GRAND RENEWABLE ENERGY PARK
CONSULTATION REPORT**

Appendix C

Project Notices

NOTICE OF PROPOSAL TO ENGAGE IN A RENEWABLE ENERGY PROJECT AND NOTICE OF PUBLIC OPEN HOUSE

To be held by Samsung Renewable Energy Inc. regarding a Proposal to Engage in a Renewable Energy Project GRAND RENEWABLE ENERGY PARK

Samsung Renewable Energy Inc. (Samsung) is planning to develop and construct a wind and solar energy project as part of the Grand Renewable Energy Park, in Haldimand County.

Samsung is planning to engage in this renewable energy project in respect of which the issuance of renewable energy approvals is required. The proposal to engage in this renewable energy project and the project itself are subject to the provisions of the *Environmental Protection Act (Act)* Part V.0.1 and Ontario Regulation 359/09 (Regulation) which covers Renewable Energy Approvals (REA). This notice is being distributed in accordance with section 15 of the Regulation prior to an application being submitted and assessed by the Ministry of the Environment.

Samsung has retained Stantec Consulting Ltd. to complete studies required for the REA application in accordance with the requirements of the Act and Regulation.

Project Description:

Pursuant to the Act and Regulation, the wind aspect of the project is considered to be a Class 4 wind facility and, if approved, would have a name plate capacity of 140 MW and consist of approximately 63 wind turbines (depending upon the turbine manufacturer and model selected). The solar aspect of the project is considered to be a Class 3 solar facility and, if approved, would have a nameplate capacity of 100 MW and consist of approximately 700 acres of land. Both projects would also include electrical collection lines, a 30 km transmission line, substation, and other ancillary facilities such as access roads. The project location is shown in the map below.

A Draft Project Description Report titled *Grand Renewable Energy Park Draft Project Description* has been prepared, which provides additional project information and details. A copy has been made available during regular business hours at the Haldimand County Administration Office (45 Munsee Street North, Cayuga). The Draft Project Description Report is also available for review on the project website at www.SamsungRenewableEnergy.ca.

Public Open House:

Stakeholder participation is an important part of Samsung's consultation process. One of the goals is to understand what is important to local community members and to incorporate their priorities into the project design. To facilitate this process,

Samsung is inviting the community to attend a Public Open House. The Public Open House will provide the community with an opportunity to meet the project team, learn more about the proposed project and the REA process, and to provide comments and questions regarding the project. The upcoming Public Open House will include display boards of the study area, REA process and preliminary environmental constraints in the Project area.

Samsung anticipates hosting a final open house for the project in late 2010 to share our project layout, the results of our environmental studies, and to receive additional feedback from the community. Draft Project Reports, including a project layout will be made available to the public at least 60 days before the final project open house.

Samsung welcomes your input at our upcoming public open house scheduled for:

Public Open House Information:

Date: July 8, 2010
Time: 5 p.m. to 9 p.m.
Location: Cayuga Kinsmen Community Centre
 15 Thorburn Street
 Cayuga, Ontario

For more information:

Contact our study team to learn more about the proposed project, public meetings, to communicate questions or comments, or to be added to our project distribution list.

Project website: www.SamsungRenewableEnergy.ca.

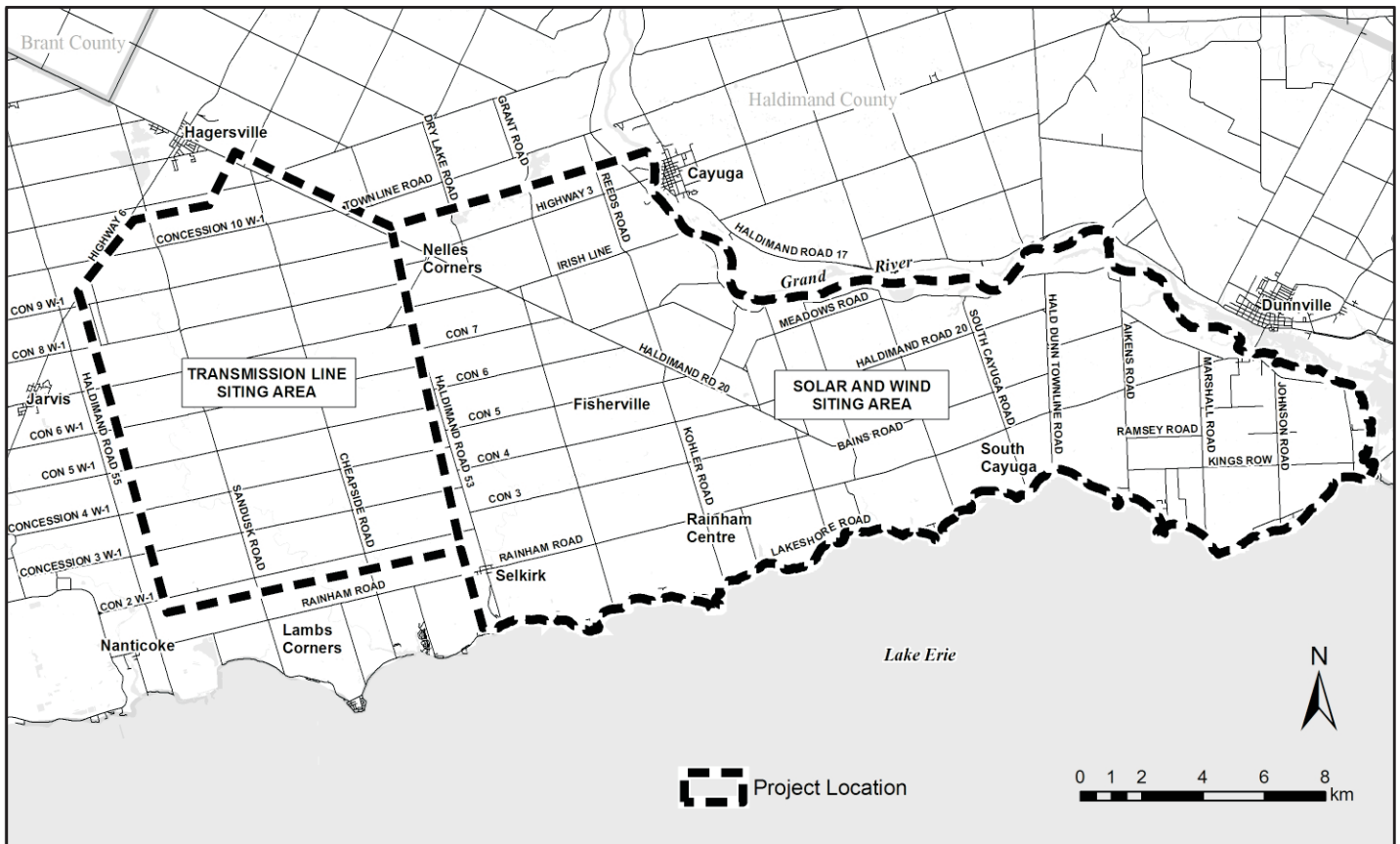
Project Email: GrandRenewable@SamsungRenewableEnergy.ca

Project Telephone: 1-877-536-6050 or 1-519-836-6050 (collect)

Mail:

Adam Rosso
 Manager, Business Development
 Samsung Renewable Energy Inc.
 55 Standish Court
 Mississauga, ON L5R 4B2

Rob Nadolny
 Senior Project Manager
 Stantec Consulting Ltd.
 70 Southgate Drive, Suite 1
 Guelph, ON N1G 4P5



NOTICE OF PUBLIC MEETING

To be held by Samsung Renewable Energy Inc. Regarding a Proposal to Engage in a Renewable Energy Project

Project Name: Grand Renewable Energy Park

Project Location: County of Haldimand, Ontario

Dated at County of Haldimand this the 20th day of July, 2011

Samsung C&T (Samsung), Pattern Energy (Pattern), and Korea Power Electric Corporation (KEPCO), (together, these companies referred to herein as "SPK") are proposing to develop, construct, and operate a wind and solar energy project as part of the Grand Renewable Energy Park, in Haldimand County. SPK is planning to engage in this renewable energy project in respect of which the issuance of renewable energy approvals is required. The proposal to engage in the project and the project itself are subject to the provisions of the Environmental Protection Act (ACT) Part V.0.1 and Ontario Regulation 359/09 (Regulation). This notice is being distributed in accordance with section 15 of the Regulation prior to an application being submitted and assessed for completeness by the Ministry of the Environment.

Meeting Information:

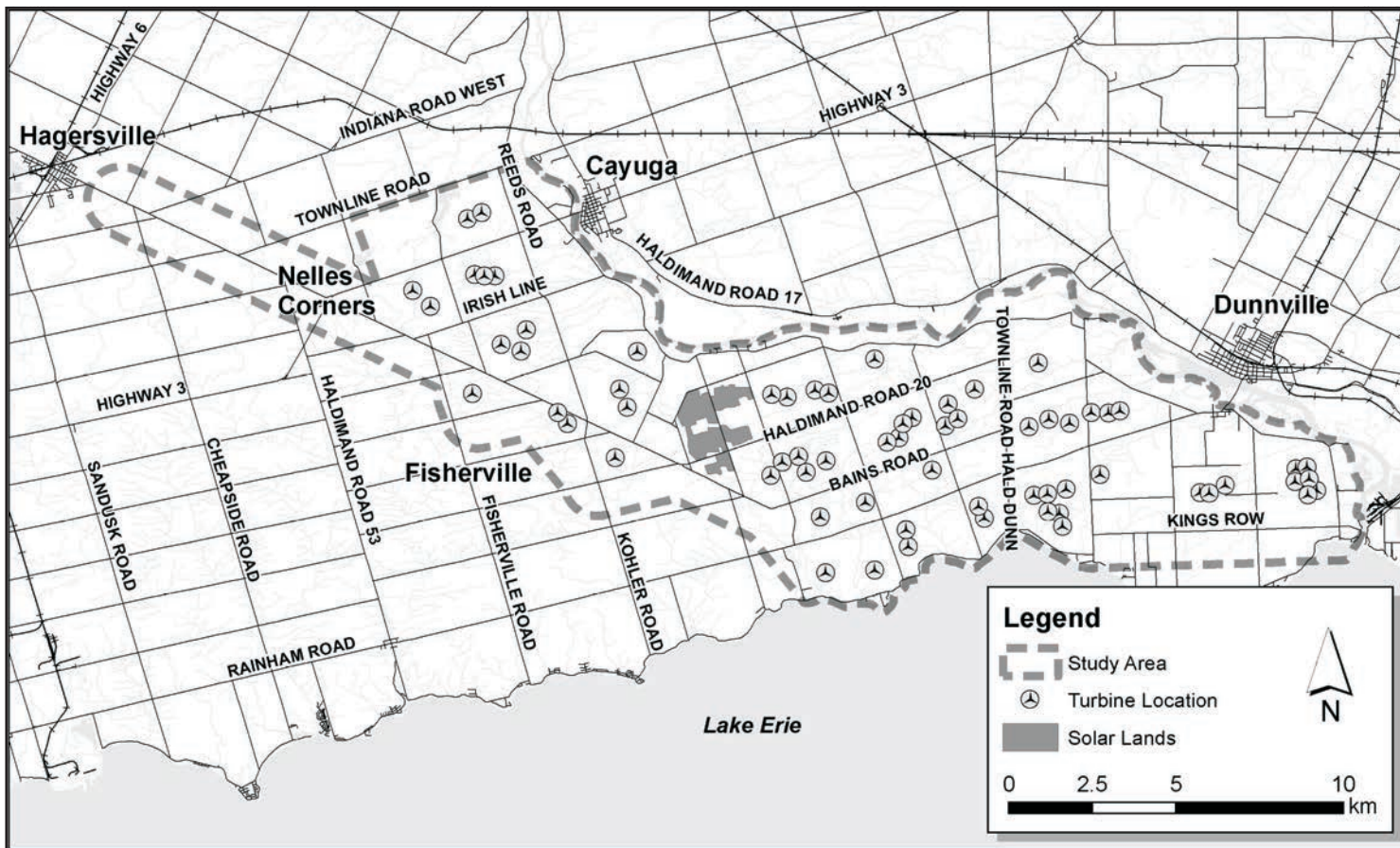
DATE: September 22, 2011

TIME: 5:00 to 8:00 PM

PLACE: Cayuga Kinsmen Community Centre
15 Thorburn Street, Cayuga, Ontario

Project Description:

Pursuant to the Act and Regulation, the facility, in respect of which the project is to be engaged in, is a Class 4 Wind Facility and a Class 3 Solar Facility. If approved, this facility would have a total maximum nameplate capacity of 148.6 MW for the wind project and 100 MW nameplate capacity for the solar project. The project location is described in the map below.



Documents for Public Inspection:

The Draft Project Description Report describes the project as a wind facility consisting of sixty-seven (67) Siemens SWT-2.3-101 wind turbines, approximately 425,000 photovoltaic (PV) solar panels, a collector sub-station, interconnect station and Operations and Maintenance building, approximately 20 km of 230 kV transmission lines along Haldimand Road 20, and approximately 82 km of new overhead and/or underground 34.5 kV collector lines along public roads. A written copy of the Draft Project Description Report will be made available for public inspection starting on July 23, 2011 at the following locations:

Dunnville Library
317 Chestnut St
Dunnville, Ontario N1A 2H4
905-774-4240

Selkirk Library
34 Main Street West
Selkirk, Ontario N0A 1P0
905-776-2127

Hagersville Library
13 Alma St. North
Hagersville, Ontario N0A 1H0
905-768-5941

**Haldimand County-
Cayuga Administration Building**
45 Munsee Street North
P. O. Box 400
Cayuga, Ontario N0A 1E0
905-318-5932

Further, the applicant has obtained or prepared, as the case may be, supporting documents in order to comply with the requirements of the Act and Regulation. Written copies of the draft supporting documents will be made available for public inspection starting on July 23, 2011 to September 22, 2011 at the locations identified above and on the project website (www.SamsungRenewableEnergy.ca).

Project Contacts and Information:

To learn more about the project proposal, public meetings, and to communicate concerns, please contact the project team via e-mail at GrandRenewable@SamsungRenewableEnergy.ca or by phone at 1-877-536-6050 or 1-519-836-6050 (Collect). Comments and questions can also be directed by mail to the following (comments must be received prior to or on September 22, 2011):

Stantec Consulting Ltd.
Attn: Rob Nadolny
Suite 1, 70 Southgate Drive
Guelph, Ontario N1G 4P5

Appendix D

Public Meeting Summary Tables

**Grand Renewable Energy Park
July 8, 2010 Public Meeting Comment Summary Table**

The following table summarizes the comments provided during and after (via the questionnaire and email) the July 8, 2010 Public Meeting. Responses to these questions are being provided based on the status of the Project at the time of the release of the Draft REA Reports (July 2011).

Theme	Comment	Response
Layout and setbacks	When will the layout be available?	<p>On December 22, 2010, SPK submitted a draft site plan to the Ministry of the Environment (MOE) in order to “crystallize” the turbine layout. The Project Crystallization was communicated to the public, Aboriginal communities, and other stakeholders through the December 2010 Project Newsletter and a posting on the Project website. Additional Project layout information (access roads, solar panels, substation, etc.) was made available for review and comment as part of the draft REA document review period beginning on July 23, 2011. SPK notified stakeholders of the draft REA document review period by mail or e-mail, the week of July 18, 2011. Notification was sent to the Project distribution list including provincial and federal agencies (including the Director of the MOE and the MOE district office), municipalities, Aboriginal communities, and assessed landowners within the Project Study Area. Information regarding the review and comment period was also posted in three newspapers, the Brantford Expositor, Dunnville Chronicle, and Haldimand Press.</p> <p>Source of information: Draft Consultation Report.</p>
	Is a map available of the optioned properties for the project?	<p>Optioned properties associated with all Project components are provided with the site plans as part of the draft REA documents.</p> <p>Source of Information: Attachments A, Site Plans and B, Land Parcels – Draft Project Description Report.</p>
	What factors are considered for determining the layout?	<p>Numerous factors are considered when determining a project layout including regulatory requirements (i.e. setbacks and noise modeling), natural features, socio-economic features,</p>

**Grand Renewable Energy Park
July 8, 2010 Public Meeting Comment Summary Table**

Theme	Comment	Response
		<p>archaeological and heritage features, and land options (i.e. land that has been leased to Samsung for project development). One of the most significant factors is the minimum 550 m setback from turbines to non-participating receptors.</p> <p>Source of Information: Ontario Regulation 359/09.</p>
	<p>What are the solar setbacks?</p>	<p>Setbacks are regulated by the Province of Ontario and are listed in Ontario Regulation 359/09. Setbacks to all natural and heritage features such as 120 m to Provincially Significant Wetlands apply for solar projects; however setbacks to features such as public roads, property lines and receptors do not apply to solar projects. A Noise Study Report is required to ensure that the transformers associated with the solar panels are located so as to not negatively affect stakeholders as per the Certificate of Approval (Air) requirements.</p> <p>Source of Information: Draft Design and Operations Report and Ontario Regulation 359/09.</p>
	<p>What is the turbine setback from Lake Erie? What is the turbine setback from cottages along Lake Erie?</p>	<p>All turbines are a minimum of 550 m from Lake Erie (due to the presence of non-participating receptors along the lakeshore).</p> <p>Source of Information: Attachments A, Site Plans – Draft Project Description Report.</p>
	<p>Will turbines be located off-shore?</p>	<p>No turbines are being proposed offshore as part of the Grand Renewable Energy Park.</p>
	<p>Why do turbine setbacks not increase with the number of turbines?</p>	<p>As per Section 55. (3) of Ontario Regulation 359/09, the setback distance increases as the number of turbines and/or sound power level of the wind turbine increases. The setback can extend to as much as 1500 m; however a Noise Study can be conducted to justify the placement of turbines within the identified setbacks as long as the turbines meet the MOE Noise Guidelines, but can be no closer than 550 m.</p>

**Grand Renewable Energy Park
July 8, 2010 Public Meeting Comment Summary Table**

Theme	Comment	Response
	What are the turbine setbacks to private airstrips?	<p>Source of Information: Draft Design and Operations Report and Ontario Regulation 359/09.</p> <p>There is no regulated setback to private airstrips in Ontario. The only known airport within the Project Location is the Dunnville Airport. The airport is going to be deregistered as a public airport. Transport Canada has confirmed this approach and will remove the airport from the Transport Canada database (Canadian Flight Information).</p> <p>Source of Information: Draft Design and Operations Report.</p>
	What are the turbine setbacks to agricultural outbuildings, barns, etc.?	<p>Turbine setbacks apply to “noise receptors” as defined in Ontario Regulation 359/09. As defined, this does not include agricultural outbuildings, barns, etc. All noise receptors have been identified within the Noise Impact Assessment which demonstrates that the Project will be compliant with MOE noise guidelines.</p> <p>Source of Information: Draft Design and Operations Report and Ontario Regulation 359/09.</p>
	How close can the solar farm be to wind turbines?	<p>There is no regulated setback for solar farms from wind turbines; however an industry standard is to locate solar farms approximately 500 m from wind turbines.</p>
	What are the setbacks to gas wells and the potential impacts?	<p>The Ministry of Natural Resources (MNR) has instituted a 75 m setback from existing oil and gas for siting turbines, unless an Engineers Report is prepared demonstrating that there are no effects to the development. Samsung is aware of the numerous gas wells in Haldimand County and have taken their locations into consideration in the design of the Project.</p> <p>An Engineers Report will be prepared prior to construction of the Project. The purpose of the Engineer’s Report will be to demonstrate that there are no effects to the petroleum resources operations as a result of the construction of the</p>

**Grand Renewable Energy Park
July 8, 2010 Public Meeting Comment Summary Table**

Theme	Comment	Response
		<p>Project. If a potential effect to the petroleum resources operations is identified, construction methods may be altered (staying within the Project Location) to minimize or eliminate any potential effects.</p> <p>Source of Information: Draft Construction Plan Report</p>
	Can landowners be “paid off” to reduce setbacks?	To be considered as a “participant” in the Project and thus not have the 550 m setback apply, the landowner must be financially involved in the project (i.e. leased land) and have project infrastructure located on their property. Just receiving lease payments does not constitute the property/receptor as being a participant and thus landowners cannot be “paid off”.
	No wind turbines or solar panels should be within 2 km of my property.	<p>The Ontario Government has instituted a minimum setback of 550 m for wind turbines from non-participating receptors. Samsung will be meeting the setback requirements from non-participating receptors.</p> <p>Source of Information: Draft Project Description Report</p>
	Nanticoke has already been ruined. Why not build the project there?	Samsung has identified the current area as being the location of the proposed project due to various factors including a good wind resource, available land base, and existing electrical transmission capacity.
	Are the solar panels fixed and how high are they?	Each solar PV panel is fabricated using multicrystalline manufacturing techniques and is mounted on structural aluminum or galvanized steel racks in rows. The individual solar PV panels measure approximately 2 m x 1 m. Each is mounted on a rack that is positioned approximately 2 m above finished grade at an angle of 28 - 35 degrees. Each rack is supported by screwed pile frame supports that are located beneath the rack approximately every 4 m. The supports are screwed into the undisturbed ground to a depth of approximately 2 m or below the frost line.

**Grand Renewable Energy Park
July 8, 2010 Public Meeting Comment Summary Table**

Theme	Comment	Response
	<p>Why not use rooftops instead of agricultural land for the solar farm?</p>	<p>Source of Information: Draft Construction Plan Report.</p> <p>The OPA has been directed that there is to be some ground-mounted solar procurement, up to 500 MW, that will be allowed on Class 3 lands, allocated on a regional basis.</p> <p>Roof-top solar panels are being used throughout the Province on a small scale basis; however this approach is not suitable for the amount of power that is required to be produced by Samsung as part of the Renewable Energy Cluster.</p>
	<p>Will the turbines restrict activities on the adjacent non-participating property?</p>	<p>The turbines will not restrict activities on adjacent non-participating properties. In addition, vacant lots are also taken into consideration in the design of the Project site plan according to MOE Noise Guidelines.</p>
	<p>Infrastructure should not be placed within lands that flood.</p>	<p>Lands that routinely flood are classified as Hazard Lands (designated by Conservation Authorities and Planning Authorities) and were avoided to the greatest extent possible during the design of the Project. The GRCA and LPRCA identified riverine hazards (floodplains, steep and erosion susceptible slopes). Several of the floodplains and steep / valley slopes associated with the various tributaries of the Grand River and Lake Erie occur within 120 m of the Project Location. The appropriate permits will be sought prior to construction.</p> <p>Source of Information: Natural Heritage Assessment.</p>
<p>Transmission Line and Collection Lines</p>	<p>Will the transmission line be overhead or underground?</p>	<p>From the substation, a 20 km long overhead 230 kV transmission line will be constructed to connect the power generated by the wind and solar generation equipment to the Ontario electricity grid that is accessible at a location south of Hagersville, Ontario. At a location just east of Nelles Corners (intersection of Haldimand Rd 20 and Highway 3), the overhead transmission line will make a transition to underground cable housed within a concrete encased ductbank. The underground cable is required as the overhead transmission line would</p>

**Grand Renewable Energy Park
July 8, 2010 Public Meeting Comment Summary Table**

Theme	Comment	Response
		<p>violate safety clearances over the built infrastructure of Nelles Corners.</p> <p>Source of Information: Draft Construction Plan Report.</p>
	<p>Will the collector lines be overhead or underground?</p>	<p>The collector lines will be buried underground on private property from the turbines to the municipal road rights-of-way at which time the lines may be switched to overhead lines or remain underground while in the road right of way on their way to the collector substation. The overhead lines will be constructed on single wooden pole structures, similar to existing distribution lines located throughout the area.</p> <p>Source of Information: Draft Construction Plan Report.</p>
	<p>Is it more costly to build underground lines?</p>	<p>In most cases, it is more costly to build underground lines.</p>
	<p>Who will own the transmission line after it is built?</p>	<p>Samsung will be the owner of the transmission line.</p>
	<p>What does the Transmission Line Siting Area mean?</p>	<p>The Transmission Line Siting Area was used to identify the area of land that was being considered for potential routing options for the transmission line. It was intended to indicate that no turbines or solar panels were anticipated to be located within the Transmission Line Siting Area, but that the lands could be involved in the Project. The transmission line will be located along Haldimand Road 20 within the municipal road right-of-way.</p> <p>Source of Information: Draft Construction Plan Report.</p>
	<p>Prefer the abandoned railway for the transmission line route.</p>	<p>A number of routing options were considered including the use of the abandoned railway. The preferred option was to locate the transmission line along Haldimand Road 20 within the municipal road right-of-way</p> <p>Source of Information: Draft Construction Plan Report.</p>
	<p>How are companies working together (land swapping,</p>	<p>Samsung must consider other existing and potential projects in</p>

**Grand Renewable Energy Park
July 8, 2010 Public Meeting Comment Summary Table**

Theme	Comment	Response
Other Projects	sharing infrastructure, layout design)?	the design of the Grand Renewable Energy Park according to the requirements of Ontario Regulation 359/09 and the MOE Noise Guidelines.
	Samsung site overlaps other developers land. Will this Project affect the chances of other projects advancing?	<p>Samsung must consider other existing and potential projects in the design of the Grand Renewable Energy Park according to the requirements of Ontario Regulation 359/09 and the MOE Noise Guidelines. Developers of other projects must also consider the Grand Renewable Energy Park in the design of their project(s). Who must consider who is based on the advancement of the project within the REA process. As such, the Grand Renewable Energy Park may or may not affect the chances of other projects advancing in the area depending upon their proximity to the Grand Renewable Energy Park and the status of the project within the REA process.</p> <p>Source of Information: Ontario Regulation 359/09.</p>
Health and Safety	How often do turbine blades fall off?	<p>The potential exists for full or partial blade detachment from the turbine, resulting in damage to the landing area from the impact, however such events are found to be very rare.</p> <p>Root causes of blade failure have been continuously addressed through developments in best practice in design, testing, manufacture and operation; much of these developments have been captured in the International Electrotechnical Commission (IEC) standards to which all current large wind turbines.</p> <p>Given that accidents or malfunctions of the turbines are considered to be infrequent events, and turbines would be located at least the minimum regulated setback distance from any residence, the event of a failure of the structure would likely not fall beyond the setback distance and not affect public</p>

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Theme	Comment	Response
	Effects from the high voltage transmission line.	<p>health and safety.</p> <p>Source of Information: Draft Design and Operations Report.</p> <p>A review of information from the Electric and Magnetic Fields Research and Public Information Dissemination Program, the Federal-Provincial-Territorial Radiation Protection Committee – Canada, Health Canada and International Agency for Research on Cancer was undertaken and provided in the Draft REA Reports. The consensus among agencies and the literature reviewed is that:</p> <ul style="list-style-type: none"> • available evidence is not strong enough to conclude that EMF causes cancer in children or occupationally exposed adults; • there is insufficient evidence linking EMF to any other human health effects; and, • more studies are needed to draw firm conclusions. <p>Source of Information: Attachment F – Draft Design and Operations Report</p>
	Turbines make people sick. Are health studies being conducted? Long-term effects on people have not been proven with controlled studies.	<p>Both peer-reviewed and popular literature reports suggest that some people can be annoyed by wind turbine noise. Scientifically defensible peer-reviewed studies suggest that annoyance is more strongly related to subjective factors like visual impact, attitude to wind turbines in general (benign vs. intrusive) and sensitivity to noise rather than noise itself from turbines. In the popular literature, self-reported health outcomes are related to distance from turbines and the claim is made that infrasound is the causative factor for the reported effects, even though sound pressure levels are not measured. Moreover, self-reported health effects can be associated with numerous issues, not just wind turbines. What both types of</p>

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Theme	Comment	Response
		<p>studies have in common is the conclusion that wind turbines can be a source of annoyance for some people. Annoyance can lead to health effects and it appears that these effects can be managed and mitigated through behavioural and cognitive behavioural interventions.</p> <p>Source of Information: Attachment F Health Impact Assessment – Draft Design and Operations Report</p>
	<p>Concerned about high frequency sound from the turbines.</p>	<p>A Noise Assessment Report has been prepared for the Project in accordance with MOE noise guidelines. The Noise Assessment Report demonstrates that the Project will operate within the noise limits established by the MOE.</p> <p>Source of Information: Draft Design and Operations Report</p>
	<p>Concerned about stray energy from the wind turbines.</p>	<p>Stray voltage results from an overflow of current traveling through the ground, and is manifested as an elevated voltage being developed between the neutral and ground wires. If a human touches two pieces of equipment that are at different voltage levels, a small electric current passes through the person and could have an adverse effect on their health if the voltage were strong enough. Stray voltage is not unique to wind farms and Hydro One is attempting to address stray voltage where it is a result of poor or faulty farm wiring, improper grounding of older Hydro One distribution lines (hydro lines connected to a farm/house), and other on and off farm sources. Stray voltage can be easily prevented through proper wiring practices, such as appropriate insulation, and can be easily measured and eliminated by qualified professionals should it occur.</p> <p>Source of Information: Attachment F – Draft Design and</p>

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Theme	Comment	Response
	If health concerns are proven after the project is operational, will affected persons be compensated (e.g. house purchase for fair market value)?	<p>Operations Report</p> <p>In the event that during the course of operations, new peer-reviewed scientific information establishes a causal link between health effects and wind farms, Samsung will examine any reasonable measures that could be put in place to mitigate such unforeseen health effects and if deemed applicable appropriate actions will be taken.</p>
Noise	How noisy are the turbines? Can I hear them?	<p>Depending on the location of a residence, stakeholders may or may not be able to hear the turbines. However, a Noise Assessment Report was prepared for the Project according to MOE guidelines (<i>Interpretation for Applying MOE NPC Technical Publications to Wind Power Generation Facilities, October 2008</i>). The report will be subject to a technical review by noise experts at the MOE prior to the REA approval. If the report does not meet the MOE requirements, REA approval will not be granted. It should be noted that Ontario uses some of the most conservative sound modeling in the world.</p> <p>Source of Information: Attachment B, Noise Assessment Report – Draft Design and Operations Report</p>
	Do the solar panel transformers generate noise?	<p>Yes, however the transformers will operate below a nominal voltage of 50 kV and are not required to be assessed as part of the Noise Assessment Report.</p> <p>Source of Information: Ontario Regulation 359/09.</p>
Property Value	What are the impacts on property values from both wind and solar development? Concerned that my property value will decrease.	<p>Based upon the data reviewed to date in other areas with established wind plants (e.g., Canada, USA, Europe, and Australia), no evidence of a material negative effect on property value as a result of the presence of wind plants was provided. Ontario data suggests that wind plants have a neutral effect on property values; which is consistent with international trends and experiences.</p>

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Theme	Comment	Response
		<p>The solar farm will be designed to minimize any potential visual effects on nearby landowners and thus any potential impact to property values. With regards to a property being within visual distance of the solar farm and the potential effects to property values, there is no available evidence to-date (via systematic reviews of property value impacts) which links the location of a solar farm with impacts on property values.</p> <p>Source: Draft Design and Operations Report</p>
	<p>Will Samsung compensate landowners for a loss in property value (if experienced)?</p>	<p>Samsung will examine any reasonable measures to address potential effects to property values; however Samsung does not believe that property values will decrease and therefore will not be compensating landowners if property values decrease (if it even occurs).</p>
	<p>US data is not relevant for property value studies.</p>	<p>Data that has been reviewed to date has been based on areas with established wind plants including Canada, USA, Europe, and Australia. Ontario data suggests that wind plants have a neutral effect on property values; which is consistent with international trends and experiences.</p>
<p>Agriculture</p>	<p>What are the effects on agriculture?</p>	<p>The agricultural land used for the turbines, solar panels, access roads and collector lines are primarily Class 3 agricultural lands and potential effects are related to the change in use from agricultural to renewable energy development. However, where lands are being used for Project infrastructure, landowners are being financially compensated for the lease of the private lands and thus offset the effect of removing the land from agricultural production.</p> <p>Normal farming practices are permitted adjacent to project infrastructure, however sensitive project components will be signed and/or fenced for safety reasons (e.g. solar panels). The</p>

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Theme	Comment	Response
		<p>underground electrical collection system will be at a depth that will not affect ploughing, tilling or planting. The Project is being designed to minimize effects on farm activities.</p> <p>Information Source: Draft Design and Operations Report</p>
	<p>Class 3 farm lands should not be used for solar development.</p>	<p>The Ontario Power Authority has indicated that 500 MW of solar energy in Ontario can be built on prime agricultural land, of which Samsung has been granted approval to construct 100 MW. As such, the proposed solar farm will be built on Class 3 agricultural land.</p>
	<p>Why is industry permitted on agricultural lands?</p>	<p>The Provincial Policy Statement (PPS) encourages renewable energy development provided that it meets provincial and federal requirements. Where renewable energy projects are proposed in agricultural sectors (another area of Provincial interest) the PPS indicates that impacts on agricultural operations be minimized, however it does not infer that renewable energy development not be permitted on agricultural lands.</p>
	<p>What is the economic difference between the project and the use of the land for agricultural purposes?</p>	<p>Given that agricultural land will be required during the operation of the turbines, solar panels, access roads and collector lines, landowners are being financially compensated for the lease of the private lands and thus offset the effect of removing the land from agricultural production. To the greatest extent possible, efforts have been made to site the turbines, access roads and collector lines in such a way as to minimize disturbances to existing agricultural lands and operations. In particular, siting of turbines and access roads are completed with the approval of the participating landowner. Operational and maintenance activities would be restricted to the delineated Project areas such as access roads.</p> <p>In addition to employment opportunities, local economic</p>

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Theme	Comment	Response
		<p>benefits would also include a minimum of 20 years of land lease payments to participating landowners in addition to increases in municipal taxes to be paid by Samsung.</p> <p>The removal of lands from agricultural production is not anticipated to have a noticeable impact on the local agri-business economy given the magnitude of the Project and the inherent variability in crop production.</p> <p>Information Source: Draft Construction Plan Report; Draft Design and Operations Report</p>
	<p>Effect from stormwater runoff from the solar panels causing erosion and/or flooding.</p>	<p>Because the solar cells are mounted above the ground, infiltration, filtration through vegetation and other natural hydrologic process will continue similar to existing conditions. Drainage will generally be directed to existing receiving systems (drainage paths, roadside ditches, etc.) as under current conditions. Therefore, a general area-wide stormwater treatment and/or detention systems are not required. The small increase in runoff from the gravel access roads will be attenuated and filtered through local ditches and no formal basins or other management techniques are required.</p> <p>Source of Information: Design and Operations Report.</p>
	<p>What are the effects on soil quality once the solar panels are removed?</p>	<p>In order to prevent soil erosion, provide dust control and maintain an annual grassland type appearance under the solar panels during operation, Samsung may plant a vegetated understory of native grassland species that will mimic natural grassland vegetation. This type of vegetation should require only minimal maintenance and irrigation and would assist in preventing the invasion of non-native grassland species.</p>

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Theme	Comment	Response
		<p>The operator of the Project will develop a Rehabilitation Plan for areas disturbed by the Project that is designed to restore habitat in areas affected by Project-related equipment. This plan will be developed in consultation with the appropriate agencies prior to the decommissioning of the Project.</p> <p>Source of Information: Design and Operations Report; Decommissioning Plan Report.</p>
	<p>What are the impacts to livestock?</p>	<p>Normal farming practices are permitted adjacent to project infrastructure including livestock grazing. Studies have found that wildlife using the agricultural areas in proximity to infrastructure are tolerant of a certain level of disturbance from current agricultural, rural, and domestic activities and are not negatively affected by renewable energy development.</p>
<p>Visual</p>	<p>What are the visual impacts of the turbines and solar farm?</p>	<p>The Project's wind turbines are tall structures that will be generally visible from a distance of several kilometers away. Visibility from receptors will vary based on topography, viewer position and weather conditions.</p> <p>The solar panels will be installed on mounts that are approximately 2 metres high at the highest point. The solar panels will be visible from the perimeter of the solar farm and from elevated areas around the solar farm. However, Samsung is proposing to minimize the visual effects of the solar farm around its perimeter through the use of a 6 m wide berm.</p> <p>Source of Information: Construction Plan Report and Design and Operations Report</p>
	<p>Solar farm should be treed to mitigate visual impacts.</p>	<p>Samsung is proposing to minimize the visual effects of the solar farm around its perimeter through the use of a 6 m wide berm.</p> <p>Source of Information: Design and Operations Report.</p>

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Theme	Comment	Response
Natural Environment	Who determines what is “significant” for the significant features which have associated setbacks?	<p>The Ministry of Natural Resources (MNR) identifies natural features within the Province which are “significant”. In addition, Stantec conducted an evaluation to determine if any additional features are “significant’ using evaluation criteria or procedures established and accepted by the MNR. Additional information regarding the evaluation of “significance” is available in the Natural Heritage Assessment.</p> <p>Source of Information: Natural Heritage Assessment.</p>
	Are bird and butterfly migratory paths looked at?	<p>A significant amount of work was completed to document baseline environmental conditions including migratory paths. In summary:</p> <p><u>Shorebird Migratory Stopover Areas</u></p> <p>The Lake Erie shoreline that is found within the Study Area is an exposed energetic environment and shoreline habitat is composed of rocky shoreline. It does not contain mudflats or open areas of soft substrate that would be suitable for foraging. The shoreline type found within the Study Area does not have the potential to support significant concentrations of shorebirds during migration and candidate significant wildlife habitat for shorebird stopover areas is considered absent from in or within 120 m of the Project Location.</p> <p><u>Landbird Migratory Stopover Areas</u></p> <p>Based on the evaluation of significance, six features are found within 120 m of the Wind Project Location that met the criteria for significant wildlife habitat for migratory landbird stopover areas. These include Features 42b, 66, 68, 69, 81, and 87b. An EIS was completed for these features.</p> <p><u>Migratory Butterfly Stopover Areas</u></p>

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Theme	Comment	Response
		<p>No features within 120 m of the Wind Project Location were considered significant wildlife habitat in the form of migratory butterfly stopover areas.</p> <p>Source of Information: Natural Heritage Assessment</p>
	<p>How many birds are going to be killed?</p>	<p>Most North American wind projects have reported fewer than 4 bird fatalities (all species combined) per nameplate MW per year, and most authorities agree that this level of mortality is not concerning at the population level. The number of birds killed by wind turbines is substantially lower than that from other human sources of mortality, such as collisions with windows, buildings, and communication towers; cats; farming and pesticides; and vehicles.</p> <p>Source of Information: Natural Heritage Assessment.</p>
	<p>What are the impacts to Bald Eagles?</p>	<p>Three Bald Eagles were observed over the course of winter raptor surveys. One of which was observed in proximity to a nest, however it is located outside of the Study Area, more than 2 km east of the nearest Project component (a turbine location). The other Bald Eagles were observed flying over the Study Area and were not found to be using any particular habitat feature.</p> <p>Source of Information: Natural Heritage Assessment</p>
	<p>What are the potential impacts to bats?</p>	<p>Bat mortality rates at wind facilities are highly variable among regions. Some species of migratory bats are particularly vulnerable, and mortality peaks during the late summer and early fall migration. The MNR, who is the agency responsible for protecting bats, has produced detailed and prescriptive guidelines for post-construction monitoring of bat mortality, and mandatory mitigation requirements for facilities with high bat mortality. If there are significant effects as a result of project operation, the MNR has a process to address the effects</p>

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Theme	Comment	Response
		<p>including post-construction monitoring and contingency planning.</p> <p>No candidate significant wildlife habitat in the form of bat maternity roosts was noted within the Project Location or the Zone of Investigation.</p> <p>Source of Information: Draft Design and Operations Report.</p>
	<p>What work has been done regarding migratory paths of Tundra Swans?</p>	<p>A review of the MNR's wetland data records indicates the presence of waterfowl stopover and staging areas at Dry Lake, Dunnville Marshes and Wardell's Creek Mouth PSWs, as well as Evans Creek LSW. The Grand River Conservation Authority also reports that the Grand River and Dunnville marshes are significant stopover areas for migratory birds.</p> <p>The natural features associated with the Dunnville Marsh PSW, Grand River Marsh PSW and Evans Creek LSW were confirmed during site investigations to represent the only candidate wildlife habitat for waterfowl stopover and staging within 120 m of the Project Location.</p> <p>Source of Information: Natural Heritage Assessment.</p>
	<p>How much forest will be removed?</p>	<p>Proposed clearing will result in the removal of approximately 1.72 ha of plantation in areas identified as significant woodland.</p> <p>Source of Information: Draft Construction Plan Report.</p>
	<p>How are weeds going to be controlled on the leased property?</p>	<p>Samsung intends to utilize low growing, low maintenance native plants within the solar sites to maintain soil quality and minimize maintenance issues. The leased property for the wind aspect of the project will only include land utilized by project infrastructure (i.e. wind turbines, access roads) and thus weed control will not be applicable to these areas.</p>

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Theme	Comment	Response
	<p>Concern over the geological fault line near South Cayuga Rd and what impact this might have on the wind turbines.</p> <p>Concerned about the anchoring of wind turbines to the bedrock and the wind turbine vibrations being transmitted to home foundations.</p>	<p>Source of Information: Draft Design and Operations Report.</p> <p>The wind turbines will be designed to meet the earthquake loads as per the Ontario Building Code to protect human health and safety.</p> <p>Preliminary geotechnical work was completed across the wind farm, solar farm and transmission line components of the Project to confirm site-specific conditions within the Study Area. This information was used to determine the suitability of the area in general. It was found that the soil and bedrock conditions are conducive for the design and construction of the Project. Additional detailed geotechnical work will be required prior to Project construction.</p> <p>It has been found that ground-borne vibrations from wind turbines are too weak to be detected by, or to affect, humans.</p> <p>Source of Information: Draft Construction Plan Report; Draft Design and Operations Report.</p>
Economic Impacts	<p>How many jobs will be created for the Project? How many in total as part of the Samsung deal?</p>	<p>During construction, the actual number employed and the make-up of those employed would vary over time as the Project goes through the various construction phases. On average, it is expected that up to 178 persons may be directly employed during the construction period specifically for the construction of the wind component of the Project, up to 92 persons may be directly employed during the construction period specifically for the construction of the solar component, and approximately 35 persons may be directly employed during the construction period for the construction of the electrical components. The construction of the Project would also result in indirect and induced employment, the majority of which is anticipated to be filled by local businesses.</p>

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Theme	Comment	Response
		<p>Operation of the facility is expected to continue for a minimum of approximately 20 years. During operations, it is expected that approximately five operation and maintenance staff from Samsung and the Operation and Maintenance Contractor would be employed during operation of the solar component. Samsung may hire a specialized Operation and Maintenance Contractor for specific maintenance tasks.</p> <p>Source of Information: Construction Plan Report and Design and Operations Report.</p>
	<p>What are the benefits to Haldimand County?</p>	<p>There are various economic benefits to the County including the creation of jobs during all phases of the project, monies spent locally during construction on goods and services, contributions to the annual municipal property taxes, and an amenities fee (or similar) paid to the County. In addition, renewable energy projects can be marketed as a tourism feature which can result in additional economic benefits to the County.</p> <p>Source of Information: Design and Operations Report.</p>
	<p>Is the projected tax revenue more or less than what is currently being paid to the County? If there is an increase in taxes, who will pay for the increase, Samsung or the landowner?</p>	<p>The tax rate that Samsung will pay for the solar panels and turbines will be based on the calculated MPAC assessment. Samsung will work with the County on this calculation and taxes will be paid to the County. Participating land owners with turbine(s) or solar panels on their property will not be responsible for any increased tax.</p>
	<p>Projects will negatively impact tourism in Haldimand County.</p>	<p>Haldimand County has expressed interest to the Provincial Government in becoming known as an Energy Hub in Southern Ontario due to the positive economic impacts associated with renewable energy development including the potential for marketing the developments for tourism purposes.</p>
	<p>Will adjacent landowners be compensated?</p>	<p>Lease payments are given to landowners who have project infrastructure located on their property (turbine, access road, solar panels, electrical collection system, transmission line,</p>

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Theme	Comment	Response
		substation, etc.).
	Are factories going to be built by Samsung in Haldimand County?	<p>Samsung and its partners have been in discussions with numerous municipalities regarding the prospect of locating manufacturing facilities. Haldimand County is included. Four locations have been confirmed:</p> <ul style="list-style-type: none"> • Windsor – wind towers. • Toronto – solar inverters. • Tillsonburg – wind blades. • London – solar modules.
	What are the domestic content rules for the project?	For a post-January 2011 commercial operation date, Samsung must meet a 50% domestic content rate for wind and 60% rate for solar.
	Solar and wind is not economically viable in the area.	Haldimand County has been identified as being a viable location for wind and solar development due to the wind and solar resources in the area, especially winds off of the lake shore, and due to the electrical transmission capacity and abundance of available land suitable for this type of development. Haldimand County has also indicated the area is well suited for renewable energy related manufacturing facilities.
	How much is the Ontario Government paying Samsung for the power produced?	Samsung will be paid the same as other FIT proponents, plus have the potential to earn a small premium (~2%) if it is successful in bringing manufacturing jobs into the Province over the next five years. To date, four factories have been announced and are under construction.
Decommissioning	What happens after 20 years? Do the projects stay or is Samsung required to clean up the sites?	<p>After 20 years, Samsung will decide whether to continue operating the Project (depending upon several factors including contracts in place to purchase the power and the maintenance costs of the project) or to decommission the Project which will involve removal and cleanup of the project sites by Samsung. Samsung may also choose to repower the Project with more efficient generators, if available.</p> <p>Source of Information: Decommissioning Plan Report</p>

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Theme	Comment	Response
	Will a fund be established to cover the cost of decommissioning?	As part of Samsung's Option and Lease contract, each land owner will be given a bond for a sufficient amount that covers the removal of infrastructure on their lands, if and only if the owner of the wind farm is insolvent.
Project Developer	Are Samsung and KEPCO from North or South Korea?	South Korea. Samsung C&T is affiliated with the larger Samsung Group. It is Samsung C&T's two business divisions, Trading & Investment Group and Engineering and Construction Group that will be developing, building and operating the Wind and Solar Power Cluster here in Ontario. KEPCO is an electrical utility company based in South Korea and is one of the world's top power utilities. KEPCO is taking the lead on transmission line development.
	Why was a Canadian company not awarded the project?	The Province of Ontario has identified Samsung as a company that can develop, build and operate the renewable energy cluster in Ontario including the development of manufacturing facilities. This will result in the investment of billions of dollars in Ontario and the creation of new jobs. Samsung's renewable energy group is operated out of Mississauga, Ontario.
	Negative perception of a Korean company being a member of the community.	We are sorry to hear that there is a negative perception regarding a Korean company being a member of the community. It is Samsung's goal to integrate into a community as much as possible so they are not seen as a separate entity but as part of the community.
	How financially stable is Samsung to build such a project?	Samsung C&T, KEPCO, and Pattern Energy will be involved in the construction, and operation of the project. Samsung is financially stable enough to develop the Project.
ORC Lands	Government has not been forthright about the land ownership. Frustrated over the use of ORC lands. Why were ORC lands vacated prior to plans being finalized?	ORC decided that some of their managed lands in Haldimand County would be suitable for renewable energy projects. People leasing ORC lands were not expropriated from their land and the lands were vacated as plans materialized for potential use in the Project.
	Will turbines be situated on ORC lands? If so, will	Wind turbines will be located on ORC lands. The decision to

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Theme	Comment	Response
	farmers still be able to farm the remaining parts of the property?	allow farmers to continue farming the remaining parts of the property is not up to Samsung, but the Ministry of Energy and Infrastructure. Samsung is lobbying on the farmers behalf to allow farming to continue on the unused portions of land.
Open House Format	Why was the Open House not structured as an open forum meeting?	The format of the open house provided stakeholders the opportunity to view project information (display boards) at their own pace, review existing literature, and ask project representatives specific questions on a one to one basis. We believe this approach leads to the most effective way of communication between stakeholders and project representatives.
	No definitive answers were provided. Everything appears to have been decided without public input.	At the time of the first Open House, the Project was at the preliminary stages of the REA process and all available information was provided to stakeholders. One of the key purposes of the first Open House was to gather stakeholder feedback which could be utilized in the design of the Project. At the time of the first Open House, no site plan design details had been confirmed or finalized. Additional, more detailed information has been provided during the second Open House.
	No hand-outs were provided at the first Open House to support the statements made.	Copies of various reports were made available for public viewing at the Open House including reports from the Ontario Chief Medical Officer of Health (health study), Ernest Orlando Lawrence Berkeley National Laboratory (property value study), Canning Consultants Inc. (property value study), AWEA (health study), and CanWEA (various fact sheets). In addition, all statements made on the display boards included the source of the information so that stakeholders could review the original reports.
	Open house should be in a more central location.	The Open House was held in Haldimand County with easy access for any stakeholders within the area. In addition, a venue was required that had sufficient capacity to hold the hundreds of stakeholders that attended the Open House

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Theme	Comment	Response
		throughout the day. The Cayuga Kinsmen Community Centre was the largest venue in close proximity to the Project area.
	Display boards should be placed on the website.	All display boards and information made available during the first Open House were made available on the Project website and stakeholders were able to contact project representatives if they had any questions or concerns. As with the first Open House, the display boards and information from the second Open House will be placed on the Project website.
	Pleased with the number of representatives so that questions could be answered.	Thank you for the comment. We believe having a large number of project representatives on hand lead to the most effective way of communication between stakeholders and project representatives.
Other Comments	Would like to lease my property for solar panels or wind turbines.	Thank you for the comment. Samsung has acquired the lands necessary for the Project.
	How do we find out about future project information?	<p>Samsung will continue contact with Project stakeholders (public, aboriginal communities, and the County) during the construction and operation of the Project for as long as this seems an effective two-way channel of communication including providing Project updates on the Project website (www.SamsungRenewableEnergy.ca). As a long-term presence in the County, Samsung will continue to develop contacts and to develop local relationships and channels of communication, which could benefit the local area.</p> <p>Source of Information: Design and Operations Report</p>
	Support the project and believes it is good for the local economy and will attract tourism to the area. The coal plant needs to be removed due to health concerns.	Thank you for your comments. Samsung in looking forward to becoming a member of the community and assisting Ontario in its goal to eliminate the use of coal fired generation facilities in the Province.
	How many homes will the project power?	It is estimated that the Project will power approximately 50,000

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Theme	Comment	Response
		homes.
	What are the effects on my electricity bill?	Electricity rates in Ontario are set by the Ontario Energy Board. Samsung does not have the ability to change rates that are charged to consumers.
	When will the project be constructed?	Mobilization of construction crews is proposed to begin in March 2012.
	What is the Six Nations role in the project?	Aboriginal engagement is an integral component of renewable energy development in the Province and Samsung has engaged in discussions with the Six Nations of the Grand River regarding the Project.
	There are no environmental problems with the Nanticoke Coal Plant and should not be shut down.	The Ontario Government, approximately six years ago, established a policy to shut down coal fired generation stations.
	Will solar panels change the outside ambient temperature?	Given that solar panels absorb approximately 90% of incoming light, it is not envisioned that the outside ambient temperature would change around the solar panels.
	What are the impacts from turbines on TV reception and will landowners be compensated if there are TV impacts?	<p>Wind turbines have the potential to interfere with TV signals as a result of a turbine being in the “line-of-sight” between a receiver and the signal source. HDTV receivers have built-in ghost-cancelling circuits not found in regular receivers. Thus, HDTV greatly reduces or even eliminates interference created by wind turbines.</p> <p>In the unlikely event that signal disruption is experienced, mitigation measures are available to alleviate the impact. This may include Samsung replacing the receiving antenna with one that has a better discrimination to the unwanted signals, relocating either the transmitter or receiver, or switching to an alternate means of receiving the information (satellite or other means). Samsung will review potential incidents of telecommunications interference on a case by case basis.</p> <p>Source of Information: Design and Operations Report</p>

**Grand Renewable Energy Park
September 22, 2011 Public Meeting Comment Summary Table**

The following table summarizes the comments provided during and after (via the questionnaire and email) the September 22, 2011 Public Meeting. For further information regarding consultation undertaken on the Project, please refer to the Consultation Report. The Consultation Report documents how Samsung consulted with the public, Aboriginal communities, federal and provincial agencies, the local municipalities and other stakeholders. In addition, the Consultation Report documents what changes were made and incorporated into the Project planning and design as a result of the consultation activities.

Theme	Comment	Response
Project Overview, Site Plan, and Setbacks	Is a map available of the optioned properties for the project?	<p>Optioned properties associated with all Project components are provided with the site plans as part of the REA documents.</p> <p>Source of Information: Attachments A, Site Plans and B, Land Parcels –Project Description Report.</p>
	What factors are considered for determining the layout?	<p>Numerous factors are considered when determining a project layout including regulatory requirements (i.e. setbacks and noise modeling), natural features, socio-economic features, archaeological and heritage features, and land options (i.e. land that has been leased to Samsung for project development). One of the most significant factors is the minimum 550 m setback from turbines to non-participating receptors.</p> <p>Source of Information: Ontario Regulation 359/09.</p>
	Is the layout final or will further changes be made?	<p>The Site Plan shown in Appendix A of the Project Description Report is the final site plan for the Project. Samsung currently has no plan for expansion or alteration of the Project components. However, the Project Team cannot comment on other projects in the future by other developers.</p> <p>Source of Information: Project Description Report, Appendix A: Site Plan.</p>

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Theme	Comment	Response
Project Overview, Site Plan, and Setbacks	What is the turbine setback from Lake Erie? What is the turbine setback from cottages along Lake Erie?	<p>All turbines are a minimum of 550 m from Lake Erie (due to the presence of non-participating receptors along the lakeshore).</p> <p>Source of Information: Attachments A, Site Plans –Project Description Report.</p>
	What are the turbine setbacks to private airstrips? What will happen to the skydiving operation at the Dunnville Airport?	<p>There is no regulated setback to private airstrips in Ontario. The only known airport within the Project Location is the Dunnville Airport. The airport is going to be deregistered as a public airport and will no longer operate (including the skydiving operation). Transport Canada has confirmed this approach and will remove the airport from the Transport Canada database (Canadian Flight Information).</p> <p>Source of Information: Design and Operations Report.</p>
	What are the turbine setbacks to agricultural outbuildings, barns, etc.?	<p>Turbine setbacks apply to “noise receptors” as defined in Ontario Regulation 359/09. As defined, this does not include agricultural outbuildings, barns, etc. All noise receptors have been identified within the Noise Impact Assessment which demonstrates that the Project will be compliant with MOE noise guidelines.</p> <p>Source of Information: Design and Operations Report and Ontario Regulation 359/09.</p>
	What are the setbacks to gas wells and the potential impacts?	<p>The Ministry of Natural Resources (MNR) has instituted a 75 m setback from existing oil and gas for siting turbines, unless an Engineers Report is prepared demonstrating that there are no effects to the development. Samsung is aware of the numerous gas wells in Haldimand County and have taken their locations into</p>

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Theme	Comment	Response
Project Overview, Site Plan, and Setbacks		<p>consideration in the design of the Project.</p> <p>An Engineers Report will be prepared prior to construction of the Project. If a potential effect to the petroleum resources operations is identified, construction methods may be altered (staying within the Project Location) to minimize or eliminate any potential effects.</p> <p>Source of Information: Construction Plan Report</p>
	Can landowners be “paid off” to reduce setbacks?	To be considered as a “participant” in the Project and thus not have the 550 m setback apply, the landowner must be financially involved in the project (i.e. leased land) and have project infrastructure located on their property. Just receiving lease payments does not constitute the property/receptor as being a participant and thus landowners cannot be “paid off”.
	The 550 m Setback distance is not enough for wind turbines. No wind turbines or solar panels should be within 2 km of my property (Halifax uses 1 km). Previous setbacks that were thought to be enough are now considered too close. On what basis was the 550 m setback distance determined?	<p>The Ontario Government has instituted a minimum setback of 550 m for wind turbines from non-participating receptors, as part of the REA Regulation. In the case of Ontario, the setback distance was referenced from German setback guidelines. Most European countries suggested a similar setback distance as Ontario.</p> <p>Samsung will be meeting the setback requirements from non-participating receptors.</p> <p>Source of Information: Project Description Report</p>
	Why not build the project elsewhere?	Samsung has identified the current area as being the location of the proposed project due to various factors including a good wind resource, available land base, and existing electrical transmission

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Theme	Comment	Response
Project Overview, Site Plan, and Setbacks		capacity.
	Are the solar panels fixed and how high are they?	<p>Each solar PV panel is mounted on structural aluminum or galvanized steel racks in rows. The individual solar PV panels measure approximately 2 m x 1 m. Each is mounted on a rack that is positioned approximately 2 m above finished grade at an angle of 28 - 35 degrees.</p> <p>Source of Information: Construction Plan Report.</p>
	Why not use rooftops instead of agricultural land for the solar farm?	Roof-top solar panels are being used throughout the Province on a small scale basis; however this approach is not suitable for the amount of power that is required to be produced by Samsung as part of the Renewable Energy Cluster.
	Will the turbines restrict activities on the adjacent non-participating property?	The turbines will not restrict activities on adjacent non-participating properties. In addition, vacant lots are also taken into consideration in the design of the Project site plan according to MOE Noise Guidelines.
	How far away will the closest turbine be to my home?	<p>The Site Plan in Appendix A of the Project Description Report shows the location of Project components in the Study Area. These maps also include a scale which can be used to measure the distance separation between turbines and surrounding homes.</p> <p>Source of Information: Project Description Report, Appendix A: Site Plan.</p>
	How stable are the wind turbines? What is the depth of said wind mills?	Modern wind turbines must meet strict engineering standards and can withstand tornado force winds (F2). The depth of each

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		foundation is dependent upon site specific locations.
	Will the solar facility be fenced?	For safety reasons the solar facility will be fenced.
	What's the height of berm?	The height of the berm will be dependent on the elevation of the site at various locations and the amount of fill material available. It is anticipated that the berm will be approximately 6 m wide.
Transmission Line and Collector Lines	Where will the transmission lines be located? How far will the transmission line be away from my house?	The transmission lines will be located on Haldimand Road 20. The Site Plan shows the preliminary transmission line design in the Appendix of the Project Description Report. These maps have a scale which can be used to determine the approximate distance from the transmission line to a nearby house.
	Will the transmission line be overhead or underground?	From the substation, a 20 km long overhead 230 kV transmission line will be constructed. At a location just east of Nelles Corners (intersection of Haldimand Rd 20 and Highway 3), the overhead transmission line will make a transition to underground cable. The underground cable is required as the overhead transmission line would violate safety clearances over the built infrastructure of Nelles Corners. Source of Information: Construction Plan Report.
	Will the collector lines be overhead or underground?	The collector lines will be buried underground on private property from the turbines to the municipal road rights-of-way at which time the lines may be switched to overhead lines or remain underground. The overhead lines will be constructed on single wooden pole structures, similar to existing distribution lines located throughout the area.

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Theme	Comment	Response
Transmission Line and Collector Lines		Source of Information: Construction Plan Report.
	What is the height of transmission line poles?	The monopole structures will measure 28 m in height. Source of Information: Construction Plan Report
	The proposed transmission lines are close to houses. Has Samsung considered the underground method? If it wasn't considered, what was the reason not to consider underground method? Is it more costly to build underground lines?	In most cases, it is more costly to build underground lines. A mix of overhead and underground line will be used and an assessment of the design options for the transmission line was undertaken by Samsung.
	Was there any study conducted with respect to sound emitted by Transmission line?	The Noise Assessment Report was prepared in accordance with MOE noise guidelines. The Noise Assessment Report demonstrates that the Project will operate within the noise limits established by the MOE. Noise emitted from transmission lines is not included in the assessment as per MOE noise guidelines.
	Will there be any impact on the foundation of house due to transmission line construction?	The transmission line is located completely within municipal road right-of-way. There will be no impact on the foundations of adjacent homes.
Health and Safety and Noise	How often do turbine blades fall off?	The potential exists for full or partial blade detachment from the turbine, resulting in damage to the landing area from the impact, however such events are found to be very rare. Root causes of blade failure have been continuously addressed through developments in best practice in design, testing, manufacture and operation; much of these developments have been captured in the International Electrotechnical Commission (IEC) standards to which all current large wind turbines.

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Theme	Comment	Response
Health and Safety and Noise		<p>Given that accidents or malfunctions of the turbines are considered to be infrequent events, and turbines would be located at least the minimum regulated setback distance from any residence, the event of a failure of the structure would likely not fall beyond the setback distance and not affect public health and safety.</p> <p>Source of Information: Design and Operations Report.</p>
	Concerned about stray energy from the wind turbines.	<p>Stray voltage results from an overflow of current traveling through the ground, and is manifested as an elevated voltage being developed between the neutral and ground wires. If a human touches two pieces of equipment that are at different voltage levels, a small electric current passes through the person and could have an adverse effect on their health if the voltage were strong enough. Stray voltage is not unique to wind farms and Hydro One is attempting to address stray voltage where it is a result of poor or faulty farm wiring, improper grounding of older Hydro One distribution lines (hydro lines connected to a farm/house), and other on and off farm sources. Stray voltage can be easily prevented through proper wiring practices, such as appropriate insulation, and can be easily measured and eliminated by qualified professionals should it occur.</p> <p>Source of Information: Attachment F –Design and Operations Report</p>
	I am a physician and can provide updates on recent preliminary evidence that turbines cause health problems. Studies that show there are health effects	The study team welcomes information from stakeholders and asks that any additional information which stakeholders believe should be taken into consideration be provided to the study team. In

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Theme	Comment	Response
Health and Safety and Noise	were not shown.	<p>addition, the review of potential health effects completed for the Project included a review of multiple studies including those which claim health effects as a result of wind turbines.</p> <p>Source of Information: Attachment F –Design and Operations Report</p>
	<p>If health concerns are proven after the project is operational, will affected persons be compensated? Will Samsung remove the turbines?</p>	<p>In the event that during the course of operations, new peer-reviewed scientific information establishes a causal link between health effects and wind farms, Samsung will examine any reasonable measures that could be put in place to mitigate such unforeseen health effects and if deemed applicable appropriate actions will be taken.</p>
	<p>If someone gets sick, ends up filing a lawsuit and wins, who will end up paying the damages – the operator, the landowner, or some other party?</p>	<p>In principle, the project company who earns revenue from the Project (in this case Samsung) would be liable for paying any damages. If there is no fault on the part of operator and, for example, the equipment is the cause of health problem, the Project Company will still be liable; however the Project company may be eligible for further claim against the equipment manufacturer in separate legal proceedings.</p>
	<p>Concerned about shadow flicker and electrical interference (EMF) causing seizures to residents with epilepsy.</p>	<p>A detailed health review was completed including an assessment of shadow flicker health effects.</p> <p>The report states that,</p> <p><i>Flicker from turbines that interrupt or reflect sunlight at frequencies greater than 3 Hz pose a potential risk of inducing photosensitive seizures at an incidence of 1.7 per 100,000 of the photosensitive population. The normal practice for large wind</i></p>

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Theme	Comment	Response
Health and Safety and Noise		<p><i>farms is for frequencies below this threshold.</i></p> <p>With regards to EMF, the consensus among agencies and the literature reviewed is that:</p> <ul style="list-style-type: none"> • available evidence is not strong enough to conclude that EMF causes cancer in children or occupationally exposed adults; • there is insufficient evidence linking EMF to any other human health effects; and, • more studies are needed to draw firm conclusions. <p>Source of Information: Attachment F –Design and Operations Report</p>
	Concerned about visual intrusion and distraction resulting from shadow flicker (strobe lighting).	<p>Based on stakeholder requests, a Shadow Flicker Assessment was conducted for this Project. The results of the assessment indicated that the maximum amount of shadow flicker that will occur at a receptor is 23.5 hours/per year. At most receptors that may experience shadow flicker, estimated levels are generally between 10 – 20 hours/per year.</p> <p>Source of Information: Appendix I in the Consultation Report.</p>
	How noisy are the turbines? Can I hear them?	<p>Depending on the location of a residence, stakeholders may or may not be able to hear the turbines. However, a Noise Assessment Report was prepared for the Project according to MOE guidelines (<i>Interpretation for Applying MOE NPC Technical Publications to Wind Power Generation Facilities, October 2008</i>). The report will be subject to a technical review by noise experts at the MOE prior to the REA approval. If the report does not meet the MOE requirements, REA approval will not be granted. It</p>

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Theme	Comment	Response
		<p>should be noted that Ontario uses some of the most conservative sound modeling in the world.</p> <p>Source of Information: Attachment B, Noise Assessment Report – Design and Operations Report</p>
	<p>Concerned about noise from the interconnect station.</p>	<p>A Noise Assessment Report has been prepared for the Project in accordance with MOE noise guidelines. The Noise Assessment Report demonstrates that the Project will operate within the noise limits established by the MOE.</p> <p>Source of Information: Design and Operations Report</p>
<p>Property Values</p>	<p>What are the impacts on property values from both wind and solar development? Concerned that my property value will decrease. 30% of people are annoyed by turbines, that means less people will be interested in purchasing homes.</p>	<p>Based upon the data reviewed to date in other areas with established wind plants (e.g., Canada, USA, Europe, and Australia), no evidence of a material negative effect on property value as a result of the presence of wind plants was provided. Ontario data suggests that wind plants have a neutral effect on property values; which is consistent with international trends and experiences.</p> <p>The solar farm will be designed to minimize any potential visual effects on nearby landowners and thus any potential impact to property values. With regards to a property being within visual distance of the solar farm and the potential effects to property values, there is no available evidence to-date (via systematic reviews of property value impacts) which links the location of a solar farm with impacts on property values.</p> <p>Source: Design and Operations Report</p>
	<p>Will Samsung compensate landowners for a loss in</p>	<p>Samsung will examine any reasonable measures to address</p>

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Theme	Comment	Response
	property value (if experienced)? Will Samsung buy our property if it does not sell?	potential effects to property values; however Samsung does not believe that property values will decrease and therefore will not be compensating landowners if property values decrease (if it even occurs). Samsung will also not be purchasing properties.
	US data is not relevant for property value studies. The property value studies do not include vacation properties such as those in Haldimand County.	Data that has been reviewed to date has been based on areas with established wind plants including Canada, USA, Europe, and Australia. Ontario data suggests that wind plants have a neutral effect on property values; which is consistent with international trends and experiences.
Agricultural Impacts	What are the effects on agriculture?	<p>The agricultural land used for the turbines, solar panels, access roads and collector lines are primarily Class 3 agricultural lands and potential effects are related to the change in use from agricultural to renewable energy development. However, where lands are being used for Project infrastructure, landowners are being financially compensated for the lease of the private lands and thus offset the effect of removing the land from agricultural production.</p> <p>Normal farming practices are permitted adjacent to project infrastructure, however sensitive project components will be signed and/or fenced for safety reasons (e.g. solar panels). The underground electrical collection system will be at a depth that will not affect ploughing, tilling or planting. The Project is being designed to minimize effects on farm activities.</p> <p>Information Source: Design and Operations Report</p>
	Class 3 farm lands should not be used for solar development.	The Ontario Power Authority has indicated that 500 MW of solar energy in Ontario can be built on prime agricultural land, of which

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Theme	Comment	Response
Agricultural Impacts		Samsung has been granted approval to construct 100 MW. As such, the proposed solar farm will be built on Class 3 agricultural land.
	What are the soil conditions at the site?	The soil conditions vary throughout the Project, but generally consist of Class 3 agricultural land. Source of Information: Design and Operations Report
	Why is industry permitted on agricultural lands?	The Provincial Policy Statement (PPS) encourages renewable energy development provided that it meets provincial and federal requirements. Where renewable energy projects are proposed in agricultural sectors (another area of Provincial interest) the PPS indicates that impacts on agricultural operations be minimized, however it does not infer that renewable energy development not be permitted on agricultural lands.
	Effect from stormwater runoff from the solar panels causing erosion and/or flooding.	Because the solar cells are mounted above the ground, infiltration, filtration through vegetation and other natural hydrologic process will continue similar to existing conditions. Drainage will generally be directed to existing receiving systems (drainage paths, roadside ditches, etc.) as under current conditions. Therefore, a general area-wide stormwater treatment and/or detention systems are not required. The small increase in runoff from the gravel access roads will be attenuated and filtered through local ditches and no formal basins or other management techniques are required. Source of Information: Design and Operations Report.
	What are the effects on soil quality once the solar panels are removed?	In order to prevent soil erosion, provide dust control and maintain an annual grassland type appearance under the solar panels during operation, Samsung may plant a vegetated understory of native

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		<p>grassland species that will mimic natural grassland vegetation. This type of vegetation should require only minimal maintenance and irrigation and would assist in preventing the invasion of non-native grassland species.</p> <p>The operator of the Project will develop a Rehabilitation Plan for areas disturbed by the Project that is designed to restore habitat in areas affected by Project-related equipment. This plan will be developed in consultation with the appropriate agencies prior to the decommissioning of the Project.</p> <p>Source of Information: Design and Operations Report; Decommissioning Plan Report.</p>
	What are the impacts to livestock?	<p>Normal farming practices are permitted adjacent to project infrastructure including livestock grazing. Studies have found that wildlife using the agricultural areas in proximity to infrastructure are tolerant of a certain level of disturbance from current agricultural, rural, and domestic activities and are not negatively affected by renewable energy development.</p>
Visual Impacts	Solar farm should be treed to mitigate visual impacts. Would the ground level of the solar farm be lower than other surrounding areas to avoid visual effects?	<p>Samsung is proposing to minimize the visual effects of the solar farm around its perimeter through the use of a 6 m wide berm.</p> <p>No, the solar farm would be on the same ground level as the surrounding area. However, a 6 m wide berm will be located surrounding the solar farm in order to minimize the visual effect.</p> <p>Source of Information: Design and Operations Report.</p>
	Would there be any glare from the solar panels?	<p>Through the anti-reflection coating (AR coating) attached to the</p>

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Theme	Comment	Response
		solar panels, the glare can be minimized.
	How are weeds going to be controlled on the leased property?	<p>Samsung intends to utilize low growing, low maintenance native plants within the solar sites to maintain soil quality and minimize maintenance issues. The leased property for the wind aspect of the project will only include land utilized by project infrastructure (i.e. wind turbines, access roads) and thus weed control will not be applicable to these areas.</p> <p>Source of Information: Design and Operations Report.</p>
	Concerned about weed growth on lands prior to construction, especially on ORC lands.	Samsung will engage local farmers to maintain the aesthetics of the optioned properties prior to construction of the Project.
Natural Environment	Who determines what is “significant” for the significant features which have associated setbacks?	<p>The Ministry of Natural Resources (MNR) identifies natural features within the Province which are “significant”. In addition, Stantec conducted an evaluation to determine if any additional features are “significant” using evaluation criteria or procedures established and accepted by the MNR. Additional information regarding the evaluation of “significance” is available in the Natural Heritage Assessment.</p> <p>Source of Information: Natural Heritage Assessment.</p>
Natural Environment	Are bird and butterfly migratory paths looked at?	<p>A significant amount of work was completed to document baseline environmental conditions including migratory paths. In summary:</p> <p><u>Shorebird Migratory Stopover Areas</u></p> <p>The Lake Erie shoreline that is found within the Study Area is an exposed energetic environment and shoreline habitat is composed of rocky shoreline. It does not contain mudflats or open areas of</p>

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Theme	Comment	Response
Natural Environment		<p>soft substrate that would be suitable for foraging. The shoreline type found within the Study Area does not have the potential to support significant concentrations of shorebirds during migration and candidate significant wildlife habitat for shorebird stopover areas is considered absent from in or within 120 m of the Project Location.</p> <p><u>Landbird Migratory Stopover Areas</u></p> <p>Based on the evaluation of significance, six features are found within 120 m of the Wind Project Location that met the criteria for significant wildlife habitat for migratory landbird stopover areas. These include Features 42b, 66, 68, 69, 81, and 87b. An EIS was completed for these features.</p> <p><u>Migratory Butterfly Stopover Areas</u></p> <p>No features within 120 m of the Wind Project Location were considered significant wildlife habitat in the form of migratory butterfly stopover areas.</p> <p>Source of Information: Natural Heritage Assessment</p>
	How many birds are going to be killed?	<p>Most North American wind projects have reported fewer than 4 bird fatalities (all species combined) per nameplate MW per year, and most authorities agree that this level of mortality is not concerning at the population level. The number of birds killed by wind turbines is substantially lower than that from other human sources of mortality, such as collisions with windows, buildings, and communication towers; cats; farming and pesticides; and vehicles.</p> <p>Source of Information: Natural Heritage Assessment.</p>

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Theme	Comment	Response
Natural Environment	Concerned about ground vibrations and the effect on bird migration and nesting habits and habitations. Also concerned about ground vibration effects on plants, fish and forestry.	<p>As stated in the Natural Heritage Assessment/Environmental Impact Study:</p> <p><i>A study of low frequency noise and vibration at a modern wind farm determined that vibration is 1/5th to 1/100th of the limit of human perception within 25 m of the turbine base (Legerton et al., 1996). While amphibians may be more perceptive of vibration, vibration magnitude drops off significantly as distance increases (K. Smith, Aercoustics, pers. comm. in Stantec, 2011). No turbines are located within 60 m of significant amphibian breeding habitat (base). Nine of the eleven turbines within 120 m of significant amphibian habitat are located more than 100 m from turbine centre to the features assumed to support significant woodland amphibian populations. These are considered sufficient setbacks to mitigate any noise and vibration effects to amphibians (p. 6.7).</i></p> <p>Source of Information: NHA/EIS</p>
	Concerned about air and wind turbulence caused by turbines and the effect on birds, local deer and small animal habitat.	<p>To date there is no direct evidence of significant impacts to wildlife as a result of wind turbine noise or vibration.</p> <p>Regarding deer and turkey, there has been no scientifically documented effect of disturbance from wind turbines on these species. Anecdotally these species have been recorded using lands within the vicinity of currently operating wind projects.</p> <p>Disturbance effects to mammals, eagles, geese, turkeys and swans have not been observed at currently operating wind facilities to</p>

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Theme	Comment	Response
Natural Environment		date.
	What are the impacts to Bald Eagles?	<p>Three Bald Eagles were observed over the course of winter raptor surveys. One of which was observed in proximity to a nest, however it is located outside of the Study Area, more than 2 km east of the nearest Project component (a turbine location). The other Bald Eagles were observed flying over the Study Area and were not found to be using any particular habitat feature.</p> <p>Source of Information: Natural Heritage Assessment</p>
	What are the potential impacts to bats?	<p>Bat mortality rates at wind facilities are highly variable among regions. Some species of migratory bats are particularly vulnerable, and mortality peaks during the late summer and early fall migration. The MNR, who is the agency responsible for protecting bats, has produced detailed and prescriptive guidelines for post-construction monitoring of bat mortality, and mandatory mitigation requirements for facilities with high bat mortality. If there are significant effects as a result of project operation, the MNR has a process to address the effects including post-construction monitoring and contingency planning.</p> <p>No candidate significant wildlife habitat in the form of bat maternity roosts was noted within the Project Location or the Zone of Investigation.</p> <p>Source of Information: Design and Operations Report.</p>
What work has been done regarding migratory paths of Tundra Swans?	A review of the MNR’s wetland data records indicates the presence of waterfowl stopover and staging areas at Dry Lake, Dunnville Marshes and Wardell’s Creek Mouth PSWs, as well as	

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		<p>Evans Creek LSW. The Grand River Conservation Authority also reports that the Grand River and Dunnville marshes are significant stopover areas for migratory birds.</p> <p>The natural features associated with the Dunnville Marsh PSW, Grand River Marsh PSW and Evans Creek LSW were confirmed during site investigations to represent the only candidate wildlife habitat for waterfowl stopover and staging within 120 m of the Project Location.</p> <p>Source of Information: Natural Heritage Assessment.</p>
	How much forest will be removed?	<p>Proposed clearing will result in the removal of approximately 1.72 ha of plantation in areas identified as significant woodland.</p> <p>Source of Information: Construction Plan Report.</p>
Economic Impacts	How many jobs will be created for the Project? How many in total as part of the Samsung deal?	<p>On average, it is expected that up to 178 persons may be directly employed during the construction period specifically for the construction of the wind component of the Project, up to 92 persons may be directly employed during the construction period specifically for the construction of the solar component, and approximately 35 persons may be directly employed during the construction period for the construction of the electrical components.</p> <p>During operations, it is expected that approximately twelve operation and maintenance staff would be employed. Samsung may hire a specialized Operation and Maintenance Contractor for specific maintenance tasks.</p> <p>Source of Information: Construction Plan Report and Design and</p>

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Theme	Comment	Response
Economic Impacts	<p>What are the benefits to Haldimand County? Will the money that the County receives be given to the public to offset some of the value lost on homes?</p>	<p>Operations Report.</p> <p>There are various economic benefits to the County including the creation of jobs during all phases of the project, monies spent locally during construction on goods and services, contributions to the annual municipal property taxes, and a Community Vibrancy Fund paid to the County. In addition, renewable energy projects can be marketed as a tourism feature which can result in additional economic benefits to the County.</p> <p>It is anticipated that Haldimand Council will use the annual payments for the construction of recreational facilities, land stewardship, enhancements to police, fire and ambulance, and improvements to roads and other community infrastructure.</p> <p>Source of Information: Design and Operations Report.</p>
	<p>Is the projected tax revenue more or less than what is currently being paid to the County? If there is an increase in taxes, who will pay for the increase, Samsung or the landowner?</p>	<p>The tax rate that Samsung will pay for the solar panels and turbines will be based on the calculated MPAC assessment. Samsung will work with the County on this calculation and taxes will be paid to the County. Participating land owners with turbine(s) or solar panels on their property will not be responsible for any increased tax.</p>
	<p>Projects will negatively impact tourism in Haldimand County.</p>	<p>Haldimand County has expressed interest to the Provincial Government in becoming known as an Energy Hub in Southern Ontario due to the positive economic impacts associated with renewable energy development including the potential for marketing the developments for tourism purposes.</p>

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Theme	Comment	Response
Economic Impacts	Will adjacent landowners be compensated?	Lease payments are given to landowners who have project infrastructure located on their property (turbine, access road, solar panels, electrical collection system, transmission line, substation, etc.).
	Are factories going to be built by Samsung in Haldimand County?	<p>Samsung and its partners have been in discussions with numerous municipalities regarding the prospect of locating manufacturing facilities. Haldimand County is included. Four locations have been confirmed:</p> <ul style="list-style-type: none"> • Windsor – wind towers. • Toronto – solar inverters. • Tillsonburg – wind blades. • London – solar modules.
	How much is the Ontario Government paying Samsung for the power produced?	<p>Samsung has entered into a framework agreement with the Province of Ontario. The agreement provides for the investment of billions of dollars into Ontario by Samsung, the creation of new jobs and manufacturing facilities, and development of the Renewable Energy Cluster for sale of renewable energy to the Province.</p> <p>Samsung is considered a FIT like proponent and therefore will be paid the FIT amount per MW of power produced.</p>
Decommissioning	What happens after 20 years? Do the projects stay or is Samsung required to clean up the sites?	After 20 years, Samsung will decide whether to continue operating the Project (depending upon several factors including contracts in place to purchase the power and the maintenance costs of the project) or to decommission the Project which will involve removal and cleanup of the project sites by Samsung. Samsung may also choose to repower the Project with more efficient generators, if

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Theme	Comment	Response
		<p>available.</p> <p>Source of Information: Decommissioning Plan Report</p>
	<p>Will a fund be established to cover the cost of decommissioning?</p>	<p>As part of Samsung’s Option and Lease contract, each land owner will be given a bond for a sufficient amount that covers the removal of infrastructure on their lands, if and only if the owner of the wind farm is insolvent.</p>
	<p>Will concrete be removed during decommissioning?</p>	<p>Decommissioning would entail the removal of Project components including concrete block and restoring the land to an acceptable condition for its intended use.</p>
Other	<p>Why are “gag” orders a part of contracts to lease land? What is Samsung trying to hide?</p>	<p>The reason why confidentiality provisions are included in lease agreements is simply due to the general practice in all business contracts. This is not because Samsung is hiding something, but because all information included in the business-related contract deserves privacy. Including such privacy provisions is a widely-accepted business practice.</p>
	<p>There was no one at the meeting to address concerns about mines. Concerned about the impact of ground vibrations on the underground mines throughout the area.</p>	<p>Preliminary geotechnical work was completed across the wind farm, solar farm and transmission line components of the Project to confirm site-specific conditions within the Study Area. It was found that the soil and bedrock conditions are conducive for the design and construction of the Project. Additional detailed geotechnical work will be required prior to Project construction. The geotechnical investigations conducted to date have not identified any mines in proximity to turbines.</p> <p>Source of Information: Construction Plan Report; Design and</p>

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Theme	Comment	Response
Other		Operations Report.
	Concern over the geological fault line near South Cayuga Rd and what impact this might have on the wind turbines.	The wind turbines will be designed to meet the earthquake loads as per the Ontario Building Code to protect human health and safety.
	Concerned about the anchoring of wind turbines to the bedrock and the wind turbine vibrations being transmitted to home foundations.	<p>Preliminary geotechnical work was completed across the wind farm, solar farm and transmission line components of the Project to confirm site-specific conditions within the Study Area. This information was used to determine the suitability of the area in general. It was found that the soil and bedrock conditions are conducive for the design and construction of the Project. Additional detailed geotechnical work will be required prior to Project construction.</p> <p>It has been found that ground-borne vibrations from wind turbines are too weak to be detected by, or to affect, humans.</p> <p>Source of Information: Construction Plan Report; Design and Operations Report.</p>
	How will large trucks navigate the roads (e.g. Lakeshore Road), and what is the potential damage to the environment?	<p>A Traffic Management Plan will be developed in conjunction with Haldimand County, which will include investigations of various routing options and the associated impacts and/or upgrades required.</p> <p>Source of Information: Construction Plan Report</p>
	Has construction started and when is it planned to start?	Project construction is planned for the fourth quarter of 2012 to March 2014.

**Grand Renewable Energy Park
September 22, 2011 Public Meeting Comment Summary Table**

Theme	Comment	Response
Other		Source of Information: Open House #2 Display Boards
	When will construction be completed?	Construction is planned to be finished in March of 2014. Source of Information: Open House #2 Display Boards
	It was stated that an Emergency Response and Communications Plan will be developed prior to operation. Will this Plan be made public knowledge when it is complete?	This plan will be developed in consultation with Haldimand County. It is likely that the plan will be made available on the Project website or by the County once it has been finalized. Source of Information: Construction Plan Report
	How is Samsung Renewable Energy going to proceed with winter construction?	Samsung is trying to avoid winter construction. Therefore, the construction may decrease from January to April.
	There are no environmental problems coal plants and they should not be shut down. Please provide a list of fossil fuel plants that have been closed – anywhere in the world – as a result of wind energy.	The Ontario Government, approximately six years ago, established a policy to shut down coal fired generation stations within the Province.
	What are the impacts from turbines on TV reception and will landowners be compensated if there are TV impacts? Who will be responsible for the erratic voltages and electrical problems in my home and business?	Wind turbines have the potential to interfere with TV signals. In the unlikely event that signal disruption is experienced, mitigation measures are available to alleviate the impact. This may include Samsung replacing the receiving antenna with one that has a better discrimination to the unwanted signals, relocating either the transmitter or receiver, or switching to an alternate means of receiving the information (satellite or other means). Samsung will review potential incidents of telecommunications interference and/or electrical related concerns on a case by case basis.

**Grand Renewable Energy Park
September 22, 2011 Public Meeting Comment Summary Table**

Theme	Comment	Response
		Source of Information: Design and Operations Report
	Has Samsung received the REA approval from MOE?	No, Samsung has not received the REA approval from MOE.
	Has Samsung Renewable Energy decided the EPC consultant?	Samsung Renewable Energy is currently preparing the bidding process for the civil, electrical and mechanical engineering consultant.
	Is it possible that an empty lot could be of use (during construction for example) for a financial consideration?	All lands required for the construction of the Project including lands used for temporary uses have been identified in the site plan (Construction Plan Report). No additional lands are currently being considered for temporary uses.
	Will solar panels change the outside ambient temperature?	Given that solar panels absorb approximately 90% of incoming light, it is not envisioned that the outside ambient temperature would change around the solar panels.
Consultation	Why was the meeting not structured as an open forum meeting? There was no panel or microphone to ask questions.	The format of the meeting provided stakeholders the opportunity to view project information (display boards) at their own pace, review existing literature, and ask project representatives specific questions on a one to one basis. We believe this approach leads to the most effective way of communication between stakeholders and project representatives.
	No one from the Ontario Government was present to answer any questions, no one from the MOE.	Several government agencies, including the MOE were notified of the public meeting. Their attendance along with all stakeholders is completely voluntary.
	Pleased with the number of representatives so that	Thank you for the comment. We believe having a large number of

**Grand Renewable Energy Park
September 22, 2011 Public Meeting Comment Summary Table**

Theme	Comment	Response
	questions could be answered.	project representatives on hand lead to the most effective way of communication between stakeholders and project representatives.
	The First Public Notice identified “Highway 20” instead of Haldimand Road 20, and thus we thought the Project was not in the area. Since the notice is incorrect the meeting was not valid.	The Notice for the first Public Open House clearly identified Haldimand Road 20. There was not mention of “Highway 20” anywhere in the Notice. In addition, the Study Area was also clearly mapped in the Notice and no Project documents have ever referenced Highway 20.
	Will a notification be sent out to the mailing list when the MOE posts the submission on the EBR? Will notification be given for all other MOE posts regarding the Project?	Yes, Samsung will continue to send out notices and letters updating the people on the contact list about the Project, including when it is available for comment on the EBR.
	Who do members of the public complain to during operation regarding noise, flicker, health problems, loss of hunting, property devaluation, etc.?	As stated in the Design and Operations Report, Samsung will initiate a Complaint Response Protocol which will be used to address concerns from members of the public (contact information will be provided at a later date). Stakeholders may also contact their local MOE district office if they have complaints regarding the Project.

Stantec

**GRAND RENEWABLE ENERGY PARK
CONSULTATION REPORT**

Appendix E

Project Newsletters



GRAND RENEWABLE ENERGY PARK NEWSLETTER



Newsletter Overview

- Message from Samsung
- Holiday Wish
- Project Update
- Layout

Dear Neighbours,

Samsung Renewable Energy Inc. and Pattern Energy are excited to be publishing our first project newsletter for our Grand Renewable Energy Park Project. We are excited about the progress of the Grand Renewable Energy Park and are looking forward to spending more time in your community.

Over the past couple of months we have been very busy ensuring we meet our manufacturing commitments with the Ontario Government. To that end, we are very pleased to mention that on December 1 and 2, 2010, CS Wind Corp. and Siemens announced the opening of a turbine tower plant and turbine blade plant in both Windsor and Tillsonburg, respectively.

We wish everyone a safe and happy holiday season, filled with laughter and fond memories.

Sincerely,

Adam Rosso



Source: 1330.photobucket.com

Project Update

A lot has happened on the Grand Renewable Energy Park (GREP) since our Open House on July 8, 2010. The field work for the Natural Heritage studies are complete and we are currently in the process of completing our Stage 2 Archaeological Assessment. We have completed most of our pre-engineering work for our preliminary turbine layout and as well as our noise assessment. At the time of writing this newsletter, our consultant (Stantec Consulting Ltd.) is diligently working on the required reports for our Renewable Energy Approval (REA) submission. The reports will be provided to the public in draft form for a 60 day review prior to our next open house. We anticipate these report will be available for review in the first quarter of 2011.

A Public Open House Comment Summary Table

has also been uploaded to the project website. The summary table lists the questions and concerns raised by stakeholders at and following the July 2010 Open House and provides a response on behalf of the study team to each concern.

Layout

Samsung and Pattern are pleased to release our preliminary wind turbine layout to the public. A map has been uploaded to our website which indicates proposed turbine locations, participating lands and adjacent projects.

We will continue to keep you updated as we move through the REA process.

You can also check our project website at

www.samsungrenewableenergy.ca



Appendix F

Public Correspondence Summary Table

Grand Renewable Energy Park - REA Related Stakeholder Comment Summary Table					
Date	Contact Type	Name	Comment	Study Team Response	Date of Response
June 9/10	Phone	Judith Brown	Will turbines beach along the beach/off-shore? If a person is not signed-up (lease agreement) will they have project infrastructure on their property?	Turbine/solar siting has not been completed however turbines will not be on the beach/offshore. If a person does not have a lease agreement, they will not have infrastructure on their property.	June 10/10
June 9/10	Phone	Alexander George	Will my land be expropriated as it is within the siting area?	No, lands will not be expropriated for this Project. The project location identifies the area which will be studied as part of the REA process.	June 10/10
June 10/10	Phone	Lorraine Bergstram	Will my property be expropriated/used for the project as it is within the project location?	No, lands will not be expropriated for this Project. The project location identifies the area which will be studied as part of the REA process. More detailed information including site layouts will be available at the Second Public Open House.	June 10/10
June 10/10	Phone	Regina	Will turbines be on the lakeshore/offshore? Will a layout be available at the Open House?	Turbines will not be located directly on the lakeshore or off-shore. A turbine layout will be available at the Second Public Open House.	June 10/10
June 11/10	Phone	Jon Doherty	How close can a turbine be to a residential home?	A minimum of 550 m from a non-participating receptor.	June 11/10
June 11/10	Phone	Christine	How close is the boundary to the Grand River? Will it be solar or wind closer to the east boundary of the Project?	Boundary is the Grand River and it is used to show the area to be studied as part of the REA process. Turbine and solar layout is not yet available.	June 11/10
June 11/10	Phone	Wendy & Bill Steel	Where will the T-Line be sited? Will expropriate take place to install the T-Line?	T-Line routes are currently being assessed. The T-Line will be within the T-Line Siting Area and will connect to the existing Hydro One line which runs southeast of Hwy 6. Expropriation for the T-Line is not a preferred option and will be avoided to the extent possible.	June 11/10
June 14/10	Phone	Arjen Vos	125 acres on Johnson sideroad. Request information specifically regarding that area.	Project siting is still being completed and it is currently unknown what project infrastructure will be located near Johnson Road. Also passed contact information along to Samsung as the landowner may potentially be interested in leasing land for the Project.	June 15/10
June 14/10	Phone	Jessica	Request specific project mapping for the solar and wind siting area.	Left message. The map within the notice is the most up to date Project location map. A more detailed version of the map is available on the website within the Draft Project Description Report.	June 15/10
June 17/10	Phone	Barry Fraser	Please add me to the mailing list	N/A - Has been added to the project mailing list	N/A
June 18/10	Phone	Violyn McArthy	Are wind turbines going to be located offshore? Also concerned about turbine noise.	Left message. Turbines will not be located offshore for this project and all turbines must be sited a minimum of 550 m from non-participating receptors.	June 21/10

June 21/10	Phone	Frank Probo	Are wind turbines going to be located offshore? How close will turbines be to my property?	Turbines will not be located directly on the lakeshore or off-shore. All turbines must be located a minimum of 550 m from non-participating receptors.	June 21/10
July 6/10	Phone	Bonnie Moyer	Did not receive a notice. Where will the turbines be located	Confirmed that her property was included in the mail out. Turbines and solar panels will be located throughout the solar and wind siting area.	July 7/10
July 15/10	Phone	Cathy and Perry Barnhart	Have a signed option with Samsung and wanted to clarify constraints on their property. There is a small creek and PSW on the property and neighbour has an agreement as well. Will a turbine be suitable for the property?	Stantec is conducting natural heritage assessments to identify constraints. PSW's have regulated setbacks which must be adhered to. Once field studies and other assessments are completed, turbine locations will be determined.	July 15/10
July 15/10	Phone	Vic Tosello	Interested in leasing land close to the Grand River. What information was shown at the Open House? Are turbine locations confirmed? What are the health effects?	Passed land information on to Samsung for consideration. Provided the link to the website and reviewed the display boards over the phone. Turbine locations are not confirmed. Reviewed the Open House board related to health effects and the studies that are being reviewed by Stantec.	July 20/10
July 16/10	Phone	Reed Construction	What stage is the project at?	Left message. Currently conducting the REA for the Project with construction planned for April 2011.	July 20/10
July 29/10	Phone	Janet Devos	Property located between County Road 50 and the Girl Guide Camp has been left by the previous owner and is not being maintained (large weeds are growing).	Will follow-up with Samsung to confirm if the property has been leased by Samsung from the ORC. If it is a Samsung leased property, Samsung will try to gain property access as soon as possible so that maintenance can occur.	August 3/10
Oct 1/10	Email	Cindy Shoeman	Does Samsung have any studies related to impacts of turbines on children with special needs?	Samsung contacted CanWEA to see if they are aware of any scientific studies, and at this time they are not. However, they have also contacted their counterparts in both the United States and Europe. Samsung will forward any information it receives on this topic	Oct 1/10

Jan 5/11	Email/Meeting	Nikki Slote	<p>What type of panels are being proposed? What will be the impact to wildlife from the solar farm? What impact will the solar farm have on recreational use of the land? When will it be built and is it final? What is the life span? How long is construction? Will workers be present 24 hours/day? What type of security will be used? What are the fire hazards? What voltage will the power lines be? What type of noise will there be? Where will the transformer site be located? Will there be an office? What access will my animals have to the site? What type of permitter will be installed? Can you provide visual simulations of the solar farm?</p>	<p>Panels are 1 x 1.6 m and are black/blue in colour and are non-reflective. Studies will be conducted as part of the REA to assess wildlife impacts and will be provided to the public for review. For safety reasons the solar farm will be fenced in and therefore use of the land for recreational activities will no longer be able to occur. The solar farm is planned to be operational by Q1 2013 and the Project is not yet approved. Project will have a lifespan of at least 20 years. Construction will take 6-12 months and will occur during normal business hours (not 24 hours/day). The facility will be fenced in and will have security 24/7. There will be typical fire hazards associated with an electrical facility. Voltage of the power lines will be 34.5 kV and will be buried. The 230kV transmission line will also exit the substation which will be within the solar farm. Sound produced by the Project will be within MOE standards including noise produced by the substation. An operations and maintenance building will be constructed on the south side of Haldimand Road 20 which will include an office. Fencing of the solar farm will prevent access of the area by your animals for safety reasons. A berm is being considered around the solar farm. Visual simulations may be conducted for the REA and Samsung would like to arrange a field trip to an existing solar farm for local residents.</p>	Jan 11/11
Jan 11/11	Email	Nikki Slote	What is the role of Elexco Ltd?	Elexco Ltd. is acting on behalf of Samsung with the execution of lease agreements for the Project.	

Jan 17/11	Email	David Hyslop	Three turbines are proposed near my property, what are the UTM coordinates so that they can be verified? Over the winter it was determined that the proposed industrial turbines for Lee and Barnhart will in fact create morning shadow flicker in the spring and fall on our residence. This is not acceptable to us unless your computer model indicates otherwise. There are several options available such as relocating these turbines 120 meters south toward the lake, withdrawing Barnharts etc. Relocating our new home on the farm property would not make economic sense.	Turbine #9: 600283 4745004 Turbine #32: 600555 4745188 Samsung requested a copy of the shadow flicker study which identified impacts in the spring and fall.	Jan 25/11
Jan 24/11	Phone	Peter McDonald	What type of power (AC or DC) is transmitted from the towers. Are any structures located along the lakeshore	Collector lines will be buried within private lands and will operate at a voltage of 34.5 kV. Electrical transmission components may be located along the lakeshore.	Jan 24/11
Jan 24/11	Phone	Terresa Clark	why are turbines grouped together in some places and not in others? Questions about the Ian Hanna legal case. Concerned over bird and bat impacts and potential increases in bugs if birds and bats are killed.	Various factors determine the locations of turbines including leasing opportunities, receptor locations, natural features, etc. The Ian Hanna case may have an impact on the industry as a whole depending on the outcome. Bird and bat studies are being conducted to assess potential impacts.	Jan 24/11
Jan 31/11	Email	Tracy & John Puharich	When is the project proceeding and we require some sort of compensation.	Samsung proposed a meeting to further discuss the project.	Feb 2/11
Feb 28/11	Phone	Janet Devos	Questions about the turbine location map and the meaning of various features such as receptors, etc.	Receptors are defined in O. Reg. 359/09 and generally consist of overnight dwellings. Vacant Lot Surogate Receptors are receptors that have been inserted for noise analysis purposes so as to protect the vacant lot for future development.	March 2/11
March 1/11	Meeting	Lions Club of Dunnville	Samsung provided a presentation to Lions Club members outlining the Project and its current status.		
April 8/11	email	Tanya Clark	we, under no circumstances will co-operate with your 'proposed' right of way. We will be also visiting our neighbours to recommending rejection of your proposal.	Samsung wants to re-iterate that the offer to meet is still available. We'd very much like to sit down and provide as much information about our project to your family as possible.	April 11/11
April 11/11	Email	Norm Negus	Why is the high voltage line running to Hagersville where will it hook up	An information package will be arriving later this week with additional materials. The best way to get information is for myself or someone from our office to come down and talk to you individually.	April 11/11

April 11/11	Email	Quinn Felker	Impact will range from barely significant to very severe based on what you want to build. We will be happy to work with you in order to minimize difficulties. At this time, a meeting will not be required, as we do not yet have enough information about the project. Please note that this email pertains only to the construction of the transmission line rather than the Grand Renewable Energy project as a whole, for which we may have separate concerns.	Thank you very much for the email. Look forward to a meeting at your convenience.	April 11/11
July 22/11	Phone	Kathy Lint	How high are the turbines? When was the last open house?	Turbines are 100 m high plus 49 m blades. Last open house was July 8, 2010.	July 22/11
July 25/11	Phone	Tom Davis	What are the dates of the meetings in Selkirk, Dunnville and Cayuga?	The meeting is being held only in Cayuga on Sept 22.	July 28/11
July 25/11	Phone	Candice Venderlube			
July 25/11	Phone	Dave Redborn	There is no value to the local area except for people with turbines on their property. What is the extent of the project? Land values are decreasing along the lakeshore. Nanticoke coal produces much more electricity than the wind turbines will.	The Noise Reports have detailed information regarding the extent of wind projects within the area. Comment noted regarding the decreasing property values.	July 28/11
July 27/11	Phone	Mary Ann Reichert	Where can I find more detailed mapping of the project?	Detailed mapping is available in the Draft REA reports which are on display at four public viewing locations or online on the project website.	July 28/11
July 27/11	Phone	David Hyslop	Which property owner along the lakeshore was dropped from the turbine layout?	Stantec cannot disclose property owner information, however detailed mapping within the Draft REA reports clearly indicate the properties which have proposed turbines.	July 28/11

Undated	Petition	Multiple Stakeholders	Objects the Project. Objects to the notification process which was haphazard and not directed to specific property owners. Concerns about noise, vibration and low frequency sound. The 550 m setback is lower than European standards and not appropriate for our high density area .	In accordance with Ontario Regulation 359/09, Stantec obtained the addresses of landowners within at least 550 m of the proposed Project Location from the Haldimand County Tax Assessment Roll. In addition to the list of landowners obtained from the County, Stantec has expanded the contact list to include the information provided to Samsung and/or Stantec through the various consultation activities that have occurred to-date. We have provided all contacts on the list with a copy of all Notices for the Project. In addition, to ensure a high level of public notification, Samsung has advertised all Notices within three local newspapers. Your expressed concerns about noise, vibration and low frequency sound were previously documented by Samsung and Stantec at the first Public Meeting held on July 8, 2010. Given these concerns, the potential health effects related to the Project including noise, vibration and low frequency sound were assessed and documented within the Draft REA Reports. all turbines are proposed more than 550 m from the closest receptor/home in accordance with Ontario Regulation 359/09. Noise modelling has demonstrated that the Project will operate within the acceptable limits established by the Ministry of the Environment at all noise receptors.	Aug 16/11
August 4/11	Email	Renata Lumsden	Would like consideration to reduce the number of turbines near our cottages. Specifically, north of Lakeshore, between 49 and town line road - there are currently 6 turbines on the plan and I ask that the number be reduced to a max. 4. Please reduce by two closest to the lake The 6 planned is extremely dense compared to other locations in Dunnville.	it is not Samsung's intention to reduce the size of the Project. Originally, the Project was designed with sixty nine (69) turbines, however as Samsung moved through the Renewable Energy Approval (REA) process, specifically completing natural heritage assessments and in discussions with the Ministry of Natural Resources two (2) turbines were removed. Therefore, the Project now consists of sixty seven (67) turbines. The six (6) turbines that you are referring to have been reviewed by the Ministry of Natural Resources and are compliant with the Ministry of the Environment's Noise Guidelines.	Aug 8/11

August 8/11	Phone	David Hyslop	Concerned about potential shadow flicker from Turbine 9. Anticipates that shadow flicker will occur for approx. 6 weeks per spring and fall. Appeared that the REA Reports did not mention impacts to raptors including migration. In addition, Snapping Turtles appear to have been not-discussed within the report.	Samsung will consider conducting a Shadow Flicker Analysis for the Project. If completed, a copy of the report would be filed as part of the REA Application. Raptors were discussed within the NHA/EIS including migration, breeding, and over-wintering. Mitigation measures and contingency plans are also detailed in the NHA/EIS. Effects and mitigation measures to Snapping Turtles and other amphibians and snakes are also detailed throughout the NHA/EIS. Wardell's Creek PSW is specifically assessed as part of Natural Feature 66 within the NHA/EIS.	Aug 11/11 and Aug 15/11
Aug 10/11	Email	Janet McCallum Bard	My most pertinent concern is related to the wind turbine #9 . This is the turbine that is found bordering on a sensitive wetland, a forest, creek and streams. All of these natural habitats are at great risk from that turbine and it should not be allowed to be built in that area. We have received a subsidy on our land tax for the past few years through the Conservation Land Tax Incentive Program to protect this wetland environment and now I am letting you know you are being reported by us as a group who is purposely disregarding the protection of this wetland and the creatures who call it home.	A Natural Heritage Assessment (NHA) and Environmental Impact Study (EIS) for the Grand Renewable Energy Project has been completed and made available on the Project website and in specified public viewing locations for public review. Specifically, potential effects and mitigation measures to the natural features in which you have described (part of the Wardell's Creek Mouth Provincially Significant Wetland) are thoroughly detailed within the NHA/EIS (Section 6.1.31 and Figure 10.10). In addition, Stantec and Ministry of Natural Resources (MNR) staff have met on-site at the proposed location of Turbine #9 to confirm the boundaries of natural features and to review the proposed construction techniques for the installation of the turbine (detailed within the NHA/EIS).	Aug 16/11
Aug 11/11	Phone	Frank Provo	Questions about the location of the turbines, proximity to houses and project schedule	General setbacks between turbines and other features was discussed. In addition the noise assessment and project schedule was also discussed.	Aug 11/11
Aug 17/11	Email	Janet McCallum Bard	I would also like more information to explain exactly -- What are the boundary of natural features identified for this site? (Turbine # 9). have grave concerns over the fact that this turbine will be less than 550 meters away from the people who use the Century Park trailers. Also the residents of the Blue Heron Trailer Park will be surrounded by 2 turbines.	The following is the direct link to these documents including the NHA/EIS (http://www.samsungrenewableenergy.ca/low/pages/projects_hal_dimand.php). As described in my previous email, all of the information in which you have requested regarding Turbine 9 is available within the NHA/EIS, specifically within Section 6.1.31 of the main report and Figure 10.10 of Appendix A. Additional information such as the potential impacts to migrating birds, bats and butterflies are also thoroughly detailed within the NHA/EIS and other Draft REA Reports.	Aug 17/11

Aug 30/11	Phone	Mary Anne Reichert	Trouble finding the location of turbines along Hwy 3. All the maps should be provided to the landowners near the Project so they can have a better idea of the locations. Is it possible to get a copy of the reports from the library after the public meeting to review them?	I provided the direction on the Project website to where she could locate the Site Plan map in the Appendix A of the Project Description Report. I mentioned that providing all the maps to all the landowners near the Project is not feasible due to the large number of people. I said I would check about the hardcopy and get back to her.	1-Sep-11
September 1/11	Phone	Mary Anne Reichert	Regarding possibility of getting a copy of the reports sent to her when they are finished at the library. Also concerned that it is difficult to find the information (maps) that people are looking for through all the reports.	I phoned to followup regarding a hardcopy of the reports. Informed her that the reports can be printed from online. That the libraries hold onto them for public review and that I can send her a copy of the viewing locations. She responded that she doesn't want a copy of the viewing locations and insisted that she wants a copy of the reports from the library when they are finished the public review. She will contact the library to see if this is possible. For difficulty in finding information, I told her she can contact the Project Team at any time to ask specific questions and to get help finding information, and someone will get back to her. A copy of the reports on CD-ROM have been sent to her address on Aug. 29, 2011.	
Aug 29, 2011 and Aug 31, 2011	Email	Janet Bard McCallum	Regarding concerns of consultation to the owners of homes, cottages and trailers in the region of the Grand Renewable Energy Park near the turbines #9, # 51 and more along these shores from Selkirk to Dunnville. Concerned with impacts to wildlife, including birds, bats, and species at risk. Also concerned regarding property values and restoration activities.	Identified that setbacks of turbines are in accordance with O. Reg. 359/09. Confirmed that there are no bat maternity roosts within 120 m of the Project Location. Potential impacts to bird species have been considered and significant migratory bird stopover areas have been avoided. Impacts on bird species will be monitored. Species at risk concerns are not part of the NHA and will be dealt with directly with the MNR. More information on natural heritage and restoration found in the NHA report and Decommissioning Report (links provided to website). Wind plants have been determined to have a neutral effect on property values. The Notice of Public Meeting was printed in local newspapers and mailed to all assessed landowners. The notice identified where the Project Reports could be located.	2-Sep-11

2-Sep-11	Email	Betty Ortt	Asked whether the September 22nd public meeting is the last public meeting for the Project. Identified that the link to the Bird Report on the Project website is not working. Identified concerns regarding property values and potential health effects.	Confirmed the date and location of the second public meeting for the Project. Acknowledged that the link on the website is being corrected and that the reports are also available at 4 viewing locations. Samsung acknowledges concerns related to potential property value impacts, however, supports the conclusion that based on studies to date, there is little evidence in support of a negative effect on property values around wind energy projects. Referred to where Attachment F of the Design and Operations report can be located with information on potential health effects. Also referred to the section in the REA project reports where the potential health effects and their mitigation measures are addressed, with Project website provided.	6-Sep-11
5-Sep-11	Email	Janet Bard	Concerned regarding Turbines #9 and #51 near Lakeshore Road. Concerned that the trailer parks are within the setback distances from the turbines.	The project team would like to confirm that all proposed turbines are located at least 550 m from all non-participating receptors. The trailers located on the proposed Turbine #9 property are on "optioned lands" and therefore the setbacks do not apply under O. Reg. 359/09. Noise Assessment Report shows that all other trailers are located over 550 m from the proposed turbines.	7-Sep-11
5-Sep-11	Email	Janet Bard McCallum	You have made some grave errors in your assessment. Concerned about dwellings near proposed Turbines #9, #32, and #51. Concerned about shadow flicker and noise for cottage owners. Concerned about missed dwellings and property values.	Phone messages were left on September 9th and 12th.	8-Sep-11
8-Sep-11	Email	Bill Watters	Concerned that the Project falls within Aboriginal land and potential conflicts may result.	Identified that the Project Team is engaging the Aboriginal communities potentially affected by the Project in accordance with the Regulation, and that any concerns will be addressed with specific communities.	9-Sep-11
11-Sep-11	Email	Betty Ortt	Is the meeting on the 22nd the final public meeting for the Project?	It is envisioned that the meeting on September 22nd will be the final public meeting for this Project.	12-Sep-11

<p>8-Sep-11 14-Sep-11</p>	<p>Email</p>	<p>Janet Bard</p>	<p>Emailed on September 8th regarding errors on Stantec report. Concerned about shadow flicker, views of the turbines, noise and the property at 26 Brookers Road. Email on September 14th identified that JB cannot get a phone at work to have the requested conversation. JB is gathering a team to have a meeting regarding concerns. Concerned about the evaluation of shadow flicker around turbines #9 and #51. Concerned that health studies have been gag ordered by Samsung in areas where homes are purchased by Samsung because turbines are built too close. Concerned that studies published about the negative effects of wind farms are not being considered. Another email from September 14th, identifies concerns that noise levels are not measurable, that Ontario inspectors do not have the technology to measure wind turbine sound, and that Turbine #9 will be located too close to 26 Brooker Road.</p>	<p>Although not required under O. Reg. 359, Samsung has agreed to conduct a shadow flicker assessment due to the public concern noted to date. The results of the assessment will be submitted to MOE with the application for approval. Since the results are a computer-generated model, no field work is completed for a shadow flicker assessment. 26 Brookers Road has been mentioned in the Heritage Assessment Report in Table 4-10, and is considered to be of some heritage value. Only properties considered to have heritage value are included in the report. MK confirms that the 550 m setback from all non-participating receptors is being adhered to. Participating receptor and non-participating receptor is defined. The Noise Assessment Report provides more detail. The information JB provided regarding noise measurements relates to measuring turbine noise once operational. MOE is currently developing guidelines for measuring sound from operational turbines. Please contact MNR for the names of the biologists involved in the assessments. Setbacks from natural features are in accordance with the Regulation, and as previously mentioned, the wetland delineation at Turbine #9 was done with MNR staff on site. A detailed health assessment is provided in Attachment F of the D&O report. MK would like to assure you that no studies have been gag ordered by Samsung, and Samsung has not purchased any homes that are too close to turbines. The Project Team is available to discuss any concerns at the Public Meeting on September 22nd.</p>	<p>16-Sep-11</p>
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15-Sep-11	Email	Janet Bard McCallum	Concerned about the Monarchs and Hawks starting to migrate along the north shore of Lake Erie. JBM watched the monarchs fly by (one every 3 minutes) last weekend. Identifies the need to protect the milkweed plant along the coastline.	Thank you for your email. Detailed information including usage of the area during migration by Monarchs and Hawks along with potential effects as a result of the Project is available in the Natural Heritage Assessment and Environmental Impact Study (NHA/EIS) Report. Please note that Stantec and HATCH have conducted a significant amount of field work along the Lake Erie shoreline for multiple projects and has conducted extensive records reviews to become familiar with the usage of the area. As previously stated, potential impacts, mitigation, net effects and post-construction monitoring recommendations for all natural features have been provided in the NHS/EIS. As stated in the report, with the implementation of the identified mitigation measures, the Project can be constructed and operated within acceptable levels of environmental effects.	16-Sep-11
18-Sep-11	Email	Janet Bard McCallum	Expressed concerns that the Flicker assessment has not yet been completed for the Project. Greatest concern over the strobe light effect and potential for epileptic reactions. Worried because husband and son have serious epileptic reactions to strobe lights and will be unable to handle the flicker near the cottage. Included article titled "Nuisance: Residents say Shadows from blades create a 'Strobe Light' Effect".	Samsung is currently conducting the Shadow Flicker Assessment. The Assessment will be included within the final REA submission to MOE for review and approval. Please also read Attachment F from the Draft Design and Operations Report for information on health risks associated with shadow flicker.	20-Sep-11

18-Sep-11	Multiple Emails	David Hyslop	Expressed concerns regarding shadow flicker, species at risk and potential negative environmental effects around Turbine #9, safety concerns due to high pressure natural gas wells, the highly sensitive creek and wetlands around Turbine #9, proximity to trailer park lessees, and the Aboriginal village or settlement around Wardell's Creek.	<p>A Shadow Flicker Assessment is being conducted due to your concerns. The results of the assessment will be provided to MOE for review and approval. Turbine 31 was not removed from the Project layout due to the sensitivity of the area. It was removed based on the additional studies that would cause potential delays to the Project schedule. All species at risk are being dealt with directly through correspondence with the MNR. In the event that a permit is required it will be obtained from MNR prior to construction.</p> <p>Regarding safety concerns, modern turbines must meet strict international standards. An Engineer's study is currently being conducted in areas where petroleum wells come within 75 m of the Project to demonstrate that there are no effects to the petroleum resources operations as a result of the Project. A Stage 1 and 2 Archaeological Assessment, Heritage Assessment and Protected Properties Assessment has been conducted and accepted by the MTC. Samsung has engaged several Aboriginal communities including Six Nations of the Grand that was involved in the Stage 2 Archaeological Assessment. MK would also like to confirm that all proposed turbines are located at least 550 m from non-participating receptors, in accordance with the O.Reg. 359/09. The trailers near turbine #9 are located on optioned land, and thus not subject to the 550 m setback.</p>	20-Sep-11
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18-Sep-11	Email	Linda J. Rogers	Please see attached letter to managers of the NextEra and Capital Power projects earlier in this year. Could you please address the core concerns of public safety, the natural environment, health concerns and property values. LJR currently in discussions with MNR about potential safety concerns with regards to turbines near multiple gas wells. Main safety issue is the potential for contamination of drinking water and explosions. MNR is still working on a reply.	The Project Team would like to assure you that modern turbines must meet strict international engineering standards. An Engineer's Study is currently being conducted for petroleum resources within 75 m of the Project. The purpose of the study is to demonstrate that there are no effects to the petroleum resources as a result of the Project. More information about potential effects and mitigation measures can be found in the Draft Project Reports located on the website. Samsung aims to minimize potential accidents and malfunctions with proper maintenance techniques and education of operating staff. County emergency services staff will also be appropriately trained. The NHA/EIS provides potential effects and mitigation measures for the natural environment features. We can confirm that there are no maternity roosts within 120 m of the Project Location. The Noise Assessment Report indicates Project compliance with the Guidelines and contains further information on the noise assessment. In regards to property values, studies have found that wind farms have a neutral effect on property values.	20-Sep-11
18-Sep-11	Email	Janet Bard McCallum	Due to the fact that my family will be seriously affected by shadow flicker on our property, we would like to be personally notified of the results of the assessment. Who is the contact for the results?	MK will notify JBM when the Shadow Flicker Assessment is complete and will provide JBM with a copy of the report.	20-Sep-11
18-Sep-11	Email	Laura Avila	Great concerns over the placement of the wind turbines in the area. Concerned about detrimental effects on humans and wildlife. Why have gag orders been put in place for landowners that have sold their property to wind farms. The human lab experiment needs to stop.	A detailed analysis of potential health effects is available on the Project website in Attachment F of the Draft Design and Operations Report. The other Draft Project Reports are available to provide you with more information on potential effects and mitigation measures during each stage of the Project. Potential effects on wildlife in the Study Area has been extensively studied and information is available in the Draft NHA/EIS Report. The Project Team would like to assure you that no landowners have been "gag ordered" by Samsung.	20-Sep-11

18-Sep-11	Email	Janet Bard McCallum	Project proposed near major hawk and other bird migration areas. European conservationists find that habitat loss has a greater adverse effect than direct mortality. Cumulative effects are not understood as there are many knowledge gaps with regards to population numbers and migration routes. Provided this years migration data.	Please read the draft NHA/EIS report for more detail on studies conducted to date. MK would like to assure you that natural environment studies take into consideration current conditions in the environment as well as potential effects in accordance with O. Reg. 359/09. In addition, a number of agencies have been consulted in the process, including MNR, MOE, LPRCA and GRCA.	20-Sep-11
19-Sep-11	Email	John Foreman	Have been seeking answers to the question of what is proposed in the way of wind or solar installations on the north side of Bains Road, between Sutor Road (to the east) and Wilson Road (to the west)? The area bounded on the north by Hwy #20.	As indicated in the circulated Notice of Public Meeting, the Draft REA reports were publicly released on July 23, 2011. In the reports the Draft Site Plan (Appendix A of the Draft Project Description Report) clearly identifies the Project components. The area mentioned can be seen on Figure 4.2 of the Draft Site Plan found on the Project website or at the public viewing location provided on the Notice. Project Team staff will be available to answer questions and concerns in person at the second public meeting on Thursday September 22nd from 5:00pm to 8:00pm.	21-Sep-11
19-Sep-11	Email	Janet Bard McCallum	Opposed to Samsung IWT #9 for the following reasons: shadow flicker with risk of epileptic trigger of seizure, concern for species at risk potentially impacted, destruction of natural environment (nest and eggs of birds protected under the Wildlife Conservation Act, 1997), assessment did not include the Bobolink, Turbine #9 is 65 m from the well head of a high pressure natural gas well (petroleum resource operation) which may create an environmental disaster if incident of blade falling occurs, Turbine #9 is being located next to 2 lagoons, worried about sewage leakage, Wardell's Creek is highly sensitive and a different turbine was cancelled due to the sensitivity, and there appears to be an Aboriginal village or settlement along the east side of Wardell's Creek. Will be contacting Six Nations to make sure they are aware.	A Shadow Flicker Assessment is being conducted and the results of the assessment will be provided to MOE for review and approval. Samsung will consult with the MNR to obtain all necessary permits in regards to species at risk (including the Bobolink) before construction occurs. Regarding safety concerns, modern turbines must meet strict international standards. An Engineer's study is currently being conducted in areas where petroleum wells come within 75 m of the Project to demonstrate that there are no effects to the petroleum resources operations as a result of the Project. Turbine 31 was not removed from the Project layout due to the sensitivity of the area. It was removed based on the additional studies that would cause potential delays to the Project schedule. A Stage 1 and 2 Archaeological Assessment, Heritage Assessment and Protected Properties Assessment has been conducted and accepted by the MTC. Samsung has engaged several Aboriginal communities including Six Nations of the Grand that was involved in the Stage 2 Archaeological Assessment.	21-Sep-11

20-Sep-11	Email	Stuart Wilson	Two concerns: Noise and Property Value. What noise level will I expect to hear on my property as there seems to be 8 turbines within less than 2 km, and 2 seem very close to your minimum setback. What are the distances of the turbines from my property? What noise threshold is being targeted and does it vary day or night?	Please note that your comments will be addressed within the Consultation Report as part of Samsung's final REA application which will be submitted to the MOE for review and approval. Following submission of the application, the REA reports, including the Consultation Report will be made available by the MOE for public review and comment. Samsung intends to submit the REA application in October 2011.	
21-Sep-11	Email	Judy Culp and Bob Bailey	Please consider our objection to the proposed installation of approximately 70 wind turbines just west of the town of Dunville, between Port Maitland and Nelles Corners. Concerned with health, environmental and many other impacts. Concerned about extra traffic, lower property values, visual pollution, possible health issues, and conflicts with profiting neighbours.	Please note that your comments will be addressed within the Consultation Report as part of Samsung's final REA application which will be submitted to the MOE for review and approval. Following submission of the application, the REA reports, including the Consultation Report will be made available by the MOE for public review and comment. Samsung intends to submit the REA application in October 2011.	
21-Sep-11	Email	John Foreman	Followup regarding the response on September 21, 2011. Please confirm that I have drawn the proper conclusions regarding your site plan. May I conclude that there are no further plans on behalf of your organization, to add more wind turbines or solar panels to the area in question?	The Site Plan shown in Appendix A of the Draft Project Description Report is the final site plan for the Project. Samsung currently does not have plans for expansion of the Project. However, we cannot comment on other Projects in the future by other developers.	23-Sep-11
21-Sep-11	Email	Stuart Wilson	Thank you for a response, however, what is the purpose of providing a form for submitting questions and having public meetings if the project team cannot provide answers? In the event my concerns or questions are not addressed in the report you mention what recourse would I or any other party have?	Thank you for your email and thank you for attending the public open house on Sept. 22, 2011. We hope you were able to find answers to your questions during talk with the Project Team. We will be responding to your specific concerns regarding noise and property values in the Consultation Report that will be submitted to the MOE. If you have any questions about recourse, please contact the MOE directly.	23-Sep-11
Please note that further questions and comments from the Public Meeting on September 22, 2011 and after are addressed in the September 22, 2011 Public Meeting Comment Summary					

Appendix G

Agency and Municipal Correspondence

Grand Renewable Energy Park Agency Comment Summary Table

Contact Person	Type of Correspondence	Date	Issue or Concern	Response / Request	Date of Response
Federal Agencies					
Canadian Coast Guard					
Lee Goldberg	Email	June 7, 2010	<ul style="list-style-type: none"> The Canadian Coast Guard has radio communication facilities in the general area. Request coordinates of the turbines to make an accurate assessment. 	<ul style="list-style-type: none"> Stantec provided the requested mapping on January 17, 2011. 	Jan 17, 2011
Lee Goldberg	Email	Jan 17, 2011	<ul style="list-style-type: none"> The Canadian Coast Guard does not have any communications or radar facilities in the immediate area. Therefore, we do not have any concerns. 	<ul style="list-style-type: none"> N/A 	N/A
Canadian Environmental Assessment Agency					
Steve Woolfenden	Letter	Aug 23, 2010	<ul style="list-style-type: none"> Understand the project is subject to the REA process and not the provincial EA process. As such, CEAA will not play a coordination role in the project. The <i>Canadian Environmental Assessment Act</i> may apply to the project. May wish to check with other potential federal authorities about their potential interest in the project. 	<ul style="list-style-type: none"> CEAA will be contacted if it is determined that a federal screening may apply to the project. Additional federal authorities have been and will continue to be consulted with throughout the development of the project. 	N/A
Meteorological Service of Canada					
Lillian Yao	Email	June 7, 2010	<ul style="list-style-type: none"> Preliminary assessment indicates that any interference that may be created by the Project will be minimal. As such, we have no concerns at this time. 	<ul style="list-style-type: none"> N/A 	N/A
Department of National Defence					
Mario Lavoie (Radiocommunication Systems)	Email	Jan 18, 2010	<ul style="list-style-type: none"> Reviewed your proposal in respect to DND radiocommunication systems and I have no objections or concerns 	<ul style="list-style-type: none"> Submitted the project boundary for review. 	Jan 18, 2010
Mark Bartley (Air Traffic Control and Defence Radars)	Email	Jan 19, 2010	<ul style="list-style-type: none"> Our software modeling indicates no conflict with any current radar installations. 	<ul style="list-style-type: none"> Submitted the project boundary for review. 	Jan 18, 2010
Transport Canada					
EA Coordinator	Email	June 10,	<ul style="list-style-type: none"> TC is responsible for the administration of 	<ul style="list-style-type: none"> Aeronautical Obstruction Clearance 	Aug 16,

**Grand Renewable Energy Park
Agency Comment Summary Table**

Contact Person	Type of Correspondence	Date	Issue or Concern	Response / Request	Date of Response	
		2010 and Sept 15, 2011	<p>the <i>Navigable Water Protection Act</i> and the <i>Railway Safety Act</i>.</p> <ul style="list-style-type: none"> If project activities may cross a navigable waterway, you are requested to submit an application to confirm the navigability of the watercourse. Proponent is required to give notice of the project to the railway whose line is to be crossed, the municipality in which the crossing works are to be located and the authority having responsibility for the road in question. Approval under either of the Acts may trigger the requirement for a federal environmental assessment. 	Form was submitted for review and approval.	2011	
EA Coordinator	Email	June 16, 2010	<ul style="list-style-type: none"> TC provided Aeronautical Obstruction Clearance for the Project. TC indicated that the following turbines are to be lighted for aviation safety requirements: 2, 5, 6, 7, 9, 10, 13, 16, 17, 18, 19, 20, 22, 28, 29, 36, 39, 41, 47, 50, 51, 53, 54, 55, 56, 57, 58, 60, 62, 67, 68. 	<ul style="list-style-type: none"> Obstacles such as wind turbines must be assessed for lighting and marking requirements in accordance with Canadian Aviation Regulations 621.19. Please complete an Aeronautical Obstruction Clearance Form 	<ul style="list-style-type: none"> Stantec submitted an Obstruction Clearance Form for approval to Transport Canada. YRH submitted an updated Obstruction Clearance Form along with a lighting proposal to Transport Canada. 	Jan 17, 2011 and Aug 16, 2011
RCMP - GRC						
Alex Beckstead	Email	Aug 31, 2010	<ul style="list-style-type: none"> Have analyzed the project and do not see any potential interference problems resulting from a wind farm in the proposed area. 	<ul style="list-style-type: none"> N/A 	N/A	
Provincial Agencies						
Ministry of the Environment						

Grand Renewable Energy Park Agency Comment Summary Table

Contact Person	Type of Correspondence	Date	Issue or Concern	Response / Request	Date of Response
Doris Dumais	Letter		<ul style="list-style-type: none"> N/A 	<ul style="list-style-type: none"> Stantec provided the Draft Project Description according to Section 14.(1)(b) of O. Reg 359/09 to obtain a list of Aboriginal Communities who may have an interest in the Project. 	June 4, 2010
Doris Dumais	Letter	Sept 23, 2010	<ul style="list-style-type: none"> MOE identified the following aboriginal communities who have or may have constitutionally protected aboriginal or treaty rights that may be adversely impacted by the project: <ul style="list-style-type: none"> Six Nations of the Grand River Six Nations of the Grand River – Haudenosaunee Confederacy Council Mississaugas of the Credit First Nation Oneida Nation of the Thames Wahta Mohawks Mohawks of the Bay of Quinte Mohawks of Akwesasne Grand River Métis Council Métis Nation of Ontario 	<ul style="list-style-type: none"> Stantec provided Draft Project Description – Version 2 which included updated information according to Section 14.(1)(b) of O. Reg 359/09 to obtain a list of Aboriginal Communities who may have an interest in the Project. 	June 24, 2010
Doris Dumais	Email	Dec 22, 2010	<ul style="list-style-type: none"> MOE has received the layout and will advise if there are any issues. 	<ul style="list-style-type: none"> Samsung submitted the Project layout as required to “crystallize” the layout. A newsletter with the layout will be received by landowners on Dec 28, 2010 and the map will be uploaded to the Project website. 	Dec 22, 2010
Lynne Bosquest	Phone	Jan 18, 2011	<ul style="list-style-type: none"> Stantec contacted the MOE to obtain records related to the closed South Cayuga Landfill. MOE indicated the site received a C of A in 1973 and is now closed. Any additional information must be obtained via a Freedom of Information Act request. 		
Doris Dumais	Letter	March 2, 2011	<ul style="list-style-type: none"> All of the aboriginal communities identified in the section 14 list provided to Samsung on September 23, 2010 should receive project notices and be provided with the required project documentation, reports and summaries. However, based on guidance from the Ministry of Energy, the most proximate 1701 Treaty communities should be 	<ul style="list-style-type: none"> Samsung requested clarification on the Aboriginal Consultation requirements as part of the REA process. 	Feb 25, 2011

Grand Renewable Energy Park Agency Comment Summary Table

Contact Person	Type of Correspondence	Date	Issue or Concern	Response / Request	Date of Response
			proactively engaged through follow-up meetings, etc. For the more distant 1701 Treaty communities, Samsung was advised that they need only follow-up (via meetings, etc.) if the community responds and/or approaches Samsung.		
Doris Dumais	Letter	June 29, 2011	<ul style="list-style-type: none"> MOE accepted the extension request to March 2012. 	<ul style="list-style-type: none"> Samsung requested an extension of the crystallization period for the proposed layout to March 2012. 	June 23, 2011
Doris Dumais & Geoffrey Knapper	Notice	N/A	<ul style="list-style-type: none"> N/A 	<ul style="list-style-type: none"> Stantec sent a copy of the Notice of Public Meeting 	July 20, 2011
Ministry of Natural Resources					
N/A	Spreadsheet	May 6, 2010	<ul style="list-style-type: none"> MNR provided a list of Species at Risk occurrences within the Study Area. 	<ul style="list-style-type: none"> List to be included in the records review portion of the Natural Heritage Assessment. 	N/A
Heather Riddell	Letter		<ul style="list-style-type: none"> N/A 	<ul style="list-style-type: none"> Stantec requested the following information: <ul style="list-style-type: none"> Location and classification of all permanent and intermittent streams including drainage ditches; The location of any lake other than a Lake Trout lake; The location of any Lake Trout lakes; The location of any seepage areas; Watershed reports which should be considered in the natural heritage assessment; and, Any fisheries related data for waterbodies (including species at risk). 	June 18, 2010
Heather Riddell	Letter and Meeting	Aug 19, 2010	<ul style="list-style-type: none"> MNR provided comments regarding the data request and proposed workplan. MNR is currently updating PSW mapping within Haldimand County. It is likely that wetlands are present that have not been mapped. Woodlot mapping is available include up-to-date deer wintering areas which should 	<ul style="list-style-type: none"> Stantec submitted a data request as part of the records review and a proposed site investigation workplan. Data request included information pertaining to deer yards, Wardell's Creek Mouth wetland, Frandenbug Tract PSW, and an unnamed provincially significant Life Science 	July 23, 2010

**Grand Renewable Energy Park
Agency Comment Summary Table**

Contact Person	Type of Correspondence	Date	Issue or Concern	Response / Request	Date of Response
			<p>be captured in the NHA.</p> <ul style="list-style-type: none"> • The unnamed ANSI is the Sweets Corners Earth Science ANSI. Recommend contacting Ontario Parks for more information on that ANSI. • MNR has no other records on ANSI's not already identified by Stantec. • MNR is arranging a site visit to confirm potential bat hibernacula within the area. • Stantec should also obtain MNDMF mapping of abandoned mines as these sites may be used as hibernacula. • If water crossings are required, contact the MNR to determine if <i>Public Land Act</i> permits may apply. • Development is not permitted within 75 m of a petroleum resources operation; unless an engineers report is prepared. • MNR recommends referring to LIO Data as the primary data source for natural features. • MNR recommends that all SAR species within the Study Area be considered and surveyed for where there is potential habitat. • Both bat hibernacula and maternity roosts should be considered in the records review and site investigations. • Evaluations of significance should be conducted within appropriate timing windows and in accordance with MNR standards. • NHA should identify where the project location falls within 120 m of a provincial park or conservation reserve. 	<p>Area of Natural and Scientific Interest.</p> <ul style="list-style-type: none"> • The site investigation work program included on-site surveys related to birds (spring migration, summer breeding, fall migration, and over-winter residents), bat studies, and other natural features. • The letter noted the previous work conducted throughout 2009 and proposed timing of studies in 2010. 	
Heather Riddell and Ben Hindmarsh	Emails	Aug 17, 2010	<ul style="list-style-type: none"> • MNR provided detailed fisheries data for the portion of the project within the MNR's Aylmer District. 	<ul style="list-style-type: none"> • Stantec provided information related to a blanket permit for fisheries related surveys. Included a proposed 	July 26, 2010

**Grand Renewable Energy Park
Agency Comment Summary Table**

Contact Person	Type of Correspondence	Date	Issue or Concern	Response / Request	Date of Response
				approach for the permit application such as mapping and identification of survey locations.	
Heather Riddell	Letter	Aug 19, 2010	<ul style="list-style-type: none"> • Further to a meeting of July 23, 2010, MNR is providing the following additional information: • MNR is currently updating Provincially Significant Wetland mapping within the area but provided a list of evaluated wetlands within the area (by the Aylmer and Guelph districts) • Woodland information and deer yard information can be found within the LIO database. • Provided information regarding the Sweets Corners Earth Science ANSI. • MNR has identified potential bat hibernacula near Cayuga south of Hwy 3 and a site visit should be conducted to confirm the location. • MNR has updated bird and bat guidelines which should be referred to. • MNR provided updated information related to the MNR's APRD. • The MNR also provided general comments on the proposed work program (July 23) for the project. 	<ul style="list-style-type: none"> • Stantec replied to the MNR letter requesting clarification/confirmation regarding two items: • The identified bat hibernacula is more than 120 m from the project location and according to the regulation, studies are not required. In addition, if Samsung can commit to a 320 m setback from the hibernacula, can MNR confirm no studies would be required? • Requested confirmation of the proposed site investigation as it relates to species at risk, including those with low likelihood of occurrence within the study area. 	Aug 30, 2010
April Nix	Email	Sept 8, 2010	<ul style="list-style-type: none"> • MNR provided an outline/agenda for a potential meeting on Sept 9th including SAR habitat, ESA permits and the proposed work program. 	<ul style="list-style-type: none"> • Meeting was held on Sept 9, 2010 	N/A
MNR and Stantec Staff	Meeting	Sept 9, 2010	<ul style="list-style-type: none"> • MNR agreed to provide specific locations of species at risk with acknowledgement that the information reflects limited field surveys and that SAR could occur elsewhere in the study area. • MNR indicated that the APRD requirements are not needed for NHA confirmation, however, it is MNR's understanding that the complete REA submission to the MOE should contain any necessary Endangered Species Act (ESA) permit applications. These applications require the completion of any necessary seasonal field studies to determine the presence and boundaries of critical habitats etc. It was suggested that MOE should be contacted to confirm. 		

**Grand Renewable Energy Park
Agency Comment Summary Table**

Contact Person	Type of Correspondence	Date	Issue or Concern	Response / Request	Date of Response
			<ul style="list-style-type: none"> MNR indicated that if there are historical records of a SAR and the habitat is still suitable, an ESA permit is required for electrofishing; however if there are historical records of a SAR but no suitable habitat remains, or if habitat is suitable but there is no reasonable expectation of finding a SAR and the purpose is general inventory, then no ESA permit is required for electrofishing. It was generally agreed that the proposed work program (Stantec, July 23) would be sufficient to identify potential habitat of SAR this fall. MNR recommended that the NHA report contain a separate section or appendix that outlines the findings of the site investigation as they relate to SAR (to demonstrate due diligence; ie. level of survey effort, areas of potential habitat, if SAR presence has been confirmed) to allow MNR to determine if and what types of permits are required. 		
April Nix	Email	Sept 10, 2010	<ul style="list-style-type: none"> MNR provided DFO mapping and SAR information for Bald Eagle, Gray Ratsnake, Badger, Fowler's Toad, Blanding's Turtle, and Virginia Mallow. MNR also provided recommendations with regards to SAR on-site investigations. If suitable habitat is found for the Queensnake within 120 m of the project location, investigation should be conducted. 	<ul style="list-style-type: none"> N/A 	N/A
April Nix	Email	Oct 4, 2010	<ul style="list-style-type: none"> MNR provided evaluation records for the ANSI. 	<ul style="list-style-type: none"> Stantec submitted a request for additional information about the Oriskany Sandstone Life Science ANSI. 	Sept 29, 2010
Heather Riddell	Email	Oct 27, 2010	<ul style="list-style-type: none"> MNR provided evaluation records for the PSWs. 	<ul style="list-style-type: none"> Stantec submitted a request for wetland evaluations of 10 wetlands within the Project area. 	Sept 29, 2010
Anne Yagi	Email	December 16, 2010	<ul style="list-style-type: none"> MNR provided evaluation records for the Dunnville and Grand River Marshes, as well as back ground deer information/reports that are the background information used to develop the Guelph district deer layer. 	<ul style="list-style-type: none"> Stantec submitted a request for wetland evaluations of four wetlands within the Project area. Also requested any information that MNR has regarding the findings of MNR field investigations undertaken within the study area (i.e. excel field data records, deer counts, etc.) to complement the LIO mapping layer for deer yards. 	Sept 29, 2010

Grand Renewable Energy Park Agency Comment Summary Table

Contact Person	Type of Correspondence	Date	Issue or Concern	Response / Request	Date of Response
April Nix	Email	January 12, 2011 January 13, 2011	<ul style="list-style-type: none"> MNR responded with guidance based on internal MNR discussions with respect to applying MNR's wetland characteristics and ecological functions assessment MNR responded to clarify that tree farms are woodlands under REA definition and full EOS required if within such features 	<ul style="list-style-type: none"> Stantec requested clarification on the information required as part of the wetland characterization and woodland evaluation for plantations / tree farm 	December 23, 2011
April Nix	Email	February 18, 2011	<ul style="list-style-type: none"> MNR requested additional information pertaining ELC data collected and requested site meeting to review potential wetland sites 	<ul style="list-style-type: none"> Site meeting held with Stantec and MNR staff to review two communities within Feature 66 and Feature 68 Additional site investigations undertaken to collect soils data where ELC communities were questioned. 	March 15, 2011 March 27, 2011
April Nix	Letter	March 1, 2011	<ul style="list-style-type: none"> MNR provided written comments based on their review of the NHA/EIS requesting that additional detail / clarification be provided prior to confirmation. Specifically, further clarification was requested regarding alternative site investigations, SWH evaluation criteria, specific natural features, wetland delineations, proposed mitigation measures and James N. Allan Provincial Park 	<ul style="list-style-type: none"> Stantec submitted the NHA/EIS to the MNR for review. 	February 1, 2011
MNR, Samsung and Stantec Staff	Meeting	March 7, 2011	<ul style="list-style-type: none"> MNR and Stantec discussed timing and process questions with respect to responding to MNR comments MNR clarified individual comments from their March 1, 2011 response and clarified expectations with respect to how the NHA/EIS should be revised MNR confirmed that entire boundary of a natural feature occurs entirely or partially within 120 m of the project location must be mapped, not only the portion within 120 m MNR provided feedback from MOE with respect to acceptable rationale for undertaken alternative site investigations, including denied access, unsafe conditions, or sensitive ecological features. Efforts to obtain access must be demonstrated. MNR agreed to consider Stantec's position that field investigations to each property along the transmission and collector lines was not reasonable nor impacts the EIS. MNR confirmed that 3 seasons of field data is preferred but not necessary (without, need additional rationale to identify features & candidate SWH so we can exclude the need for additional surveys) MNR confirmed need for additional detail regarding winter raptors (feature based rather than broad 		

Grand Renewable Energy Park Agency Comment Summary Table

Contact Person	Type of Correspondence	Date	Issue or Concern	Response / Request	Date of Response
			<p>landscape level surveys are required)</p> <ul style="list-style-type: none"> • MNR requested further clarification regarding the specific functions of each non PSW wetland be included • MNR requested additional clarification of setbacks / buffers from wetlands / woodlands for access roads • MNR requires additional mitigation to maintain hydrology, including adding culvert locations along access roads (ensuring culverts also provide wildlife movement opportunities) • MNR and Stantec discussed specific amendments or additional information pertaining to individual natural features and project components to further mitigate potential impacts • MNR raised concerns over fencing of solar farm and impacts of animal movement (deer) • MNR provided clarification with respect to monitoring in the EIS vs. EEMP 		
Melody Cairns	Email		<ul style="list-style-type: none"> • Confirmation of data collected during records review to ensure all relevant data is made available 	<ul style="list-style-type: none"> • Request for information pertaining to James N. Allan Provincial Park. We provided a summary of records review results and map of proposed project components adjacent to the Park. 	March 11, 2011
Melody Cairns	Email		<ul style="list-style-type: none"> • Permit received to access James N. Allan Provincial Park 	<ul style="list-style-type: none"> • Application To Conduct Research In Ontario Provincial Parks submitted to MNR to undertake surveys within park boundaries. 	March 22, 2011
April Nix	Email	March 25, 2011	<ul style="list-style-type: none"> • MNR provided digital wetland boundaries for the wetland communities associated with Feature 66 as determined during our site meeting March 15, 2011 and air photo interpretation. 	<ul style="list-style-type: none"> • Stantec incorporated the wetland boundaries into the revised NHA/EIS mapping 	
April Nix	Email	March 31, 2011	<ul style="list-style-type: none"> • MNR provided the evaluation criteria and conditions whereby certain wildlife habitat features (amphibian ponds, rare vegetation, bird habitats) can be treated as significant provided an EIS is completed and project components are outside such features, without the need for additional seasonal field investigations. 	<ul style="list-style-type: none"> • Stantec requested further detail and clarification with respect to MNR's comments and to confirm whether habitats can be assumed as significant where project components are not located within such features 	March 15, 2011 (during site meeting)
MNR, Samsung and Stantec Staff	Meeting	April 20, 2011	<ul style="list-style-type: none"> • Stantec reviewed approach to migratory landbird stopover habitat, MNR confirmed it to be acceptable • MNR re-confirmed that the approach to assuming significance and proceeding to an EIS is only acceptable where there are no project components within the significant feature. The result was 		

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			<ul style="list-style-type: none"> dropping one turbine. MNR confirmed that post-construction disturbance monitoring is only required where project components are within a significant feature (i.e. areas sensitive breeding birds), MNR confirmed that active agricultural fields (i.e. hay) are not candidate SWH for grassland species MNR confirmed potential impacts on amphibian breeding are not anticipated where project components are outside amphibian breeding areas MNR acceptable approach to installing wildlife culverts only where the access road passes between two features 		
April Nix	Letter	June 17, 2011	<ul style="list-style-type: none"> MNR provided written comments based on their review of the revised NHA/EIS requesting minor further refinement of winter raptor concentration areas, additional clarification regarding Feature 42 (SWH) and minor amendments to the EIS / EEMP regarding monitoring 	<ul style="list-style-type: none"> Stantec submitted a revised NHA/EIS to MNR for review, comment and confirmation, along with a detailed table responding to each individual comment and directing MNR staff to specific sections of the NHA/EIS to confirm response. 	May 19, 2011
John Boos	Email	June 23, 2011	<ul style="list-style-type: none"> Confirmed that if the habitat description does not meet the criteria outlined in the SWTG then they are not considered significant sites. The significant sites are the ones that provide a stable habitat based on present land uses, these are sites where high fidelity will be realized. SWH includes the largest, best representative sites with numerous species (in this case species of conservation concern). 	<ul style="list-style-type: none"> Clarification that the approach taken in identifying candidate and significant wildlife habitat for winter raptors within the study area 	June 23, 2011
Ian Hagman	Letter	June 30, 2011	<ul style="list-style-type: none"> The MNR provided the following confirmations with respect to the NHA/EIS: The determination of the existence of natural features and the boundaries of natural features was made using applicable evaluation criteria or procedures established or accepted by MNR. The site investigation and records review were conducted using applicable evaluation criteria or procedures 	<ul style="list-style-type: none"> Stantec submitted a revised NHA/EIS to MNR for review, comment and confirmation. 	June 24, 2011

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			<p>established or accepted by MNR.</p> <ul style="list-style-type: none"> The evaluation of the significance or provincial significance of the natural features was conducted using applicable evaluation criteria or procedures established or accepted by MNR. The Project Location is not in a provincial park or conservation reserve. The environmental impact assessment report has been prepared in accordance with procedures established by the MNR. The Environmental Effects Monitoring Plan has been prepared and must be implemented. It was also prepared in accordance with MNR Guidelines. 		
Ministry of Tourism and Culture					
Wai Kok/Shari Prowse	Letter		<ul style="list-style-type: none"> When the Stage II Archaeological Assessment is complete, MTC will provide a final letter containing written comments as required by O. Reg. 359/09. Based on the information provided, the work completed to date is complete and in compliance with the Ontario Heritage Act. 	<ul style="list-style-type: none"> Stantec submitted the Final Stage I Archaeological Assessment for the Project for MTC review. 	Aug 26, 2010
Chris Schiller / Laura Hatcher	Email / Letter	Feb 16 and April 1, 2011	<ul style="list-style-type: none"> MTC provided the following comments: Include images/schematics of what project infrastructure will look like would benefit the impact assessment. Comments are required from the Ontario Heritage Trust. Other infrastructure other than turbines and panels should be assessed for potential impacts. How does the Grand River contribute to the surrounding area and historical context? Cultural heritage value or interest of heritage properties should be provided. More information regarding the Project's 	<ul style="list-style-type: none"> Stantec submitted the Heritage Assessment and Protected Properties Reports for MTC review. 	Feb 9, 2011

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			<p>visibility should be provided for numerous features.</p> <ul style="list-style-type: none"> On April 1, 2011, MTC provided additional comments on the Heritage Impact Assessment regarding visual impacts of the transmission line and questions regarding the berm for the solar farm. 		
Laura Hatcher	Email/Letter	April 19, 2011	<ul style="list-style-type: none"> MTC provided a letter which constitutes the written comments as required by s. 23(3)(a) of O. Reg. 359/09. MTC is satisfied with the recommendations made within the reports. MTC requested hard copies of the final reports (Stantec provided on April 25, 2011). 	<ul style="list-style-type: none"> Revised Heritage Assessment and Protected Properties Reports were provided to the MTC for review based on the comments received on February 16 and April 1, 2011 	March 17, 2011
Shari Prowse	Email/Letter	March 15, 2011	<ul style="list-style-type: none"> When the Stage II Archaeological Assessment is complete, MTC will provide a final letter containing written comments as required by O. Reg. 359/09. Based on the information provided, the work completed to date is complete and in compliance with the Ontario Heritage Act. 	<ul style="list-style-type: none"> Stantec and Golder submitted the Interim Stage II Archaeological Assessments for MTC review. 	Feb 8 and 9, 2011
Sean Fraser (Ontario Heritage Trust)	Email/Letter	March 16, 2011	<ul style="list-style-type: none"> The Trust does not protect any property through a conservation easement on lands that will be directly impacted or visually affected by the Project 	<ul style="list-style-type: none"> N/A 	N/A
Mariflor Toneatto	Email	March 25, 2011	<ul style="list-style-type: none"> MTC confirmed that the interim comments letter to Samsung dated March 15th enables Samsung to initiate their final public consultations process, with the understanding that the remaining Stage 2 Archaeological Assessment work will be completed, and a final MTC comments letter will be issued to support the submission of their REA Application. 	<ul style="list-style-type: none"> N/A 	N/A
Mariflor Toneatto & Shari Prowse	Email/Letter	July 25, 2011	<ul style="list-style-type: none"> MTC provided comments related to the full Stage II Archaeological Assessments. 	<ul style="list-style-type: none"> Stantec submitted the full Stage II Archaeological Assessments for 	July 12, 2011

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			<p>The reports require revisions to provide clarification regarding archaeological sites as well as additional details.</p> <ul style="list-style-type: none"> • Upon submission of the revised reports, MTC will review and may provide final comments as per the REA process. 	<p>review and comment.</p>	
Wai Kok & Shari Prowse	Email/Letter	Sept 21, 2011	<ul style="list-style-type: none"> • MTC provided comments related to the revised Stage II Archaeological Assessments. Comments included commitments for additional Stage III work prior to construction and methods for conducting the Stage III work. 	<ul style="list-style-type: none"> • Stantec submitted a revised Stage II Archaeological Assessment to address the comments provided by MTC on July 25, 2011. 	August 4 and Sept 20, 2011
Grand River Conservation Authority					
Drew Cherry	Letter	June 16, 2010	<ul style="list-style-type: none"> • GRCA is interested in receiving information as the project progresses and participating in project review and approvals. • GRCA provided maps of the GRCA watershed including watercourse features, floodplains, Lake Erie flood and erosion prone lands, etc. • Portions of the Study Area are regulated by the GRCA under O. Reg 150/06 and as such, lands within regulated areas may require permission (i.e. permit) from the GRCA. 	<ul style="list-style-type: none"> • 	
Drew Cherry	Letter and email		<ul style="list-style-type: none"> • 	<ul style="list-style-type: none"> • Stantec requested the following information: • Location and classification of all permanent and intermittent streams including drainage ditches; • The location of any lake other than a Lake Trout lake; • The location of any Lake Trout lakes; • The location of any seepage areas; • Watershed reports which should be considered in the natural heritage assessment; and, 	June 18, 2010

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				<ul style="list-style-type: none"> Any fisheries related data for waterbodies (including species at risk). 	
Drew Cherry	Email		<ul style="list-style-type: none"> GRCA provided the GIS information as requested for their watershed. 	<ul style="list-style-type: none"> Stantec would like to obtain the mapping information as GIS files for use in the Natural Heritage Assessment we are completing for the project. Can you please let us know how we can obtain this information from the GRCA? Do you have a list of publications or documents that you could provide to us, or recommend certain GRCA documents, that would be useful in our environmental studies for the wind and solar project? 	June 23, 2010
GRCA, LPRCA, Samsung and Stantec Staff	Meeting	Oct 26, 2010	<ul style="list-style-type: none"> Samsung provided an overview of the Project Stantec reviewed REA process where MNR reviews and confirms the NHA/EIS and discussed the revised Conservation Authority roles and responsibilities under REA GRCA / LPRCA agreed to review on behalf of DFO through existing agreements GRCA / LPRCA confirmed requirements for potential Permits, and reviewed fees, process and information requirements GRCA / LPRCA provided local knowledge of the area, including species 		
Drew Cherry	Letter		<ul style="list-style-type: none"> 	<ul style="list-style-type: none"> Stantec provided a copy of the Draft REA reports for review and comment. 	July 19, 2011
Drew Cherry	Letter	August 30, 2011	<ul style="list-style-type: none"> For permitting purposes, much of the mapping in Volume II of the current report will require illustration of the features that are Regulated by GRCA under O. Reg. 150/06 of the Conservation Authorities Act. Additional wetlands not previously identified by the GRCA or MNR, have been identified. Provided boundaries were delineated in accordance with the most recent version of OWES, these wetlands should be used when preparing permit applications. Is Stantec's wetland layer 	<ul style="list-style-type: none"> 	

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			<p>available in a GIS format that can be provided to the GRCA?</p> <ul style="list-style-type: none"> • Where construction will occur within 30 m of a wetland, a site visit with GRCA staff may be required during the permitting process. • It appears that some access roads are proposed to be constructed and potentially widened through wetlands. An alternate access route to avoid wetland impacts is recommended. • Some turbine access roads will cross permanent or intermittent watercourses and their associated floodplains. Where avoidance of these features is not possible, and where an existing crossing does not exist or is not sufficiently wide, work should be carried out during dry conditions or outside the warm water fisheries timing window. • The GRCA noted that sand will be used to backfill collector line trenches. A sand-gravel mixture is recommended for the top portion of trenches, to reduce erosion impacts. Stantec 		
Long Point Region Conservation Authority					
Heather Surette	Letter	July 15, 2010	<ul style="list-style-type: none"> • GIS information was provided as requested. 	<ul style="list-style-type: none"> • Stantec requested the following information: • Location and classification of all permanent and intermittent streams including drainage ditches; • The location of any lake other than a Lake Trout lake; • The location of any Lake Trout lakes; • The location of any seepage areas; • Watershed reports which should be 	June 18, 2010

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Contact Person	Type of Correspondence	Date	Issue or Concern	Response / Request	Date of Response
				<ul style="list-style-type: none"> considered in the natural heritage assessment; and, Any fisheries related data for waterbodies (including species at risk). 	
GRCA, LPRCA, Samsung and Stantec Staff	Meeting	Oct 26, 2010	<ul style="list-style-type: none"> Samsung provided an overview of the Project Stantec reviewed REA process where MNR reviews and confirms the NHA/EIS and discussed the revised Conservation Authority roles and responsibilities under REA GRCA / LPRCA agreed to review on behalf of DFO through existing agreements GRCA / LPRCA confirmed requirements for potential Permits, and reviewed fees, process and information requirements GRCA / LPRCA provided local knowledge of the area, including species 		
Ben Hodi	Letter		<ul style="list-style-type: none"> 	<ul style="list-style-type: none"> Stantec provided a copy of the Draft REA reports for review and comment 	July 19, 2011
Municipal Agencies					
Haldimand County					
Lidy Romanuk	Letter		<ul style="list-style-type: none"> N/A 	<ul style="list-style-type: none"> Stantec provided the Draft Project Description to the County for internal use and for public display prior to the First Public Open House. 	June 4, 2010
Lidy Romanuk	Letter		<ul style="list-style-type: none"> 	<ul style="list-style-type: none"> Stantec requested the following information: Location and classification of all permanent and intermittent streams including drainage ditches; The location of any lake other than a Lake Trout lake; The location of any Lake Trout lakes; The location of any seepage areas; Watershed reports which should be considered in the natural heritage assessment; and, Any fisheries related data for waterbodies (including species at risk). 	June 18, 2010

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Contact Person	Type of Correspondence	Date	Issue or Concern	Response / Request	Date of Response
James Goodram	Letter		<ul style="list-style-type: none"> N/A 	<ul style="list-style-type: none"> Stantec provided Draft Project Description – Version 2 to the County for internal use and for public display prior to the First Public Open House. 	June 24, 2010
James Goodram	Email	July 12, 2010	<ul style="list-style-type: none"> County road right of way widths are available on the Haldimand County website. County has aerial imagery which can be purchased. County has digital layers of Official Plan designated areas and can be purchased. 	<ul style="list-style-type: none"> Stantec requested road right-of-way widths for various roads within the County to assist in Stantec's assessment of transmission line routes. Stantec also requested digital layers of Official Plan designated areas within the County. 	June 24, 2010
Arla Dorr	Email		<ul style="list-style-type: none"> N/A 	<ul style="list-style-type: none"> Stantec provided copies of the display boards presented at the July 8th Public Open House to the Haldimand County Councilors (sent electronically and via hard copy). 	July 9, 2010
Craig Manley	Email	July 9, 2010	<ul style="list-style-type: none"> County provided a summary of the issues raised by Council members at the Public Open House. The issues included the following: <ol style="list-style-type: none"> Details relating to the cutting of woodlots and proposed measures for replacement. Also how other natural features will be impacted and mitigated. Evaluation of the possible impacts of the anchoring of wind turbines to bedrock and whether this provides a conduit for the transmission of vibration to other properties. Relationship of the proposed transmission corridors to the County's Trail Master Plan and opportunities/constraints that may exist or occur. Clarification on the location of the transmission corridor either on or adjacent County Road 20. 	<ul style="list-style-type: none"> Samsung provided an email response to the concerns raised by Council members. The responses are as follows: <ol style="list-style-type: none"> The NHA/EIS and Construction Plan Report will assess the cutting of any woodlots for the Project and will also discuss mitigation and monitoring measures including the suitability and potential for replacement/compensation measures. Impacts and mitigation measures to other features such as wetlands and significant wildlife habitat will also be discussed in these reports. However we can confirm that all project related works will avoid Provincially Significant Wetlands. The NHA/EIS document will be reviewed by the MNR prior to the release of the REA documents to 	July 15, 2010

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Contact Person	Type of Correspondence	Date	Issue or Concern	Response / Request	Date of Response
			<ol style="list-style-type: none"> 5. Confirmation that the decommissioning plan, funding mechanisms and report will include the capital works in the transmission corridor. 6. Concerns about the impact of drainage from the solar farm and how this issue will be addressed/mitigated. 7. Concerns about the long term impact of solar panels on agricultural soil quality. 8. Confirmation about the amount of land that would be covered by solar panels. 9. How the visual impact of the solar farm will be mitigated for residential uses. 10. The impact of construction traffic and access from the County Road system to the project components and how this will be addressed. 11. Confirmation that Samsung et al will try to influence the Province to assist displaced homeowners to obtain the first right to reacquire the use of the lands. 12. As part of the economic impact assessment conduct a complete comparison of the difference between the project and the use of the land for agricultural purposes to Haldimand County. 13. Clarification about how increased 'assessment' resulting from the project on Provincial land will be dealt with in terms of payments in lieu made to the County by the Province. 	<p>the public, agencies and the County.</p> <ol style="list-style-type: none"> 2. The Geotechnical Investigation to be completed for the turbine sites will be used to identify suitable foundation designs given the limited depth to bedrock in the area. Stantec will also conduct additional study as part of the REA regarding any potential impacts (i.e., vibration) as a result of anchoring wind turbines to bedrock. 3. Samsung will review the County's Trail Master Plan and work with the County to discuss any opportunities/constraints that may exist between the Plan and the proposed transmission corridors for the project. 4. An assessment of the transmission line route is ongoing but the currently preferred option is to utilize established road rights-of-way (including County Road 20) where possible. 5. All of the REA reports will include an assessment of the transmission line route. Samsung is considering a performance bond with the County to address any County road works necessary as a result of Project construction activities. As part of the leases for turbine sites, a performance bond with private landowners is also expected. Samsung is also currently considering funding mechanisms related to the decommissioning stage of the Project. 6. The Water Assessment Report, Construction Plan Report, and 	

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				<p>Design and Operations Report will assess impacts to on-site drainage. Discussions will also be held with private landowners regarding drainage use on-site.</p> <p>7. The Construction Plan Report, Design and Operations Report, and Decommissioning Report will assess any potential impacts to agricultural soil quality. Samsung also intends to utilize low growing, low maintenance native plants within the solar sites to maintain soil quality. Additional literature reviews will also be conducted regarding solar panel impacts on soil quality.</p> <p>8. It is currently estimated that 900 acres of land will be required for the solar project.</p> <p>9. Samsung is currently investigating landscaping options around the perimeter of the site and will consider suggestions provided by the County, agencies, and stakeholders. A Visual Assessment including photo montages will also be provided within the REA documents to demonstrate potential landscaping options.</p> <p>10. The Construction Plan Report will involve a Traffic Management Plan (or equivalent) which will assess the impact of construction traffic and access from the County Road system to the project sites. Samsung is also currently considering a performance bond to the County regarding road usage.</p> <p>11. Samsung will discuss with the</p>	

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Contact Person	Type of Correspondence	Date	Issue or Concern	Response / Request	Date of Response
				<p>Province the provision for displaced homeowners to obtain the first right to reacquire the use of the lands following decommissioning of the project.</p> <p>12. A Net Benefit Analysis (or equivalent) will be conducted as part of the REA process to assess the economic benefit of the project to the County including an evaluation of the difference between the project and the use of the land for agricultural purposes.</p> <p>13. Samsung will clarify this concern with the Ontario Realty Corporation and provide details to the County when they are available.</p>	
James Goodram	Email	July 20, 2010	<ul style="list-style-type: none"> County provided three links to information which may be of assistance to Samsung and Stantec (Trails Master Plan, County GIS system, and the County Official Plan). Currently, trail development is in its infancy stage, however if Samsung wishes to propose something along the trail/transmission corridor that would be beneficial for all parties, we would be interested to hear your proposals and ideas. County is also in the process of gathering the various requested GIS layers. 	<ul style="list-style-type: none"> Samsung requested additional information regarding the County's Rail to Trail Program and information related to the abandoned rail line north of Hwy 3. 	July 20, 2010
Buck Sloat	Email	July 26, 2010	<ul style="list-style-type: none"> What are the setback requirements from buildings on project property and neighbouring property? After wind turbines are constructed can an abutting property owner build any building inside the set back on their own property? 	<ul style="list-style-type: none"> Samsung plans on staying as far away from our land owner buildings as possible. In our contract we have included a hard 350 m setback away from all buildings on our land owners land. Neighbouring buildings we will stay either 550m meters away from a non-participating residential dwelling 	July 29, 2010

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			<ul style="list-style-type: none"> How do set back requirements affect a lot of record with no house or building on it? 	<p>or 40 db with sound modeling, which ever greater. In my experience the sound modeling is always greater than 550 m.</p> <ul style="list-style-type: none"> From my understanding a land owner is not restricted however I believe the "Buyer beware" concept is induced as they may build a residential house within an area where a setback could be breached. The setback would have been established prior to the adjacent land owner building. Both the developer and the county likely have a responsibility to help educate the prospective house builder on the potential impacts to that house. As part of provincial legislation we do a record search with the county to discover any severed lots that do not have houses currently built on them and treat that lot as if it has a house on it. 	
Mayor Marie Trainer	Email	Sept 1, 2010	<ul style="list-style-type: none"> Mayor Trainer provided comments submitted from local stakeholders. They are as follows: Weeds need to be cut immediately. Is any woodlot going to be removed? What happens to the soil once the project is completed? What happens to stormwater that is accumulated at the solar site? How many private landowners have signed up for the project? How is the energy going to be transmitted? Are new hydro poles going to be constructed? If property values decrease, will landowners be compensated? 	<ul style="list-style-type: none"> Samsung was granted access to ORC lands the week of Aug 23, 2010, which has prevented Samsung from conducting maintenance activities. . Samsung is currently in the process of organizing the existing tenants and/or local farmers to plough the fields, which will remove the weeds. We are hoping to have this work organized and completed in the next couple of weeks. Some clearing will be necessary including a portion of woodlot for the solar component of the project; however as part of the Renewable Energy Approval (REA) process an environmental impact Study (EIS) 	Sept 3, 2010

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			<ul style="list-style-type: none"> • Why is development permitted on Class 3 lands? • Where is the substation going to be built and how is the noise going to be addressed? • Is land being leased and at what cost? • Are there any effects to farm animals from the solar panel reflection? 	<p>report will be prepared. The Ministry of Natural Resources (MNR) will review and comment on the EIS for the project as well as provide written confirmation that the EIS was prepared in accordance with procedures established by the MNR.</p> <ul style="list-style-type: none"> • In 20 years when our Feed-In-Tariff contact with the Ontario Power Authority expires, the soil can be reclaimed for agricultural use. Samsung also intends to utilize low growing, low maintenance native plants within the solar sites to maintain soil quality throughout the life of the project. • We will be assessing potential impacts from storm water and providing the appropriate mitigation. Discussions will also be held with private landowners (as appropriate) regarding drainage use on-site. • Information on the number of private landowners that have signed our option agreement is confidential information between Samsung and the individual landowners. Therefore I cannot disclose this information. • Energy will be collected via collector lines to our substation; the exact location of the substation has yet to be determined. From the substation, electricity will be carried on a proposed 230kv transmission line to our point of connection with the transmission grid (the existing high voltage Nanticoke lines). The 230kv line will utilize new hydro poles, the number of poles and the route of the 	

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				<p>transmission line has yet to be determined.</p> <ul style="list-style-type: none"> • I am not aware of any research to date that has indicated that property values around a solar farm will decrease. If you have peer reviewed journal articles that indicate otherwise please forward them to me. Samsung will not be compensating landowners within the area of the solar site in the event of decreased property values as Samsung does not believe that there will be a decrease in values. • The Ontario Power Authority has indicated that 500 MW of solar energy in Ontario can be built on prime agricultural land, of which Samsung has been granted to construct 100 MW. As such, the proposed solar farm will be built on Class 3 agricultural land. • The location of the substation has yet to be determined. The substation will be designed to meet all REA requirements with regards to noise levels. It will be located at least 550 m from the nearest noise receptor. • Samsung is leasing land from both the Ontario Realty Corporation and private landowners. The lease amount is confidential and therefore I cannot disclose this information. • I am not aware of any peer reviewed scientific articles that have identified that farm animals are negatively impacted by solar farms. If you have this information please pass it on to me. However we will be assessing any potential impacts as part of the 	

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				REA process.	
Council	Presentation	Dec 13, 2010	<ul style="list-style-type: none"> Samsung/Stantec provided a presentation to Haldimand Council which provided an update on the status of the Project and the REA process. 		
James Goodram	Letter and Municipal Consultation Form	Aug 26, 2011	<ul style="list-style-type: none"> Haldimand County provided a copy of the draft comments with respect to the Municipal Consultation Form. Comments will not be finalized until they are endorsed by County Council. 	<ul style="list-style-type: none"> The REA Municipal Consultation Form was provided to Haldimand County to initiate the minimum 90-day review period. A copy of the Draft Project Description Report, Draft Construction Plan Report, Draft Design and Operations Report, and Draft Decommissioning Plan Report were provided in accordance with O. Reg. 359/09. 	Feb 15, 2011
Paul Heeg (Haldimand Hydro)	Email	April 13, 2011	<ul style="list-style-type: none"> Haldimand County Hydro had been notified by Haldimand County's Economic Development & Tourism Division about a Samsung Grand Energy Renewable Park - Municipal Package for the purposes of a REA Municipal Consultation Form review. Haldimand County (James Goodram, Manager) has informed me that Haldimand County Hydro should have received a package directly from Samsung. This is a request for the referenced package so Haldimand County Hydro has an opportunity to provide comments to Haldimand County as part of the REA Municipal Consultation Review. 	<ul style="list-style-type: none"> Samsung hasn't provided a package to Haldimand Hydro as of yet because we're waiting for MNR sign off. Once we get confirmation from them we'll release the full package to all stakeholders including Haldimand Hydro. We are providing Haldimand County nearly two to three times the required duration to be able to have an early review of the documents already provided. 	April 13, 2011
James Goodram	Letter	Aug 26, 2011	<ul style="list-style-type: none"> Haldimand County provided a copy of the draft comments with respect to the Municipal Consultation Form. Comments will not be finalized until they are endorsed by County Council. 	<ul style="list-style-type: none"> Stantec sent a follow-up letter to the County requesting comments related to the Municipal Consultation Form. 	July 7, 2011
Evelyn Eichenbaum and James Goodram	Letter	N/A	<ul style="list-style-type: none"> N/A 	<ul style="list-style-type: none"> Stantec provided a copy of the publicly released Draft REA reports for review and comment. 	July 19, 2011
County staff	Meeting	Aug 26,	<ul style="list-style-type: none"> County provided a copy and an overview of their draft comments with respect to the 		

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Agency Comment Summary Table**

Contact Person	Type of Correspondence	Date	Issue or Concern	Response / Request	Date of Response
		2011	<p>Municipal Consultation Form.</p> <ul style="list-style-type: none"> • Comments are in draft form and will be provided to Council for endorsement before being officially provided to Samsung/Stantec (earliest date of Sept 19). • GRCA will provide written comments at a later date. Stantec to set up a meeting with GRCA and LPRCA within the next two weeks. • County requested preliminary construction drawings for initial review. • Other infrastructure is located within the County road rights-of-way and Samsung will be required to conduct investigations of this infrastructure. • Haldimand County Hydro was present, but indicated they would not be commenting through the Municipal Consultation Form as discussions related to the transmission line are being dealt with under a separate regulatory process. 		
Council	Letter	Aug 26, 2011	<ul style="list-style-type: none"> • Council provided a copy of questions from August 24, 2011 and additional comments since that time. The following are the comments: <ol style="list-style-type: none"> 1. <i>Council has requested greater details relating to the cutting of woodlots and proposed measures for replacement of these environmental features. Also, how other features including wetlands and significant species will be impacted/mitigated.</i> 2. <i>Evaluation of the possible impacts of anchoring of wind turbines to bedrock and whether this provides a conduit for the transmission of vibration to other properties.</i> 3. <i>The relationship of the proposed electrical transmission corridors to the County's Master Trail Plan and opportunities/constraints that may exist or occur.</i> 4. <i>Clarification on the location of the transmission corridor.</i> 5. <i>Confirmation that the decommissioning plan, funding mechanism and report will include the capital works in the transmission corridor.</i> 6. <i>The impact of construction traffic and</i> 	<ol style="list-style-type: none"> 1. Proposed clearing will result in the removal of approximately 1.72 ha of plantation in areas identified as significant woodland. Additional information has been presented within the NHA/EIS including mitigation measures associated with clearing activities. 2. As reported in the <i>Expert Panel Review</i> by Dr. Colby et al (2009), it has been found that ground-borne vibrations from wind turbines are too weak to be detected by, or to affect, humans. 3. The transmission line is proposed to be located along Haldimand Road 20 within the municipal road right-of-way. The County's Trail Master Plan identifies a section of Haldimand Road 20 between Hagersville and Nelles Corners (approximately 6 km) which could potentially share the same corridor as the transmission line where the trail would be within the municipal road right-of-way (e.g. on-road bicycle routes). 4. The transmission line is proposed to be located along Haldimand Road 20 	Sept 21, 2011

**Grand Renewable Energy Park
Agency Comment Summary Table**

Contact Person	Type of Correspondence	Date	Issue or Concern	Response / Request	Date of Response
			<p><i>access from the County road system to the project components and how this will be addressed.</i></p> <p>7. <i>As part of the economic impact assessment, conduct a complete comparison of the difference between the project and the use of the land for agricultural purposes to Haldimand County. Also provide a breakdown of the type of jobs to be created.</i></p> <p>8. <i>The impact this project will have on tourism.</i></p> <p>9. <i>The impact on the property values on land adjacent to the Project.</i></p> <p>10. <i>Additional information and studies to show how the setback of a wind turbine of 550 m was determined.</i></p> <p>11. <i>A request for studies that demonstrate how high or low pitch frequencies affect the nervous and mobility system and the long term affects for human and animal health.</i></p> <p>12. <i>A request for the results of studies on how wildlife are affected in the immediate and surrounding areas where wind turbines are already in place.</i></p> <p>13. <i>A request for confirmation that upon the termination of the project, the land involved in the project will revert back to agricultural land from industrial.</i></p> <p>14. <i>Demonstrated outcomes of the consultation with the First Nations on all renewable energy projects.</i></p>	<p>within the municipal road right-of-way.</p> <p>5. The Decommissioning Plan Report includes plans for the removal of all Project components including the transmission line. The costs for removal of Project infrastructure would be the responsibility of Samsung or the owner of the transmission line at the time of decommissioning. The use and decommissioning of transmission line is regulated by the Ontario Energy Board.</p> <p>6. Road safety is not expected to be an issue during the construction phase due to the implementation of a Traffic Management Plan which Samsung has committed to developing in consultation with Haldimand County prior to Project construction.</p> <p>7. The removal of lands from agricultural production is not anticipated to have a noticeable impact on the local agri-business economy given the magnitude of the Project and the inherent variability in crop production.</p> <p>8. A tourism-specific study is not required as part of the Renewable Energy Approval (REA) process and has not been completed for this Project. While, there is a perceived negative effect on tourism as a result of the effect on the viewshed from wind turbines, previous studies have noted that wind power projects can have an advantageous influence on local tourism initiatives.</p> <p>9. Based upon the data reviewed to date in other areas with established wind</p>	

**Grand Renewable Energy Park
Agency Comment Summary Table**

Contact Person	Type of Correspondence	Date	Issue or Concern	Response / Request	Date of Response
				<p>plants (e.g., Canada, USA, Europe, and Australia), no evidence of a material negative effect on property value as a result of the presence of wind plants was provided. The solar farm component of the Project will be designed to minimize any potential visual effects on nearby landowners and thus any potential impact to property values.</p> <p>10. In developing setback distances for wind turbines in O.Reg. 359/09, the Ministry of the Environment (MOE) reviewed leading scientific studies from around the world to ensure that Ontario's rules are protective of human health and the environment and are appropriate for the needs of Ontario's communities.</p> <p>11. A detailed health impact assessment including an assessment of low frequency noise was completed for Samsung and was included within the Draft Design and Operations Report (Attachment F) as part of the Draft REA Report package. Studies used to support the conclusions within the assessment were cited within the assessment.</p> <p>12. Detailed information related to the potential effects to wildlife is included within the Natural Heritage Assessment/Environmental Impact Study.</p> <p>13. As stated in Section 2.3 of the Draft Decommissioning Plan Report, agricultural land will be restored such that normal farming practices may resume. It should be noted that the</p>	

**Grand Renewable Energy Park
Agency Comment Summary Table**

Contact Person	Type of Correspondence	Date	Issue or Concern	Response / Request	Date of Response
				<p>Project proponent has a decommissioning bond available at commencement of construction for each of the land owners to remove works from their private property, in the unlikely event that such action is necessary.</p> <p>14. Samsung is currently conducting engagement activities with multiple aboriginal communities (as identified by the Ministry of the Environment (MOE)) in accordance with the requirements of O. Reg. 359/09. Details regarding the engagement activities including copies of letters and summaries of meetings will be provided within the Consultation Report as part of Samsung's final REA application to the MOE.</p>	
Haldimand County Hydro					
Lloyd Payne	Letter	N/A	<ul style="list-style-type: none"> N/A 	<ul style="list-style-type: none"> Stantec provided a copy of the Draft REA reports for review and comment. 	July 19, 2011

Friedl, Susanne

Subject: FW: MNO & Samsung Meeting

From: Hearne, Kara [mailto:kara.hearne@stantec.com]

Sent: October 5, 2010 9:25 AM

To: James Wagar

Subject: RE: MNO & Samsung Meeting

Hi James,
I'm checking into it, and will get back to you as soon as I can. I appreciate your patience.

Take care,
Kara

From: James Wagar [mailto:JamesW@metisnation.org]

Sent: Thursday, September 30, 2010 10:08 AM

To: James Wagar; Hearne, Kara

Subject: RE: MNO & Samsung Meeting

Hello Kara,

I am just touching base to see what the progress is in setting up a meeting between the Region 9 Consultation Committee and Samsung to discuss the Grand Renewable Energy Park project.

Miigwetch - Merci - Thank You

James W. Wagar

Consultation Assessment Coordinator
Lands, Resources and Consultation
Métis Nation of Ontario
75 Sherbourne St., Suite 222
Toronto, Ontario M5A 2P9

Toll Free: 888.466.6684

Tel: 416.977.9881 ext.107

Cell: 905.447.6612

Fax: 416.977.9911

JamesW@metisnation.org

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From: James Wagar
Sent: September 21, 2010 4:56 PM
To: 'Hearne, Kara'
Subject: MNO & Samsung Meeting

Thanks Kara,

The following represents the days in which the community is available to meet with you on the Samsung project.

October 5, 8, 11, 12, 15, 18, 19, 20, 22, 25, 26, 27, and 29th. It might be best to provide me with a number of days that would work for the team, just in case.

Attached represents a draft budget of the expenses incurred by the community participants whom are volunteering their time.

If you have any questions please let me know. I look forward to seeing you soon!

Miigwetch - Merci - Thank You

James W. Wagar

Consultation Assessment Coordinator
Lands, Resources and Consultation
Métis Nation of Ontario
75 Sherbourne St., Suite 222
Toronto, Ontario M5A 2P9

Toll Free: 888.466.6684
Tel: 416.977.9881 ext.107
Cell: 905.447.6612
Fax: 416.977.9911

JamesW@metisnation.org

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Friedl, Susanne

From: XNCR, Windfarm Coordinator <Windfarm.Coordinator@DFO-MPO.GC.CA>
Sent: Monday, January 17, 2011 11:10 AM
To: Kozak, Mark
Cc: de Carteret Feit, Kendra
Subject: RE: Grand Renewable Energy Park

Follow Up Flag: Follow up
Flag Status: Flagged

Dear Mr. Kozak,

Having reviewed the details of your proposed wind turbine park, I can advise you that the Canadian Coast Guard does not have any communications or radar facilities in the immediate area. Therefore, we do not have any concerns.

Sincerely yours,

Lee H. Goldberg, P.Eng.

*Radio Communication Systems / Systèmes de communications de radio
Wind Farm Coordinator / Coordonnateur des Parcs éoliens
Integrated Technical Services / Services techniques intégrés
Canadian Coast Guard / Garde Côtière canadienne*

Telephone / Téléphone: (519) 383-1925
Facsimile / Fac-similé: (519) 383-1998

<mailto:windfarm.coordinator@dfo-mpo.gc.ca>

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From: Kozak, Mark [mailto:mark.kozak@stantec.com]
Sent: Monday, January 17, 2011 9:42 AM
To: XNCR, Windfarm Coordinator
Cc: de Carteret Feit, Kendra
Subject: RE: Grand Renewable Energy Park
Importance: High

Dear Mr. Goldberg,

As previously requested below, please find the attached table with the coordinates of the turbines as part of the Grand Renewable Energy Park proposed by Samsung.

Regards,
Mark

From: XNCR, Windfarm Coordinator [mailto:Windfarm.Coordinator@DFO-MPO.GC.CA]
Sent: Monday, June 07, 2010 8:55 AM
To: de Carteret Feit, Kendra
Subject: RE: Grand Renewable Energy Park

Dear Ms. Feit:

The Canadian Coast Guard has radio communication facilities in that general area. To be able to make an accurate assessment of the situation, I would request that you provide the coordinates of the wind turbines located within that proposed area.

Sincerely yours,

(Lee H. Goldberg, P.Eng.)

*Wind Farm Coordinator / Coordonnateur des Parcs éoliens
Radio Communication Systems / Systèmes de communications de radio
Integrated Technical Services / Services techniques intégrés
Canadian Coast Guard / Garde Côtière canadienne*

*Telephone: / Téléphone: (519) 383-1925
Facsimile: / Fac-similé: (519) 383-1990*

<mailto:windfarm.coordinator@dfo-mpo.gc.ca>

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From: Mojica, Jose Fernando
Sent: June 4, 2010 2:55 PM
To: Goldberg, Lee
Cc: 'Kendra.Feit@stantec.com'
Subject: FW: Grand Renewable Energy Park

FYI

José Fernando Mojica

Senior Engineer / Ingénieur principal

VTMIS Systems / Systèmes VTMIS

Integrated Technical Services / Services Techniques Intégrés

Canadian Coast Guard / Garde côtière canadienne

(613) 998 1403

jose-fernando.mojica@dfo-mpo.gc.ca

From: de Carteret Feit, Kendra [mailto:Kendra.Feit@stantec.com]

Sent: June 4, 2010 2:54 PM

To: Mojica, Jose Fernando

Subject: Grand Renewable Energy Park

Good afternoon –

Please find attached a letter and notice regarding the proposed Grand Renewable Energy Park.

Thank-you,

Kendra de Carteret Feit, on behalf of

Rob Nadolny

Senior Project Manager

Stantec

Ph: (519) 836-6050 Ext. 242

Fx: (519) 836-2493

rob.nadolny@stantec.com

stantec.COM

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**Canadian Environmental
Assessment Agency**

55 St-Clair Avenue East
9th Floor, Room 907
Toronto, Ontario
M4T 1M2

**Agence canadienne
d'évaluation environnementale**

55 Avenue St-Clair Est
9ième étage, pièce 907
Toronto, Ontario
M4T 1M2

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AUG 27 2010

August 23, 2010

Rob Nadolny
Senior Project Manager
Stantec Consulting Ltd.
Suite 1 – 70 Southgate Drive
Guelph, ON N1G 4P5

Dear Mr. Nadolny

Re: Grand Renewable Energy Park

Thank you for your letter of June 4 related to the above-noted project.

We understand that proposed renewable energy projects requiring a provincial Renewable Energy Approval (REA) are not subject to a provincial environmental assessment (EA) process. As a result, our office will not play a coordination role in relation to your proposed project and staff will not review the draft project description you provided. We typically act as the Federal Environmental Assessment Coordinator for project proposals that are subject to both a provincial EA and federal EA screening concurrently, or for federal EA comprehensive studies.

The requirements of the *Canadian Environmental Assessment Act* (the Act) may apply to your proposed project. The Act applies to federal authorities when they contemplate certain actions or decisions in relation to a project that would enable it to proceed in whole or in part. A federal environmental assessment (EA) may be required when a federal authority is the proponent of the project; provides financial assistance to the proponent; sells, leases or otherwise disposes of federal lands; or issues a permit, licence or any other approval as prescribed in the *Law List Regulations*.

You may wish to check with other potential federal authorities (if applicable) listed in the attachment to this letter about their potential federal EA interests or responsibilities. Please note that you may be advised to contact additional federal authorities based on the nature of your proposal and the environmental setting or may be asked for additional information about your proposal.

.../2



To better assist proponents in understanding the types of information that federal authorities may wish to receive, the Agency has developed an Operational Policy Statement, which provides guidance in preparing project descriptions. This document is available on the Agency's website at:

http://www.ceaa-acee.gc.ca/013/0002/ops_ppd_e.htm

Information on potential federal interests for each type of renewable energy project are identified in the Ontario Ministry of the Environment Renewable Energy Approval (REA) Guide which is found at:

<http://www.ene.gov.on.ca/en/business/green-energy/proponents.php>

If you have any questions regarding this correspondence, please contact me at 416-952-7006.

Sincerely,



Steve Woolfenden
Project Manager
Canadian Environmental
Assessment Agency, Ontario Region

cc:Petra Fisher, Ontario Renewable Energy Facilitation Office
May Lyn Trudelle, Environmental Assessment and Approvals Branch, Ontario Ministry of the Environment

Standard List of Potentially Responsible/Interested Federal Authorities

Federal Authority	Possible EA Interest	Possible Other Interest	REA Plain Language Guide Reference
Correctional Services Canada	X		
Department of National Defence (Land Force Central Area and Defence Construction Canada)	X		
Environment Canada	X		P.44, 52, 61, 69
Fisheries and Oceans Canada	X		P. 43, 52, 61, 68
Health Canada	X		
Indian and Northern Affairs Canada	X		
Infrastructure Canada	X		
Natural Resources Canada	X		P. 45, 53, 62, 69
Parks Canada	X		P. 44, 52, 61, 69
Royal Mounted Police	X	X	P. 43
Transport Canada	X		P. 43, 68
Canadian Broadcasting Corporation		X	P. 43
National Defence (Radio Communication Systems and Air Traffic Control (ATC) Radar Systems)		X	

Friedl, Susanne

From: +WindTurbines@forces.gc.ca
Sent: Tuesday, January 19, 2010 9:50 AM
To: Étienne Leroux
Cc: MARIO.LAVOIE2@forces.gc.ca; Toufic.Haddad@forces.gc.ca
Subject: RE: P-2009264 - Lake Erie Wind farm

Hi Etienne:

I have analyzed the proposed Lake Erie Wind Farm, with respect to the Department of National Defence, Air Traffic Control and Air Defence Radars.

Our software modeling indicates no conflict with any current radar installations. Should there be changes in the size or location of the wind farm, please re-submit the proposal for further analysis.

Thank you for your consideration of the Dept of National Defence radars and we look forward to assisting you in any future wind turbine endeavours.

Thanks, Mark

Mark Bartley
Electronic Engineering Development Officer | Officier de génie de developement electronique
ATESS - CCISF | ESTTMA - ESICC
National Defence | Défense nationale
Astra, Canada K0K 3W0
Mark.Bartley@forces.gc.ca
Telephone | Téléphone 613-392-2811 #7042
CSN | RCCC 827-7042
Government of Canada | Gouvernement du Canada

From: eleroux@yrh.com [mailto:eleroux@yrh.com]
Sent: Monday, 18, January, 2010 11:25 AM
To: +WindTurbines@ATESS@TRENTON; Lavoie MJ@ADM(IM) DIMTPS@Ottawa-Hull; alex.beckstead@rcmp-grc.gc.ca
Subject: P-2009264 - Lake Erie Wind farm

Good morning Gentlemen,

I have a new area for a wind farm project. This area is located on boarder of Lake Erie between the municipalities of Balmoral and Port Maitland. Here are the opposite corner coordinates (UTM NAD83 Zone 17):

X1: 79 57 31W Y1: 42 48 58N
X2: 79 34 34W Y2: 42 55 36N

As usual, I want to know if you have any telecom system in the area that can be affected by large wind turbine. Unfortunately, this is the identification step, so no layout is available.

If you have any question, please feel free to contact me.

Regards,

Etienne Leroux, Eng.

Yves R. Hamel et Associés Inc.

www.yrh.com

Tel: 514.934.3024 ext. 222

Fax: 514.934.2245

eleroux@yrh.com

Friedl, Susanne

From: MARIO.LAVOIE2@forces.gc.ca
Sent: Monday, January 18, 2010 11:32 AM
To: Étienne Leroux
Cc: +WindTurbines@forces.gc.ca
Subject: RE: P-2009264 - Lake Erie Wind farm

Etienne,

I have reviewed your proposal in respect to DND radiocommunication systems and I have no objections or concerns.

Have a good day.

Mr. Mario Lavoie
Spectrum Engineering Technician | Technicien en ingénierie du spectre
Information Management Group | Groupe de gestion de l'information
National Defence | Défense nationale
Ottawa, Canada K1A 0K2
mario.lavoie2@forces.gc.ca
Telephone | Téléphone 613-992-3479
Facsimile | Télécopieur 613-991-3961
Government of Canada | Gouvernement du Canada

From: eleroux@yrh.com [mailto:eleroux@yrh.com]
Sent: Monday, 18, January, 2010 11:25 AM
To: +WindTurbines@ATESS@TRENTON; Lavoie MJ@ADM(IM) DIMTPS@Ottawa-Hull; alex.beckstead@rcmp-grc.gc.ca
Subject: P-2009264 - Lake Erie Wind farm

Good morning Gentlemen,

I have a new area for a wind farm project. This area is located on boarder of Lake Erie between the municipalities of Balmoral and Port Maitland. Here are the opposite corner coordinates (UTM NAD83 Zone 17):

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X2: 79 34 34W Y2: 42 55 36N

As usual, I want to know if you have any telecom system in the area that can be affected by large wind turbine. Unfortunately, this is the identification step, so no layout is available.

If you have any question, please feel free to contact me.

Regards,

Etienne Leroux, Eng.
Yves R. Hamel et Associés Inc.
www.yrh.com
Tel: 514.934.3024 ext. 222
Fax: 514.934.2245
eleroux@yrh.com



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JUN 21 2010

400 Clyde Road, P.O. Box 729 Cambridge, ON N1R 5W6

Phone: 519.621.2761 Toll free: 866.900.4722 Fax: 519.621.4844 Online: www.grandriver.ca

June 16, 2010

Stantec Consulting Ltd.
Suite 1 – 70 Southgate Drive
Guelph, ON N1G 4P5

Attention: Rob Nadolny, Senior Project Manager

**Subject: Grand Renewable Energy Park
Notice of a Proposal to Engage in a Project and
Notice of Public Open House**

Thank you for contacting the Grand River Conservation Authority regarding the Notice of Proposal to Engage in a Project and Notice of Public Open House for the above noted project. The GRCA is interested in receiving information from you as the project progresses and participating in the project review and approval process.

I have attached three maps that indicate at a very broad scale, the portion of our watershed that is included in the study area. Within this watershed boundary the GRCA regulates natural watercourse features, river and stream valleys, wetlands, steep and erosion prone slopes, hazard lands, floodplains, Lake Erie flood and erosion prone lands etc. The regulated areas are shown again at a very broad scale, on the maps. As the Grand Renewable Energy Park study is refined, we can provide you with a more site specific mapping showing the location and extent of the regulated areas in more detail.

Portions of your study area are regulated by the GRCA under Ontario Regulation 150/06. As such development proposals and site alterations, including wind facility and solar developments located within the regulated areas may require permission (i.e. permits) from the conservation authority.

I trust this information is of assistance. I look forward to working with you in the future. Should you have any initial questions, please contact me.

Yours truly,

A handwritten signature in blue ink that reads "Drew Cherry".

Drew Cherry
Resource Planner
Grand River Conservation Authority
519-621-2763 ext. 2237



ISO 14001 Registered

Canadian
Heritage
Rivers
System



Grand Ren. Energy Project

LEGEND

- WATERSHED BOUNDARY (GRCA)
- UTILITY LINE (NRVIS)
- ROADS-ADDRESSED (MNR)
- RAILWAY (NRVIS)
- LAKE FLOOD (GRCA)
- MUNICIPAL BOUNDARY (GRCA)
- CLASSIFIED STREAMS - NEW (NRVIS)
- COLD WATER
- COOL WATER
- UNKNOWN
- WARM WATER
- DRAINAGE-NETWORK (GRCA)
- FLOODPLAIN-SPECIAL POLICY AREA (GRCA)
- FLOODPLAIN (GRCA)
- ENGINEERED
- APPROXIMATE
- ESTIMATED
- LAKE EROSION (GRCA)
- WETLAND (GRCA)
- SLOPE VALLEY (GRCA)
- STEEP
- OVERSTEEP
- SLOPE EROSION (GRCA)
- STEEP
- OVERSTEEP
- TOE
- WETLAND (NRVIS)
- PROVINCIALLY SIGNIFICANT
- OTHER
- PARKS (GRCA)
- REGULATION LIMIT (GRCA)
- DRAINAGE-POLY (NRVIS)
- WOODED AREA (MNR)
- HEDGEROW
- PLANTATION
- TREED
- BUILT-UP (MNR)
- BUILT-UP PIERVIOUS
- BUILT-UP IMPERVIOUS

GRCA Disclaimer

This map is for illustrative purposes only. Information contained hereon is not a substitute for professional review or a site survey and is subject to change without notice. The Grand River Conservation Authority takes no responsibility for, nor guarantees, the accuracy of the information contained on this map. Any interpretations or conclusions drawn from this map are the sole responsibility of the user.

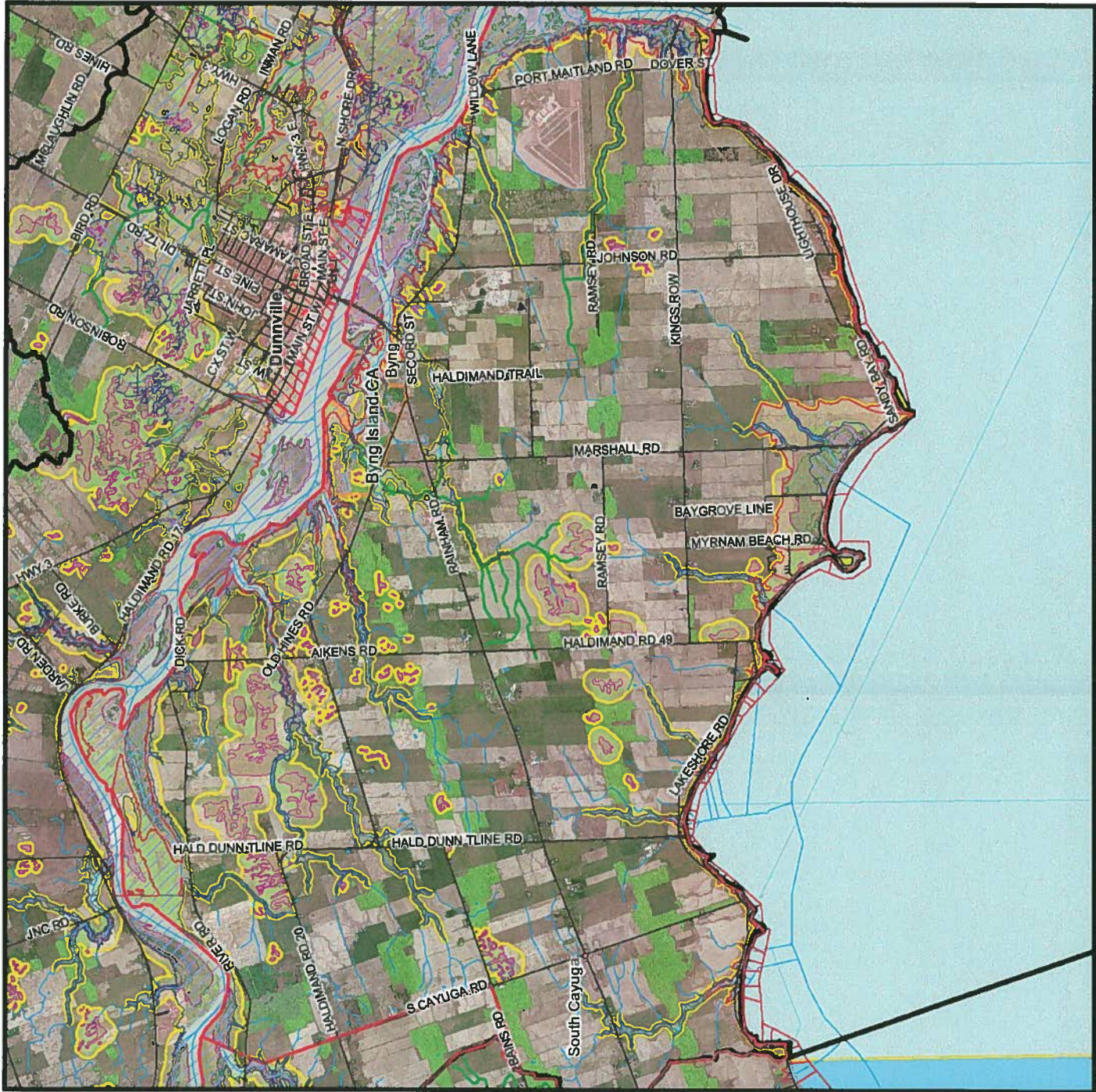
The source for each data layer is shown in parentheses in the map legend. For a complete listing of sources and citations go to:

<http://grims.grandriver.ca/docs/SourcesCitations1.htm>

0 850 1700 2550 3400 m.

NAD 1983, UTM Zone 17 Scale 1:73,200

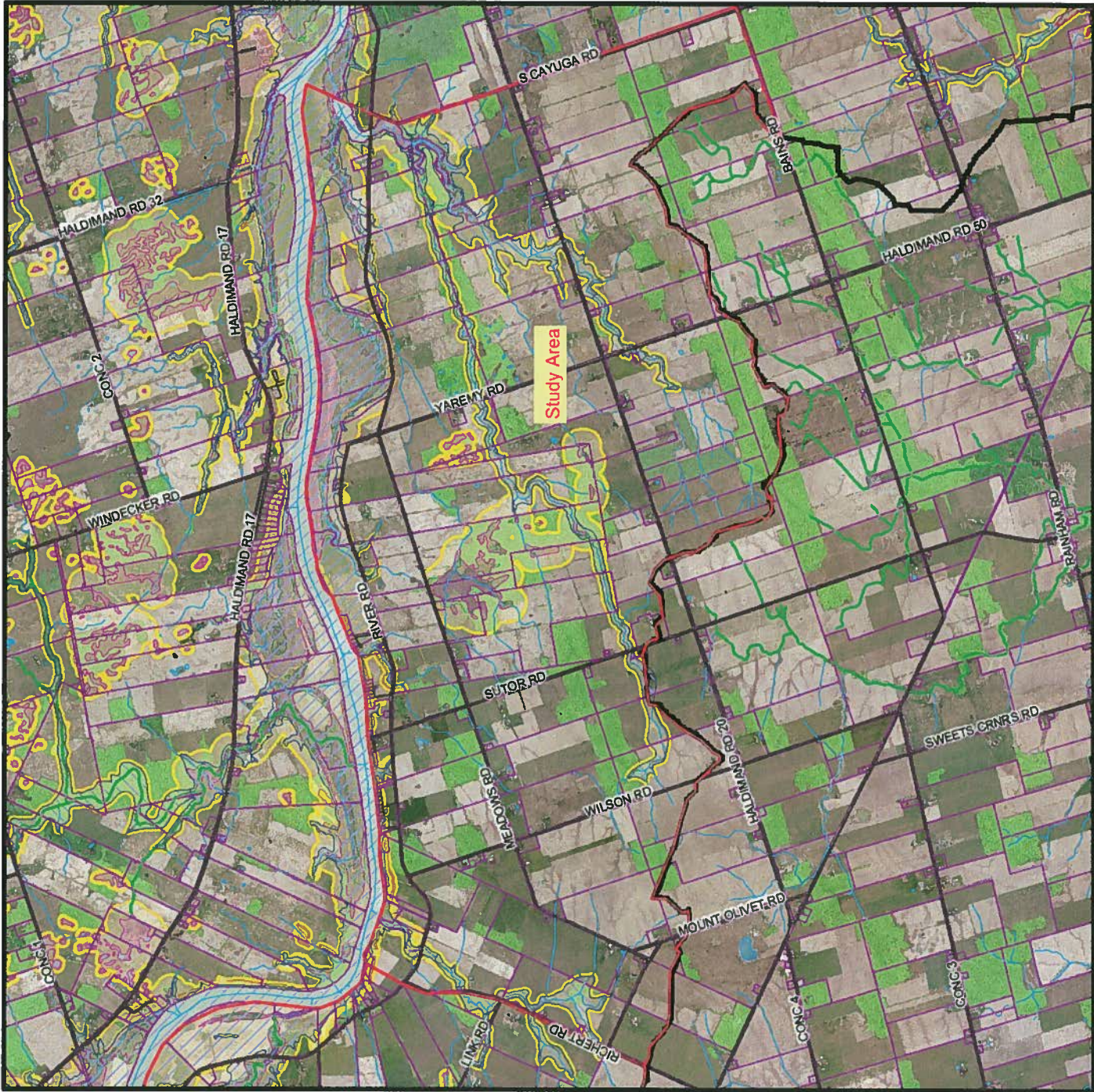
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Grand Ren. Energy Project

- LEGEND**
- WATERSHED BOUNDARY (GRCA)
 - UTILITY LINE (NRVRS)
 - ROADS-ADDRESSED (MNR)
 - RAILWAY (NRVRS)
 - LAKE FLOOD (GRCA)
 - MUNICIPAL BOUNDARY (GRCA)
 - CLASSIFIED STREAMS - NEW (NRVRS)
 - COLD WATER
 - COOL WATER
 - UNKNOWN
 - WARM WATER
 - DRAINAGE-NETWORK (GRCA)
 - PARCELS-ASSESSMENT (MPAC)
 - FLOODPLAIN-SPECIAL POLICY AREA (GRCA)
 - FLOODPLAIN (GRCA)
 - ENGINEERED
 - APPROXIMATE
 - ESTIMATED
 - LAKE EROSION (GRCA)
 - WETLAND (GRCA)
 - SLOPE VALLEY (GRCA)
 - STEEP
 - OVERSTEEP
 - SLOPE EROSION (GRCA)
 - STEEP
 - OVERSTEEP
 - TOE
 - WETLAND (NRVRS)
 - PROVINCIALY SIGNIFICANT
 - OTHER
 - PARKS (GRCA)
 - REGULATION LIMIT (GRCA)
 - DRAINAGE-POLY (NRVRS)
 - WOODED AREA (MNR)
 - HEDGEROW
 - PLANTATION
 - TREED
 - BUILT-UP (MNR)
 - BUILT-UP PERVIOUS

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The source for each data layer is shown in parentheses in the map legend. For a complete listing of sources and citations go to:
<http://grca.grandriver.ca/files/SourcesCitations1.htm>



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Stantec

Stantec Consulting Ltd.
Suite 1 - 70 Southgate Drive
Guelph ON N1G 4P5
Tel: (519) 836-6050
Fax: (519) 836-2493

June 18, 2010
File: 160960577 / 161010624

Grand River Conservation Authority
400 Clyde Road
Cambridge, ON N1R 5W6

Attention: Mr. Drew Cherry, Resource Planner

**Reference: Grand Renewable Energy Park
Request for Information**

Dear Mr. Cherry,

Further to your email of June 15, 2010, I am writing with regards to the proposed Grand Renewable Energy Park to be located in Haldimand County, Ontario. The Project is being proposed by Samsung Renewable Energy Inc. and if approved, would consist of a 140 MW wind farm, a 100 MW solar farm, a transmission line and other project associated infrastructure.

The Renewable Energy Approval (REA) process has been initiated for the Project in accordance with Ontario Regulation 359/09 (O. Reg 359/09). In accordance with Section 29.(1) O. Reg 359/09, Stantec is required to conduct a water assessment consisting of a records review and site investigation for the Project location (please see the attached map). As such, we are requesting any information your agency may have with respect to the following within the Project location:

- The location and classification of all permanent and intermittent streams including drainage ditches;
- The location of any lakes (including the average annual high water mark) other than a Lake Trout lake that is at or above development capacity;
- The location of any Lake Trout lakes that are at or above development capacity including the average annual high water mark;
- The location of any seepage areas;
- Watershed reports which should be considered in our assessment of natural heritage features; and,
- Any fisheries related data for waterbodies (including species at risk) within the Project location.

June 18, 2010

Page 2 of 2

Reference: Grand Renewable Energy Park – Request for Information

We look forward to working with you, and obtaining your valuable input, and a Project representative will be in contact with you shortly to determine the best way to obtain the above noted information. In addition, please contact the undersigned if you require any additional information (including digital mapping) to assist in providing the requested information.

Sincerely,

STANTEC CONSULTING LTD.

A handwritten signature in black ink, appearing to read 'Rob Nadolny', written in a cursive style.

Rob Nadolny
Senior Project Manager
Tel: (519) 836-6050
Fax: (519) 836-2493
Rob.nadolny@stantec.com

Attachment: Project Location Map

CC: Lidy Romanuk, Haldimand County
Heather Surette, Long Point Region Conservation Authority
Heather Riddell, Ministry of Natural Resources, Aylmer District

Friedl, Susanne

From: Nadolny, Rob
Sent: Wednesday, June 23, 2010 8:55 AM
To: 'Drew Cherry'
Cc: Kozak, Mark; Candido, Mike
Subject: RE: Grand Renewable Energy Park - Notice of a Proposal to Engage in a Project
Attachments: Request for Info - GRCA - June 18 2010.pdf; 60960577_Fig1_0_ProjectLocationMap_20100601_PW.pdf

Good morning Drew,

Thank you very much for your letter of June 16, 2010, and the attached maps, which are very helpful. We would like to obtain the mapping information as GIS files for use in the Natural Heritage Assessment we are completing for the project.

Can you please let us know how we can obtain this information from the GRCA?

Also, further to the attached letter that was mailed to you last week, I know the GRCA has accumulated quite a bit of knowledge and information about the watershed. Do you have a list of publications or documents that you could provide to us, or recommend certain GRCA documents, that would be useful in our environmental studies for the wind and solar project?

Thanks,
Rob

From: Nadolny, Rob
Sent: Friday, June 18, 2010 7:56 AM
To: Drew Cherry
Cc: Fred Natolochny
Subject: RE: Grand Renewable Energy Park - Notice of a Proposal to Engage in a Project

Great, thanks Drew. We'll be sending a letter your way soon that describes some of the info we are gathering for the project and will be in touch to ensure we include within the REA studies things of interest to the GRCA.

Thanks again for the introduction.

Rob

Rob Nadolny
Senior Project Manager, Team Leader
Stantec
Suite 1 - 70 Southgate Drive
Guelph ON N1G 4P5
Ph: (519) 836-6050
Fx: (519) 836-2493
rob.nadolny@stantec.com
stantec.com

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 Please consider the environment before printing this email.

From: Drew Cherry [mailto:dcherry@grandriver.ca]
Sent: Tuesday, June 15, 2010 9:56 AM
To: Nadolny, Rob
Cc: Fred Natolochny
Subject: Grand Renewable Energy Park - Notice of a Proposal to Engage in a Project

Hello Rob,

I am now in receipt of the above noted Notice of a Proposal to Engage in a Project – Grand Renewable Energy Park which was recently forwarded to Liz Yerex at the Grand River Conservation Authority. I just wanted to introduce myself and advise you that I will be coordinating the GRCA review and response to the project proposal. As you already know permits may be required from the Grand River Conservation Authority for components of the project that are carried out within our watershed.

My contact information is as follows:

e-mail dcherry@grandriver.ca
phone 519-621-2763 ext. 2237
fax 519-621-4945
mail 400 Clyde Road, P.O. 729, Cambridge, ON N1R 5W6

Regards,

Drew Cherry
Resource Planner
Grand River Conservation Authority
400 Clyde Rd.
Cambridge, Ontario
N1R 5W6
(519) 621-2763 EXT. 2237

Meeting Notes



Stantec

Samsung Grand Renewable Energy Park GRCA/LPRCA Update and Permit Discussion Meeting

Date/Time: October 26, 2010 / 10:00
Place: GRCA Head Office, 400 Clyde Rd. Cambridge, ON
Next Meeting:
Attendees: Drew Cherry, GRCA
Jennifer Wright, GRCA
Tony Zammit, GRCA
Robert Messier, GRCA
Ben Hodi, LPRCA
Adam Rosso, Samsung
Marnie Dawson, Samsung
Valerie Wyatt, Stantec
Chris Powell, Stantec

Absentees:
Distribution: Attendees/Absentees
Larry Galajda, Stantec
Rob Nadolny, Stantec

No.	Item	Action By	Due Date
1	Introductions		
2	Project Overview AR provided an overview of the project, including wind, solar, sub-station and transmission components. Map showing the layout of the turbines, access roads, solar lands and transmission lines in relation to natural features was provided for discussion during the meeting. AR confirmed that refinements to the layout of the wind turbines, transmission lines and access roads are subject to minor revisions based on results of field investigations and archeology.		

One Team. Infinite Solutions.

**Samsung Grand Renewable Energy Park
GRCA/LPRCA Update and Permit Discussion Meeting**

Page 2 of 4

No.	Item	Action By	Due Date
	GREP layout to be provided to the GRCA/LPRCA for review and input following any revisions resulting from completion of field investigations. Stantec to discuss with Samsung and adjust prior to submission.	Stantec and Samsung	1 ½ months
3	Roles and Responsibilities		
	MNR to review NHA and EIS through REA Application process, but GRCA/LPRCA Permits required for development or interference within a regulated area.		
	Amendments to the Conservation Authorities Act (s28.13.1) restrict decision making by CAs on grounds of “conservation of land”. Decisions by CAs for renewable energy projects are based on control of pollution, flooding, erosion and dynamic beaches (i.e. hazards not ecosystem protection).		
	DC confirmed that hydrologic impacts on wetlands will be considered as part of their decision making process (maintaining flows to wetlands and avoiding loss of hydrologic function).		
	Copy of the NHA / EIS will be submitted with the Permit applications to the GRCA/LPRCA for context.	Stantec	Spring 2011
	GRCA / LPRCA will review project on behalf of DFO through existing agreements where Permits are required. Additional information to be provided with applications.	Stantec	Spring 2011
	Avoidance (first) and mitigation of impacts to fish habitat are necessary to avoid HADD. Information regarding pike spawning habitat, temperature and flow regime and fish species (presence/absence) should be part of the submission.	Stantec	Spring 2011
4	Permit Requirements and Process		
	Permit application required for each individual property owner, where Permits are required.		
	Stantec / Samsung may act as owner’s agent (i.e. signature on Permit application) provided landowner’s		

**Samsung Grand Renewable Energy Park
GRCA/LPRCA Update and Permit Discussion Meeting**

Page 3 of 4

No.	Item	Action By	Due Date
	agreement is attached.		
	One application can be submitted for all ORC properties, should they choose to apply for a Permit. Optional but advantageous in terms of timing (DFO review) and optics.	AR to discuss with ORC	
	One application may be submitted for the transmission line that occurs on multiple County owned properties.		
	GRCA fees to be confirmed by DC subsequent to discussions with Fred Natolochny and Nancy Davy. Option may exist to provide one "major" fee for all private properties or "minor" fee for each individual property, or combination. One fee may be submitted for all ORC properties and one fee may be submitted for all County properties. Payment by one cheque preferred.	DC	
	LPRCA requires separate fee for each property.		
	Permit applications should include plans identifying the layout of the wind farm components and construction details in relation to natural features (wetland, woodlands, watercourses, floodplain, steep slopes) and regulation limit (including allowances). Example to follow is the Stantec submission for the Melancthon wind farm.		
	Approval timing will be based on the number of permits but goal for review and decision is 6 weeks (depends on completeness of application and Board schedule).		
	Anticipated submission of Permit applications is Spring 2011.		
5	Additional Information and Local Knowledge		
	JW - Pike spawning habitat along many of the grassed waterways as long as there are no migration obstacles from the Grand River.		
	TZ - Short-eared owls are known to occur at		

**Samsung Grand Renewable Energy Park
GRCA/LPRCA Update and Permit Discussion Meeting**

Page 4 of 4

No.	Item	Action By	Due Date
	Taquanyah C.A. (winter record)		
	TZ - Two Bald Eagles nests in Study Area at Byng Island (near Dunnville) and Dunnville Marsh (east side of the Grand R.)		
	TZ - Virginia Mallow (S1 plant species, Endangered under ESA) is known to occur at Taquanyah C.A.		
	JW - DFO SARA mapping of fish and mussels at risk will be forwarded to DFO for confirmation – several mussel and fish species noted within the Grand River and some tributaries within the Study Area on 2010 maps (i.e. Eastern Sand Darter)	JW	
	RM - Pike spawning occurs within Evans Creek		
	RM - Consideration for cross-culverts to pass surface drainage beneath access roads is recommended to accommodate relatively large catchments without well-defined channels		
	TZ – offered to review and confirm wetland boundaries and driplines in the field		

The meeting adjourned at 11:45 p.m.

The foregoing is considered to be a true and accurate record of all items discussed. If any discrepancies or inconsistencies are noted, please contact the writer immediately.

STANTEC CONSULTING LTD.

Chris Powell, M.A.
Project Manager, Environmental Planner
Tel: (519) 585-7416
Fax: (519) 585-4239
chris.powell@stantec.com

Friedl, Susanne

From: Drew Cherry <dcherry@grandriver.ca>
Sent: Thursday, December 16, 2010 3:15 PM
To: Powell, Chris; 'bhodi@lprca.on.ca'
Cc: Wyatt, Valerie; Kozak, Mark; Nadolny, Rob; Galajda, Larry
Subject: RE: Samsung GREP Consultation - GRCA/LPRCA Minutes

Hi Chris,

Thanks for sending me a copy of the minutes for our meeting of October 26, 2010. I have sent a copy on to the GRCA reps who were in attendance, for their review and comments.

Regarding the fee structure for the permit applications, the GRCA is prepared to charge one fee for all work on the County's land within our watershed, and one fee for the ORC lands, should they choose to submit a permit for our review and approval. With respect to privately owned lands, we will charge an individual fee for each property owner. The amount of the fee for public and private lands will be based on the Fee Schedule the GRCA issued in August 2010. Depending of the level of risk for each property, the complexity of the work being undertaken on each property and the type of support documents/studies required to accompany each permit application, the fees could vary from minor to major.

Once we have a better understanding of the number and complexity of permits to be submitted we can advise you further regarding the fees to be submitted.

I trust this information is of assistance.

Regards,
Drew

Drew Cherry
Resource Planner
Grand River Conservation Authority
400 Clyde Rd.
Cambridge, Ontario
N1R 5W6
(519) 621-2763 EXT. 2237

From: Powell, Chris [mailto:Chris.Powell@stantec.com]
Sent: Thursday, December 16, 2010 1:30 PM
To: Drew Cherry; 'bhodi@lprca.on.ca'
Cc: Wyatt, Valerie; Kozak, Mark; Nadolny, Rob; Galajda, Larry
Subject: Samsung GREP Consultation - GRCA/LPRCA Minutes

Drew / Ben,

I hope this email finds you well...and likely anxiously awaiting the holiday season.

Further to our meeting on October 26, 2010, attached (although belated) are the minutes that we have prepared to summarize the major points and action items stemming from our discussion. Please review and advise of any suggested changes, edits or otherwise that you feel should be made at your earliest convenience.

Sorry for the delay. Please circulate to your staff who were in attendance and give me a call if you have any questions.

Sincerely,

Chris

Chris Powell, M.A.

Project Manager / Environmental Planner

Stantec Consulting Ltd.

49 Frederick Street

Kitchener ON N2H 6M7

Ph: (519) 585-7416

Fx: (519) 579-4239

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chris.powell@stantec.com

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Friedl, Susanne

From: Drew Cherry <dcherry@grandriver.ca>
Sent: Wednesday, December 22, 2010 9:16 AM
To: Powell, Chris; 'bhodi@lprca.on.ca'
Cc: Wyatt, Valerie; Kozak, Mark; Nadolny, Rob; Galajda, Larry
Subject: RE: Samsung GREP Consultation - GRCA/LPRCA Minutes

Hi Chris,

Thanks again for sending us the minutes from our meeting of October 26th. In reviewing the minutes, Tony Zammit has requested a few minor modifications.

In Section 3 under Roles and Responsibilities, Tony has requested the wording be modified to reflect our current wetland policy i.e. the proposal should seek to avoid any loss of wetland area and function.

In Section 4, Permit Requirements and Process, it was suggested that permit applications need to be supported by site-specific information about wetland hydrology and ecology. The relationship between hydrology and the habitat requirements of aquatic and terrestrial species at risk needs to be addressed. The presence of species at risk should be confirmed by OMNR and DFO. Generally speaking, the quantity and quality of runoff toward significant or critical habitat areas should be maintained, restored or enhanced.

We recommend that Terms of Reference be developed to support the preparation of the EIS. Preparation and submission of Terms of Reference will help ensure a complete application to the GRCA in accordance with our EIS Guidelines and Submission Standards. The Terms of Reference and the EIS should clearly identify the regulatory framework and jurisdictions (e.g. Provincial Endangered Species Act, Federal Species at Risk Act, and the Conservation Authorities Act) and should address issues and concerns raised by OMNR and GRCA.

I trust these comments will be of assistance.

Regards,
Drew

Drew Cherry
Resource Planner
Grand River Conservation Authority
400 Clyde Rd.
Cambridge, Ontario
N1R 5W6
(519) 621-2763 EXT. 2237

From: Powell, Chris [mailto:Chris.Powell@stantec.com]
Sent: Thursday, December 16, 2010 1:30 PM
To: Drew Cherry; 'bhodi@lprca.on.ca'
Cc: Wyatt, Valerie; Kozak, Mark; Nadolny, Rob; Galajda, Larry
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Sorry for the delay. Please circulate to your staff who were in attendance and give me a call if you have any questions.

Sincerely,

Chris

Chris Powell, M.A.

Project Manager / Environmental Planner

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Stantec Consulting Ltd.
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Guelph ON N1G 4P5
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Fax: (519) 836-2493

Stantec

July 19, 2011
File: 160960577

Grand River Conservation Authority
400 Clyde Road
Cambridge ON N1R 5W6

Attention: Drew Cherry, Resource Planner

Dear Mr. Cherry:

Reference: Grand Renewable Energy Park – Release of Draft Renewable Energy Approval Reports

Samsung C&T (Samsung), Pattern Energy (Pattern), and Korea Power Electric Corporation (KEPCO) (together, these companies referred to herein as “SPK”) are proposing to develop, construct, and operate a wind and solar energy project as part of the Grand Renewable Energy Park, in Haldimand County. SPK is planning to engage in this renewable energy project in respect of which the issuance of Renewable Energy Approvals (REA) is required. The proposal to engage in the project and the project itself are subject to the provisions of the *Environmental Protection Act (ACT)* Part V.0.1 and Ontario Regulation 359/09 (O. Reg. 359/09).

On behalf of SPK, Stantec is pleased to provide you with a copy of the Draft REA Reports for your review and comment. As required under O. Reg. 359/09 and the Ministry of Natural Resources (MNR) *Approval and Permitting Requirements Document (APRD) for Renewable Energy Projects*, this Draft REA Reports package includes the following draft reports:

- Project Description Report – as outlined in item 10 of Table 1 of O. Reg. 359/09;
- Natural Heritage Assessment Report – as required under sections 24, 25, 26, 27 and 28 of O. Reg. 359/09 and section 6.3 of the MNR’s Requirements Document;
- Construction Plan Report – as outlined in item 1 of Table 1 of O. Reg. 359/09 and section 6.7 of the MNR’s Requirements Document;
- Design and Operations Report – as outlined in item 4 of Table 1 of O. Reg. 359/09 and section 6.6 of the MNR’s Requirements Document;
- Decommissioning Plan Report – as outlined in item 3 of Table 1 of O. Reg. 359/09 and section 6.8 of the MNR’s Requirements Document;
- Environmental Impact Study – as required under section 38 of O. Reg. 359/09;
- Wind Turbine Specifications Report – as outlined in item 13 of Table 1 of O. Reg. 359/09;
- Archaeological and Heritage Reports - as required under sections 19, 20, 21, 22 and 23 of O.Reg. 359/09;

July 19, 2011
Mr. Cherry
Page 2 of 2

Reference: Grand Renewable Energy Park – Release of Draft Renewable Energy Approval Reports

- Water Body and Water Assessment Report - as required under sections 29, 30 and 31 of O. Reg. 359/09. Further information related to potential effects and mitigation measures to water bodies, as required under sections 39, 40, 44, and 45 of O. Reg. 359/09 is provided in the Water Body and Water Assessment Report, Construction Plan Report and Design and Operations Report; and,
- Project Summary Report – as outlined in section 17. (1)3 of O. Reg. 359/09.

Copies of the MNR's confirmation letter of the Natural Heritage Assessment/Environmental Impact Study and the Ministry of Tourism and Culture written comments/confirmation have also been provided within the package.

As described in the attached Notice of Public Meeting, these reports are being provided for review and comment from **July 23, 2011 to September 22, 2011**. To learn more about the project proposal, the public meeting, and to communicate questions regarding the attached material, please contact the project team via e-mail at GrandRenewable@SamsungRenewableEnergy.ca or by phone at 1-877-536-6050 or 1-519-836-6050. Written comments can also be directed to the undersigned.

We respectfully request all comments to be provided by no later than September 22, 2011 for their inclusion within SPK's Renewable Energy Approval application.

Sincerely,

STANTEC CONSULTING LTD.



Mark Kozak, BES
Project Manager
Tel: (519) 836-6050
Fax: (519) 836-2493
mark.kozak@stantec.com

Attachment: Draft Renewable Energy Approval Report package
Notice of Public Meeting

c. Adam Rosso, Samsung Renewable Energy Inc.



August 30, 2011

RECEIVED

SEP 08 2011

Stantec Consulting Limited
Suite 1-70 Southgate Drive
Guelph, ON N1G 4P5

Attention: Mark Kozak, Project Manager

Subject: Grand Renewable Energy Park – Release of draft Renewable Energy Approval Reports

Staff of the Grand River Conservation Authority have now had an opportunity to review the Grand Renewable Energy Park – Natural Heritage Assessment and Environmental Assessment Study, Volumes I-III, prepared by Stantec, July 2011. Staff acknowledge that the current report was prepared in accordance with Sections 28 (2) and 38 (2) (b) of the Renewable Energy Act, and that all applicable background information and field protocols were used in the preparation of this report (see letter from Ian Hagman, District Manager, Guelph District, Ontario Ministry of Natural Resources, dated June 30, 2011).

GRCA staff note that with the exception of Figure 2.1 Recognized Natural Features, much of the mapping in Volume II of the current report does not include a complete illustration of the features that are Regulated by the GRCA under Ontario Regulation 150/06 of the Conservation Authorities Act. Staff note that the GRCA's floodplain limits and steep slopes do not appear on individual tiles. Please note that all Regulated features – including wetlands, watercourses, floodplains and steep slopes, and their associated development allowances i.e. the Regulation limit, must be clearly mapped and considered when preparing permit applications.

The boundary of all Regulated features and applicable Regulation limits as currently defined by the GRCA's consolidated policies should be plotted on detailed site plans where applicable. Detailed site plans will be required where (temporary &/or permanent) construction and/or grading is proposed to occur within an area Regulated by the GRCA.

Based on the information presented in the current report, the following turbines and/or access roads are proposed to be situated within an area Regulated by the GRCA:

Turbines No. 1, 4-9, 11, 15, 17-19, 21, 24-26, 28-30, 33-38, 41-43, 45-46, 49-51, 53, 55, 57, 59, 64-69.

As previously discussed, individual site plans should be prepared on a property by property basis for the purpose of obtaining Conservation Authority permits. Site plans should also show:

- The location of each wind turbine,
- UTM coordinates for each wind turbine,

- The location of all water crossings, whether temporary or permanent,
- The location of municipal drain crossings and classification of municipal drains (cold water/warm water),
- Mitigation measures to ensure fish passage where applicable,
- Set up/lay down areas, construction areas, both temporary and permanent,
- The location of all stockpile areas, refuelling areas and crane-walk paths if applicable,
- Existing and proposed grading contours where grading is proposed within 30 metres of a Regulated feature,
- Erosion and sediment control measures and applicable setbacks,
- Culvert lengths, diameters and elevations where culverts are being installed or replaced,
- The location of heavy duty sediment/silt fencing to delineate setback limits adjacent to wetlands and watercourses,
- Site plans to be submitted at a scale suitable for reviewing the above noted features and conditions.

During our review, staff noted that additional wetland areas have been identified and mapped during the current study. These are areas that were not previously identified or mapped by the GRCA or MNR. Provided the wetland boundaries were delineated and mapped in accordance with the most recent edition of the Ontario Wetland Evaluation System, these wetlands will be considered supplemental to the wetland information we currently have and should be used when preparing permit applications. Is Stantec's wetland layer available electronically in a GIS format? If so can the GIS layer be provided to the GRCA?

Where construction will occur within 30 metres of a wetland, a site visit with GRCA staff may be required to verify the wetland boundary and confirm that the proposed setbacks are adequate to protect the hydrologic function of the wetland. It appears that some access roads are proposed to be constructed and potentially widened through wetlands (e.g. T6, T19, T50). Road construction above grade would necessitate side slopes, which could intrude into the wetland feature. As the GRCA wetland policy advocates no loss of wetland area within the watershed, we would recommend an alternate access route to avoid wetland impacts. We request that setback distances from wetlands and other Regulated natural hazard features be maximized wherever possible.

According to GRCA resource mapping information, access roads for Turbines No. 23, 41, 45, 46, 57, 67 will cross permanent or intermittent watercourses and their associated floodplains, some of which are characterized by steep slopes. Based on information obtained from OMNR Guelph District, classified surface water bodies in the study area support warm water fish communities. Where avoidance of these features is not possible, and where an existing crossing does not exist or is not sufficiently wide, work should be carried out during dry conditions or outside the warm water fisheries timing window (i.e. no in-water work from April 1 to June 30 of any given year).

According to DFO's Species At Risk (SAR) mapping for fishes and mussels, there is no record of Schedule 1 fish species within the study area. Critical habitat has been mapped for several

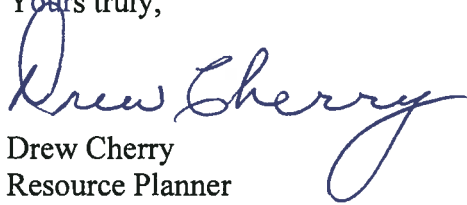
species of mussel that are listed on Schedule 1 of the Federal Species At Risk Act, however, it appears that none of these tributaries will be crossed.

Comments Provided in an Advisory Capacity:

We have noted that sand will be used to backfill collector line trenches. Sand is highly erodible and will be difficult to contain if exposed to periodic flooding. We recommend the top portion of collector line trenches be backfilled with a sand-gravel mixture to reduce erosion impacts.

We trust the above noted comments are of assistance. Should you have any questions or require additional information, please contact me at the number noted below.

Yours truly,



Drew Cherry
Resource Planner
Grand River Conservation Authority
519-621-2763 ext. 2237

c.c. Tony Zammit, Grand River Conservation Authority
Crystal Allan, Grand River Conservation Authority
Ben Hodi, Long Point Region Conservation Authority
Adam Rosso, Samsung Renewable Energy. 55 Standish Crt, Mississauga, ON L5R 4B2

W1 - Turbine Locations

- LEGEND**
- WATERSHED BOUNDARY (GRCA)
 - UTILITY LINE (NRV/S)
 - ROADS-ADDRESS (MNR)
 - RAILWAY (NRV/S)
 - MUNICIPAL BOUNDARY (GRCA)
 - CLASSIFIED STREAMS - NEW (NRV/S)
 - COLD WATER
 - COOL WATER
 - UNKNOWN
 - WARM WATER
 - DRAINAGE-NETWORK (GRCA)
 - SIGNIF. ECOLOGICAL COMMUNITY
 - Wetland, Unevaluated
 - FLOODPLAIN (GRCA)
 - ENGINEERED
 - APPROXIMATE
 - ESTIMATED
 - WETLAND (GRCA)
 - SLOPE VALLEY (GRCA)
 - STEEP
 - OVERSTEEP
 - SLOPE EROSION (GRCA)
 - STEEP
 - OVERSTEEP
 - TOE
 - WETLAND (NRV/S)
 - PROVINCIAL SIGNIFICANT
 - OTHER
 - PARKS (GRCA)
 - PROPERTY (GRCA)
 - REGULATION LIMIT (GRCA)
 - DRAINAGE-POLY (NRV/S)
 - BUILT-UP (MNR)
 - BUILT-UP PERVIOUS
 - BUILT-UP IMPERVIOUS

GRCA Disclaimer

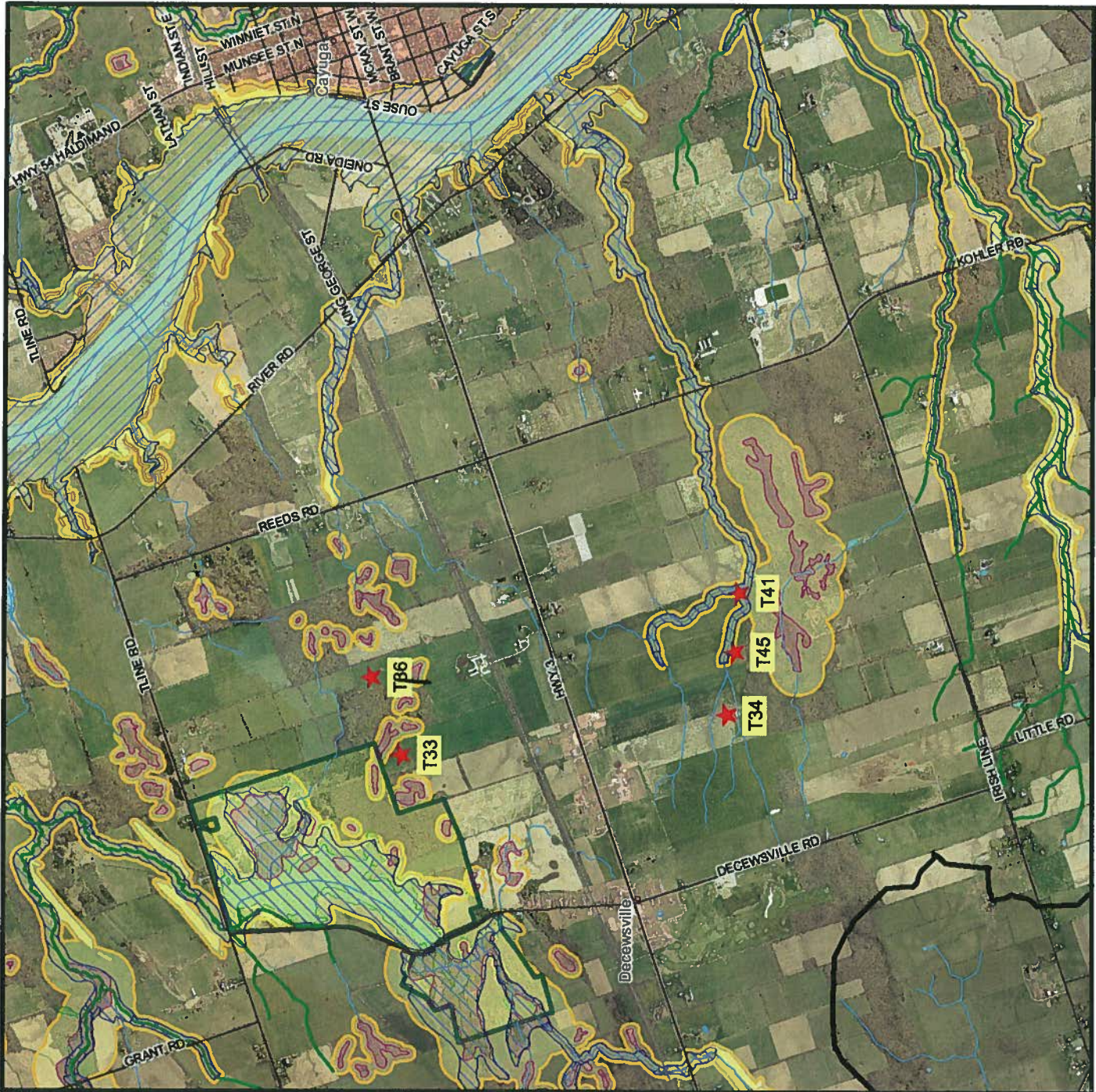
This map is for illustrative purposes only. Information contained hereon is not a substitute for professional review or a site survey and is subject to change without notice. The Grand River Conservation Authority takes no responsibility for, nor guarantees, the accuracy of the information contained on this map. Any interpretations or conclusions drawn from this map are the sole responsibility of the user.

The source for each data layer is shown in parentheses in the map legend. For a complete listing of sources and citations go to:

<http://grines.grandriver.ca/docs/SourcesCitations/L.htm>

0 350 700 1050 1400 m.

NAD 1983, UTM Zone 17 Scale: 1:23,831



THIS MAP IS NOT TO BE USED FOR NAVIGATION

W2 - Turbine Locations

LEGEND

- WATERSHED BOUNDARY (GRCA)
- UTILITY LINE (NRV/S)
- ROADS-ADDRESSED (MNR)
- RAILWAY (NRV/S)
- MUNICIPAL BOUNDARY (GRCA)
- CLASSIFIED STREAMS - NEW (NRV/S)
- COLD WATER
- COOL WATER
- WARM WATER
- UNKNOWN
- DRAINAGE-NETWORK (GRCA)
- SIGNIF. ECOLOGY AREA (NRV/S)
- Significant Ecological Community
- Wetland, Unevaluated
- FLOODPLAIN (GRCA)
- ENGINEERED
- APPROXIMATE
- ESTIMATED
- WETLAND (GRCA)
- SLOPE VALLEY (GRCA)
- STEEP
- OVERSTEEP
- SLOPE EROSION (GRCA)
- STEEP
- OVERSTEEP
- TOE
- WETLAND (NRV/S)
- PROVINCIAL SIGNIFICANT
- OTHER
- PARKS (GRCA)
- PROPERTY (GRCA)
- REGULATION LIMIT (GRCA)
- DRAINAGE-POLY (NRV/S)
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- BUILT-UP PERVIOUS
- BUILT-UP IMPERVIOUS

GRCA Disclaimer

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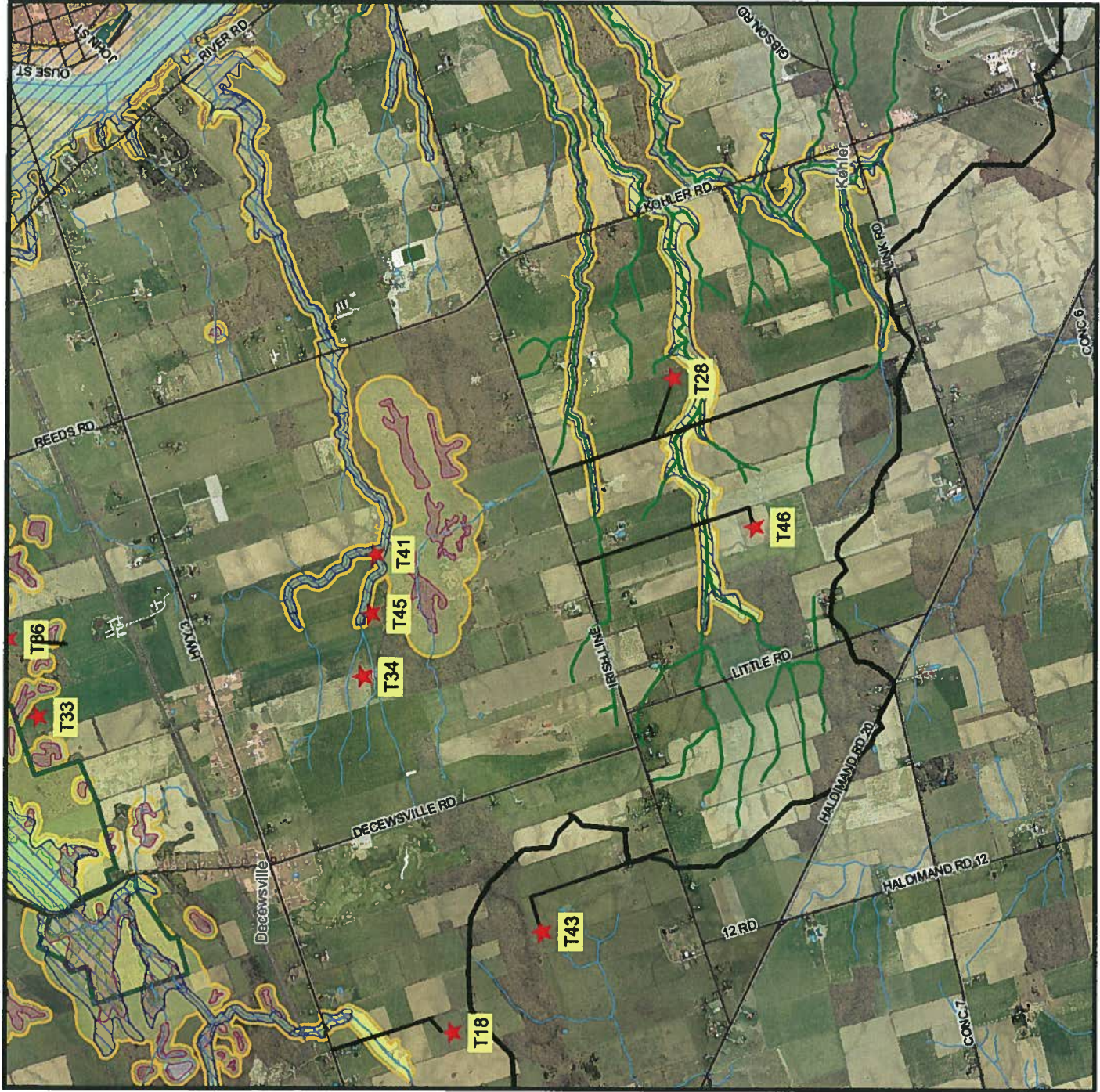
The source for each data layer is shown in parentheses in the map legend. For a complete listing of sources and citations go to:

<http://grca.grandriver.ca/docs/Sources/Citations1.htm>

0 350 700 1050 1400 m.

NAD 1983, UTM Zone 17 Scale 1:29,831

Scale 1:29,831



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W3 - Turbine Locations

- LEGEND**
- WATERSHED BOUNDARY (GRCA)
 - UTILITY LINE (NRVIS)
 - ROADS-ADDRESSED (MNR)
 - RAILWAY (NRVIS)
 - MUNICIPAL BOUNDARY (GRCA)
 - CLASSIFIED STREAMS - NEW (NRVIS)
 - COLD WATER
 - COOL WATER
 - UNKNOWN
 - WARM WATER
 - DRAINAGE-NETWORK (GRCA)
 - SIGNIF. ECOLOGY AREA (NRVIS)
 - Significant Ecological Community
 - Wetland, Unvegetated
 - FLOODPLAIN (GRCA)
 - ENGINEERED
 - APPROXIMATE
 - ESTIMATED
 - WETLAND (GRCA)
 - SLOPE VALLEY (GRCA)
 - STEEP
 - OVERSTEEP
 - SLOPE EROSION (GRCA)
 - STEEP
 - OVERSTEEP
 - TOE
 - WETLAND (NRVIS)
 - PROVINCIAL SIGNIFICANT
 - OTHER
 - PARKS (GRCA)
 - PROPERTY (GRCA)
 - REGULATION LIMIT (GRCA)
 - DRAINAGE-POLY (NRVIS)
 - BUILT-UP (MNR)
 - BUILT-UP PERVIOUS
 - BUILT-UP IMPERVIOUS

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W7 - Turbine Lcoations

- LEGEND**
- WATERSHED BOUNDARY (GRCA)
 - UTILITY LINE (NRV/S)
 - ROADS-ADDRESSED (MNR)
 - RAILWAY (NRV/S)
 - MUNICIPAL BOUNDARY (GRCA)
 - CLASSIFIED STREAMS - NEW (NRV/S)
 - COLD WATER
 - COOL WATER
 - UNKNOWN
 - WARM WATER
 - DRAINAGE-NETWORK (GRCA)
 - SIGNIF. ECOLOGY AREA (NRV/S)
 - Significant Ecological Community
 - Wetland, Unwaterfatted
 - FLOODPLAIN (GRCA)
 - ENGINEERED
 - APPROXIMATE
 - ESTIMATED
 - WETLAND (GRCA)
 - SLOPE VALLEY (GRCA)
 - STEEP
 - OVERSTEEP
 - SLOPE EROSION (GRCA)
 - STEEP
 - OVERSTEEP
 - TOE
 - WETLAND (NRV/S)
 - PROVINCIALY SIGNIFICANT
 - OTHER
 - PARKS (GRCA)
 - PROPERTY (GRCA)
 - REGULATION LIMIT (GRCA)
 - DRAINAGE-POLY (NRV/S)
 - BUILT-UP (MNR)
 - BUILT-UP PERVIOUS
 - BUILT-UP IMPERVIOUS

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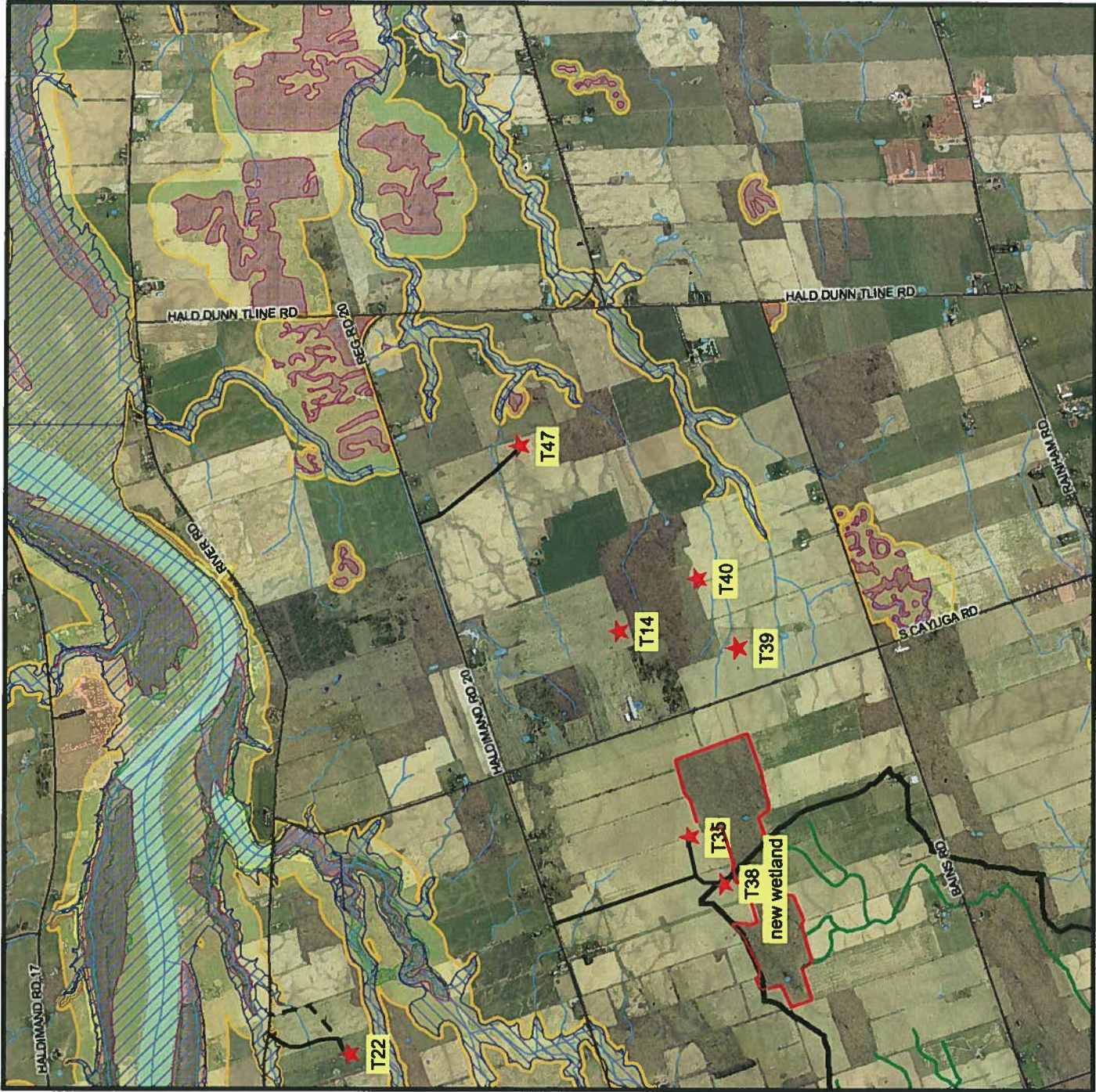
W11 - Turbine Locations

- LEGEND**
- WATERSHED BOUNDARY (GRCA)
 - UTILITY LINE (NRVRS)
 - ROADS-ADDRESS (MNR)
 - RAILWAY (NRVRS)
 - MUNICIPAL BOUNDARY (GRCA)
 - CLASSIFIED STREAMS - NEW (NRVRS)
 - COLD WATER
 - COOL WATER
 - UNKNOWN
 - WARM WATER
 - DRAINAGE-NETWORK (GRCA)
 - SIGNIF. ECOLOGY AREA (NRVRS)
 - Significant Ecological Community
 - Wetland, Unevaluated
 - FLOODPLAIN (GRCA)
 - ENGINEERED
 - APPROXIMATE
 - ESTIMATED
 - WETLAND (GRCA)
 - SLOPE VALLEY (GRCA)
 - STEEP
 - OVERSTEEP
 - SLOPE EROSION (GRCA)
 - STEEP
 - OVERSTEEP
 - TOE
 - WETLAND (NRVRS)
 - PROVINCIAL SIGNIFICANT
 - OTHER
 - PARKS (GRCA)
 - PROPERTY (GRCA)
 - REGULATION LIMIT (GRCA)
 - DRAINAGE-POLY (NRVRS)
 - BUILT-UP (MNR)
 - BUILT-UP PERVIOUS
 - BUILT-UP IMPERVIOUS

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0 350 700 1050 1400 m.
 NAD 1983, UTM Zone 17 Scale 1:29,831



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Grand River Conservation Authority
 Map created: August 24, 2011
 Prepared by: Tony Zammit

W12 - Turbine Locations

LEGEND

- WATERSHED BOUNDARY (GRCA)
- UTILITY LINE (NRVRS)
- ROADS-ADDRESSED (MNR)
- RAILWAY (NRVRS)
- MUNICIPAL BOUNDARY (GRCA)
- CLASSIFIED STREAMS - NEW (NRVRS)
- COLD WATER
- COOL WATER
- UNKNOWN
- WARM WATER
- DRAINAGE-NETWORK (GRCA)
- SIGNIF. ECOLOGY AREA (NRVRS)
- Significant Ecological Community
- Wetland, Unevaluated
- FLOODPLAIN (GRCA)
- ENGINEERED
- APPROXIMATE
- ESTIMATED
- WETLAND (GRCA)
- SLOPE VALLEY (GRCA)
- STEEP
- OVERSTEEP
- SLOPE EROSION (GRCA)
- STEEP
- OVERSTEEP
- TOE
- WETLAND (NRVRS)
- PROVINCIALLY SIGNIFICANT
- OTHER
- PARKS (GRCA)
- PROPERTY (GRCA)
- REGULATION LIMIT (GRCA)
- DRAINAGE-POLY (NRVRS)
- BUILT-UP (MNR)
- BUILT-UP PERVIOUS
- BUILT-UP IMPERVIOUS

GRCA Disclaimer

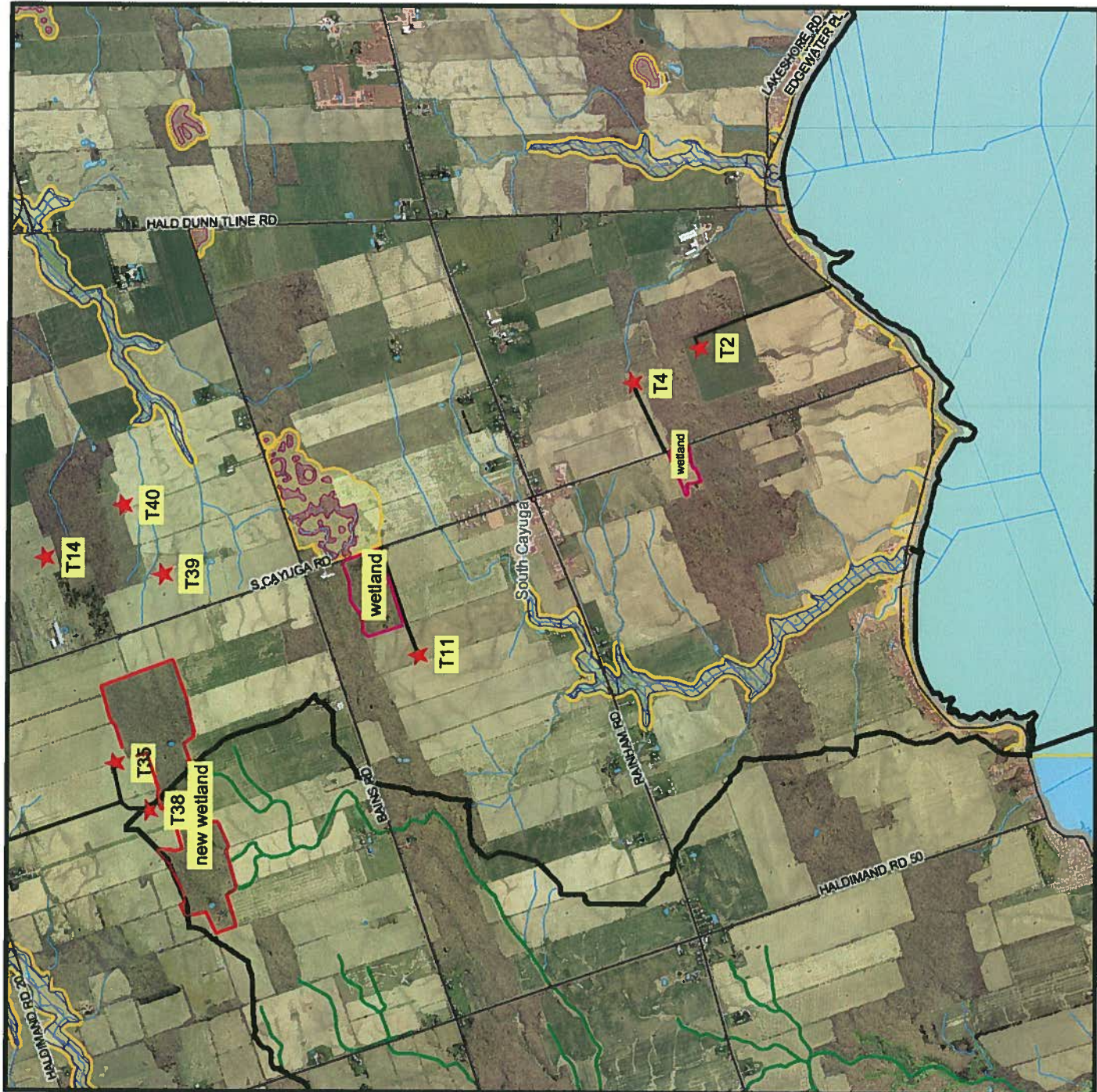
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0 350 700 1050 1400 m.

NAD 1983, UTM Zone 17 Scale 1:29,831



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W13 - Turbine Locations

- LEGEND**
- WATERSHED BOUNDARY (GRCA)
 - UTILITY LINE (NRVRS)
 - ROADS-ADDRESSED (MNR)
 - RAILWAY (NRVRS)
 - MUNICIPAL BOUNDARY (GRCA)
 - CLASSIFIED STREAMS - NEW (NRVRS)
 - COLD WATER
 - COOL WATER
 - UNKNOWN
 - WARM WATER
 - DRAINAGE-NETWORK (GRCA)
 - SIGNIF. ECOLOGY AREA (NRVRS)
 - Significant Ecological Community
 - Wetland, Unvegetated
 - FLOODPLAIN (GRCA)
 - ENGINEERED
 - APPROXIMATE
 - ESTIMATED
 - WETLAND (GRCA)
 - SLOPE VALLEY (GRCA)
 - STEEP
 - OVERSTEEP
 - SLOPE EROSION (GRCA)
 - STEEP
 - OVERSTEEP
 - TOE
 - WETLAND (NRVRS)
 - PROVINCIALY SIGNIFICANT
 - OTHER
 - PARKS (GRCA)
 - PROPERTY (GRCA)
 - REGULATION LIMIT (GRCA)
 - DRAINAGE-POLY (NRVRS)
 - BUILT-UP (MNR)
 - BUILT-UP PERVIOUS
 - BUILT-UP IMPERVIOUS

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W14 - Turbine Locations

- LEGEND**
- WATERSHED BOUNDARY (GRCA)
 - UTILITY LINE (NRV/S)
 - ROADS-ADDRESSED (MNR)
 - RAILWAY (NRV/S)
 - MUNICIPAL BOUNDARY (GRCA)
 - CLASSIFIED STREAMS - NEW (NRV/S)
 - COLD WATER
 - COOL WATER
 - UNKNOWN
 - WARM WATER
 - DRAINAGE-NETWORK (GRCA)
 - SIGNIF. ECOLOGY AREA (NRV/S)
 - Wetland, Unevaluated
 - FLOODPLAIN (GRCA)
 - ENGINEERED
 - APPROXIMATE
 - ESTIMATED
 - WETLAND (GRCA)
 - SLOPE VALLEY (GRCA)
 - STEEP
 - OVERSTEEP
 - SLOPE EROSION (GRCA)
 - STEEP
 - OVERSTEEP
 - TOE
 - WETLAND (NRV/S)
 - PROVINCIAL SIGNIFICANT
 - OTHER
 - PARKS (GRCA)
 - PROPERTY (GRCA)
 - REGULATION LIMIT (GRCA)
 - DRAINAGE-POLY (NRV/S)
 - BUILT-UP (MNR)
 - BUILT-UP PERVIOUS
 - BUILT-UP IMPERVIOUS

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NAD 1983, UTM Zone 17

Scale 1:29,831

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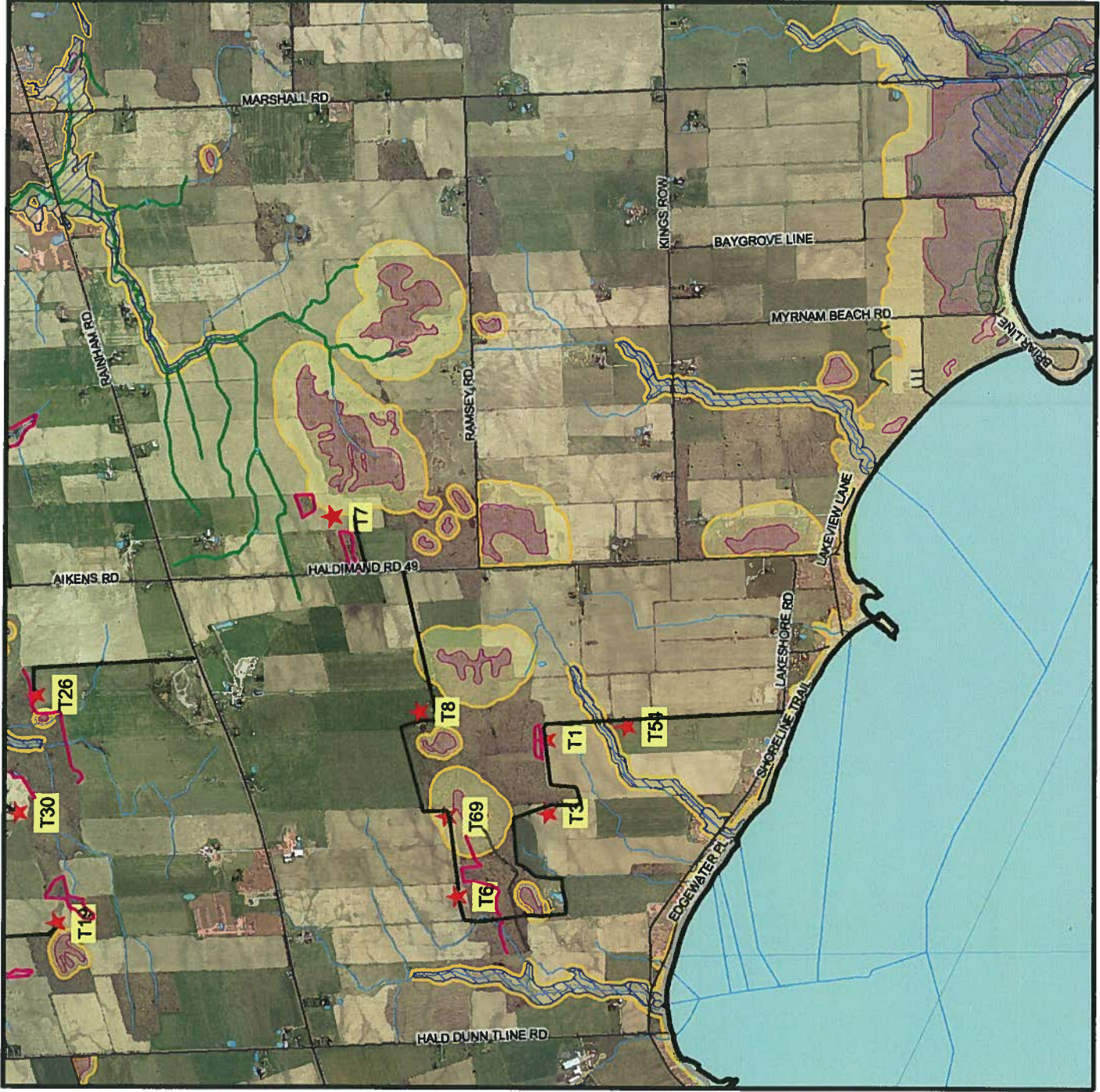
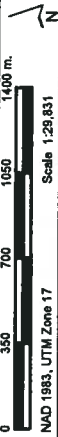


W15 - Turbine Locations

- LEGEND**
- WATERSHED BOUNDARY (GRCA)
 - UTILITY LINE (NRVRS)
 - ROADS-ADDRESSED (MNR)
 - RAILWAY (NRVRS)
 - MUNICIPAL BOUNDARY (GRCA)
 - CLASSIFIED STREAMS - NEW (NRVRS)
 - COLD WATER
 - COOL WATER
 - UNKNOWN
 - WARM WATER
 - DRAINAGE-NETWORK (GRCA)
 - SIGNIF. ECOLOGICAL AREA (NRVRS)
 - Significant Ecological Community
 - FLOODPLAIN (GRCA)
 - ENGINEERED
 - APPROXIMATE
 - ESTIMATED
 - WETLAND (GRCA)
 - SLOPE VALLEY (GRCA)
 - STEEP
 - OVERSTEEP
 - SLOPE EROSION (GRCA)
 - STEEP
 - OVERSTEEP
 - TOE
 - WETLAND (NRVRS)
 - PROVINCIAL SIGNIFICANT
 - OTHER
 - PARKS (GRCA)
 - PROPERTY (GRCA)
 - REGULATION LIMIT (GRCA)
 - DRAINAGE-POLY (NRVRS)
 - BUILT-UP (MNR)
 - BUILT-UP PERVIOUS
 - BUILT-UP IMPERVIOUS

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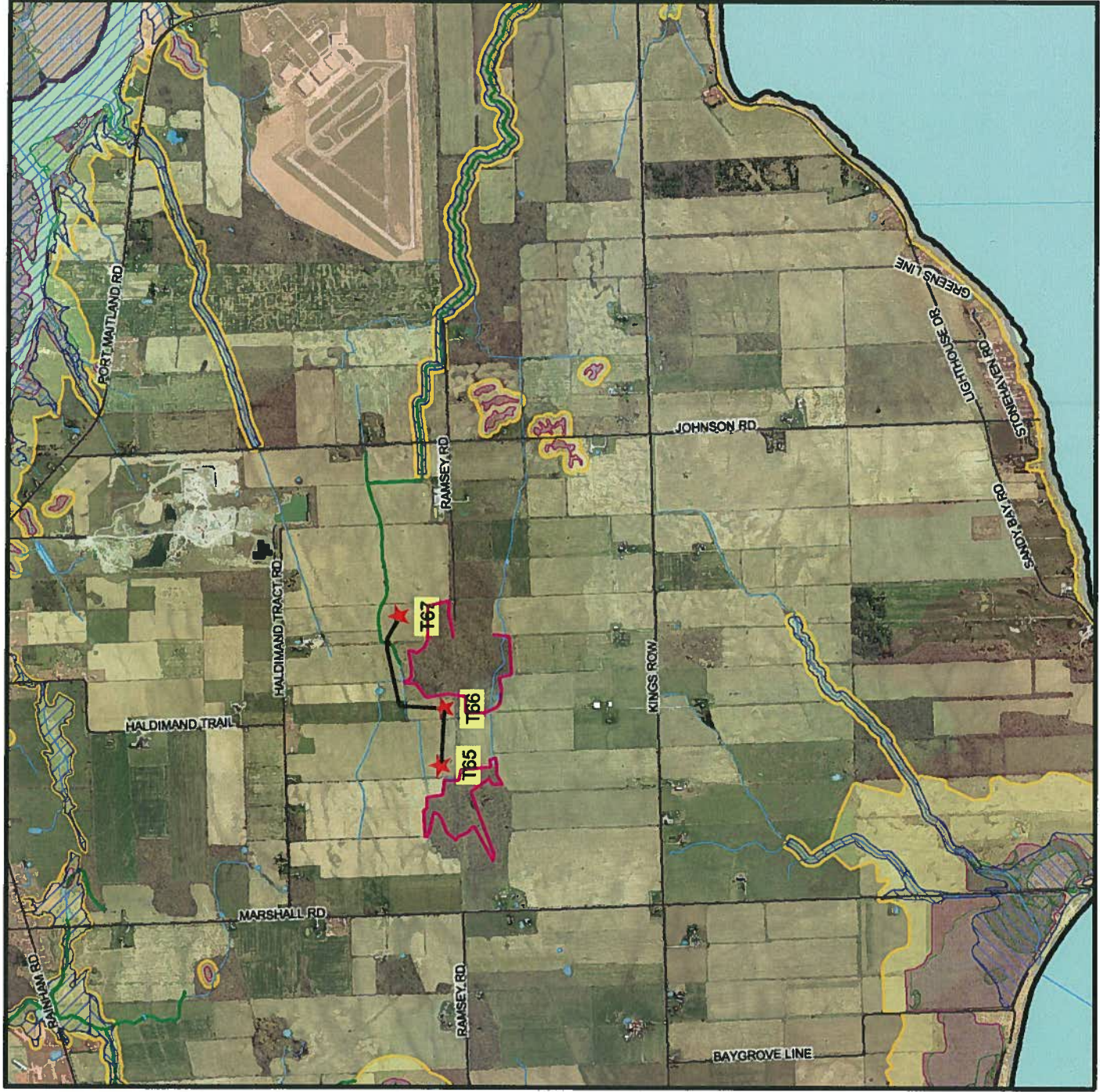


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W16 - Turbine Locations

- LEGEND**
- WATERSHED BOUNDARY (GRCA)
 - UTILITY LINE (NRV/S)
 - ROADS-ADDRESSED (MNR)
 - RAILWAY (NRV/S)
 - MUNICIPAL BOUNDARY (GRCA)
 - CLASSIFIED STREAMS - NEW (NRV/S)
 - COLD WATER
 - COOL WATER
 - UNKNOWN
 - WARM WATER
 - DRAINAGE-NETWORK (GRCA)
 - SIGNIF. ECOLOGY AREA (NRV/S)
 - Significant Ecological Community
 - Wetland, Unvegetated
 - FLOODPLAIN (GRCA)
 - ENGINEERED
 - APPROXIMATE
 - ESTIMATED
 - WETLAND (GRCA)
 - SLOPE VALLEY (GRCA)
 - STEEP
 - OVERSTEEP
 - SLOPE EROSION (GRCA)
 - STEEP
 - OVERSTEEP
 - TOE
 - WETLAND (NRV/S)
 - PROVINCIALLY SIGNIFICANT
 - OTHER
 - PARKS (GRCA)
 - PROPERTY (GRCA)
 - REGULATION LIMIT (GRCA)
 - DRAINAGE-POLY (NRV/S)
 - BUILT-UP (MNR)
 - BUILT-UP PERVIOUS
 - BUILT-UP IMPERVIOUS

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 NAD 1983, UTM Zone 17



W17 - Turbine Locations

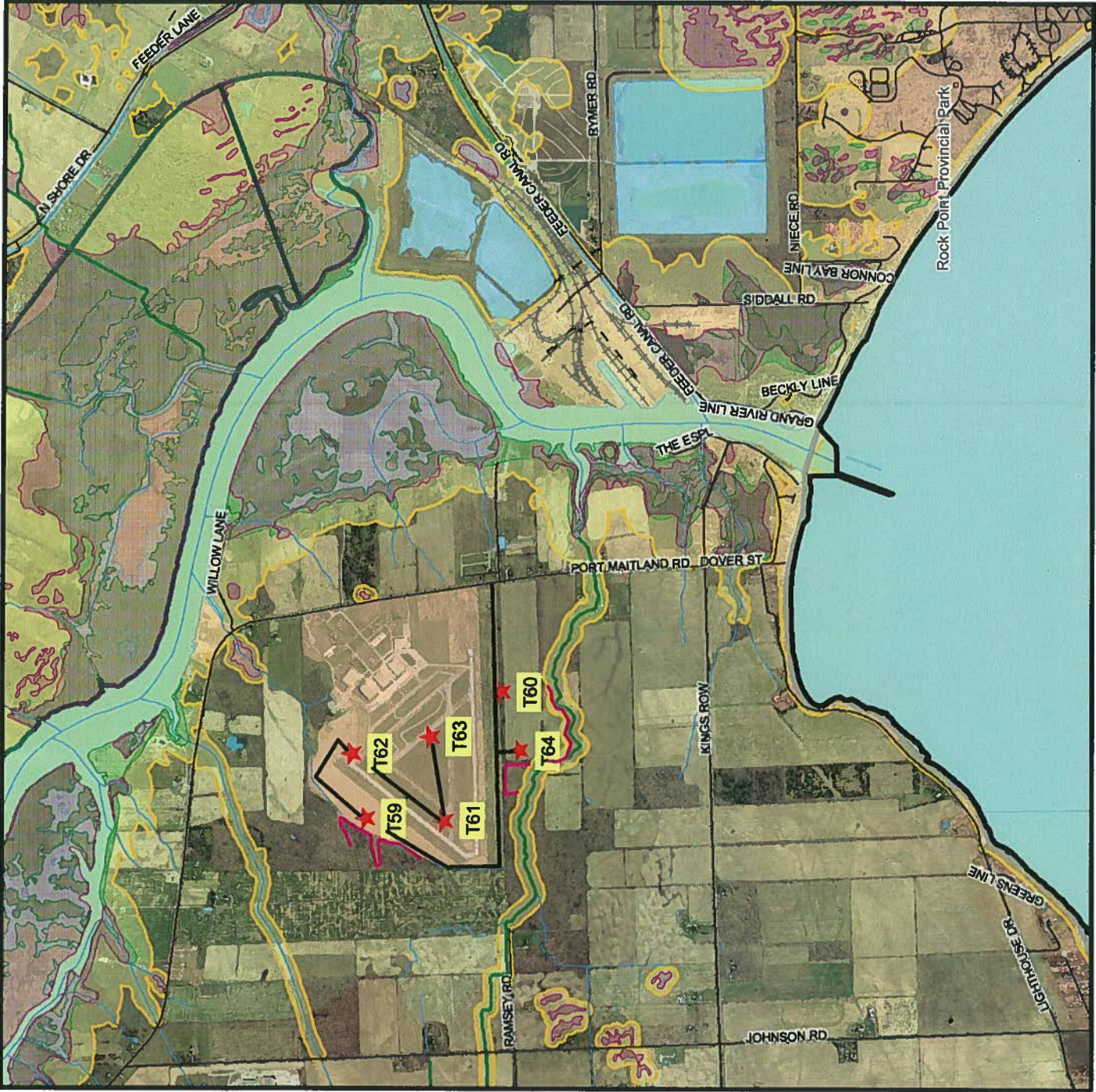
- LEGEND**
- WATERSHED BOUNDARY (GRCA)
 - UTILITY LINE (NRVIS)
 - ROADS-ADDRESSED (MNR)
 - RAILWAY (NRVIS)
 - MUNICIPAL BOUNDARY (GRCA)
 - CLASSIFIED STREAMS - NEW (NRVIS)
 - COLD WATER
 - COOL WATER
 - WARM WATER
 - UNKNOWN
 - DRAINAGE-NETWORK (GRCA)
 - SIGNIF. ECOLOGY AREA (NRVIS)
 - Significant Ecological Community
 - Wetland, Unevaluated
 - WETLAND (GRCA)
 - WETLAND (NRVIS)
 - PROVINCIAL SIGNIFICANT
 - OTHER
 - PARKS (GRCA)
 - PROPERTY (GRCA)
 - REGULATION LIMIT (GRCA)
 - DRAINAGE-POLY (NRVIS)
 - BUILT-UP (MNR)
 - BUILT-UP PERVIOUS
 - BUILT-UP IMPERVIOUS

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0 350 700 1050 1400 m.
 NAD 1983, UTM Zone 17 Scale 1:29,378



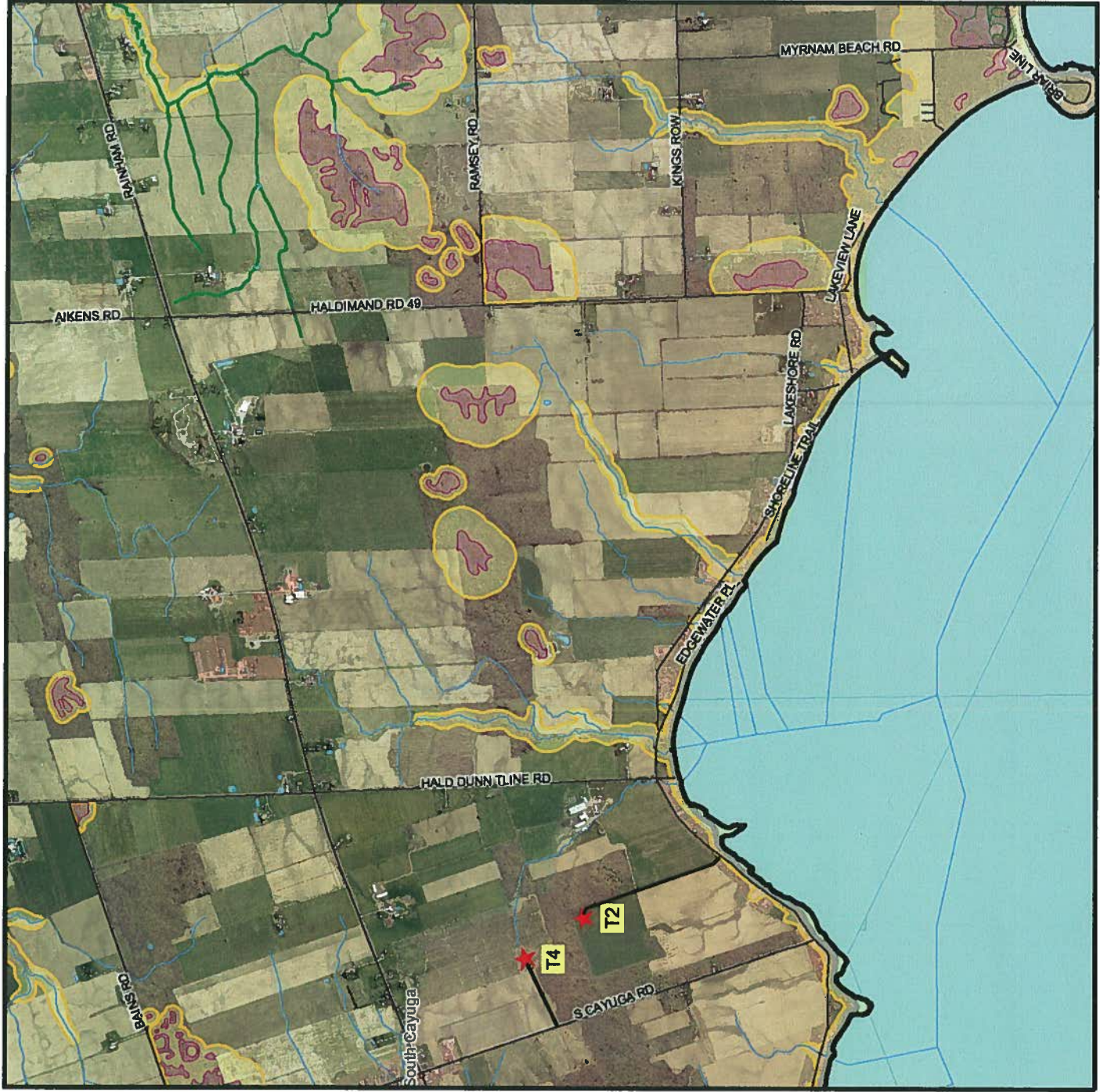
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W18 - Turbine Locations

- LEGEND**
- WATERSHED BOUNDARY (GRCA)
 - UTILITY LINE (NRV/S)
 - ROADS-ADDRESSED (MNR)
 - RAILWAY (NRV/S)
 - MUNICIPAL BOUNDARY (GRCA)
 - CLASSIFIED STREAMS - NEW (NRV/S)
 - COLD WATER
 - COOL WATER
 - WARM WATER
 - UNKNOWN
 - DRAINAGE-NETWORK (GRCA)
 - SIGNIF. ECOLOGY AREA (NRV/S)
 - Significant Ecological Community
 - Wetland, Unrestored
 - WETLAND (GRCA)
 - WETLAND (NRV/S)
 - PROVINCIAL SIGNIFICANT
 - OTHER
 - PARKS (GRCA)
 - PROPERTY (GRCA)
 - REGULATION LIMIT (GRCA)
 - DRAINAGE-POLY (NRV/S)
 - BUILT-UP (MNR)
 - BUILT-UP PERVIOUS
 - BUILT-UP IMPERVIOUS

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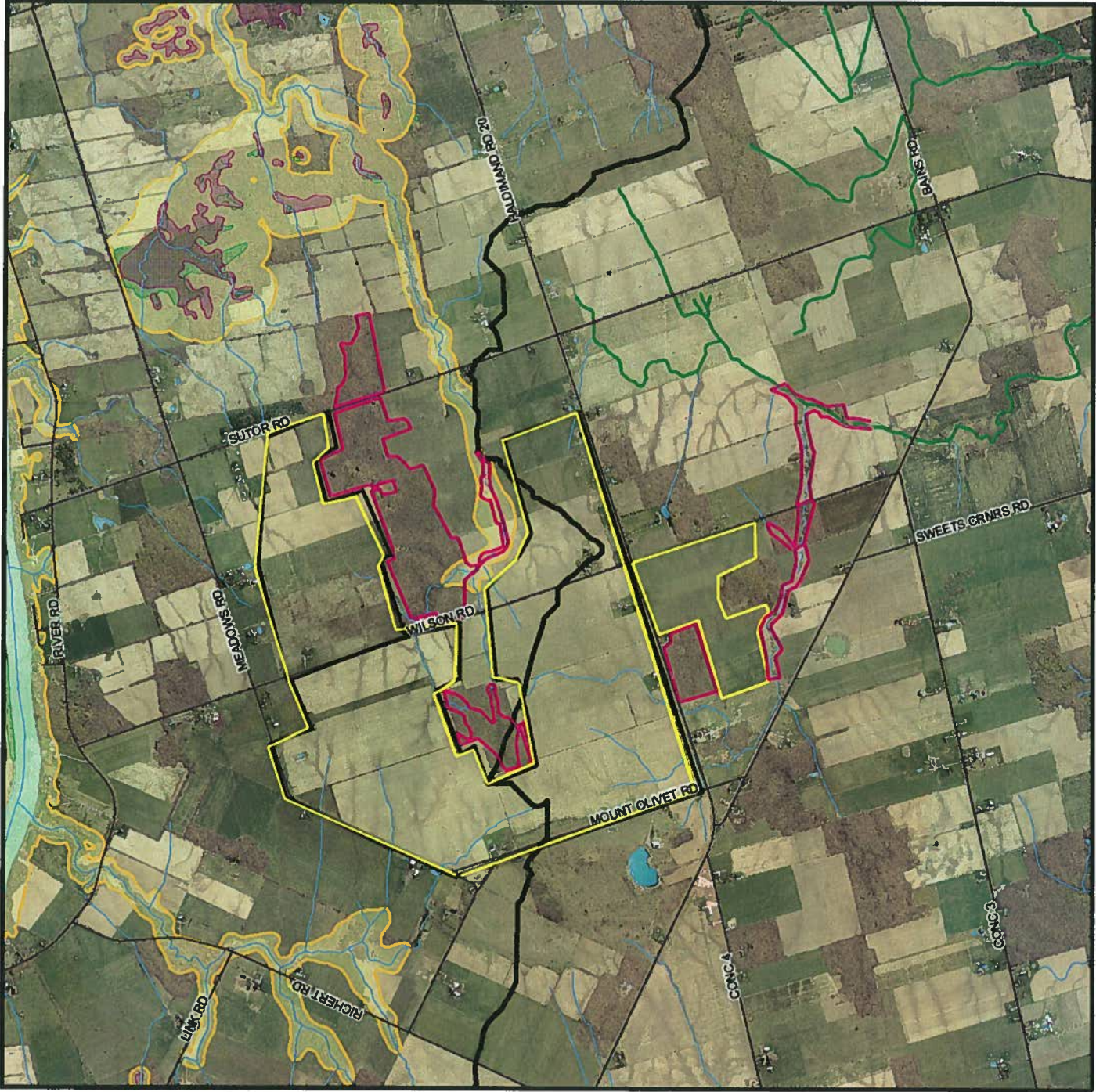
Solar Parks 1 & 2

- LEGEND**
- WATERSHED BOUNDARY (GRCA)
 - UTILITY LINE (NRV/S)
 - ROADS-ADDRESSED (MNR)
 - RAILWAY (NRV/S)
 - MUNICIPAL BOUNDARY (GRCA)
 - CLASSIFIED STREAMS - NEW (NRV/S)
 - COLD WATER
 - COOL WATER
 - UNKNOWN
 - WARM WATER
 - DRAINAGE-NETWORK (GRCA)
 - SIGNIF. ECOLOGY AREA (NRV/S)
 - Significant Ecological Community
 - Wetland, Unevaluated
 - WETLAND (GRCA)
 - WETLAND (NRV/S)
 - PROVINCIAL SIGNIFICANT
 - OTHER
 - PARKS (GRCA)
 - PROPERTY (GRCA)
 - REGULATION LIMIT (GRCA)
 - DRAINAGE-POLY (NRV/S)
 - BUILT-UP (MNR)
 - BUILT-UP PERVIOUS
 - BUILT-UP IMPERVIOUS

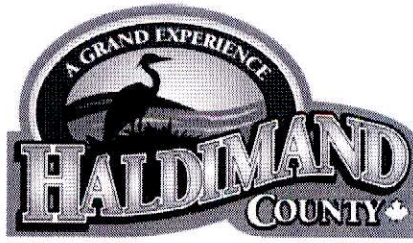
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<http://grca.grandriver.ca/docs/Sources/Citations1.htm>



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January 28, 2010

Samsung C&T Corporation
c/o Mr. Hagen Lee
105 Challenger Road, 6th Floor
Ridgefield Park, NJ
USA 07660

Dear Samsung Executives,

Welcome to Haldimand County! We were pleased last week to see the Province of Ontario sign an agreement with your company regarding your proposed wind/solar generation project in Haldimand County along with other areas of the Province. This is a step in the right direction and we look forward to working with you to make your project a reality in Haldimand County.

We are also excited to learn of the manufacturing opportunities as part of your company's agreement with the Province. In July 2009, staff met with one of your company's partner manufacturers to show them around our Lake Erie Industrial Business Park that has 4,500 acres of zoned vacant industrial land surrounded by a 3 kilometre buffer zone to preclude sensitive land uses from this industrial area. Given our County's location both in the Greater Golden Horseshoe and on the Lake Erie shoreline as well as affordable land, low property taxes and a skilled labour force, we believe the County is well-positioned to be home to one or more of the four proposed manufacturing plants. We look forward to working towards this goal with you and your partners.

Over the past several months the County has expressed our interest to the Provincial government in becoming known as an Energy Hub in Southern Ontario and the Lake Erie Industrial Park known as a Provincially Significant Employment Area. Not only do we have tremendous electrical transmission capacity but an abundance of land suited for wind and solar projects as well as land suitable for related industrial/manufacturing uses.

Cayuga Administration Office, 45 Munsee Street North, P.O. Box 400, Cayuga,
Ontario N0A 1E0
Phone: (905) 318-5932 · Fax: (905) 772-2148
www.haldimandcounty.on.ca

Going forward, please contact James Goodram, Manager of Economic Development & Tourism to be your principal point of contact here at Haldimand County to assist you in any way we can. His contact information follows.

If you require additional information, please do not hesitate to contact me personally or James at any time. We look forward to working with you in the near future.

Yours truly,

A handwritten signature in cursive script that reads "Marie Trainer".

Her Worship
Mayor Marie Trainer

James Goodram
Manager, Economic Development & Tourism
Haldimand County
905-318-5932 ext. 242
jgoodram@haldimandcounty.on.ca

cc: Premier Dalton McGuinty
Don Boyle, CAO, Haldimand County
Minister of Energy and Infrastructure, Brad Duguid



Stantec

Stantec Consulting Ltd.
Suite 1 - 70 Southgate Drive
Guelph ON N1G 4P5
Tel: (519) 836-6050
Fax: (519) 836-2493

June 4, 2010
File: 160960577 / 161010624

Haldimand County
Cayuga Administrative Building
45 Munsee Street
Cayuga, ON N0A 1E0

Attention: Lidy Romanuk, Rural Development Officer

**Reference: Grand Renewable Energy Park
Draft Project Description**

Dear Ms. Romanuk:

On behalf of Samsung Renewable Energy Inc. (Samsung), please find enclosed two hardcopies of the Draft Project Description for the proposed Grand Renewable Energy Park. If approved, the wind aspect of the Project would have a nameplate capacity of 140 MW and consist of approximately 63 wind turbines (depending upon the turbine make and model). The solar aspect of the Project would have a nameplate capacity of 100 MW and consist of approximately 700 acres of land.

The Draft Project Description Report provides a summary of the Project as required by Ontario Regulation 359/09 - Renewable Energy Approvals under Part V.0.1 of the Act of the *Environmental Protection Act* ("the Regulation").

We have enclosed two copies as we kindly request that one copy be made available for public review at the Cayuga Administrative Building starting June 7, 2010.

In the event that you have any questions, please do not hesitate to contact me via the information below. We look forward to working with Haldimand County throughout the development of this renewable energy initiative.

Sincerely,

STANTEC CONSULTING LTD.

Rob Nadolny
Senior Project Manager
Tel: (519) 836-6050
Fax: (519) 836-2493
Rob.nadolny@stantec.com

Attachment: Two Hard Copies - Draft Project Description

CC. Adam Rosso, Samsung Renewable Energy Inc.



Stantec

Stantec Consulting Ltd.
Suite 1 - 70 Southgate Drive
Guelph ON N1G 4P5
Tel: (519) 836-6050
Fax: (519) 836-2493

June 18, 2010
File: 160960577 / 161010624

Haldimand County
Cayuga Administration Office
45 Munsee Street North, PO Box 400
Cayuga, ON N0A 1E0

Attention: Ms. Lidy Romanuk, Rural Development Officer

**Reference: Grand Renewable Energy Park
Request for Information**

Dear Ms. Romanuk,

I am writing with regards to the proposed Grand Renewable Energy Park to be located in Haldimand County, Ontario. The Project is being proposed by Samsung Renewable Energy Inc. and if approved, would consist of a 140 MW wind farm, a 100 MW solar farm, a transmission line and other project associated infrastructure.

The Renewable Energy Approval (REA) process has been initiated for the Project in accordance with Ontario Regulation 359/09 (O. Reg 359/09). In accordance with Section 29.(1) O. Reg 359/09, Stantec is required to conduct a water assessment consisting of a records review and site investigation for the Project location (please see the attached map). As such, we are requesting any information your agency may have with respect to the following within the Project location:

- The location and classification of all permanent and intermittent streams including drainage ditches;
- The location of any lakes (including the average annual high water mark) other than a Lake Trout lake that is at or above development capacity;
- The location of any Lake Trout lakes that are at or above development capacity including the average annual high water mark;
- The location of any seepage areas;
- Watershed reports which should be considered in our assessment of natural heritage features; and,
- Any fisheries related data for waterbodies (including species at risk) within the Project location.

June 18, 2010

Page 2 of 2

Reference: Grand Renewable Energy Park – Request for Information

We look forward to working with you, and obtaining your valuable input, and a Project representative will be in contact with you shortly to determine the best way to obtain the above noted information. In addition, please contact the undersigned if you require any additional information (including digital mapping) to assist in providing the requested information.

Sincerely,

STANTEC CONSULTING LTD.

A handwritten signature in black ink, appearing to read 'Rob Nadolny', written in a cursive style.

Rob Nadolny
Senior Project Manager
Tel: (519) 836-6050
Fax: (519) 836-2493
Rob.nadolny@stantec.com

Attachment: Project Location Map

CC: Drew Cherry, Grand River Conservation Authority
Heather Surette, Long Point Region Conservation Authority
Heather Riddell, Ministry of Natural Resources, Aylmer District



Stantec Consulting Ltd.
Suite 1 - 70 Southgate Drive
Guelph ON N1G 4P5
Tel: (519) 836-6050
Fax: (519) 836-2493

Stantec

June 24, 2010
File: 160960577 / 161010624

Haldimand County
Cayuga Administrative Building
45 Munsee Street
Cayuga, ON N0A 1E0

Attention: James Goodram, Manager – Economic Development and Tourism

**Reference: Grand Renewable Energy Park
Draft Project Description – Version 2**

Dear Mr. Goodram:

On behalf of Samsung Renewable Energy Inc. (Samsung), please find enclosed two hardcopies of the Draft Project Description – Version 2 for the proposed Grand Renewable Energy Park. Draft Project Description Report - Version 2 has been updated to include additional information related to Project setbacks and the identification of potential environmental effects.

If approved, the wind aspect of the Project would have a nameplate capacity of 140 MW and consist of approximately 63 wind turbines (depending upon the turbine make and model). The solar aspect of the Project would have a nameplate capacity of 100 MW and consist of approximately 700 acres of land.

We have enclosed two copies as we kindly request that one copy be made available for public review at the Cayuga Administrative Building starting upon receipt.

In the event that you have any questions, please do not hesitate to contact me via the information below. We look forward to working with Haldimand County throughout the development of this renewable energy initiative.

Sincerely,

STANTEC CONSULTING LTD.

Rob Nadolny
Senior Project Manager
Tel: (519) 836-6050
Fax: (519) 836-2493
Rob.nadolny@stantec.com

Attachment: Two Hard Copies - Draft Project Description – Version 2

CC. Adam Rosso, Samsung Renewable Energy Inc.
Janis Lankester, Haldimand County

Friedl, Susanne

From: Kozak, Mark
Sent: Thursday, June 24, 2010 10:41 AM
To: JAMES GOODRAM
Cc: Nadolny, Rob; Prier, Peter; Galajda, Larry
Subject: Samsung GREP - Request for Information
Attachments: 60960577_Fig1_0_ProjectLocationMap_20100601_PW.pdf

Good morning James,

We are currently conducting a transmission line route assessment for Samsung's Grand Renewable Energy Park. As part of this analysis, we would like to request the following information from Haldimand County to assist in our review:

- Could the County please provide the road right-of-way widths for the following roads:
 - Haldimand Road 20 from Mount Olive Road to Hagersville
 - Concession 4 from Haldimand Road 20 to Haldimand Road 53
 - Haldimand Road 53 from Concession 4 to Haldimand Road 20
 - Concession 4 W-1 from Haldimand Road 53 to Haldimand Road 55
 - Concession 7 W-1 from Haldimand Road 53 to Haldimand Road 55
 - Concession 9 W-1 from Haldimand Road 53 to Haldimand Road 55
- Does the County have a Public Utilities Coordinating Committee for utility location within road right-of-ways?
- Does the County have aerial photography which could be purchased by Stantec for the Transmission Line Siting Area?
- Does the County have digital layers of Official Plan designated areas for natural features such as woodlots, hazard lands, etc. for the entire Project Location?

Thank you again for your assistance and please feel free to give us a call if you have any questions or concerns regarding this request.

Regards,
Mark

Mark Kozak, BES
Environmental Scientist
Stantec
Suite 1 - 70 Southgate Drive
Guelph ON N1G 4P5
Ph: (519) 836-6050 Ext. 276
Fx: (519) 836-2493
Cell: (519) 820-1062
mark.kozak@stantec.com

stantec.com

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Friedl, Susanne

From: de Carteret Feit, Kendra
Sent: Friday, July 09, 2010 1:15 PM
To: adorr@haldimandcounty.on.ca
Cc: Nadolny, Rob; Kozak, Mark; a.rosso@samsungrenewableenergy.ca
Subject: Stantec FTP_161010624_SAMSUNG_DISLPAYPANELS

Importance: High

Follow Up Flag: Follow up
Flag Status: Flagged

Good afternoon Arla –

Our receptionist Vera spoke with Sue at the Haldimand County office, and was advised you are the best contact to forward the FTP link below to the Haldimand County Council members. The link directs you to a secure site where the display panels from the Grand Renewable Energy Park open house hosted in Cayuga last night. We have also prepared a courier of the hard copies that will ship today to the Mayor's office for distribution as well.

We would very much appreciate your circulating this link to the council members. If you have any concerns or troubles with the FTP link below, or accessing the files, please email or call us.

Thank-you,
Kendra

Kendra de Carteret Feit
Administrative Assistant
Stantec
Suite 1 - 70 Southgate Drive
Guelph ON N1G 4P5
Ph: (519) 836-6050
Fx: (519) 836-2493
kendra.feit@stantec.com
stantec.com

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Please use the automatic login link below to access your site. You have also been provided a manual link, username and password in case your computer disables the automatic login link.

NOTE: FTP Sites are not included in Stantec daily backups and are only intended to be used as a means of transferring large files between offices, clients, etc.

Automatic Login

FTP site link: <ftp://s0722143226:2418576@ftptmp.stantec.com>

By clicking on the link above (or pasting the link into Windows Explorer) you will be automatically logged into your FTP site.

Manual Login

FTP link: <ftp://ftptmp.stantec.com>

Login name: s0722143226

Password: 2418576

Disk Quota: 2GB

Expiry Date: 7/22/2010

If your site has not expired and you require a onetime 2 week extension, please contact the [IT Service Center](#).

If you require more than 2 weeks, please request an FTP Project Directory. Information on the FTP Project Directory request procedure is posted in the [StanNet Help Center](#).

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From: CRAIG MANLEY [mailto:cmanley@haldimandcounty.on.ca]
Sent: Friday, July 09, 2010 1:58 PM
To: Adam Rosso
Cc: DL-COUNCIL; DL-SENIOR MANAGEMENT TEAM; JAMES GOODRAM
Subject: Samsung Open House for Council

Thank you for holding a specific session to discuss the Samsung project with members of Council. I believe the dialogue was helpful for the Council to understand the proposal better and to identify some of the key issues they would like to see addressed. In that regard and to assist I am attaching a summary of the issues I noted that were raised by Council.

1. Greater details relating to the cutting of woodlots and proposed measures for replacement of these environmental features. Also how other features including wetlands and significance species will be impacted/mitigated.
2. Evaluation of the possible impacts of the anchoring of wind turbines to bedrock and whether this provides a conduit for the transmission of vibration to other properties.
3. The relationship of the proposed electrical transmission corridors to the County's Trail Master Plan and opportunities/constraints that may exist or occur
4. Clarification on the location of the transmission corridor either on or adjacent County Road 20
5. Confirmation that the decommissioning plan, funding mechanisms and report will include the capital works in the transmission corridor
6. Concerns about the impact of drainage from the solar farm and how this issue will be addressed/mitigated
7. Concerns about the long term impact of solar panels on agricultural soil quality
8. Confirmation about the amount of land that would be covered by solar panels
9. How the visual impact of the solar farm will be mitigated for residential uses
10. The impact of construction traffic and access from the County Road system to the project components and how this will be addressed
11. Confirmation that Samsung et al will try to influence the Province to assist displaced homeowners to obtain the first right to reacquire the use of the lands

12. As part of the economic impact assessment conduct a complete comparison of the difference between the project and the use of the land for agricultural purposes to Haldimand County. Also provide a break down of the type of jobs to be created.

13. Clarification about how increased 'assessment' resulting from the project on Provincial land will be dealt with in terms of payments in lieu made to the County by the Province

As discussed you will provide me with a summary of the list of Council issues and how and at what stage they will be addressed that I will distribute to Council for comment so there is a clear record of Council's interests.

Craig Manley

General Manager, Planning & Economic Development

Haldimand County

Cayuga Administration Building

45 Munsee St. N., Cayuga, ON N0A 1E0

Tel: 905-318-5932 x208

Fax: 905-772-3541

www.HaldimandCounty.on.ca



Please consider the environment before printing this e-mail

Friedl, Susanne

From: LIDY ROMANUK <lromanuk@haldimandcounty.on.ca>
Sent: Monday, July 12, 2010 2:12 PM
To: Kozak, Mark
Cc: JAMES GOODRAM
Subject: FW: RE: Mapping Request - Samsung

Follow Up Flag: Follow up
Flag Status: Flagged

Hi Mark

Please see the following response from our GIS department with regards to the email you forwarded to James Goodram on June 24, 2010.

Kindly advise if you would like us to proceed with these items. Also please let us know if you have shape files for the required areas and an ftp site to upload the information.

I look forward to your response.

Lidy Romanuk

Rural Development Officer

Economic Development & Tourism Division

Haldimand County

Cayuga Administration Building

45 Munsee St, Cayuga, ON N0A 1E0

Tel: 905-318-5932 x215

Fax: 905-772-3542

www.HaldimandCounty.on.ca



Please consider the environment before printing this e-mail

From: AUDREY STEWART
Sent: July 9, 2010 10:43 AM
To: LIDY ROMANUK

Cc: MIKE EVERS

Subject: RE: Mapping Request - Samsung

Hi Lidy:

In response to the request below from Mike Evers:

“See attached email from Lidy which represents a request from Samsung for their solar/wind development project. Can you address the last bullets in Lidy’s email which are:

➤ Does the County have aerial photography which could be purchased by Stantec for the Transmission Line Siting Area (shown on attached map)?

➤ Does the County have digital layers of Official Plan designated areas for natural features such as woodlots, hazard lands, etc. for the entire Project Location?”

We do have aerial photography that can be purchased, based on a rough estimate of the area required I have calculated that they would require approx. 175 – 1 km tiles which would come to approx. \$744.68 + HST.

The County does have Official Plan designated areas of riverine hazard lands, provincially significant wetlands and natural environment/wetland areas in AutoCAD and can provide it in .dwf format. The cost for this information is charged on an hourly basis based on the time required to prepare the (\$ 67.50 +HST per hour). I am not entirely sure how long this will take but would estimate approx. 2 hours. A data license agreement would also need to be drawn up and signed. Do they have an ftp site in which to upload the aerial photography and natural environment data to? Also do they have shape files for the required areas?

Audrey Stewart

Mapping & Graphics Technologist

Planning and Development Division

Haldimand County

Cayuga Administration Building

45 Munsee St. N., Cayuga, ON N0A 1E0

Tel: 905-318-5932 x296

Fax: 905-772-3542

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Haldimand County Responses to Open House #1 Comments

1. Greater details relating to the cutting of woodlots and proposed measures for replacement of these environmental features. Also how other features including wetlands and significance species will be impacted/mitigated.

The Natural Heritage Assessment/Environmental Impact Study and Construction Plan Report will assess the cutting of any woodlots for the Project and will also discuss mitigation and monitoring measures including the suitability and potential for replacement/compensation measures. Impacts and mitigation measures to other features such as wetlands and significant wildlife habitat will also be discussed in these reports. However we can confirm that all project related works will avoid Provincially Significant Wetlands. The NHA/EIS document will be reviewed by the MNR prior to the release of the REA documents to the public, agencies and the County.

2. Evaluation of the possible impacts of the anchoring of wind turbines to bedrock and whether this provides a conduit for the transmission of vibration to other properties.

The Geotechnical Investigation to be completed for the turbine sites will be used to identify suitable foundation designs given the limited depth to bedrock in the area. Stantec will also conduct additional study as part of the REA regarding any potential impacts (i.e., vibration) as a result of anchoring wind turbines to bedrock.

3. The relationship of the proposed electrical transmission corridors to the County's Trail Master Plan and opportunities/constraints that may exist or occur.

Samsung will review the County's Trail Master Plan and work with the County to discuss any opportunities/constraints that may exist between the Plan and the proposed transmission corridors for the project. As such, could the County please provide a copy of the Trail Master Plan and any associated GIS (or equivalent) mapping layers so that they can be incorporated into the project mapping and design considerations of the project?

4. Clarification on the location of the transmission corridor either on or adjacent County Road 20.

An assessment of the transmission line route is ongoing but the currently preferred option is to utilize established road rights-of-way (including County Road 20) where possible.

5. Confirmation that the decommissioning plan, funding mechanisms and report will include the capital works in the transmission corridor.

All of the REA reports will include an assessment of the transmission line route. Samsung is considering a performance bond with the County to address any County road works necessary as a result of Project construction activities. As part of the leases for turbine sites, a performance bond with private landowners is also expected. Samsung is also currently considering funding mechanisms related to the decommissioning stage of the Project.

Haldimand County Responses to Open House #1 Comments

6. Concerns about the impact of drainage from the solar farm and how this issue will be addressed/mitigated.

The Water Assessment Report, Construction Plan Report, and Design and Operations Report will assess impacts to on-site drainage. Discussions will also be held with private landowners regarding drainage use on-site.

7. Concerns about the long term impact of solar panels on agricultural soil quality.

The Construction Plan Report, Design and Operations Report, and Decommissioning Report will assess any potential impacts to agricultural soil quality. Samsung also intends to utilize low growing, low maintenance native plants within the solar sites to maintain soil quality. Additional literature reviews will also be conducted regarding solar panel impacts on soil quality.

8. Confirmation about the amount of land that would be covered by solar panels.

It is currently estimated that 900 acres of land will be required for the solar project.

9. How the visual impact of the solar farm will be mitigated for residential uses.

Samsung is currently investigating landscaping options around the perimeter of the site and will consider suggestions provided by the County, agencies, and stakeholders. A Visual Assessment including photo montages will also be provided within the REA documents to demonstrate potential landscaping options.

10. The impact of construction traffic and access from the County Road system to the project components and how this will be addressed.

The Construction Plan Report will involve a Traffic Management Plan (or equivalent) which will assess the impact of construction traffic and access from the County Road system to the project sites. Samsung is also currently considering a performance bond to the County regarding road usage.

11. Confirmation that Samsung et al will try to influence the Province to assist displaced homeowners to obtain the first right to reacquire the use of the lands.

Samsung will discuss with the Province the provision for displaced homeowners to obtain the first right to reacquire the use of the lands following decommissioning of the project.

Haldimand County Responses to Open House #1 Comments

12. As part of the economic impact assessment conduct a complete comparison of the difference between the project and the use of the land for agricultural purposes to Haldimand County. Also provide a break down of the type of jobs to be created.

A Net Benefit Analysis (or equivalent) will be conducted as part of the REA process to assess the economic benefit of the project to the County including an evaluation of the difference between the project and the use of the land for agricultural purposes.

13. Clarification about how increased 'assessment' resulting from the project on Provincial land will be dealt with in terms of payments in lieu made to the County by the Province.

Samsung will clarify this concern with the Ontario Realty Corporation and provide details to the County when they are available.

Friedl, Susanne

From: LIDY ROMANUK <lromanuk@haldimandcounty.on.ca>
Sent: Tuesday, July 20, 2010 11:51 AM
To: 'Adam Rosso'; Kozak, Mark
Cc: JAMES GOODRAM; SHEILA WILSON; CRAIG MANLEY
Subject: RE: Rail to Trail program
Attachments: image001.jpg

Follow Up Flag: Follow up
Flag Status: Flagged

Good Morning Adam and Mark

Please find below three links that may be of assistance to you.

1. This link connects you to the page on our website that speaks to the existing trails and provides the link to the Trails Master Plan.
http://www.haldimandcounty.on.ca/residents.aspx?id=11116&ekmense=c580fa7b_32_528_11116_8
2. Much of the information you are requesting is available on the public GIS that may be of helpful to you moving forward
<http://navigator.yourniagara.ca/navigator/#>
3. Here is the link to Haldimand County's Official Plan
http://www.haldimandcounty.on.ca/OurCounty.aspx?id=38&ekmense=c580fa7b_130_426_38_2

We are currently in the process of gathering various GIS layers as requested by Mark earlier. These are the following layers that I know we have available. Kindly confirm those that are required:

Emergency Services: Fire Halls, Hospitals, Land Ambulance Stations, Police Stations

Facilities: County Offices, Libraries, Places of Worship, Post Offices, Schools

Historical Properties: Cemetery, Heritage Properties, Museums

Sports and Recreation: Arenas, Campgrounds, Conservation Areas, Golf Courses, Provincial Parks

I am currently working with others to confirm if we have any additional information on the proposed trail program north of Hwy 3 or other GIS layers that may be of assistance to you. I will be in touch once I have received any additional information.

Lidy Romanuk

Rural Development Officer

Economic Development & Tourism Division

Haldimand County

Cayuga Administration Building
45 Munsee St, Cayuga, ON N0A 1E0

Tel: 905-318-5932 x215

Fax: 905-772-3542



From: Adam Rosso [mailto:a.rosso@samsungrenewableenergy.ca]
Sent: July 20, 2010 9:24 AM
To: JAMES GOODRAM
Cc: LIDY ROMANUK; Galajda, Larry; Michael Henderson
Subject: Rail to Trail program

Hello James;

Can we get some additional information on the rail to trail program? As you know we're considering the abandon rail line north of HWY 3 for our Transmission Line and would like to see what information the county has.

Do you have zoning maps of that area and ownership?

Are there plans already in motion for that stretch of land?

Thanks Kindly;



Renewable Energy Inc.

Adam Rosso, P.Eng., M.Sc.
Manager, Business Development
C: 416.389.8942
T: 905.285.1872
E: a.rosso@samsungrenewableenergy.ca

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Friedl, Susanne

From: Adam Rosso <a.rosso@samsungrenewableenergy.ca>
Sent: Thursday, July 29, 2010 10:06 PM
To: BUCK SLOAT
Cc: 'Hagen Lee'; Zohrab Mawani; Nadolny, Rob; Kozak, Mark
Subject: RE: Haldimand Project

Follow Up Flag: Follow up
Flag Status: Flagged

Hello Buck;

Did you receive my last email? I responded to your last email regarding the public meeting. My hope is to have the town hall meeting in the fall once we've got some more concrete ideas on turbine and solar farm locations.

Please see my responses below.

If you have any additional questions please ask.

Renewable Energy Inc.
Adam Rosso, P.Eng., M.Sc.
Manager, Business Development
C: 416.389.8942
T: 905.285.1872
E: a.rosso@samsungrenewableenergy.ca

-----Original Message-----

From: BUCK SLOAT [mailto:bsloat@HaldimandCounty.on.ca]
Sent: Monday, July 26, 2010 4:42 PM
To: a.rosso@samsung.com
Subject: Haldimand Project

David

How are you making out with requested public meeting?

Could you respond to the following questions?

Set Back requirement from

A: Buildings on site property and neighbouring buildings

Samsung plans on staying as far away from our land owner buildings as possible. In our contract we have included a hard 350 m setback away from all buildings on our land owners land.

In practice we're going to almost always be much farther than that. The geography of the south Cayuga area is such that almost all of our turbine positions will be back along the tree line half way between the concessions. The setback applies to residential dwellings. I feel comfortable staying the same distance away where possible from livestock barns as well.

Neighbouring buildings we will stay either 550m meters away from a non-participating residential dwelling or 40 db with sound modeling, which ever greater. In my experience the sound modeling is always greater than 550 m. This typically yields a setback ~600 m.

B: After wind mill is constructed can an abutting property owner build any building inside the set back on their own property.

From my understanding a land owner is not restricted however I believe the "Buyer beware" concept is induced as they may build a residential house within an area where a setback could be breached. The setback would have been established prior to the adjacent land owner building. Both the developer and the county likely have a responsibility to help educate the prospective house builder on the potential impacts to that house.

C: How does set back requirement effect a lot of record with no house or building on it

As part of provincial legislation we do a record search with the county to discover any severed lots that do not have houses currently built on them and treat that lot as if it has a house on it.

Thanks

Buck

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Friedl, Susanne

From: Marnie Dawson <m.dawson@samsungrenewableenergy.ca>
Sent: Friday, September 03, 2010 11:03 AM
To: MARIE TRAINER; Hagen Lee
Cc: 'designs.925@mountaincable.net'; 'djillard@gmail.com'; 'alisonmackenzie@live.com'; 'linkhaven@sympatico.ca'; 'sidbeck@mountaincable.net'; 'harrisonstore@explornet.com'; 'bainsroad@gmail.com'; 'whinr@hotmail.com'
Subject: RE: solar panels
Attachments: 1Sept10Mayor Trainer response email3Sept10.pdf
Follow Up Flag: Follow up
Flag Status: Flagged

Mayor Trainer,

Again, thank you for your email. I appreciate you gathering the questions of your constituents and sending them to me in one concise email. I have attached Samsung's response to this email.

If you have any other questions about our Grand Renewable Energy Project, please do not hesitate to contact me.

Also, you asked about have a meeting with landowners to address additional questions or concerns. We would be more than happy to have kitchen table meetings with individual landowners and answer any questions that they may have. Please forward my contact information to individual landowners so we can make arrangements to come to their homes to meet with them.

Sincerely,
Marnie Dawson

Marnie Dawson
Manager, Renewable Energy Approvals
Samsung Renewable Energy Inc.
Telephone: 905.817.6495
Mobile: 647.987.2820
Email: m.dawson@samsungrenewableenergy.ca

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PLEASE CONSIDER THE ENVIRONMENT BEFORE PRINTING.

From: MARIE TRAINER [mailto:mtrainer@HaldimandCounty.on.ca]

Sent: September-01-10 10:42 AM

To: Hagen Lee; Marnie Dawson

Cc: 'designs.925@mountaincable.net'; 'djillard@gmail.com'; 'alisonmackenzie@live.com'; 'linkhaven@sympatico.ca'; 'sidbeck@mountaincable.net'; 'harrisonstore@xplornet.com'; 'bainsroad@gmail.com'; 'whinr@hotmail.com'; MARIE TRAINER

Subject: solar panels

I have met with several of the neighbours and they have many questions they would appreciate someone from Samsung answering.

Weeds need to be cut immediately.

Is the bush going to be cut down? Great concern because of the wild life who take refuse here.

What happens to the soil after your project is completed?

What happens to the water accumulated?

How many private people have signed up to be a part of your project?

How is this energy going to be transmitted? Are new hydro poles going to be installed?

Most are concerned that their property values will decrease and will they be compensated for this loss?

It is our understanding there is to be no development on class 3 land – why is it OK here?

Where is the sub-station to be built and again what about the close neighbours property values and how is the noise intrusion going to be handled?

Are you leasing the land and at what cost?

Does anyone know if there are any effects from the reflection on farm animals?

These are all questions that are being asked and your response would be greatly appreciated.

Marie Trainer

Mayor

Haldimand County

Cayuga Administration Building

45 Munsee St. N., Cayuga, ON N0A 1E0

Tel: 905-318-5932 x202

Fax: 905-772-3542

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Grand Renewable Energy Park

*Presentation to Haldimand County
Council*

December 13, 2010

One Team. Infinite Solutions



Stantec

SAMSUNG

SAMSUNG C&T

Grand Renewable Energy Park

Agenda

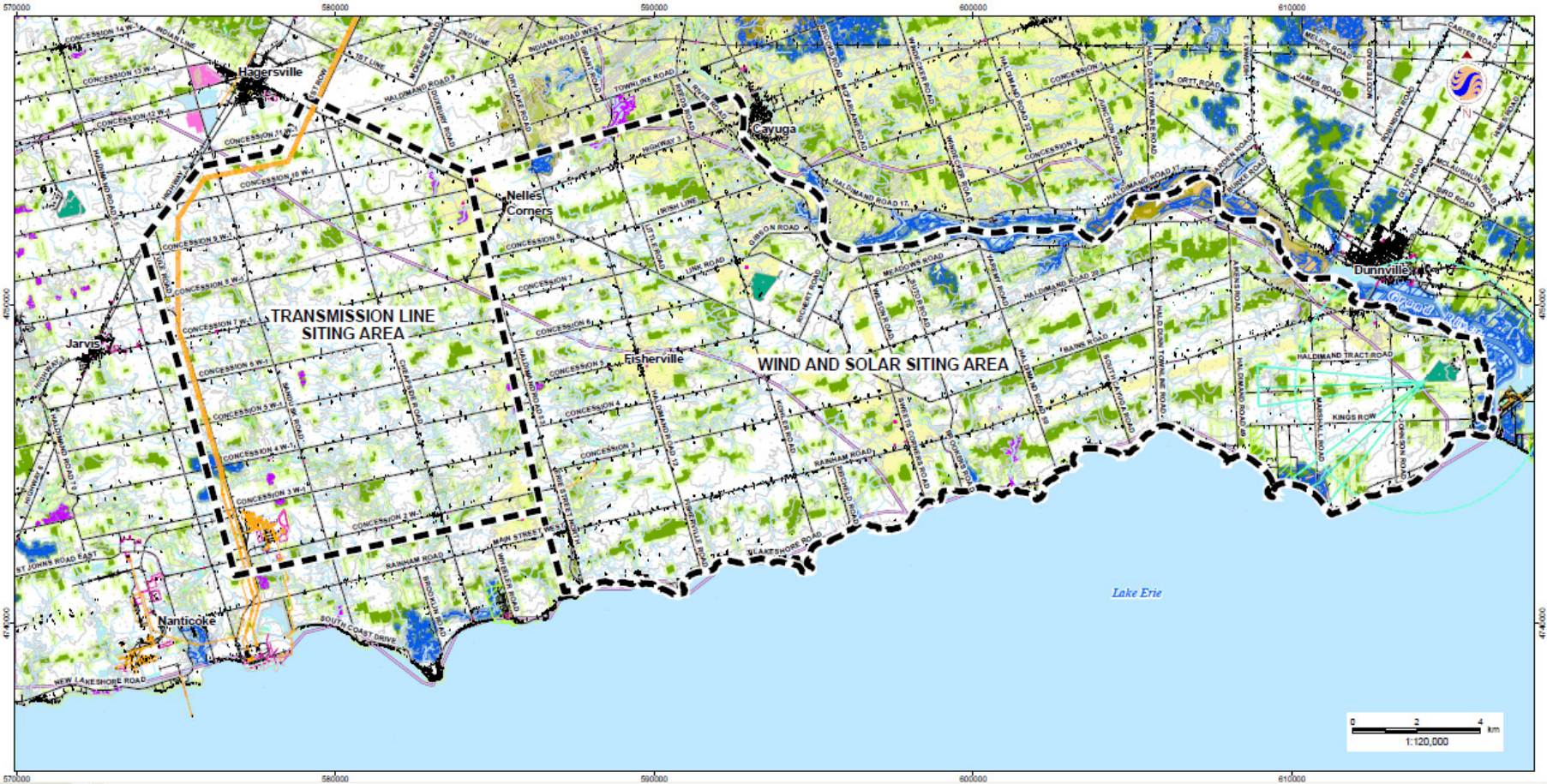
- *The Park Description*
- *Current Status*
- *Project Benefits*
- *Approvals Overview*
- *Haldimand County Role*
- *Schedule*
- *Questions?*



SAMSUNG C&T

Grand Renewable Energy Park

The Park Description



SAMSUNG C&T



Grand Renewable Energy Park

The Park Description

Park Capacity

- *155 MWatts peak power generated by wind*
- *100 MWatts of peak power generated by sunlight*
- *Potentially 255 MWatts of peak power in total*



SAMSUNG C&T

Grand Renewable Energy Park

The Park Description

Park Components

- *70 Wind Turbine Generators at 100m hub height having an individual power output of 2.221 MWatts per turbine*
- *~ 400,000 Ground Mounted Solar PV panels on 900 acres of land having an individual power output of 270 watts per panel*



SAMSUNG C&T

Grand Renewable Energy Park

The Park Description

Park Infrastructure

- *Access Laneways for each Wind Turbine Generator*
- *Access and Service roads for Solar Farm*
- *Power Collection Circuits*
- *Collector Substation*
- *Operations & Maintenance Facility*
- *230 kV Transmission Line of 20 km*
- *Interconnect Station*



SAMSUNG C&T

Grand Renewable Energy Park

Project Benefits

Benefits of Renewable Energy...

- *Inexhaustible*
- *Reduces reliance on imported fuel*
- *Environmental benefits*
- *Land use*
- *Creates jobs*



SAMSUNG C&T

Grand Renewable Energy Park

Project Benefits

Benefits of Renewable Energy...

- *Income for Property Owners*
- *Local Tax Base Increased*
- *Greater Direct Economic Impact*
- *Energy at Stable Cost*



SAMSUNG C&T

Grand Renewable Energy Park

Project Benefits

Environmental Benefits of Renewable Energy Compared to Coal-Fired Generation

Carbon Dioxide Emissions Reduced

462,080 tonnes/year
equivalent to 81,496 cars



Coal
212,329 tonnes /year

Sulfur Dioxide
2,075 tonnes/year

Nitrogen Oxides
773 tonnes/year



Freshwater Conserved

33.6 trillion liters/year
92 million liters/day
112,877 people each day



SAMSUNG C&T

Grand Renewable Energy Park

Project Benefits

Support to Local Economy

- *During Construction and Operation*
- *Service Business Revenue*

Contribution to County Tax Base

- *Increases Tax Base of Haldimand County*



SAMSUNG C&T

Grand Renewable Energy Park

Project Benefits

Creates Job Opportunities

- *250 – 300 jobs during construction period*
 - *Project Managers*
 - *Tradespeople*
 - *Contractors*
 - *SubContractors*

- *Approximately 20 permanent positions during operations*
 - *Maintenance personnel*

- *“Ripple Effect...”*

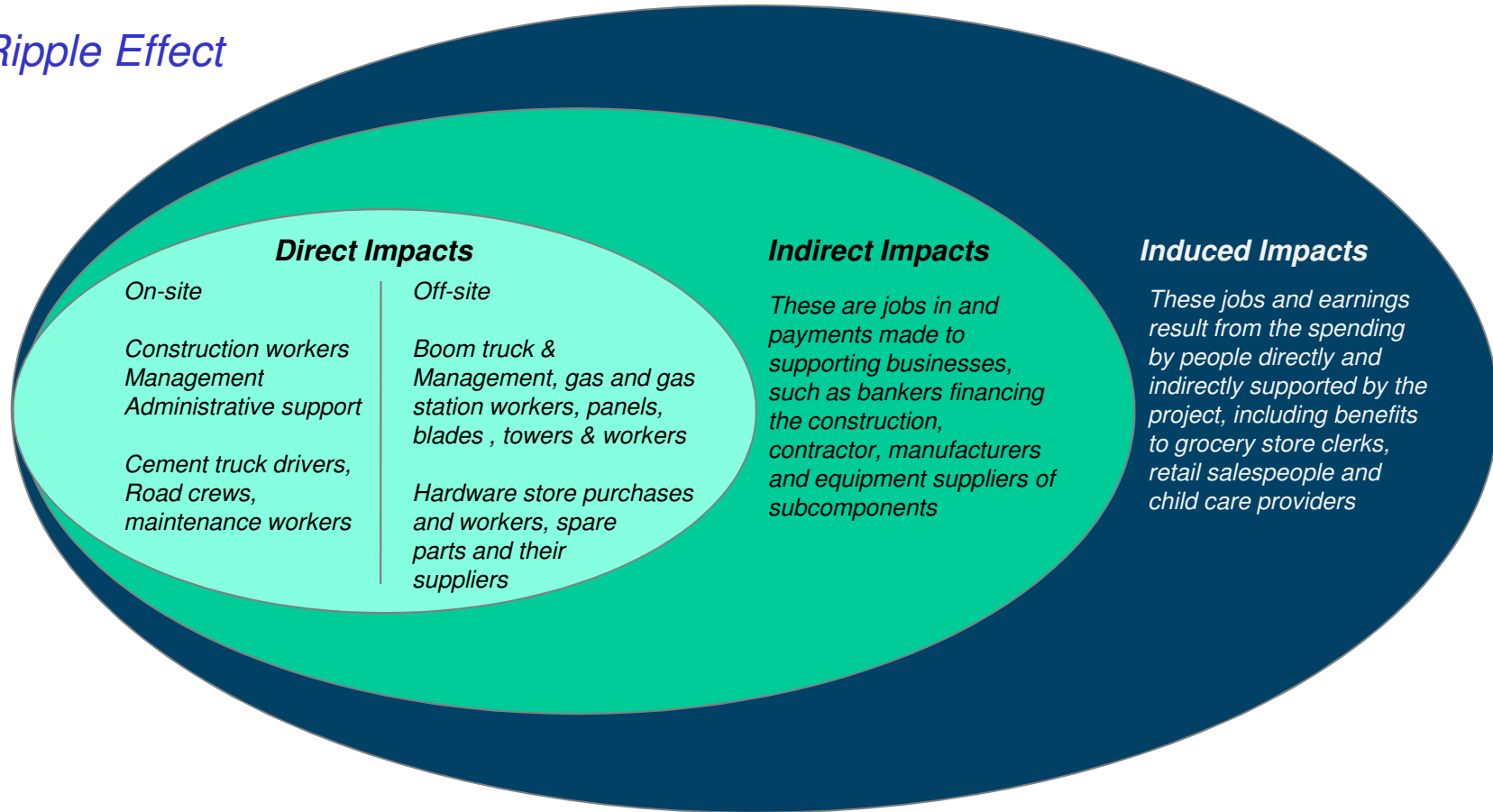


SAMSUNG C&T

Grand Renewable Energy Park

Project Benefits

Ripple Effect



Grand Renewable Energy Park

Current Status

Land Access Rights

- *ORC License Agreement*
- *Private Landowners*

Investigations

- *Survey and Aerial Photography*
- *Geotechnical survey*
- *Natural heritage surveys*
- *Archaeological Assessment surveys*
- *Noise Assessment complete*



SAMSUNG C&T

Grand Renewable Energy Park

Current Status

First Nation Consultation

- *Six Nations consultation and involvement*
- *Mississauga's of New Credit*
- *Métis Nation of Ontario*
- *Other First Nations being included for further consultation*



SAMSUNG C&T

Grand Renewable Energy Park

Current Status

Municipal Consultation

- *Notice of Commencement*
- *Project Description Report*
- *Open House #1*
- *Comments and Response*
- *Haldimand County Hydro*



SAMSUNG C&T

Grand Renewable Energy Park

Current Status

Power Collection

➤ *Collector System*

Below ground from turbine to public road

Above ground on public roads (100 km)

Private and county easement use

Joint use: Haldimand County Hydro

➤ *Collector Substation Location*

Central – Mt Olivet/Rd 20

Operations & Maintenance Facility



SAMSUNG C&T

Grand Renewable Energy Park

Current Status

Power Transmission

➤ *230 KV Transmission Line*

Route Selection

- *Technology*
- *Safety*
- *Time*
- *Cost*

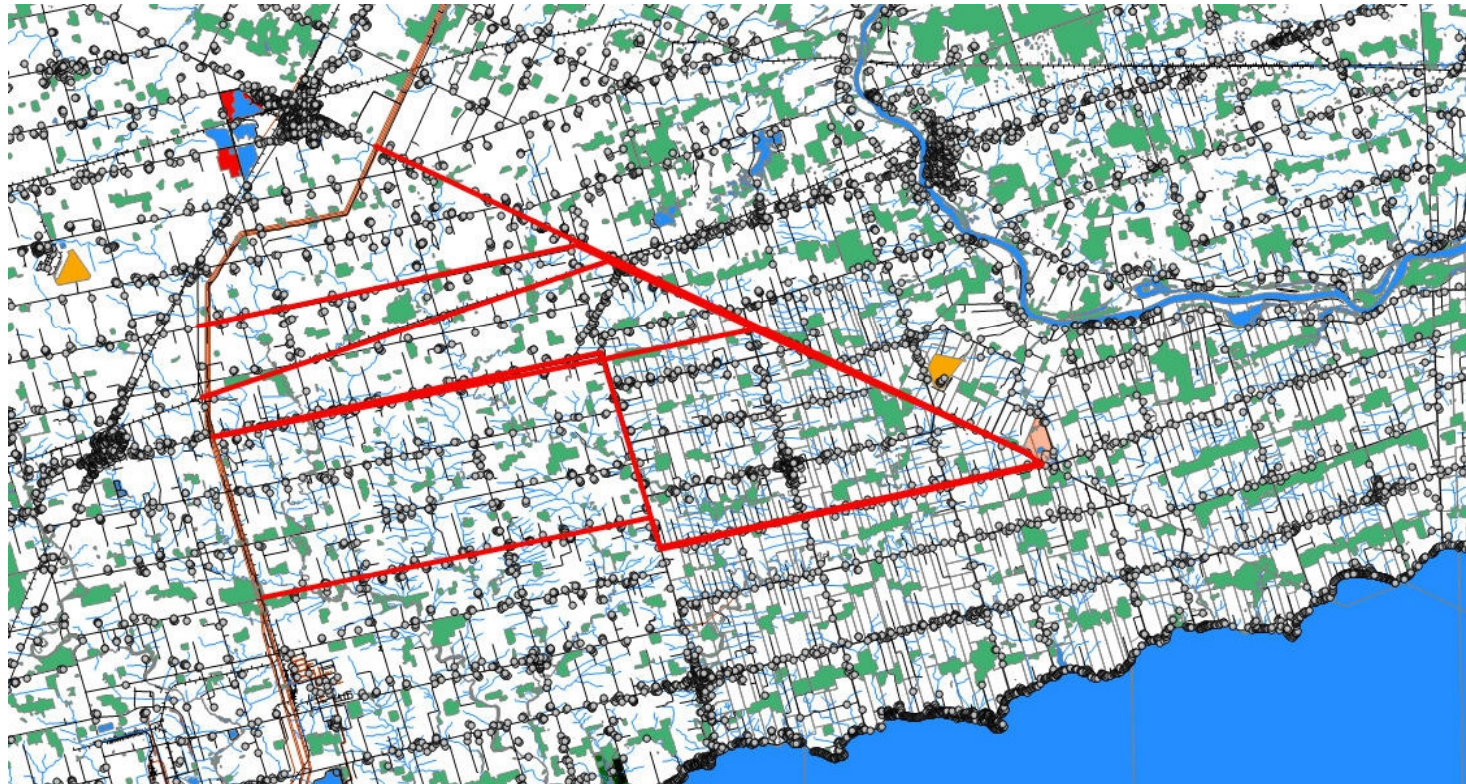


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Grand Renewable Energy Park

Current Status

Transmission Route Selection – 6 Routes



SAMSUNG C&T



Grand Renewable Energy Park

Current Status

Transmission Route Selection – Open House – 3 Routes



SAMSUNG C&T



Grand Renewable Energy Park

Current Status

Transmission Route Selection – Overhead vs Underground?

Table 1 Overhead vs Underground Transmission @ 230 KV		
Criteria	Overhead	Underground
Technology	Proven	New
Reliability	Good	Fair
Repair Time	Short	Long
Decommissioning	Easy	Difficult
Service Contractors	Several	Limited
Ground Temperature	No Change	Elevated
Magnetic Fields	Elevated	@Ground level
ROW Width	Wide	Narrow
Time to Construct	24 months	17 months
Cost	\$1M per km	\$4M per km



SAMSUNG C&T



Grand Renewable Energy Park

Current Status

Transmission Route Selection – Which Route?

Table 2 Route Comparison			
Feasibility Criteria	Haldimand Rd 20	Concession Roads	Private ROW
Technology	O/H or U/G	U/G	O/H
Method	Monopole	Ductbank	Lattice
ROW Width	30m	0m	30m
Easements	Some	Not Req'd	Some
Expropriation	No	No	Yes
Existing Infrastructure	Minimal	Yes	None
Safety Clearances (CSA)	Meets	Meets	Meets
Traffic Clear Zone	8.8m	NA	NA
Esthetics	Pleasing	Pleasing	Objectionable
Time to Construct	24 months	17 months	36 months
Cost	\$20M	\$80M	\$18M

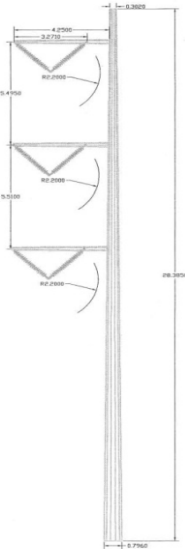


SAMSUNG C&T

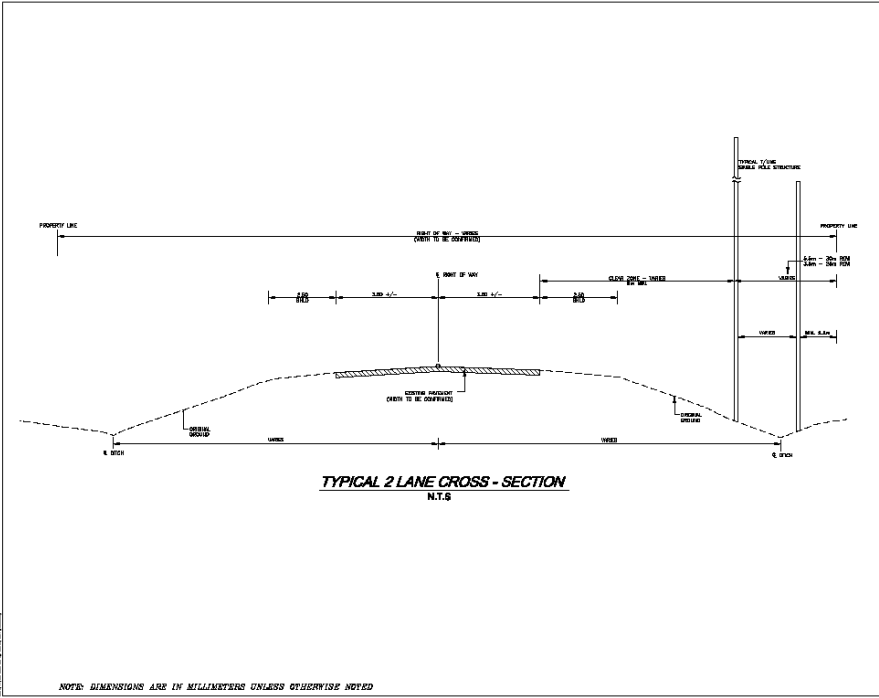
Grand Renewable Energy Park

Current Status

Transmission Route Selection – Preferred Route – Haldimand Rd 20.



Tangent Pole < 0-2 >
 12F- Top Dia. 302mm Taper 18.66mm/m Stee
 Allowable Yield Stress 448 MPa.
 Approximate Dimensions in Meter.



2015-2016
 100 University Avenue
 Toronto, ON M5G 1S7
 Tel: 416 593 4400
 Fax: 416 593 4406
 www.stantec.com

This drawing is preliminary and is not intended for construction.
 It is subject to change without notice and is not to be used for any other purpose.
 The user of this drawing is responsible for obtaining all necessary permits and approvals.
 The user of this drawing is also responsible for ensuring that all applicable laws and regulations are followed.
 The user of this drawing is also responsible for ensuring that all applicable standards are followed.
 The user of this drawing is also responsible for ensuring that all applicable codes are followed.

PRELIMINARY
NOT FOR CONSTRUCTION

Author	Y. Sun	Checked	
Designer		Reviewed	
Project Manager		Approved	
Client		Scale	
Project Name		Sheet No.	
Project No.		Revision	

Samsung Renewable Energy Inc.
 GRAND RENEWABLE ENERGY PARK
 HALDIMAND COUNTY, ONTARIO
 TYPICAL 2 LANE CROSS SECTION
 Scale: 1:100
 Date: 0

Grand Renewable Energy Park

Approvals Overview

Federal

- *Transport Canada – Aeronautical*
- *Transport Canada – Navigational*
- *NavCanada – Land Use*



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Grand Renewable Energy Park

Approvals Overview

Provincial

- *REA (Ministry of Environment)*
- *Grand River and Long Point Conservation Authorities*
- *ESA*
- *IESO/Hydro One*
- *OEB*
- *Ministry of Labour*
- *Ministry of Transportation*



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Grand Renewable Energy Park

Approvals Overview

Municipal

- *Roads and Right of Way Use*
- *Permits:*
 - *Road damage*
 - *Drainage*
 - *Encroachment*
 - *Building*
 - *Access Roads*
 - *Water and Sanitary*
- *Tree Cutting Approval*



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Grand Renewable Energy Park

Haldimand County Role in Approvals

Municipal Involvement

- *Consultation during REA process*
- *Support for OEB Leave to Construct*
- *Consent for use of Right-of-Ways*
 - *Transmission Line*
 - *Collector Lines*



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Grand Renewable Energy Park

Schedule

Milestone	Start/End Date	
Land Acquisition	~June, 2009	~October, 2010
Renewable Resource Analysis	~October, 2009	~April, 2011
Equipment Procurement	~January, 2010	~May, 2011
Power Purchase Agreement	~June, 2010	~August, 2010
Engineering	~June, 2010	~August, 2011
Permitting / Approvals	~May, 2010	~July, 2011
Financing	~March, 2010	~May, 2011
Construction	~July, 2011	~November, 2012
Commercial Operation (targeted)	~November, 2012	~March, 2013



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Grand Renewable Energy Park

Questions?

Questions?



SAMSUNG C&T



Ministry of the Environment

**PART A: TO BE COMPLETED BY THE APPLICANT BEFORE SUBMITTING TO
 MUNICIPALITY OR LOCAL AUTHORITY**

Section 1 – Project Description

1.1 – Renewable Energy Project					
Project Name (Project identifier to be used as a reference in correspondence): Grand Renewable Energy Park					
Project Location: Haldimand County, Ontario.					
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 (includes street number, name, type and direction)				Unit Identifier (i.e. apartment number)	
55 Standish Court Mississauga, ON L5R 4B2 * Samsung Renewable Energy Inc. Headquarters					
Survey Address (Not requires if Street information is provided)					
Lot and Conc.: Used to indicate location within a subdivided township and consists of a lot number and a concession number.			Part and Reference: Used to indicate location within unorganized territory, and consists of a part and a reference plan number indicating the location within that plan. Attach copy of the plan.		
Lot Multiple Lot and Conc. Locations (see attached documents)	Conc.	Part Multiple locations (see attached documents)		Reference Plan	
Location Information (includes any additional information to clarify physical location)(e.g. municipality, ward/ township) Project Location is generally bounded by Townline Road to the north, Haldimand Road 20 to the west, the Grand River to the east and Lake Erie to the south					
Geo Reference : Southeast Corner of Study Area					
Map Datum	Zone	Accuracy Estimate	Geo Referencing Method	UTM Easting	UTM Northing
NAD83	17	Sub meter	Arc GIS 9.3	615873.86	4745410.01

Project Phasing (outline construction, operation and decommissioning activities)

Key Project Activities

Project Phase	Activities
Construction	Turbine and Solar Sites
	Delineation of temporary work areas
	Access road construction
	Completion of necessary site grading
	Installation of tower and panel foundations
	Installation of crane pads
	Tower/turbine erection and panel installation
	Installation of step-up transformer and required wiring
	Installation of collector lines, usually parallel to access roads
	Reclamation of temporary work areas
	Site landscaping (final grading, topsoil replacement, etc.)
	Electrical Transmission Sites
	Preparation of laydown area
	Installation of substation and connection with grid
	Construction of operations and maintenance building
	Reclamation of temporary work areas
Off-Site Activities	
Installation of collector lines and transmission line in municipal road right of way	
Operation	Turbine and Solar Sites
	Preventative maintenance
	Unplanned maintenance
	Meter calibrations
	Grounds keeping
	Electrical Transmission Sites
	Preventative maintenance for substation
	Unplanned maintenance for substation
	Remote wind farm condition monitoring
	Operations and maintenance building maintenance
	Off-Site Activities
Electrical line maintenance	
Decommissioning	Turbine and Solar Sites
	Removal of turbine and solar panel infrastructure
	Removal of step-up transformer
	Site grading (dependent upon new proposed use)
	Possible removal of access roads dependent upon agreement with property owner
	Possible excavation and removal of collector lines depending upon agreement with property owner
	Off-Site Activities
	Possible removal of collector system and transmission line in municipal right of way (remove wires and poles)
Disconnection of substation from provincial grid	
Removal of substation	

1.2 - Environmental Context

Describe any negative environmental effects that may result from engaging in the project (*consider construction, operation and decommissioning activities.*)

The potential negative effects that may result from engaging in the Project have been fully described within the attached reports. Specifically, the attached reports address the following:

Construction Plan Report

Sets out a description of the details of the construction activities, location and timing of activities, any negative effects which may result from the activities, and mitigation measures in respect of the negative effects. Site plans during the construction phase have also been provided.

Design and Operations Report

Sets out a site plan of the Project during the operational phase of the Project, conceptual plans/descriptions detailing the operational activities associated with the Project, an environmental effects monitoring plan in respect of any negative environmental effects that may result from operation of the Project, and a response plan setting out the actions for dealing with/informing stakeholders during operation of the Project.

Decommissioning Plan Report

Sets out a description of the decommissioning activities including procedures for dismantling the facility, activities related to restoration of land and water negatively affected, and procedures for managing excess materials and waste.

Project Description Report

Provides a summary of the above noted reports including information such as the energy sources to be used, the activities to be engaged in, the associated potential negative effects, and site plans for the Project.

Propose early avoidance/prevention/mitigation concepts and measures

Avoidance through proper siting of the Project has been the most important preventative measure used for the Project including adherence to regulated setbacks. All proposed avoidance, mitigation, and monitoring plans are detailed in the above noted reports including proposed contingency plans (Design and Operations Report) to be implemented if monitoring identifies negative effects associated with the Project.

1.3 – Renewable Energy Generation Facility

Type of Facility / Operation (*select all that apply & complete all appropriate sections*)

- Wind Facility (Land Based)
- Wind Facility (Off Shore)
- Biogas Facility (Anaerobic Digesters)
- Biomass Facility (Thermal Treatment)
- Biofuel Facility
- Solar Power Voltaic Facility
- Other describe:
- Class (if applicable):

Name Plate Capacity	Expected Generations	Service Area	Total Area of Site (hectares)
253.1 MW	N/A	South western Ontario	21393.39 Ha

Provide a description of the facilities equipment or technology that will be used to convert the renewable energy source or any other energy source to electricity.

Project components are detailed in Section 2.3 of the Project Description Report. In general, the Project will consist of 69 Siemens model SWT-2.3 wind turbines (the majority de-rated to 2.221 MW nameplate capacity), approximately 325 hectares of solar panels, and the creation of a 19 km long transmission line which will connect the Project to the provincial grid.

1.4-Renewable Energy Generation Activities

Describe the activities that will be engaged in as part of the renewable energy project:

Project activities are detailed above (Key Project Activities under Project Phasing). This includes activities during the construction, operation, and decommissioning stages of the Project.

Section 2 – Supporting Documents

2.1- Requirement	Name of Draft Document distributed for consulting	Date available to Municipal or Local Authority Contact
DRAFT Project Description Report	DRAFT Project Description Report	February 16, 2011
DRAFT Design and Operations Report	DRAFT Design and Operations Report	February 16, 2011
DRAFT Construction Plan Report	DRAFT Construction Plan Report	February 16, 2011
DRAFT Decommissioning Plan	DRAFT Decommissioning Plan	February 16, 2011
List of Other Documents	None	

Location where written draft reports can be obtained for public inspection (*physical location for viewing and the applicants project website if one is available*):

To be determined prior to the issuance of the Notice of Public Meeting (at least 60 days before the Public Meeting). Public viewing locations will be indicated in the Notice of Public Meeting.

Section 3 – Applicant Address and Contact Information

3.1 Applicant Information (Owner of project/facility)				
Applicant Name <i>(legal name of individual or organization as evidenced by legal documents)</i> Samsung Renewable Energy Inc.			Business Identification Number 85118 086 RT0001	
Business Name <i>(the name under which the entity is operating or trading - also referred to as trade name)</i>			<input checked="" type="checkbox"/> same as Applicant Name	
Civic Address- Street information <i>(includes street number, name, type and direction)</i> 55 Standish Court Mississauga, ON L5R 4B2			Unit Identifier <i>(i.e. apartment number)</i>	
Survey Address (Not required if Street Information is provided)				
Lot and Conc.: used to indicate location within a subdivided township and consists of a lot number and a concession number.		Part and Reference: used to indicate location within an unsubdivided township or unsurveyed territory, and consists of a part and a reference plan number indicating the location within that plan. Attach copy of the plan.		
Lot	Conc.	Part	Reference Plan	
Municipality	County/District	Province/State	Country	Postal Code

PART B: TO BE COMPLETED BY THE MUNICIPALITY OR LOCAL AUTHORITY

Section 4 – Municipal or Local Authority Contact Information (check the one that applies)

Local Municipality (include each local municipality in which project is situated) <input type="checkbox"/> Yes <input type="checkbox"/> No					
Name of Municipality	Address	Phone	Clerk's Name	Clerk's Phone/Fax	E-mail Address
Upper Tier Municipality (include each upper tier municipality in which project location is) <input type="checkbox"/> Yes <input type="checkbox"/> No					
Name of Municipality	Address	Phone	Clerk's Name	Clerk's Phone/Fax	E-mail Address
Local road area (include each local roads area in which project location is situated) <input type="checkbox"/> Yes <input type="checkbox"/> No					
Name of local roads board	Address	Phone	Secretary-treasurer's Name	Secretary-treasurer's Phone/Fax	E-mail Address
Board Area (include each board area in which project location is situated) <input type="checkbox"/> Yes <input type="checkbox"/> No					
Name of Local Service Board	Address	Phone	Secretary's Name	Secretary's Phone/Fax	E-mail Address

Section 5: Consultation Requirement

5.1 - Project Location
Provide comment on the project location with respect to infrastructure and servicing.
5.2 – Project Roads
Provide comment on the proposed project’s plans respecting proposed road access.
Identify any issues and provide recommendations with respect to road access
Provide comment on any proposed Traffic Management Plans
Identify any issues and provide recommendations with respect to the proposed Traffic Management Plans

5.3 – Municipal or Local authority Service Connections
Provide comment on the proposed project plans related to the location of and type of municipal service connections, other than roads.
Identify any issues and provide recommendations with respect to the type of municipal service connections, other than roads.

5.4 – Facility Other
Identify any issues and recommendations with respect to the proposed landscaping design for the facility Provide comment on the proposed project plans for emergency management procedures / safety protocols.

Identify any issues and recommendations with respect to the proposed emergency management procedures /safety protocols.
Identify any issues and recommendations with respect to any Easements or Restrictive Covenants associated with the Project Location
5.5 Project Construction
Identify any issues and recommendations with respect to the proposed rehabilitation of any temporary
Identify any issues and recommendations with respect to the proposed location of fire hydrants and connections to existing drainage, water works and sanitary sewers
Identify any issues and recommendations with respect to the proposed location of buried kiosks and above-grade utility vaults
Identify any issues and recommendations with respect to the proposed location of existing and proposed gas and electricity lines and connections
Provide comment on the proposed project plans with respect to Building Code permits and licenses.
Identify any issues and recommendations related to the identification of any significant natural features and water bodies within the municipality or territory.

Identify any issues and recommendations related to the identification any archaeological resource or heritage resource.

Friedl, Susanne

From: Kozak, Mark
Sent: Tuesday, February 15, 2011 2:59 PM
To: JAMES GOODRAM
Cc: 'Adam Rosso'
Subject: Grand Renewable Energy Park - Municipal Consultation Form
Attachments: CoverPage.pdf

Good afternoon Mr. Goodram,

Please find the attached cover letter from Samsung regarding the issuance of the REA Municipal Consultation Form and Draft REA Reports to Haldimand County. Below, you will find a link to our secure FTP site where you can download the Draft REA Reports and Consultation Form. Hard copies of the reports and Consultation Form are currently being delivered to your office.

Please do not hesitate to contact me if you have any questions.

Regards,
Mark

Automatic Login

FTP site link: <ftp://s0301065810:9569989@ftptmp.stantec.com>

By clicking on the link above (or pasting the link into Windows Explorer) you will be automatically logged into your FTP site.

Manual Login

FTP link: <ftp://ftptmp.stantec.com>

Login name: s0301065810

Password: 9569989

Disk Quota: 2GB

Expiry Date: 3/1/2011

If your site has not expired and you require a onetime 2 week extension, please contact the [IT Service Center](#).

Mark Kozak, BES

Environmental Scientist

Stantec

Suite 1 - 70 Southgate Drive

Guelph ON N1G 4P5

Ph: (519) 836-6050 Ext. 276

Fx: (519) 836-2493

Cell: (519) 820-1062

mark.kozak@stantec.com

stantec.com

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Samsung Renewable Energy

HALDIMAND COUNTY

FEB 15 2011

RECEIVED

Samsung Renewable Energy Inc.
55 Standish Court, 9th Floor
Mississauga, Ontario L5R 4B2

February 15, 2011

Haldimand County
45 Munsee Street North
P. O. Box 400
Cayuga, Ontario NOA 1E0

Attention: Mr. James Goodram

RE: Grand Renewable Energy Park Municipal Consultation Package

Dear Mr. James Goodram;

As per the requirements of Ontario Regulation 359/09, please find enclosed the municipal consultation forms for the Grand Renewable Energy Park (Project). The submission of the municipal consultation forms initiates the commencement of the 90 day municipal review. In addition to the municipal consultation forms the following reports are also enclosed:

- Project Description Report
- Construction Plan Report
- Design and Operations Report
- Decommissioning Report

Samsung Renewable Energy Inc. would also like to offer a meeting with Municipal staff to present a summary of the reports and identify next steps. If you have any questions regarding our Project, please do not hesitate to contact the undersigned at (905) 285-1872 or via email at a.rosso@samsungrenewableenergy.ca.

All the best,
Samsung Renewable Energy Inc.

Adam Rosso

Friedl, Susanne

From: Adam Rosso <a.rosso@samsungrenewableenergy.ca>
Sent: Wednesday, April 13, 2011 10:34 AM
To: Paul Heeg
Cc: Lloyd Payne; JAMES GOODRAM; ???; Marnie Dawson; Kozak, Mark
Subject: RE: Samsung's Grand Energy Renewable Park - Municipal Consultation Form
Attachments: image001.jpg

Follow Up Flag: Follow up
Flag Status: Flagged

Hi Paul;

We haven't provided a package to Haldimand Hydro as of yet because we're waiting for MNR sign off. Once we get confirmation from them we'll release the full package to all stakeholders including Haldimand Hydro.

James, I'd like to remind you that you have lots of time to complete the municipal consultation form. We are providing Haldimand County nearly two to three times the required duration to be able to have an early review of the documents already provided. I'd like to point out that the package we've current sent to the municipality is not the full REA package. The package we provided to the county included 4 documents. Those documents are the specific reports required under Reg. 359 that the municipality has an additional 30 days to review prior to providing a complete package to all stake holders, of which Haldimand Hydro is a member. In our case we are providing more than 30 days.

Thanks Kindly;



Renewable Energy Inc.

Adam Rosso, P.Eng., M.Sc.
Manager, Business Development
C: 416.389.8942
T: 905.285.1872
E: a.rosso@samsungrenewableenergy.ca

From: Paul Heeg [mailto:pheeg@hchydro.ca]
Sent: Wednesday, April 13, 2011 9:26 AM
To: Adam Rosso
Cc: Lloyd Payne; JAMES GOODRAM
Subject: Samsung's Grand Energy Renewable Park - Municipal Consultation Form
Importance: High

Hi Adam,

On March 8, 2011 Haldimand County Hydro had been notified by Haldimand County's Economic Development & Tourism Division about a Samsung Grand Energy Renewable Park - Municipal Package for the purposes of a REA Municipal Consultation Form review.

I had requested a copy of the package from Haldimand County on March 8, 2011 for participation but did not receive one.

Haldimand County (James Goodram, Manager) has informed me that Haldimand County Hydro should have received a package directly from Samsung.

This is a request for the referenced package so Haldimand County Hydro has an opportunity to provide comments to Haldimand County as part of the REA Municipal Consultation Review.

Please contact me if you have any questions.

Regards,

Paul Heeg
Engineering Manager
Haldimand County Hydro Inc.
(905) 765 5211 x 2247



Stantec

Stantec Consulting Ltd.
70 Southgate Drive Suite 1
Guelph ON N1G 4P5
Tel: (519) 836-6050
Fax: (519) 836-2493

July 7, 2011

File: 160960577

Haldimand County
45 Munsee Street North
P.O. Box 400
Cayuga, Ontario N0A 1E0

Attention: Mr. James Goodram, Manager – Economic Development and Tourism

Reference: Grand Renewable Energy Park Municipal Consultation Package

Dear: Mr. Goodram;

Thank you for your continued involvement in the development of the Grand Renewable Energy Park (the Project). I am writing to follow-up on various Project related correspondence that was previously provided to you.

On February 15, 2011, you were sent a cover letter, four Draft REA Reports (Project Description Report, Construction Plan Report, Design and Operations Report, and Decommissioning Plan Report) and the Municipal Consultation Form for the Project. This information was provided at the commencement of the 90-day municipal review period as per the requirements of Ontario Regulation 359/09. We provided you with the Municipal Consultation Form and four Draft REA Reports with the intent of receiving comments related to public works type matters (e.g. public roads, service connections, construction concerns, etc.) from the County.

We are sending this follow-up letter, as the 90 day municipal review period ended on May 15, 2011, and we have not received any written comments from Haldimand County related to the Municipal Consultation Form. For your convenience, we have attached a copy of the Municipal Consultation Form that was provided to you on February 15, 2011. Please let us know if you have any comments regarding the Project by filling out the attached form.

In addition, we are in the process of completing Draft REA Reports for public review and comment. We anticipate the release of these reports for a 60-day public review in the next few months. For your information, we will be providing a copy of the reports to you at that time.

If you have any questions regarding the Project, please do not hesitate to contact the undersigned at 519-836-6050 or via email at mark.kozak@stantec.com. Thank you for your time and we appreciate your comments.

July 7, 2011
Mr. Goodram
Page 2 of 2

Reference: Grand Renewable Energy Park Municipal Consultation Package

Sincerely,

STANTEC CONSULTING LTD.

A handwritten signature in black ink, appearing to read 'M. Kozak', written over a light blue horizontal line.

Mark Kozak
Environmental Scientist
Tel: (519) 836-6050
Fax: (519) 836-2493
mark.kozak@stantec.com

Attachment: Municipal Consultation Form – February 15, 2011

CC. Adam Rosso, Samsung Renewable Energy Inc.



Stantec Consulting Ltd.
Suite 1 - 70 Southgate Drive
Guelph ON N1G 4P5
Tel: (519) 836-6050
Fax: (519) 836-2493

Stantec

July 19, 2011
File: 160960577

Haldimand County
45 Munsee Street North
PO Box 400
Cayuga ON N0A 1E0

Attention: Evelyn Eichenbaum, Clerk

Dear Ms. Eichenbaum:

Reference: Grand Renewable Energy Park – Release of Draft Renewable Energy Approval Reports

Samsung C&T (Samsung), Pattern Energy (Pattern), and Korea Power Electric Corporation (KEPCO) (together, these companies referred to herein as “SPK”) are proposing to develop, construct, and operate a wind and solar energy project as part of the Grand Renewable Energy Park, in Haldimand County. SPK is planning to engage in this renewable energy project in respect of which the issuance of Renewable Energy Approvals (REA) is required. The proposal to engage in the project and the project itself are subject to the provisions of the *Environmental Protection Act (ACT)* Part V.0.1 and Ontario Regulation 359/09 (O. Reg. 359/09).

On behalf of SPK, Stantec is pleased to provide you with a copy of the Draft REA Reports for your review and comment. As required under O. Reg. 359/09 and the Ministry of Natural Resources (MNR) *Approval and Permitting Requirements Document (APRD) for Renewable Energy Projects*, this Draft REA Reports package includes the following draft reports:

- Project Description Report – as outlined in item 10 of Table 1 of O. Reg. 359/09;
- Natural Heritage Assessment Report – as required under sections 24, 25, 26, 27 and 28 of O. Reg. 359/09 and section 6.3 of the MNR’s Requirements Document;
- Construction Plan Report – as outlined in item 1 of Table 1 of O. Reg. 359/09 and section 6.7 of the MNR’s Requirements Document;
- Design and Operations Report – as outlined in item 4 of Table 1 of O. Reg. 359/09 and section 6.6 of the MNR’s Requirements Document;
- Decommissioning Plan Report – as outlined in item 3 of Table 1 of O. Reg. 359/09 and section 6.8 of the MNR’s Requirements Document;
- Environmental Impact Study – as required under section 38 of O. Reg. 359/09;
- Wind Turbine Specifications Report – as outlined in item 13 of Table 1 of O. Reg. 359/09;
- Archaeological and Heritage Reports - as required under sections 19, 20, 21, 22 and 23 of O.Reg. 359/09;

July 19, 2011
Ms. Eichenbaum
Page 2 of 2

Reference: Grand Renewable Energy Park – Release of Draft Renewable Energy Approval Reports

- Water Body and Water Assessment Report - as required under sections 29, 30 and 31 of O. Reg. 359/09. Further information related to potential effects and mitigation measures to water bodies, as required under sections 39, 40, 44, and 45 of O. Reg. 359/09 is provided in the Water Body and Water Assessment Report, Construction Plan Report and Design and Operations Report; and,
- Project Summary Report – as outlined in section 17. (1)3 of O. Reg. 359/09.

Copies of the MNR's confirmation letter of the Natural Heritage Assessment/Environmental Impact Study and the Ministry of Tourism and Culture written comments/confirmation have also been provided within the package.

As described in the attached Notice of Public Meeting, these reports are being provided for review and comment from **July 23, 2011 to September 22, 2011**. To learn more about the project proposal, the public meeting, and to communicate questions regarding the attached material, please contact the project team via e-mail at GrandRenewable@SamsungRenewableEnergy.ca or by phone at 1-877-536-6050 or 1-519-836-6050. Written comments can also be directed to the undersigned.

We respectfully request all comments to be provided by no later than September 22, 2011 for their inclusion within SPK's Renewable Energy Approval application.

Sincerely,

STANTEC CONSULTING LTD.



Mark Kozak, BES
Project Manager
Tel: (519) 836-6050
Fax: (519) 836-2493
mark.kozak@stantec.com

Attachment: Draft Renewable Energy Approval Report package
Notice of Public Meeting

c. James Goodram, Haldimand County
Adam Rosso, Samsung Renewable Energy Inc.

Meeting Notes

Grand Renewable Energy Park – Haldimand County Meeting



Stantec

Date/Time: August 26, 2011 / 10 AM
Place: Haldimand County
Next Meeting: N/A
Attendees: Adam Rosso, Andrew Moores, James Goodram, Lidy Romanuk, Rick Smith, Zach Gable, Drew Cherry, Michal Masior, Kris Fanklin, Paul Heeg, Judy Brown, Tim Dickhout, Dean Stewart, Nasir Mahmood, Alan Gee, Tyson Haedrich, Mark Kozak, Hagen Lee
Absentees:
Distribution: All

Item:

Action:

Municipal Consultation Form

County provided a copy and an overview of their comments with respect to the Municipal Consultation Form. A brief discussion was held to review the key concerns of the County. Comments are in draft form and will be provided to Council for endorsement before being officially provided to Samsung/Stantec (earliest date of Sept 19). Samsung/Stantec will begin to prepare written responses to the draft comments prior to receipt of endorsed comments from Council (responses will be revised based on Council revisions to the comments). Samsung/Stantec noted that some comments cannot be addressed during the REA stage, but will be addressed during detailed design once an EPC contractor has been confirmed. County agreed with this commitment and approach.

County to provide a copy of the revised comments to Samsung prior to Council endorsement.

GRCA Comments

GRCA will provide written comments at a later date. Initial concerns are related to impacts to wetlands and variations in the boundaries compared to GRCA data. Stantec committed to setting up a meeting with GRCA (and LPRCA) within the next two weeks to further review the conservation authorities concerns (may include additional site visits). GRCA requested digital copies of the GIS files of the natural features layers to compare to GRCA data. GRCA will also have timing windows for any required in-water works.

Stantec to set up a meeting with GRCA and LPRCA within the next two weeks.

Stantec to send GIS shape files of natural feature layers to GRCA.

One Team. Infinite Solutions.

Preliminary Construction Drawings

County requested preliminary construction drawings for initial review. Eight sets of full drawings will be required once finalized. If available at the preliminary stage, entrance details from County roads are to be provided.

Samsung will provide a copy (hard and electronic) to the County for initial review.

Right-of-way Investigations

Other infrastructure is located within the County road rights-of-way and Samsung will be required to conduct investigations of this infrastructure. Other users include Bell, Union Gas, etc. and meetings may be required with these providers. The County will provide a list of utility providers to Samsung that were involved with NextEra's adjacent project.

County to provide a list of utility providers to Samsung that were involved with NextEra's adjacent project.

Road Upgrades and Construction Updates

The County provided a copy of the Haldimand County Design Criteria for road upgrades that will need to be adhered to by Samsung during road upgrade work. The County is upgrading staff resources to facilitate a construction update process. County requested that Samsung assist in the development of a plan to provide construction related updates to the County throughout the construction process.

Samsung committed to assisting with the development of a construction update plan. This commitment to be included in the REA Reports.

Haldimand Road 20

The County confirmed that it has no plans to expand the road surface of Haldimand Road 20 in the foreseeable future.

Additional Permits

The County requested that Samsung provide copies of additional permits received from other agencies so that they can be kept on file (e.g. MTO, GRCA, etc.)

Samsung will provide copies of additional permits on an on-going basis.

Haldimand County Hydro

Haldimand County Hydro was present, but indicated they would not be commenting through the Municipal Consultation Form as discussions related to the transmission line are being dealt with under a separate

Stantec

August 26, 2011
Grand Renewable Energy Park – Haldimand County Meeting
Page 3 of 3

regulatory process.

The meeting adjourned at 12 PM.

The foregoing is considered to be a true and accurate record of all items discussed. If any discrepancies or inconsistencies are noted, please contact the writer immediately.

STANTEC CONSULTING LTD.

A handwritten signature in black ink, appearing to read 'M. Kozak', with a long, sweeping horizontal stroke extending to the right.

Mark Kozak, BES
Environmental Scientist
mark.kozak@stantec.com

Renewable Energy Approval Consultation Form: Municipalities, Local Authorities

****Municipal Consultation Process for Haldimand County****

Please note once the Haldimand County Renewable Energy Review Team completes the Renewable Energy Approval – Municipal Consultation Form the process is to submit a report to Council seeking their approval of the comments included on the form.

The Grand Renewable Energy Park project, being proposed within Haldimand County will require the use of County road allowances for the collection and transmission of electricity generated as a result of these private, for-profit energy projects. Haldimand County will require compensation for said use of County road allowances; the amount of which is to be negotiated and approved by Council prior to Haldimand County permitting works within County Road allowances.

It should be noted that in no way does the submission of the attached Municipal Consultation form constitute the completion of municipal involvement or approval of the Grand Renewable Energy project. This is simply the end of the first phase of the development approval process and staff will look forward to continuing the positive professional working relationship between the company and the County.

In addition concerns were raised by Haldimand County Council and forwarded to the proponent via email on August 24, 2010. These concerns have yet to be fully addressed by the proponent. Haldimand County concerns are as follows:

1. Council has requested greater details relating to the cutting of woodlots and proposed measure for replacement of these environmental features. Also how other features including wetlands and significant species will be impacted/mitigated.
2. Evaluation of the possible impacts of the anchoring of wind turbines to bedrock and whether this provides a conduit for the transmission of vibration to other properties.
3. The relationship of the proposed electrical transmission corridors to the County's Trail Master Plan and opportunities/constraints that may exist or occur.
4. Clarification on the location of the transmission corridor.
5. Confirmation that the decommissioning plan, funding mechanism and report will include the capital works in the transmission corridor.
6. The impact of construction traffic and access from the County Road system to the project components and how this will be addressed.
7. As part of the economic impact assessment conduct a complete comparison of the difference between the project and the use of the land for agricultural purposes to Haldimand County. Also provide a breakdown of the type of jobs to be created.

Since the original comments were forwarded on August 24, 2010, additional concerns and issues have been raised by Council and the community. These are as follows:

1. The impact this project will have on tourism.

2. The impact on the property values of land adjacent to project.
3. Additional information and studies to show how the setback of a wind turbine of 550 metres was determined.
4. A request for studies that demonstrate how high or low pitch frequencies affect the nervous and mobility system and the long term affects for human and animal health.
5. A request for the results of studies on how wild life (birds, deer, fox, rabbit, wolf, mice, earthworms, insects etc.) are affected in the immediate and surrounding areas where wind turbines are already in place.
6. A request for confirmation that upon the termination of the wind turbines projects the land involved in the projects will revert back to agriculture land from industrial.
7. Demonstrated outcomes of the consultation with the First Nations on all renewable energy projects.

5.1 Project Location

Provide comment on the project location with respect to infrastructure and servicing

Haldimand County Review Team Comments

All drawings and documents reports shall be submitted in full size/original format. Drawings for approvals shall be dated, stamped and signed.

Detailed as constructed drawings will be required by the county for all infrastructure located within the right of way.

SOLAR

Wilson Road (mud road) north of Haldimand Road 20 is proposed to be closed to accommodate the operation of the solar facility, further discussions has taken place for road closure/lease of the Road Allowance. Please note closure of Wilson Road will require the proponent to proceed through the road closure process through the Haldimand County Clerks Office. This issue will need to be resolved prior permitting/construction. Ultimately, access must remain in place to existing residences and entrances.

Investigation into the impact of the proposed berm /fencing regards to potential snow drifting onto Haldimand Road 20 must be addressed.

WIND

Please see comments in attached site tour notes.

Turbines # 15, 17, 44, have entrances off of mud roads. Roads will be required to be upgraded to County standard to allow for emergency services access during and after construction. Refer to Appendix B of the Haldimand County Design Criteria.

Additionally, the Haldimand County Renewable Energy Review team requests that all turbines located near urban areas are reviewed to determine appropriate setbacks from urban boundaries.

Ramsey Road extension (south Dunnville Airport) is proposed to be closed to accommodate the operation of the wind facility, further discussions has taken place for road closure/lease of the Road Allowance. Please note closure of the unopened road will require the proponent to proceed through the Haldimand County Clerks Office. This issue will need to be resolved prior permitting/construction.

The adjacency and overlapping of part of this project with NextEra's "Summerhaven Wind Energy Centre" project may be a potential source of cumulative noise impacts. In this situation, the geographic boundaries of the two projects may have to be jointly drawn and joint noise modelling may be required to be completed to ensure that

cumulative noise impacts are appropriately quantified and mitigative measures are considered. It must also be ensured that these measures actually work and wind turbines in the two projects are located in such a manner that they do not accentuate on another's noise.

WIND & SOLAR

In view of the project's potential to generate noise, a Noise Study Report must be prepared to ensure that all required certificates of approval are obtained and that the project is in compliance with MOE's noise guidelines.

In view of the project's potential to generate flicker/reflection effect, a reflection study should also be completed, and mitigation measures adopted to minimize potential distress to the public.

TRANSMISSION

Locations of poles should be investigated to minimize the impacts on woodlots and demonstrate consideration to the existing residences, private property constraints, as well as, existing utility infrastructure.

The alignment of the transmission line should avoid the removal of trees from existing woodlots.

In order to provide a clear zone and to facilitate in the regular roadway maintenance Haldimand County prefers that poles be placed on the back side of ditches. Where sufficient clear zone can not be achieved appropriate mitigating measures must be proposed for review.

OPERATION MAINTENANCE BUILDING

Further comments to follow with submission of detailed construction drawings.

WIND & SOLAR

In order to minimize impact on prime agricultural lands, the lowest quality agricultural lands should be used for the proposed wind energy and solar projects.

5.2 Project Roads

Provide comment on the proposed project's plans respecting proposed road access

Haldimand County Review Team Comments

SOLAR

Wilson Road (mud road) north of Haldimand Road 20 is proposed to be closed to accommodate the operation of the solar facility, further discussions has taken place for road closure/lease of the Road Allowance. Please note closure of Wilson Road will require the proponent to proceed through the road closure process through the Haldimand County Clerks Office. This issue will need to be resolved prior permitting/construction. Ultimately, access must remain in place to existing residences and entrances.

WIND

Please see comments in attached site tour notes.

Turbines # 15, 17, 44, have entrances off of mud roads. Roads will require upgrade to allow for emergency services access during and after construction. Refer to Appendix B of the Haldimand County Design Criteria.

Haldimand County requires all access roads to be well signed, as there is a concern that the public might perceive these as concession roads or trails. Labelling of entrances to be addressed at pre-construction phase.

Turbine sites with entrances on different roads other than the parcel address should be noted.

Haldimand County Review team will need to review road entrances and access roads when final design completed. Also where 2 or more road accesses will abut the same road, intersection details will be required. Haldimand

County will be reviewing structures on access roads, and ensure adequate crossing, bridges culverts etc. when final design forwarded.

Haldimand County Review Team will require details of all access roads that have a parallel component adjacent to county roads. The details shall include:

- Plan at scale showing: all relevant dimensions, existing and proposed grades and covering: public right-of-way, roadside ditches, utility locations, proposed access road, proposed collector lines, drainage pattern and extended topographic data of min. 15m to the adjacent land.
- Minimum two (2) cross sections at scale to illustrate grading/drainage design approach (preferable at low and high point).

WIND & SOLAR

In order to determine the extent of damage to roads in Haldimand County and to estimate the restoration costs, pre and post construction road conditions surveys need to be coordinated with Haldimand County. An appropriate agreement and a suitable security should be collected to ensure that the affected roads are restored to pre-construction condition.

Please note all required Haldimand County Permits will not be granted until all requested documents and reports are submitted and approved by Haldimand County.

TRANSMISSION

Pole location should be such that the need for separate entrances is minimized.

OPERATION MAINTENANCE BUILDING

Further comments to follow with submission of detailed construction drawings.

Identify any issues and provide recommendations with respect to road access

Haldimand County Review Team Comments

SOLAR

Wilson Road (mud road) north of Haldimand Road 20 is proposed to be closed to accommodate the operation of the solar facility, further discussions has taken place for road closure/lease of the Road Allowance. Please note closure of Wilson Road will require the proponent to proceed through the road closure process through the Haldimand County Clerks Office. This issue will need to be resolved prior permitting/construction. Ultimately, access must remain in place to existing residences and entrances.

WIND

Haldimand County Entrance permits required for all turbines with the exception of Turbines# 18, 33, 34, 36, 41 and 45. These are located on Highway 3 and under The Ministry of Transportation jurisdiction and will require MTO permits. Entrance permits will require detailed drawings as well as intersection details where applicable.

During the construction phase this project will be putting in place a fairly significant road system in our rural area. Haldimand County requires all access roads to be well signed as there is a concern that the public might perceive these as concession roads/trails. Labelling of entrances to be addressed at pre-construction phase. Access for turbines along the shore of Lake Erie will require additional attention as these roads are frequently narrow and intended to provide local access to the high density of cottage properties that are subject to seasonal traffic variations.

Turbine sites with entrances on different roads other than the parcel address should be noted.

A second access is required due to the number of turbines and length of access road for turbines #1, 3, 6, 8, 54, 69.

Ramsey Road extension (south Dunnville Airport) is proposed to be closed to accommodate the operation of the wind facility, further discussions has taken place for road closure/lease of the Road Allowance. Please note closure of the unopened road will require the proponent to proceed through the Haldimand County Clerks Office. This issue will need to be resolved prior permitting/construction.

There is a half-load restriction on many Haldimand County roads between March 1st and April 30. Also, please note any posted bridge load restrictions.

Please see comments in attached site tour notes.

TRANSMISSION

Pole locations should be such that the need for separate entrances is minimized.

Detailed drawing and further investigation will be required for proposed underground section through Nelles Corners. Particular attention should be given to utility locations, and the preconstruction condition of the existing buildings.

OPERATION MAINTENANCE BUILDING

Further comments to follow with submission of detailed construction drawings.

Provide comment on any proposed Traffic Management Plans

Haldimand County Review Team Comments

The Traffic Management plan has not been provided to the Haldimand County Renewable Energy Review Team. When provided, the Haldimand County Renewable Energy Review Team requests the ability to review and provide comments.

The Traffic Management plan must be submitted prior to the Road Condition survey being completed.

Please note all required Haldimand County Permits will not be granted until all requested documents and reports are submitted and approved by Haldimand County.

Please see comments above and in attached site tour notes.

Identify any issues and provide recommendations with respect to proposed Traffic Management Plans

Haldimand County Review Team Comments

The Traffic Management plan has not been provided to the Haldimand County Renewable Energy Review Team. When it is provided, the Haldimand County Renewable Energy Review Team requests the ability to review and provide comments.

Please see comments in attached site tour notes.

Please note all required Haldimand County Permits will not be granted until all requested documents and reports are submitted and approved by Haldimand County.

5.3 Municipal or Local Authority Service Connections

Provide comment on the proposed project plans related to the location of and type of municipal service connections, other than roads.

Haldimand County Review Team Comments

Please see comments in attached site tour notes.

General comments for SWM:

Note - Haldimand County commonly uses the Mount Hope precipitation gauge and IDF parameters as per section 'H' of Haldimand County Design Criteria. SWM calculations should be completed for the entire solar facility and

data should be provided to mitigate the pre to post development flows.

SOLAR

The site plan for the proposed solar farm should accommodate existing drainage patterns, and have no adverse affect on flows on private property or Haldimand Road 20. SWM should be completed for the entire solar facility and data should be provided to mitigate the pre to post development flows.

WIND

Detailed as constructed drawings will be required by the county for all infrastructure located within the Right of Way.

TRANSMISSION

Haldimand County Review Team will review and comment on transmission information when final design is provided.

Detailed as constructed drawings will be required by the county for all infrastructure located within the right of way. Particular attention should be given to the area surrounding Nelles Corners.

OPERATION MAINTENANCE BUILDING

Not applicable –Development Engineering Group

Please note all required Haldimand County Permits will not be granted until all requested documents and reports are submitted and approved by Haldimand County.

Identify any issues and provide recommendations with respect to the type of municipal service connections, other than roads.

Haldimand County Review Team Comments

Further comments will follow with submission of detailed construction drawings.

As Above.

5.4 Facility Other

Identify any issues and recommendations with respect to the proposed landscaping design for the facility

Haldimand County Review Team Comments

SOLAR

Investigation into the impact of the proposed berm /fencing regards to potential snow drifting onto Haldimand Road 20 must be addressed. Mitigation measures should be provided to minimize the distraction of drivers traveling along Haldimand Road 20.

WIND

Consideration shall be given for the replacement of trees removed in the creation of access roads.

TRANSMISSION

Locations of poles should be investigated to minimize the impacts on woodlots and demonstrate consideration to the existing residences, private property constraints, as well as, existing utility infrastructure.

The alignment of the transmission line should avoid the removal of trees from existing woodlots.

OPERATION MAINTENANCE BUILDING

Further comments with follow with submission of detailed construction drawings.

Please see comments in attached site tour notes.

Provide comment on the proposed project plans for emergency management procedures/safety protocols

Haldimand County Review Team Comments

SOLAR

Investigation into the impact of the proposed berm /fencing regards to potential snow drifting onto Haldimand Road 20 must be addressed. Mitigation measures should be provided to minimize the distraction of drivers traveling along Haldimand Road 20.

WIND

Turbines # 15, 17, 44, have entrances off of mud roads. Roads will be required to be upgraded to County standard to allow for emergency services access during and after construction. Refer to Appendix B of the Haldimand County Design Criteria.

Where there are several turbines located on one access, Haldimand County requests a 2nd access for emergency purposes in the event the primary access is blocked. A second access is required due to the number of turbines and length of access road for turbines #1, 3, 6, 8, 54, 69.

Haldimand County requires all access roads to be well signed, as there is a concern that the public might perceive these as concession roads or trails. Labelling of entrances to be addressed at pre-construction phase.

Turbine sites with entrances on different roads other than the parcel address should be noted.

As well turn-around planned for construction should be left in place for emergency purposes.

TRANSMISSION

In order to provide a clear zone and to facilitate in the regular roadway maintenance Haldimand County prefers that poles be placed on the back side of ditches. Where sufficient clear zone can not be achieved appropriate mitigating measures must be proposed for review.

OPERATION MAINTENANCE BUILDING

Further comments with follow with submission of detailed construction drawings.

Identify any issues and recommendations with respect to the proposed emergency management procedures/safety protocols

Haldimand County Review Team Comments

SOLAR

Investigation into the impact of the proposed berm /fencing regards to potential snow drifting onto Haldimand Road 20 must be addressed.

WIND

Turbines # 15, 17, 44, have entrances off of mud roads. Roads will be required to be upgraded to County standard to allow for emergency services access during and after construction. Refer to Appendix B of the Haldimand County Design Criteria.

Where there are several turbines located on one access, Haldimand County requests a 2nd access for emergency purposes in the event the primary access is blocked. A second access is required due to the number of turbines and length of access road for turbines #1, 3, 6, 8, 54, 69.

Haldimand County requires all access roads to be well signed, as there is a concern that the public might perceive these as concession roads or trails. Labelling of entrances to be addressed at pre-construction phase.

Turbine sites with entrances on different roads other than the parcel address should be noted. As well turn-around planned for construction should be left in place for emergency purposes.

TRANSMISSION

In order to provide a clear zone and to facilitate in the regular roadway maintenance Haldimand County prefers that poles be placed on the back side of ditches. Where sufficient clear zone can not be achieved appropriate mitigating measures must be proposed for review.

Further comments to follow with the submission of the Construction Management Plan.

OPERATION MAINTENANCE BUILDING

Further comments with follow with submission of detailed construction drawings.

Identify any issues and recommendations with respect to any Easements or Restrictive Covenants associated with the Project Location

Haldimand County Review Team Comments

SOLAR

Wilson Road (mud road) north of Haldimand Road 20 is proposed to be closed to accommodate the operation of the solar facility, further discussions has taken place for road closure/lease of the Road Allowance. Please note closure of Wilson Road will require the proponent to proceed through the Haldimand County Clerks Office. This issue will need to be resolved prior permitting/construction. Ultimately, access must remain in place to existing residences and entrances.

WIND

Ramsey Road extension (south Dunnville Airport) is proposed to be closed to accommodate the operation of the wind facility, further discussions has taken place for road closure/lease of the Road Allowance. Please note closure of the unopened road will require the proponent to proceed through the Haldimand County Clerks Office. This issue will need to be resolved prior permitting/construction.

WIND & SOLAR

In order to sever land, severance applications would be required for any easements that are established across private lands where the life of the easement is for a period of time which is more than 50 years.

TRANSMISSION

OPERATION MAINTENANCE BUILDING

Further comments with follow with submission of detailed construction drawings.

Request details regarding easements, or registered easements required for access roads. Also the ability for municipal staff to access roads through the easements and how is this described in lease agreements with landowners.

5.5 Project Construction

Identify any issues and recommendations with respect to the proposed rehabilitation of any temporary disturbance areas and any municipal or local authority infrastructure that could be damaged during construction

Haldimand County Review Team Comments

Prior to any approvals required by the County, a precondition survey of County infrastructure (such as roads, bridges or culverts) shall be conducted. This will establish the current condition of the infrastructure and be used to identify any determine any remedial works required.

Locations of poles should be investigated to minimize the impacts on woodlots and demonstrate consideration to the existing residences, private property constraints, as well as, existing utility infrastructure.

The alignment of the transmission line should avoid the removal of trees from existing woodlots.

Please note all required Haldimand County Permits will not be granted until all requested documents and reports are submitted and approved by Haldimand County.

WIND & SOLAR

The proponent needs to prepare a detailed decommissioning and rehabilitation plan containing an appropriate mechanism to ensure that the plan is adhered to. One such mechanism is to deposit appropriate "decommissioning and rehabilitation security" with Haldimand County which can be released on satisfactory decommissioning and rehabilitation.

Identify any issues and recommendations with respect to the proposed location of fire hydrants and connections to existing drainage, water works and sanitary sewers

Haldimand County Review Team Comments

General comments for SWM:

Note - Haldimand County commonly uses the Mount Hope precipitation gauge and IDF parameters as per section 'H' of Haldimand County Design Criteria. SWM calculations should be completed for the entire solar facility and data should be provided to mitigate the pre to post development flows.

SOLAR

The site plan for the proposed solar farm should accommodate existing drainage patterns, and have no adverse affect on flows on private property or Haldimand Road 20. SWM should be completed for the entire solar facility and data should be provided to mitigate the pre to post development flows.

WIND

Potential impact on existing Municipal Drain Mazi-Weikman

The road allowances for Haldimand Road 55 and Haldimand Road 3 (Rainham Road) will be reserved for future transmission corridor for sanitary and water.

Please note that many of the turbines have a significant number of drainage crossings, some with 2 to 5. Haldimand County will require final design of culverts and drainage crossings for review.

Further comments will follow with submission of detailed construction drawings.

Please note all required Haldimand County Permits will not be granted until all requested documents and reports are submitted and approved by Haldimand County.

TRANSMISSION

Identify any issues and recommendations with respect to the proposed location of buried kiosks and above-grade utility vaults.

Haldimand County Review Team Comments

Further comments will follow with submission of detailed construction drawings.

No comments from the Development or Engineering Group

Identify any issues and recommendations with respect to the proposed location of existing and proposed gas

and electricity lines and connections.

Haldimand County Review Team Comments

Further comments to follow with submission of detailed construction drawings.

Please see attached Site review table for comments regarding existing utility locations. These comments are from visual inspection only and should be verified with the appropriate utilities

Provide comment on the proposed project plans with respect to Building Code permits and licenses.

Haldimand County Review Team Comments

SOLAR

Building permits are required for the structures that support the solar panels where the structure beneath the panels has a supporting frame greater than 10 square metres each.

WIND

Building permits are required for the structure that supports a wind turbine generator having a rated output of more than 3kW.

TRANSMISSION

Building permits are also required for any substations greater than 10 square metres.

Development charges, building permit fees and forms are all available on our website. Civic addresses will need to be created and signs placed at Haldimand County roads and access roads to the towers. The towers will need to be additionally labelled with the civic addresses, especially when multiple towers are accessed via the same access road.

Further comments to follow with submission of detailed construction drawings.

Please note all required Haldimand County Permits will not be granted until all requested documents and reports are submitted and approved by Haldimand County.

Identify any issues and recommendations related to the identification of any significant natural features and water bodies within the municipality or territory.

Haldimand County Review Team Comments

SOLAR

The site plan for the proposed solar farm should accommodate existing drainage patterns, and have no adverse affect on flows on private property or Haldimand Road 20. SWM should be completed for the entire solar facility and data should be provided to mitigate the pre to post development flows. Investigation into the impact of the proposed berm /fencing regards to potential snow drifting onto Haldimand Road 20 must be addressed.

WIND

Please note that many of the turbines have a significant number of drainage crossings, some with 2 to 5. Haldimand County will require final design of culverts and drainage crossings for review.

WIND & SOLAR

As there is a potential for the Wetlands (provincially significant and provincially non-significant) located in the

project area to be affected, it is suggested that adequate mitigation measures be adopted and environmental effects monitoring plans developed in consultation with Long Point Region Conservation Authority (LPRCA) and/or Grand River Conservation Authority (whichever may be applicable) to conserve natural heritage features through all stages of project development as well as decommissioning.

In cases where trees may have to be removed to implement portions of the proposed wind energy or solar projects, appropriate compensation for trees to be removed should be provided. Haldimand County's Forestry Officer should be consulted to determine the appropriate plan/program for a compensation strategy.

Every effort should be made to limit;

- Encroachment into adjacent woodlands,
-including improper removal of overhanging branches which would impact the health of the adjacent trees;
-resulting in the destruction of trees and reducing forest cover;
- Removal of trees located in windrows, fence rows, along natural features
- Removal of single "public" trees within road allowances for the purpose of installing transmission lines – underground or above ground. Removal of trees adjacent/underneath utility corridors is preferred versus ongoing maintenance/pruning, in most cases.

In previous similar applications the proposed final draft of locations of towers, roads, utility lines was reviewed in the field by Forest Conservation Services staff before finalization of the project layout – staff would request the same.

Where such impacts were required, the "contractor" and County staff agreed upon compensation in lieu of destruction of trees.

Removal of woodlands would require compensation in lieu which would result in a "zero-net" loss of County forest cover – thus funding of reforestation on lands elsewhere in Haldimand County – either through the Haldimand and Area Woodlot Owners Association, the Long Point Region Conservation Authority, or the Grand River Conservation Authority.

As for removal of single road allowance tree (s), compensation would be tree for tree (minimum 40 mm calliper – native tree stock) – offering first right of refusal for a compensating tree being offered to impacted adjacent property owners. Surplus trees would be used to replant strategically along County roadsides.

TRANSMISSION

Locations of poles should be investigated to minimize the impacts on woodlots and demonstrate consideration to the existing residences, private property constraints, as well as, existing utility infrastructure.

The alignment of the transmission line should avoid the removal of trees from existing woodlots.

Identify any issues and recommendations related to the identification any archaeological resource or heritage resource.

Not provided –NO Comment from Development or Engineering Group.

WIND & SOLAR

As there may be potential for the archaeological resources to be affected, Stage 1 and 2 Archaeological Assessment may be required. Haldimand County requires that findings of the archaeological assessments be shared with the County, and adequate mitigation measure be adopted where needed to minimize any adverse

impacts. The archaeological assessment should be done in consultation with First Nations communities.

REF



Stantec Consulting Ltd.
70 Southgate Drive Suite 1
Guelph ON N1G 4P5
Tel: (519) 836-6050
Fax: (519) 836-2493

Stantec

September 21, 2011
File: 161010624/161010646

Haldimand County
45 Munsee Street North
PO Box 400
Cayuga ON N0A 1E0

Attention: James Goodram, Manager, Economic Development and Tourism

Dear Mr. Goodram:

Reference: Haldimand County Council Comments

Thank you for meeting with Samsung and Stantec on August 26, 2011 to discuss Haldimand County's draft comments related to the Municipal Consultation Form for the Grand Renewable Energy Park (the Project). As part of the draft comments which were provided, Haldimand County Council identified 14 questions (seven of which were previously provided on August 24, 2010) which they requested be addressed in addition to the Municipal Consultation Form. The following has been prepared in response to the Haldimand County Council questions based on the current status of the Project:

1. *Council has requested greater details relating to the cutting of woodlots and proposed measures for replacement of these environmental features. Also, how other features including wetlands and significant species will be impacted/mitigated.*

Proposed clearing will result in the removal of approximately 1.72 ha of plantation in areas identified as significant woodland. Additional information has been presented within the Natural Heritage Assessment/Environmental Impact Study including mitigation measures associated with clearing activities. Though the effects are anticipated to be minimal, there is some potential for disturbance of natural features during construction as a result of the limited removal of vegetation and increased human activity, traffic, noise and dust. However, these effects are expected to be short-term in duration and spatially limited to the work areas and their immediate vicinity. The relatively small amount of woodland to be removed represents a very small proportion of the available habitat in the Study Area and is not anticipated to have a significant effect on the ecological functions these features support.

Setbacks from wetlands and mitigation measures for infrastructure within 30 m of wetlands will ensure that there is no disruption of wetland function and no net loss of wetland area. Additional information has been presented within the Natural Heritage Assessment/Environmental Impact Study related to the potential impacts to other natural features such as wildlife and wildlife habitat. Additional permitting discussions have also been initiated with the Grand River Conservation Authority and Long Point Region Conservation Authority.

2. *Evaluation of the possible impacts of anchoring of wind turbines to bedrock and whether this provides a conduit for the transmission of vibration to other properties.*

Preliminary geotechnical work was completed across the wind farm, solar farm and transmission line components of the Project to confirm site-specific conditions within the Study Area. This information was

Sept 21, 2011

James Goodram, Manager, Economic Development and Tourism

Page 2 of 5

Reference: Haldimand County Council Comments

used to determine the suitability of the area in general. It was found that the soil and bedrock conditions are conducive for the design and construction of the Project. Additional detailed geotechnical work will be required prior to Project construction as part of the detailed engineering for the Project. As reported in the *Expert Panel Review* by Dr. Colby et al (2009), it has been found that ground-borne vibrations from wind turbines are too weak to be detected by, or to affect, humans.

3. *The relationship of the proposed electrical transmission corridors to the County's Master Trail Plan and opportunities/constraints that may exist or occur.*

The transmission line is proposed to be located along Haldimand Road 20 within the municipal road right-of-way. The transmission line is proposed to be an overhead line with the exception of an area through Nelles Corners where the transmission line will be transitioned to an underground line for approximately 700 m. The County's Trail Master Plan identifies a section of Haldimand Road 20 between Hagersville and Nelles Corners (approximately 6 km) which could potentially share the same corridor as the transmission line where the trail would be within the municipal road right-of-way (e.g. on-road bicycle routes). Samsung will work with the county through the Community Vibrancy Fund to hopefully improve the County's Master Trail Plan and make many of the proposed plans a reality.

4. *Clarification on the location of the transmission corridor.*

The transmission line is proposed to be located along Haldimand Road 20 within the municipal road right-of-way. The transmission line is proposed to be an overhead line with the exception of an area through Nelles Corners where the transmission line will be transitioned to an underground line for approximately 700 m. The transmission line will be approximately 20 km and will terminate near Hagersville where the Project will connect to the provincial grid.

5. *Confirmation that the decommissioning plan, funding mechanism and report will include the capital works in the transmission corridor.*

The Decommissioning Plan Report includes plans for the removal of all Project components including the transmission line. The costs for removal of Project infrastructure would be the responsibility of Samsung or the owner of the transmission line at the time of decommissioning. The use and decommissioning of transmission line is regulated by the Ontario Energy Board.

6. *The impact of construction traffic and access from the County road system to the project components and how this will be addressed.*

The Construction Plan Report details the potential impacts related to construction traffic. Truck traffic will increase on some roads during Project component deliveries, but would be restricted to predetermined routes and times to the greatest extent possible. Road safety is not expected to be an issue during the construction phase due to the implementation of a Traffic Management Plan which Samsung has committed to developing in consultation with Haldimand County prior to Project construction. Once the general contractor is selected, Samsung will begin drafting the Traffic Management Plan.

Sept 21, 2011

James Goodram, Manager, Economic Development and Tourism

Page 3 of 5

Reference: Haldimand County Council Comments

- 7. As part of the economic impact assessment, conduct a complete comparison of the difference between the project and the use of the land for agricultural purposes to Haldimand County. Also provide a breakdown of the type of jobs to be created.*

Given that agricultural land will be required during the operation of the Project, landowners are being financially compensated for the lease of the private lands and thus offset the effect of removing the land from agricultural production. To the greatest extent possible, efforts have been made to site the Project in such a way as to minimize disturbances to existing agricultural lands and operations. The removal of lands from agricultural production is not anticipated to have a noticeable impact on the local agri-business economy given the magnitude of the Project and the inherent variability in crop production (please see the attached summary report for further information).

During construction, the actual number employed and the make-up of those employed would vary over time as the Project goes through the various construction phases. On average, it is expected that up to 305 persons may be directly employed during the construction period of the Project. It is anticipated the construction breakdown would be as follows; 178 persons for the wind component, 92 persons for the solar component, and approximately 35 persons for the electrical components. It is Samsung's intention, when feasible, to employ and train local persons during the construction of the Project. The construction of the Project would also result in indirect and induced employment, the majority of which is anticipated to be filled by local businesses.

Operation of the facility is expected to continue for a minimum of approximately 20 years. During operations, it is expected that approximately twelve operation and maintenance staff from Samsung and the Operation and Maintenance Contractor would be employed during operation of the Project.

Comments provided following August 24, 2010:

- 1. The impact this project will have on tourism.*

A tourism-specific study is not required as part of the Renewable Energy Approval (REA) process and has not been completed for this Project. While, there is a perceived negative effect on tourism as a result of the effect on the viewshed from wind turbines, previous studies have noted that wind power projects can have an advantageous influence on local tourism initiatives. This depends a great deal on how the tourism potential of wind plant developments is marketed locally, regionally, and provincially. Haldimand County has previously expressed interest to the Provincial Government in becoming known as an Energy Hub in Southern Ontario due to the positive economic impacts associated with renewable energy development. Therefore, if Haldimand County markets the development of the Project for tourism purposes, as it is the first combined wind and solar project in the world, it is anticipated that there is potential for attracting additional tourism to the area.

- 2. The impact on the property values on land adjacent to the Project.*

Based upon the data reviewed to date in other areas with established wind plants (e.g., Canada, USA, Europe, and Australia), no evidence of a material negative effect on property value as a result of the presence of wind plants was provided. Ontario data (including information from Chatham-Kent) suggests that wind plants have a neutral effect on property values; which is consistent with international trends and experiences.

Sept 21, 2011

James Goodram, Manager, Economic Development and Tourism

Page 4 of 5

Reference: Haldimand County Council Comments

The solar farm component of the Project will be designed to minimize any potential visual effects on nearby landowners and thus any potential impact to property values. With regards to a property being within visual distance of the solar farm and the potential effects to property values, there is no available evidence to-date (via systematic reviews of property value impacts) which links the location of a solar farm with impacts on property values.

3. Additional information and studies to show how the setback of a wind turbine of 550 m was determined.

In developing setback distances for wind turbines in O.Reg. 359/09, the Ministry of the Environment (MOE) reviewed leading scientific studies from around the world to ensure that Ontario's rules are protective of human health and the environment and are appropriate for the needs of Ontario's communities. The MOE also looked at how wind projects are regulated in other countries to learn from their standards and setbacks for wind turbines. Please contact the MOE directly if you require additional information related to the establishment of wind turbine setbacks. In addition, the Project completed a Noise Assessment Report which confirmed that the 40 dBA sound limit was met at all non-participating receptors at the 550 m setback.

4. A request for studies that demonstrate how high or low pitch frequencies affect the nervous and mobility system and the long term affects for human and animal health.

A detailed health impact assessment including an assessment of low frequency noise was completed for Samsung and was included within the Draft Design and Operations Report (Attachment F) as part of the Draft REA Report package. Studies used to support the conclusions within the assessment were cited within the assessment.

5. A request for the results of studies on how wildlife are affected in the immediate and surrounding areas where wind turbines are already in place.

Detailed information related to the potential effects to wildlife is included within the Natural Heritage Assessment/Environmental Impact Study. In determining the potential effects, Stantec staff reviewed several studies related to post-construction impacts to wildlife in proximity to wind farms and are cited appropriately at the end of the document.

6. A request for confirmation that upon the termination of the project, the land involved in the project will revert back to agricultural land from industrial.

As stated in Section 2.3 of the Draft Decommissioning Plan Report, agricultural land will be restored such that normal farming practices may resume. It should be noted that the Project proponent has a decommissioning bond available at commencement of construction for each of the land owners to remove works from their private property, in the unlikely event that such action is necessary.

7. Demonstrated outcomes of the consultation with the First Nations on all renewable energy projects.

Samsung is currently conducting engagement activities with multiple aboriginal communities (as identified by the Ministry of the Environment (MOE)) in accordance with the requirements of O. Reg. 359/09. Details regarding the engagement activities including copies of letters and summaries of meetings will be provided within the Consultation Report as part of Samsung's final REA application to the MOE.

Stantec

Sept 21, 2011
James Goodram, Manager, Economic Development and Tourism
Page 5 of 5

Reference: Haldimand County Council Comments

Respectfully,

STANTEC CONSULTING LTD.



Mark Kozak, BES
Environmental Scientist
Tel: (519) 836-6050
Fax: (519) 836-2493
mark.kozak@stantec.com

Attachment: Agricultural Economic Impact Assessment Summary

c. Adam Rosso, Samsung Renewable Energy
Lidy Romanuk, Haldimand County

Findings

Agricultural Economic Impacts of Conversion of Agricultural Land to Solar Energy Production in Haldimand, Ontario

Glenn Fox
Professor of Agricultural Economics, University of Guelph
and Agricultural Economics Consultant
Rockwood, Ontario

September 14, 2010

Cropland area and crop revenue data are published at the regional level, which combines Haldimand county and Norfolk county into one reporting unit. There are approximately 400,000 acres of cropland and 500,000 acres of farmland in Haldimand-Norfolk. The land area required for the proposed solar energy facility is approximately 816 acres. This represents about 0.16% of the farmland in the two counties. Approximately 800 acres of this farmland is currently in crops.

The gross revenue from soybean, grain corn and wheat production in Haldimand-Norfolk was \$57.3 million, \$33.2 million and \$12.4 million respectively in 2008, the most recent year for which data are published. The approximate share of gross revenue per acre potentially spent on local inputs and services for these three crops was estimated to be 53%, 61% and 68% respectively for the three main crops. Assuming a 40% markup in sales of those inputs and services, the regional value of aggregate gross margins from local sales of inputs and services would have been \$12.1 million, \$8.1 million and \$3.4 million per year respectively, for soybeans, grain corn and winter wheat, for an annual total for 2008 of \$23.6 million.

The estimated reduction in gross margins from sales of crop inputs and services from the withdrawal of 800 acres of cropland was estimated to be approximately \$106,000 per year. This represents a potential reduction of 0.45% for the region. A loss of this magnitude, given the inherent variability in crop production choices and crop input sales from year to year, would not be noticeable in terms of its impact on the local economy. In addition, there is no guarantee that the purchases of inputs and services currently associated with cropland in the study area have been made exclusively in Haldimand-Norfolk in the past, or that they would be made locally in the future, with or without the proposed facility.



Stantec Consulting Ltd.
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Fax: (519) 836-2493

Stantec

July 19, 2011
File: 160960577

Haldimand County Hydro
1 Glendale Drive
Caledonia ON N3W 2J3

Attention: Lloyd Payne, President/CEO

Dear Mr. Payne:

Reference: Grand Renewable Energy Park – Release of Draft Renewable Energy Approval Reports

Samsung C&T (Samsung), Pattern Energy (Pattern), and Korea Power Electric Corporation (KEPCO) (together, these companies referred to herein as “SPK”) are proposing to develop, construct, and operate a wind and solar energy project as part of the Grand Renewable Energy Park, in Haldimand County. SPK is planning to engage in this renewable energy project in respect of which the issuance of Renewable Energy Approvals (REA) is required. The proposal to engage in the project and the project itself are subject to the provisions of the *Environmental Protection Act (ACT)* Part V.0.1 and Ontario Regulation 359/09 (O. Reg. 359/09).

On behalf of SPK, Stantec is pleased to provide you with a copy of the Draft REA Reports for your review and comment. As required under O. Reg. 359/09 and the Ministry of Natural Resources (MNR) *Approval and Permitting Requirements Document (APRD) for Renewable Energy Projects*, this Draft REA Reports package includes the following draft reports:

- Project Description Report – as outlined in item 10 of Table 1 of O. Reg. 359/09;
- Natural Heritage Assessment Report – as required under sections 24, 25, 26, 27 and 28 of O. Reg. 359/09 and section 6.3 of the MNR’s Requirements Document;
- Construction Plan Report – as outlined in item 1 of Table 1 of O. Reg. 359/09 and section 6.7 of the MNR’s Requirements Document;
- Design and Operations Report – as outlined in item 4 of Table 1 of O. Reg. 359/09 and section 6.6 of the MNR’s Requirements Document;
- Decommissioning Plan Report – as outlined in item 3 of Table 1 of O. Reg. 359/09 and section 6.8 of the MNR’s Requirements Document;
- Environmental Impact Study – as required under section 38 of O. Reg. 359/09;
- Wind Turbine Specifications Report – as outlined in item 13 of Table 1 of O. Reg. 359/09;
- Archaeological and Heritage Reports - as required under sections 19, 20, 21, 22 and 23 of O.Reg. 359/09;

July 19, 2011
Mr. Payne
Page 2 of 2

Reference: Grand Renewable Energy Park – Release of Draft Renewable Energy Approval Reports

- Water Body and Water Assessment Report - as required under sections 29, 30 and 31 of O. Reg. 359/09. Further information related to potential effects and mitigation measures to water bodies, as required under sections 39, 40, 44, and 45 of O. Reg. 359/09 is provided in the Water Body and Water Assessment Report, Construction Plan Report and Design and Operations Report; and,
- Project Summary Report – as outlined in section 17. (1)3 of O. Reg. 359/09.

Copies of the MNR's confirmation letter of the Natural Heritage Assessment/Environmental Impact Study and the Ministry of Tourism and Culture written comments/confirmation have also been provided within the package.

As described in the attached Notice of Public Meeting, these reports are being provided for review and comment from **July 23, 2011 to September 22, 2011**. To learn more about the project proposal, the public meeting, and to communicate questions regarding the attached material, please contact the project team via e-mail at GrandRenewable@SamsungRenewableEnergy.ca or by phone at 1-877-536-6050 or 1-519-836-6050. Written comments can also be directed to the undersigned.

We respectfully request all comments to be provided by no later than September 22, 2011 for their inclusion within SPK's Renewable Energy Approval application.

Sincerely,

STANTEC CONSULTING LTD.



Mark Kozak, BES
Project Manager
Tel: (519) 836-6050
Fax: (519) 836-2493
mark.kozak@stantec.com

Attachment: Draft Renewable Energy Approval Report package
Notice of Public Meeting

- c. Paul Heeg, Haldimand County Hydro
Adam Rosso, Samsung Renewable Energy Inc.



Stantec Consulting Ltd.
Suite 1 - 70 Southgate Drive
Guelph ON N1G 4P5
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Fax: (519) 836-2493

Stantec

July 26, 2010
File: 160960577/161010624

Environment Unit, Lands and Trust Services
Indian and Northern Affairs Canada, Ontario Region
25 St. Clair Ave. East, 8th Floor
Toronto, ON M4T 1M2

Attention: Mei Ling Chan

Reference: Samsung Grand Renewable Energy Park

Dear Ms. Chan,

Samsung Renewable Energy Inc. (Samsung) is planning to develop and construct the Grand Renewable Energy Park in Haldimand County, Ontario. The proposed project will include a 140 MW name plate capacity wind farm, consisting of approximately 63 wind turbines and a 100 MW name plate capacity solar farm. The project will also include electrical collection lines, a 30 km transmission line, substation and other ancillary facilities such as access roads. Samsung has retained Stantec Consulting Ltd. (Stantec) to prepare a Renewable Energy Approval (REA) Application, as required under Ontario Regulation 359/09 - Renewable Energy Approvals under Part V.0.1 of the Act of the *Environmental Protection Act* (O. Reg. 359/09).

As part of the REA requirements a Draft Project Description Report was sent to the Ministry of the Environment (MOE) on June 24, 2010. This enables the MOE to identify all First Nation and Métis communities that are located in proximity to the Project Study Area. At this time we are respectfully requesting a list of the aforementioned communities from Indian and Northern Affairs Canada (INAC). Please find the Draft Project Description Report attached that provides additional information and details about the Project for your convenience.

Sincerely,

STANTEC CONSULTING LTD.

Rob Nadolny
Senior Project Manager
Tel: (519) 836-6050
Fax: (519) 836-2493
rob.nadolny@stantec.com

Attachment: Draft Project Description – Version 2

CC. Adam Rosso, Samsung Renewable Energy Inc.

Friedl, Susanne

From: Ejay Lai (LPRCA) <gis@lprca.on.ca>
Sent: Thursday, July 15, 2010 11:23 AM
To: Worsell, Patrick
Cc: Nadolny, Rob
Attachments: LPRCA_IP_Agreement_stantec_jul2010_signed.zip

Hi Patrick,

See attached for the data requested. The data licensing agreement is included in the compressed file as well as the receipt of the payment.

Let me know if you have any problem in this regard.

Thanks,

Ejay H. Lai, *M.Sc.*
GIS & IT Specialist
Long Point Region Conservation Authority
4 Elm St., Tillsonburg, ON, N4G 0C4
www.lprca.on.ca / gis@lprca.on.ca
519-842-4242 Ext. 235



Stantec

Stantec Consulting Ltd.
Suite 1 - 70 Southgate Drive
Guelph ON N1G 4P5
Tel: (519) 836-6050
Fax: (519) 836-2493

June 18, 2010
File: 160960577 / 161010624

Long Point Region Conservation Authority
4 Elm St.
Tilsonburg, ON N4G 0C4

Attention: Ms. Heather Surette, Manager – Watershed Resources

**Reference: Grand Renewable Energy Park
Request for Information**

Dear Ms. Surette,

I am writing with regards to the proposed Grand Renewable Energy Park to be located in Haldimand County, Ontario. The Project is being proposed by Samsung Renewable Energy Inc. and if approved, would consist of a 140 MW wind farm, a 100 MW solar farm, a transmission line and other project associated infrastructure.

The Renewable Energy Approval (REA) process has been initiated for the Project in accordance with Ontario Regulation 359/09 (O. Reg 359/09). In accordance with Section 29.(1) O. Reg 359/09, Stantec is required to conduct a water assessment consisting of a records review and site investigation for the Project location (please see the attached map). As such, we are requesting any information your agency may have with respect to the following within the Project location:

- The location and classification of all permanent and intermittent streams including drainage ditches;
- The location of any lakes (including the average annual high water mark) other than a Lake Trout lake that is at or above development capacity;
- The location of any Lake Trout lakes that are at or above development capacity including the average annual high water mark;
- The location of any seepage areas;
- Watershed reports which should be considered in our assessment of natural heritage features; and,
- Any fisheries related data for waterbodies (including species at risk) within the Project location.

June 18, 2010

Page 2 of 2

Reference: Grand Renewable Energy Park – Request for Information

We look forward to working with you, and obtaining your valuable input, and a Project representative will be in contact with you shortly to determine the best way to obtain the above noted information. In addition, please contact the undersigned if you require any additional information (including digital mapping) to assist in providing the requested information.

Sincerely,

STANTEC CONSULTING LTD.

A handwritten signature in black ink, appearing to read 'Rob Nadolny', written in a cursive style.

Rob Nadolny
Senior Project Manager
Tel: (519) 836-6050
Fax: (519) 836-2493
Rob.nadolny@stantec.com

Attachment: Project Location Map

CC: Lidy Romanuk, Haldimand County
Drew Cherry, Grand River Conservation Authority
Heather Riddell, Ministry of Natural Resources, Aylmer District



Stantec Consulting Ltd.
Suite 1 - 70 Southgate Drive
Guelph ON N1G 4P5
Tel: (519) 836-6050
Fax: (519) 836-2493

Stantec

July 19, 2011
File: 160960577

Long Point Region Conservation Authority
4 Elm Street
Tilsonburg ON N4G 0C4

Attention: Ben Hodi, Water Resource Analyst

Dear Mr. Hodi:

Reference: Grand Renewable Energy Park – Release of Draft Renewable Energy Approval Reports

Samsung C&T (Samsung), Pattern Energy (Pattern), and Korea Power Electric Corporation (KEPCO) (together, these companies referred to herein as “SPK”) are proposing to develop, construct, and operate a wind and solar energy project as part of the Grand Renewable Energy Park, in Haldimand County. SPK is planning to engage in this renewable energy project in respect of which the issuance of Renewable Energy Approvals (REA) is required. The proposal to engage in the project and the project itself are subject to the provisions of the *Environmental Protection Act (ACT)* Part V.0.1 and Ontario Regulation 359/09 (O. Reg. 359/09).

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- Environmental Impact Study – as required under section 38 of O. Reg. 359/09;
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July 19, 2011
Mr. Hodi
Page 2 of 2

Reference: Grand Renewable Energy Park – Release of Draft Renewable Energy Approval Reports

- Water Body and Water Assessment Report - as required under sections 29, 30 and 31 of O. Reg. 359/09. Further information related to potential effects and mitigation measures to water bodies, as required under sections 39, 40, 44, and 45 of O. Reg. 359/09 is provided in the Water Body and Water Assessment Report, Construction Plan Report and Design and Operations Report; and,
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We respectfully request all comments to be provided by no later than September 22, 2011 for their inclusion within SPK's Renewable Energy Approval application.

Sincerely,

STANTEC CONSULTING LTD.



Mark Kozak, BES
Project Manager
Tel: (519) 836-6050
Fax: (519) 836-2493
mark.kozak@stantec.com

Attachment: Draft Renewable Energy Approval Report package
Notice of Public Meeting

c. Adam Rosso, Samsung Renewable Energy Inc.

Preliminary List and Probable Occurrences of Species at Risk

Common Name	Scientific Name	COSSARO	Chatham-Kent		Haldimand
			East	West	
Acadian Flycatcher	<i>Empidonax vireescens</i>	END	Yellow		
American Badger	<i>Taxidea taxus jacksoni</i>	END			Yellow
American Chestnut	<i>Castanea dentata</i>	END			Yellow
American Columbo	<i>Frasera caroliniensis</i>	END			Green
American Ginseng	<i>Panax quinquefolius</i>	END	Yellow		
Bald Eagle	<i>Haliaeetus leucocephalus</i>	SC	Yellow	Green	Green
Barn Owl	<i>Tyto alba</i>	END	Yellow	Green	Yellow
Blanding's Turtle	<i>Emydoidea blandingii</i>	THR	Red	Yellow	Yellow
Broad Beech Fern	<i>Phegopteris hexagonoptera</i>	SC	Green		Green
Butternut	<i>Juglans cinerea</i>	END			Green
Cerulean Warbler	<i>Dendroica cerulea</i>	SC	Green		Green
Chimney Swift	<i>Chaetura pelagica</i>	THR			Yellow
Climbing Prairie Rose	<i>Rosa setigera</i>	SC	Green	Yellow	
Common Five-Lined Skink (Carolinian population)	<i>Plestiodon fasciatus</i>	END	Yellow		
Dense Blazing Star	<i>Liatris spicata</i>	THR	Yellow	Green	
Eastern Foxsnake (Carolinian population)	<i>Pantherophis gloydi</i>	END	Red	Red	
Eastern Hog-nosed Snake	<i>Heterodon platirhinus</i>	THR	Red	Yellow	Green
Eastern Flowering Dogwood	<i>Coronus florida</i>	END	Green		Yellow
Eastern Musk Turtle	<i>Stemotherus odoratus</i>	THR	Red	Yellow	
Eastern Pondmussel	<i>Ligumia nasuta</i>	END	Yellow		
Eastern Ribbonsnake	<i>Thamnophis sauritus</i>	SC	Green	Green	Yellow
Eastern Sand Darter	<i>Ammocrypta pellucida</i>	THR	Red	Red	Yellow
Fowler's Toad	<i>Anaxyrus fowleri</i>	THR	Green		Yellow
Goldenseal	<i>Hydrastis canadensis</i>	THR	Green		
Gray Ratsnake (Carolinian population)	<i>Pantherophis spiloides</i> (Carolinian population)	END			Red
Grey Fox	<i>Urocyon cinereoargenteus</i>	THR			Green
Hooded Warbler	<i>Wilsonia citrina</i>	SC	Yellow		Yellow
Jefferson Salamander	<i>Ambystoma jeffersonianum</i>	THR	Green		Green
Kidneyshell	<i>Ptychobranhus fasciolaris</i>	END	Yellow		Green
King Rail	<i>Rallus elegans</i>	END	Green		
Lake Chubsucker	<i>Erimyzon sucetta</i>	THR	Red	Red	
Least Bittern	<i>Ixobrychus exilis</i>	THR	Yellow		Green
Milksnake	<i>Lampropeltis triangulum</i>	SC	Yellow	Green	Red
Monarch	<i>Danaus plexippus</i>	SC	Red	Red	Red
Nodding Pogonia	<i>Triphora trianthophora</i>	END	Green		
Northern Map Turtle	<i>Graptemys geographica</i>	SC	Red	Yellow	Yellow
Prothonotary Warbler	<i>Protonotaria citrea</i>	END	Yellow		
River Redhorse	<i>Moxostoma carinatum</i>	SC			Yellow
Round Hickorynut	<i>Obovaria subrotunda</i>	END	Yellow		
Round Pigtoe	<i>Pleurobema sintoxia</i>	END	Yellow		Yellow
Silver Chub	<i>Macrhybopsis storeriana</i>	SC	Red	Red	
Snapping Turtle	<i>Chelydra serpentina</i>	SC	Red	Red	Red
Snuffbox	<i>Epioblasma triquetra</i>	END	Yellow		Green
Spiny Softshell	<i>Apalone spinifera</i>	THR	Red	Yellow	Green
Spotted Gar	<i>Lepisosteus oculatus</i>	THR	Red	Red	
Spotted Sucker	<i>Minytrema melanops</i>	SC	Red	Red	
Spotted Turtle	<i>Clemmys guttata</i>	END	Red		
Swamp Rose Mallow	<i>Hibiscus moscheutos</i>	SC	Green	Green	
Virginia Mallow	<i>Sida hermaphrodita</i>	END			Green
Warmouth	<i>Lepomis quulosus</i>	SC	Red	Red	
Wavy-rayed Lampmussel	<i>Lampsilis fasciola</i>	END	Yellow		
Woodland Vole	<i>Microtus pinetorum</i>	SC			Green
Yellow-breasted Chat	<i>Icteria virens</i>	SC		Yellow	Green

Key to Colours for Likelihood of Occurrence

	High likelihood
	Medium likelihood
	Low likelihood of occurring

Provided by MNR
May 6/2010



Stantec

Stantec Consulting Ltd.
Suite 1 - 70 Southgate Drive
Guelph ON N1G 4P5
Tel: (519) 836-6050
Fax: (519) 836-2493

June 18, 2010
File: 160960577 / 161010624

Ministry of Natural Resources
615 John St. North.
Aylmer, ON N5H 2S8

Attention: Ms. Heather Riddell, Manager – Planning Ecologist

**Reference: Grand Renewable Energy Park
Request for Information**

Dear Ms. Riddell,

I am writing with regards to the proposed Grand Renewable Energy Park to be located in Haldimand County, Ontario. The Project is being proposed by Samsung Renewable Energy Inc. and if approved, would consist of a 140 MW wind farm, a 100 MW solar farm, a transmission line and other project associated infrastructure.

The Renewable Energy Approval (REA) process has been initiated for the Project in accordance with Ontario Regulation 359/09 (O. Reg 359/09). In accordance with Section 29.(1) O. Reg 359/09, Stantec is required to conduct a water assessment consisting of a records review and site investigation for the Project location (please see the attached map). As such, we are requesting any information your agency may have with respect to the following within the Project location:

- The location and classification of all permanent and intermittent streams including drainage ditches;
- The location of any lakes (including the average annual high water mark) other than a Lake Trout lake that is at or above development capacity;
- The location of any Lake Trout lakes that are at or above development capacity including the average annual high water mark;
- The location of any seepage areas;
- Watershed reports which should be considered in our assessment of natural heritage features; and,
- Any fisheries related data for waterbodies (including species at risk) within the Project location.

June 18, 2010

Page 2 of 2

Reference: Grand Renewable Energy Park – Request for Information

We look forward to working with you, and obtaining your valuable input, and a Project representative will be in contact with you shortly to determine the best way to obtain the above noted information. In addition, please contact the undersigned if you require any additional information (including digital mapping) to assist in providing the requested information.

Sincerely,

STANTEC CONSULTING LTD.

A handwritten signature in black ink, appearing to read 'Rob Nadolny', written in a cursive style.

Rob Nadolny
Senior Project Manager
Tel: (519) 836-6050
Fax: (519) 836-2493
Rob.nadolny@stantec.com

Attachment: Project Location Map

CC: Lidy Romanuk, Haldimand County
Drew Cherry, Grand River Conservation Authority
Heather Surette, Long Point Region Conservation Authority



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Stantec

July 23, 2010
File: 161010624 / 161010646

Ministry of Natural Resources
615 John St. North
Aylmer, ON N5H 2S8

Attention: Ms. Heather Riddell, Planning Ecologist

Dear Ms. Riddell,

**Reference: Samsung Grand Renewable Energy Park
Data Request and Site Investigation Work Program**

Thank you for the natural heritage features mapping your agency provided at the May 6, 2010 meeting regarding the proposed Grand Renewable Energy Park to be located in Haldimand County, Ontario. The Project is being proposed by Samsung Renewable Energy Inc. and if approved, would consist of a 140 MW wind farm, a 100 MW solar farm, a transmission line and other project associated infrastructure.

This letter outlines our current understanding of the natural heritage features of the Project area, requests any additional information that the Ministry might have available, and presents a site investigation work program for Ministry review. This letter also summarizes the proposed Project schedule. The majority of field work is scheduled to be completed by the end of August, 2010, and receipt of your comments on the proposed work program in this time frame would be very much appreciated. With implementation of this work program, we expect that no additional field studies or inventories will be required for a complete Renewable Energy Approval application.

1. RECORDS REVIEW AND DATA REQUEST

At this time, we would like to request that your agency confirm the completeness of Ministry of Natural Resources (MNR) data presented on the attached Natural Heritage Features map (please see attached **Figure 1**), which was developed based on a records review, and includes digital data provided by Ian Thornton (Guelph District MNR) and Brad Graham (Aylmer District MNR) on May 6, 2010. In particular, please confirm:

- the designation of "deer yard" on all woodlands in the Guelph District portion of the Project area
- the significance of Wardell's Creek Mouth wetland (identified as "provincially significant" in the data provided by MNR, but "other" significance in Biodiversity Explorer)
- supporting information for Frandenburg Tract Provincially Significant Wetland (apparently not accessible in Biodiversity Explorer)
- supporting information for an unnamed provincially significant Life Science Area of Natural and Scientific Interest, located along the Lake Erie shoreline east of Reicheld Road (LIO Object IDs 651039221 and 651039222)

July 23, 2010

Ms. Heather Riddell, Planning Ecologist

Page 2 of 10

Reference: Samsung Grand Renewable Energy Park

If necessary, please identify any additional natural heritage features or elements, such as potentially significant wildlife habitat or the locations of known occurrences of species at risk, that are not displayed.

The Project area has recently expanded to include a transmission line siting area. This expanded area is approximately bounded by Haldimand Road 53 to the east, Haldimand Road 55 to the west, Concession 10 W-1 to the north and Rainham Road to the south (please see attached **Figure 2**). At this time, we would like to request all natural heritage features information for the portion of the expanded Project area. Additionally, please identify any known occurrences of species at risk for the expanded Project Area.

2. BACKGROUND INFORMATION AND SITE CONTEXT

The Project area consists of flat, gently rolling farmland. It is generally bounded by Haldimand Concession 11 W-1 to the north; Haldimand Road 55 to the west; the Grand River to the east; and Lake Erie to the south. The Project will be located on privately owned and Ontario Realty Corporation (ORC) managed lands within Haldimand County.

2.1 Significant Natural Heritage Features

A number of designated significant natural heritage features are present within or adjacent to the Project area:

- *Grand River Marshes (Cayuga-Dunville Dam) Provincially Significant Wetland.* This wetland complex is comprised of 10 individual wetlands dominated by marsh (67%) and deciduous swamp (32%). It is reported to support nesting colonial waterbirds, and locally significant winter cover for wildlife including deer (MNR, undated).
- *Dunville Marshes Provincially Significant Wetland.* This wetland complex is comprised of 5 individual wetlands dominated by marsh (96%) and deciduous swamp (4%). It is reported to support nesting colonial waterbirds, and regionally significant staging habitat for waterfowl and fish spawning/rearing (MNR, undated).
- *Erco Provincially Significant Wetland.* The Erco Wetland is a coastal wetland composed of two wetland types (85% swamp and 15% marsh). It is reported to supported nesting colonial waterbirds and active feeding areas for Great Blue Heron, and locally significant winter cover for wildlife and fish spawning and rearing. Snapping Turtle has been observed here (MNR, undated).
- *James N. Allen Park Woodlot-Wetland Provincially Significant Wetland.* This coastal wetland complex is made up of five individual wetlands, composed of two wetland types (65% swamp and 35% marsh). It is reported to supported nesting colonial waterbirds and active feeding areas for Great Blue Heron, and locally significant winter cover for wildlife and fish spawning and rearing.
- *Dunville Grand River Alluvial Marshes Provincially Significant Life Science Area of Natural and Scientific Interest.* This area presents a 5 km expanse of the lower Grand River that includes a broad series of natural features associated with the inundated, still water riparian environment that has resulted from the dam at Dunville. "The general landform of the area is a series of broad alluvial islands and floodplains separated by natural basins and the major channel of the river. This area presents the best complement of still water riparian landforms and community patterns recorded in the lower Grand River Valley. Even though the environment is not strictly natural due to the impacts

July 23, 2010

Ms. Heather Riddell, Planning Ecologist

Page 3 of 10

Reference: Samsung Grand Renewable Energy Park

of the Dunnville dam, nevertheless, it does present a splendid diversity and development of riparian wetland community patterns” (MNR, undated).

- *Oriskany Sandstone and Woodlands Provincially Significant Life Science Area of Natural and Scientific Interest.* The Oriskany sandstone area is an isolated sandstone plain located in the western portion of the Haldiman clay plain. The plant communities of the ANSI are derived from the well-drained site conditions and previous land uses. Significant elements of the ANSI include the unique geological formation and its brachiopod fossil community; the unique oak-hickory forest association supported by the dry, acid substrate; the approximately 30 plant species that are rare in Ontario; and the endangered black rat snake whose unusual habitat is formed by the crevices and cracks of the Oriskany formation. (MNR, undated). The vegetation of the Oriskany Sandstone and Woodlands ANSI includes a variety of dry and mesic upland and wet lowland deciduous forests, a large pond and wetland complex, and successional barrens, meadows and thickets. Concentrations of prairie plant species are present.
- *Oriskany Sandstone Provincially Significant Earth Science Area of Natural and Scientific Interest.* “The ANSI contains the only exposures of the Devonian Oriskany Formation in Canada. This sandstone was deposited in an Early Devonian nearshore environment rich in fossil remains. Unconformities exist between this formation and both the Bertie and Bois Blanc Formations which are also present.” (MNR, undated).
- *Sandusk Falls Provincially Significant Earth Science Area of Natural and Scientific Interest.* “Sandusk Falls ANSI exhibits Middle Devonian, Onondaga Formation, Moorehouse Member cherty, fossiliferous limestone. The bedrock units in the area have been recently revised. This site has been defined as the Onondaga Formation and the contact with the overlying Dundee Formation is exposed.” (MNR, undated).
- *Hemlock Creek Limestone Provincially Significant Earth Science Area of Natural and Scientific Interest.* “Hemlock Creek ANSI exhibits the Middle Devonian, Onondaga Formation, Moorehouse limestone Member. This outcropping contains a diverse Onondaga faunal assemblage dominated by corals, bryozoans and brachiopods. The Moorehouse Member is exposed better at this site than any other area in the Niagara Peninsula.” (MNR, undated).

There are no designated Important Bird Areas in the Project area. However, the Project area is known or expected to support other types of natural heritage features. Large, mature woodlands are arrayed along rear lots, particularly in the eastern portion of the wind and solar siting area (**Figure 1**). Fish habitat is present in many watercourses and their tributaries throughout the Project area. Lake Erie and the Grand River are important for staging migrant or overwintering waterfowl. The Lake Erie shoreline is thought to concentrate migrating raptors and possibly bats in fall. The area around Fisherville historically supported unusually high numbers of wintering raptors and owls.

Reference: Samsung Grand Renewable Energy Park

2.2 Significant Species

The Project area supports potential habitat for numerous species at risk. Table 1 lists significant species occurrences within the Project area. Special concern species identified by the MNR as having a “high likelihood” of occurrence are:

Milksnake

Monarch

Snapping Turtle

Special concern species identified by the MNR as having a “medium likelihood” of occurrence are:

Eastern Ribbonsnake

Hooded Warbler

Northern Map Turtle

River Redhorse

2.3 Threatened and Endangered Species

MNR has provided a preliminary list and probable occurrences of species at risk in the Grand River Energy Park Study Area. The only threatened or endangered species identified as having a “high likelihood” of occurrence by the MNR is Gray Ratsnake (Endangered). Ratsnakes (*Elaphe obsoleta*) have varying habitat preferences, ranging from open fields to forested communities. This species will nest individually or communally with other ratsnakes, often returning to the same nesting site each time. Nests generally occur in loose decaying organic material such as hollow trees and piles of compost, leaves and manure. Eggs are often laid in July and hatch sometime between September and October. After hatching, juveniles usually remain at the nest site until their first shed. Ratsnakes are constrictors and often climb trees in search of food. Studies have shown that ratsnakes often utilize community edges for thermoregulatory purposes and because these areas tend to have higher prey abundance.

Threatened and endangered species identified as having a “medium likelihood” of occurrence by the MNR are:

Terrestrial Wildlife

American Badger

Barn Owl

Blanding's Turtle

Chimney Swift

Fowler's Toad

Terrestrial Plants

American Chestnut

Eastern Flowering Dogwood

Aquatic Wildlife

Eastern Sand Darter

Round Pigtoe

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Ms. Heather Riddell, Planning Ecologist

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Reference: Samsung Grand Renewable Energy Park

Site investigations in 2009 and 2010 will assess the presence, or potential presence, of these species within 120 m of the Project location. Additionally, the Haldimand Stewardship Council will be contacted for information on Gray Ratsnake sightings within the Project area. No potentially intrusive surveys, requiring a permit under the *Endangered Species Act* (2007), are proposed at this time. If the presence or potential presence of an endangered or threatened species is confirmed, to assure compliance with the *Endangered Species Act* (2007), additional detailed studies will be conducted in 2011. MNR will be consulted regarding specific study programs and permit requirements at that time.

3. PROPOSED SITE INVESTIGATION WORK PROGRAM

O. Reg. 359/09 requires that a natural heritage assessment (“NHA”) be completed for wind power projects. This is comprised of a records review, site investigation, and evaluation of significance of each natural feature identified in the course of the records review and site investigation. This work program is intended to provide a comprehensive overview of all natural heritage requirements under the new approval process.

3.1 Bird Studies

Bird studies were conducted by Hatch across four seasons between March 2009 and February 2010. The bird monitoring program was developed with reference to the following guidance documents:

- Guideline to Assist in the Review of Wind Power Proposals – Potential Impacts to Birds and Bird Habitats v. 1.0 (MNR, August 2007)
- Recommended Protocols for Monitoring Impacts of Wind Turbines on Birds (Environment Canada, February 2007)
- Wind Turbines and Birds – A Guidance Document for Environmental Assessment (Environment Canada, February 2007)

The 2009 bird study area was smaller than the current Project area. Accordingly, supplementary breeding bird studies were conducted by Stantec in June, 2010. Details on methods are provided below.

Spring Migration

Four visits to the site were completed by Hatch to characterize spring bird migration within the Study Area. Surveys took place on March 27, April 8, April 24 and May 11 – 12, 2009 and were comprised of driving surveys along the roadsides of the 2009 bird study area. All birds observed were recorded and approximate locations of large flocks were noted, if observed. Flight heights and directions of any raptors or waterfowl observed were also noted. Weather conditions (precipitation, Beaufort wind speed, wind direction, air temperature, and cloud cover) were noted at the start of each survey and every hour following. The surveys were performed in the morning and in the evening.

Following the morning observations, behavioural watches were completed for 1 hour at each of four proposed locations within the project area. These survey locations were:

Dunnville-Haldimand Townline Rd., just north of Dover-Dunnville Rd. (Rainham Rd.), in the southeast of the study area

River Rd, just west of Cayuga Sideroad South and River Rd. in the northeast of the study area

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Reference: Samsung Grand Renewable Energy Park

Meadows Rd. in the northwest of the study area, between Mt. Olivet and Wilson (near the Fradenburg Tract Provincially Significant Wetland)

Intersection of Bains Rd. and Sweets Corners Rd. in the southwestern portion of the study area (near the Wardell's Creek Woods Life Science Site).

Weather conditions were noted prior to the surveys. The location at which the survey commenced was randomly determined, with the order being different for each visit. Notes on species and the number of birds, plus bird behaviour such as flight height, patterns, directions and notable actions, were recorded.

During the monitoring event in May (during the peak of passerine migration), an area search around the woodlots of the study area was conducted to determine if any were being heavily used by migrants. Area searches were conducted through the day, starting in the morning, and were completed within 5 hours of sunrise. As landowner permission for access to the woodlots was not obtained, the observer was restricted to working from the roadsides along the edges of woodlots that bordered the road.

Summer Breeding

Breeding bird surveys consisted of a combination of point counts, area searches, and behavioural watches. In addition, targeted surveys for SAR that may be present were conducted.

Summer breeding bird surveys were conducted during the first half of June 2009 (June 4, 5 and 10), with surveys repeated 20 days later during the second half of June (June 23, 24, and 26, and July 14 and 15). This provided replicate coverage of the site during the breeding bird period.

Seventy-one 10-minute, unlimited distance point counts were conducted from roadsides within the study area. These were distributed across the study area in the following manner:

20 point counts along the lakeshore

11 point counts along the Grand River (number limited by availability of suitable monitoring locations within the study area)

20 point counts from areas associated with woodlots – these point counts also involved broadcast calls for species at risk, discussed below.

20 point counts in open areas (agricultural fields)

Point count locations along the river, lakeshore and associated with woodlots were chosen based on availability of suitable monitoring locations (i.e., proximity to shoreline, woodlot, etc). Point count locations in open areas were randomly selected. Point counts commenced 0.5 hours prior to dawn and continued until a maximum of 5 hours after dawn. Spacing recommendations identified in guidance documents were maintained between point count locations.

Behavioural watches were conducted as during the spring migration surveys, with two counts conducted per station across the breeding period. In addition to the four stations monitored during spring migration, two additional stations in the western half of the study area, as well as three Lake Erie shoreline stations were monitored.

July 23, 2010

Ms. Heather Riddell, Planning Ecologist

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Reference: Samsung Grand Renewable Energy Park

When property access was obtained in June, 2010, supplementary breeding bird point counts and area searches were conducted by Stantec. Following a site reconnaissance visit, grassland habitats in the expanded Project area and off-road woodland habitats in the entire Project area were targeted. Thirty-five additional woodland points and 13 grassland point counts were monitored between June 17 and June 22, and monitoring was repeated at least 10 days later between June 28 and July 2, 2010.

Targeted investigations were also conducted by Hatch in 2009 to detect the possible presence of the following species at risk or species which may have otherwise been missed during regular surveys:

Bald Eagles were targeted during behavioural watch surveys.

Common Nighthawk/Chimney Swift – Searches for these crepuscular species were conducted by driving slowly throughout the study area, starting 1.5 hours prior to sunset, with the survey finishing at full dark.

Woodland Passerines: Acadian Flycatcher, Red-headed Woodpecker, Canada Warbler, Hooded Warbler - As part of point counts associated with forest habitat, a broadcast survey of calls of these species was conducted. Protocols for the broadcast survey generally follow the guidelines of the Marsh Monitoring Program, with periods of passive observation and periods of broadcast calls.

Fall Migration

Surveys during the fall migration were conducted exactly as indicated during the spring migration, with the addition of the behavioural monitoring stations surveyed during the summer breeding bird period, and an additional survey period included. Surveys were conducted on August 28, September 2 and 3, September 25 and 30, October 14 and 15, November 3 and 4, November 17 and 23, 2009.

Area searches of local woodlots were conducted during visits in September where landowner permission was available.

Over-winter Resident

Surveys during the over-winter resident period were conducted by driving on roads within the study area, as was conducted for spring migration monitoring, to determine bird use of the area. The study area was visited three times, on December 21, 2009, February 4, 2010 and February 25, 2010.

3.2 Bat Studies

An acoustic bat monitoring program was carried out by Hatch in August and September, 2009 based on the working draft "Guideline to Assist in the Review of Wind Power Proposals – Potential Impacts to Bats and Bat Habitats" (MNR, August 2007). Consultation with the MNR in August 2009 indicated there were no known significant hibernacula, significant maternity roosts, swarming sites, caves or adits within the vicinity of the 2009 Project area. The nearest potential habitats were located between 5 km (karst areas near the Grand River north of the Project area) and 15 km (abandoned mines near Hagersville). The results of the 2009 acoustic monitoring did not suggest the presence of day roosts or swarming sites in the Project area, although Hatch notes that this cannot be confirmed on the basis of the acoustic monitoring.

The revised "Bats and Bat Habitats: Guidelines for Wind Power Projects" (MNR, March 2010) requires a physical search of the air, land and water within 120 m of the project to determine if additional candidate bat significant wildlife habitat is present. This physical search will be carried out in conjunction with the 2010 site investigation, to be carried out in August, 2010.

July 23, 2010

Ms. Heather Riddell, Planning Ecologist

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Reference: Samsung Grand Renewable Energy Park

3.3 Other Natural Heritage Features

The records review and the results of the 2009-2010 wildlife studies have provided general guidance to Project siting. Once a preliminary site layout is available, an site investigation field program will be conducted in and within 120m of the Project location for the purpose of determining:

- Whether the results of the records review are correct or require correction;
- Whether any additional natural features or water bodies exist that were not documented in the records review;
- The boundaries, located within 120m of the project location, of any natural feature or water body identified in the records review or site investigation; and,
- The distance from the project location to the boundaries of each natural feature or water body.

The presence of features such as woodlands, wetlands, and valleylands will be determined through completion of Ecological Land Classification (ELC) of vegetation communities (Lee et al., 1998) and reference to the Ontario Wetland Evaluation System (2002) and the Natural Heritage Reference Manual for Natural Heritage Policies of the Provincial Policy Statement, 2005 (MNR, 2010).

A field assessment will be undertaken to identify the potential for features that may be designated as significant wildlife habitat (i.e., seasonal concentration areas, rare vegetation communities or specialized habitats, movement corridors and habitats of species of conservation concern) within the project location. Each feature, which background information indicates could reasonably be found in the Project area, will be assessed through the site investigations.

Seasonal Concentration Areas

The presence of bird-related seasonal concentration areas (such as colonial bird nesting sites, waterfowl stopover, staging and nesting areas, shorebird and landbird migratory stopover areas, raptor winter feeding and roosting areas) will be assessed based on the results of the four-season bird studies described in Section 3.

Physical searches for habitat that could potentially serve as reptile or bat hibernacula will be conducted within 120 m of the Project location in August, 2010.

Rare Vegetation Communities or Specialized Habitats

The presence of rare vegetation communities and specialized habitats related to vegetation (such as forests providing a high diversity of habitats, old-growth or mature forest stands, foraging areas with abundant mast) will be determined through completion of Ecological Land Classification (ELC) of vegetation communities (Lee et al., 1998) within 120 m of the project location.

The presence of bird-related specialized habitats (such as habitat for area-sensitive species, specialized raptor nesting habitat) will be assessed based on the results of the four-season bird studies described in Section 3.

Physical searches for habitat that could potentially serve as amphibian woodland breeding ponds, turtle nesting habitat, mineral licks, as well as cliffs, seeps and springs, will be conducted within 120 m of the Project location in August, 2010.

July 23, 2010

Ms. Heather Riddell, Planning Ecologist

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Reference: Samsung Grand Renewable Energy Park

Habitats of Species of Conservation Concern

The presence of habitats for plant species of concern will be determined through a botanical inventory of lands within 120 m of the Project location in August, 2010, along with completion of Ecological Land Classification (ELC) of vegetation communities (Lee et al., 1998). The presence of habitats for bird species of concern will be assessed based on the results of the four-season bird studies described in Section 3.

The presence of habitats for amphibian and reptile species of concern will be determined through a physical search of lands within 120 m of the Project location in August, 2010. Species potentially occurring include milksnake, eastern ribbonsnake, snapping turtle, and northern map turtle. Milksnake is a habitat generalist, favouring open woodlands, fields and farm buildings. It is commonly associated with rural areas, and travels across agricultural areas, yards and roads. As such, it will not be possible to identify specific areas of habitat within the Project area for this species. The physical searches for the other three reptile species will focus on suitable waterbodies and wetlands, and detecting suitable nesting substrates and potential hibernacula on adjacent lands.

Animal Movement Corridors

Animal movement corridors are defined as elongated, naturally vegetated parts of the landscape used by animals to move from one habitat to another, and include riparian zones, shorelines, woodlands, hydro and pipeline corridors, abandoned road and rail allowances, fencerows and windbreaks. Where such features occur within 120 m of the Project location, an assessment for potential for animal movement will be conducted during physical searches in August, 2010.

Upon completion of the site investigation field program, an evaluation of significance for the natural heritage assessment will be conducted in accordance with the MNR's Natural Heritage Reference Manual (2010), and Significant Wildlife Habitat Technical Guide (2000). The Natural Heritage Assessment Report will be produced and submitted to the MNR, and will include mapping of the project in relation to identified natural features.

4. PROJECT SCHEDULE

Bird and bat field surveys were completed in 2009. Additional surveys specific to the key features of the Renewable Energy Approvals process are planned for 2010.

To permit a REA submission in February 2011, it will be necessary to issue the REA reports, including the Natural Heritage Assessment report, to the public in November 2010. To meet this timeline, we propose the following schedule:

- | | |
|-------------------------|--|
| September 17, 2010 | <ul style="list-style-type: none">• preliminary project layout will be available |
| September 20 - 24, 2010 | <ul style="list-style-type: none">• conduct project location-specific field work |
| October 4, 2010 | <ul style="list-style-type: none">• submit final Natural Heritage Assessment, and Environmental Impact Study (EIS) if necessary, for MNR review and confirmation before November 4, 2010 |

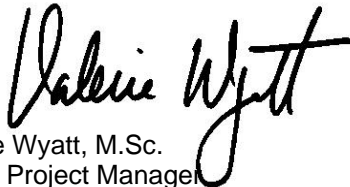
July 23, 2010
Ms. Heather Riddell, Planning Ecologist
Page 10 of 10

Reference: Samsung Grand Renewable Energy Park

We look forward to discussing this work program and project schedule with you. Please do not hesitate to contact the undersigned should you require further information.

Sincerely,

STANTEC CONSULTING LTD.



Valerie Wyatt, M.Sc.
Senior Project Manager
Tel: (519) 836-6050 x 237
Fax: (519) 836-2493
valerie.wyatt@stantec.com

Attachment: Figure 1 – Natural Heritage Features map
Figure 2 – Project Location map
Table 1 – Natural Heritage Information Centre Species Search Results

cc. Carrie Hayward, MNR Regional Director – Southern Region
Adam Rosso, Samsung Renewable Energy
Michael Henderson, Samsung Renewable Energy
Rob Nadolny, Stantec Consulting Ltd.



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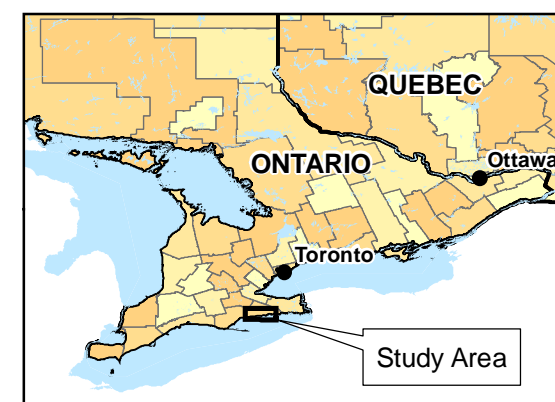
- Project Location
- Road
- Railway
- Abandoned Railway
- Watercourse (OBM)
- Transmission Line (OBM)
- Waterbody (OBM)
- Wooded Area
- Deer Yard

Area of Natural and Scientific Interest (ANSI)

- Life Science, Provincially Significant
- Earth Science, Provincially Significant
- Earth Science, Regionally Significant

Wetland

- Provincially Significant Wetland
- Non-Provincially Significant Wetland



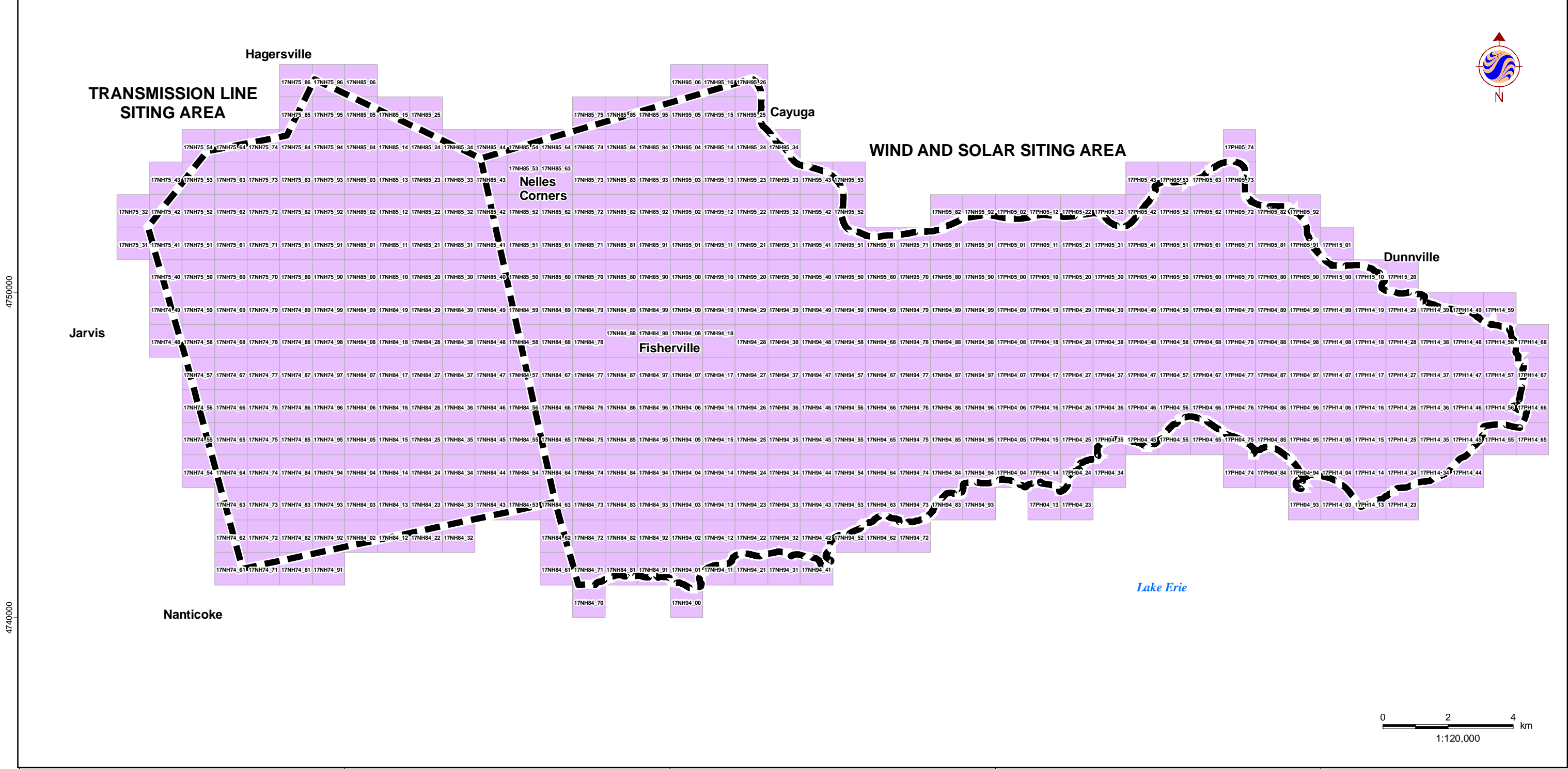
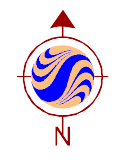
Notes

- Coordinate System: UTM NAD 83 - Zone 17 (N).
- Data Sources: Ontario Ministry of Natural Resources © Queens Printer Ontario, 2009; © GREP, 2010; © Samsung, 2010.

Client/Project
SAMSUNG C&T
GRAND RENEWABLE ENERGY PARK

Figure No.
1.0

Title
NATURAL HERITAGE FEATURES

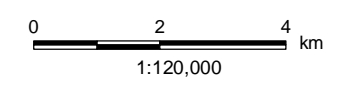


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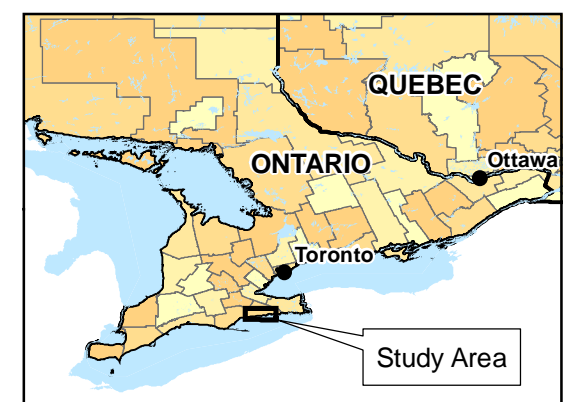
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July, 2010
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- Legend**
-  Project Location
 -  NHIC Tile



- Notes**
1. Coordinate System: UTM NAD 83 - Zone 17 (N).
 2. Data Sources: Ontario Ministry of Natural Resources
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© Samsung, 2010.

Client/Project
**SAMSUNG C&T
GRAND RENEWABLE ENERGY PARK**

Figure No.
2.0

Title
PROJECT LOCATION MAP



# of EOs	Unique Identifier (Element ID)	Taxonomic Group	Family	Scientific Name	English Name	G-rank	S-rank	Committee on the Status of Endangered Wildlife in Canada (COSEWIC) Status	Species At Risk in Ontario (SARO) Status
1	180730	Mammals	Mustelidae	Taxidea taxus	American Badger	G5	S2	END	END
1	180700	Mammals	Cricetidae	Microtus pinetorum	Woodland Vole	G5	S3?	SC	SC
3	180258	Birds	Tytonidae	Tyto alba	Barn Owl	G5	S1	END	END
1	180063	Birds	Ardeidae	Ixobrychus exilis	Least Bittern	G5	S4B	THR	THR
1	180239	Birds	Laridae	Chlidonias niger	Black Tern	G4	S3B	NAR	SC
1	180411	Birds	Parulidae	Dendroica cerulea	Cerulean Warbler	G4	S3B	SC	SC
2	180752	Reptiles and Turtles	Emydidae	Emydoidea blandingii	Blanding's Turtle	G4	S3	THR	THR
1	180753	Reptiles and Turtles	Emydidae	Graptemys geographica	Northern Map Turtle	G5	S3	SC	SC
1	180759	Reptiles and Turtles	Trionychidae	Apalone spinifera	Spiny Softshell	G5	S3	THR	THR
8	180770	Reptiles and Turtles	Colubridae	Lampropeltis triangulum	Milksnake	G5	S3	SC	SC
2	17156	Reptiles and Turtles	Colubridae	Pantherophis spiloides pop. 2	Gray Ratsnake (Carolinian population)	G5T1	S1	END	END
1	182542	Reptiles and Turtles	Colubridae	Thamnophis sauritus	Eastern Ribbonsnake	G5	S3	SC	SC
1	180785	Reptiles and Turtles	Viperidae	Sistrurus catenatus	Massasauga	G3G4	S3	THR	THR
3	201116	Amphibians	Ambystomatidae	Ambystoma hybrid pop. 1	Jefferson X Blue-spotted Salamander, Jefferson genome dominates	GNA	S2		
4	180023	Amphibians	Bufo	Anaxyrus fowleri	Fowler's Toad	G5	S2	THR	THR
1	180569	Fish	Cyprinidae	Notropis photogenis	Silver Shiner	G5	S2S3	SC	SC
1	180599	Fish	Catostomidae	Moxostoma carinatum	River Redhorse	G4	S2	SC	SC
1	180601	Fish	Catostomidae	Moxostoma erythrurum	Golden Redhorse	G5	S4	NAR	NAR
2	181402	Freshwater Mussels	Unionidae	Epioblasma triquetra	Snuffbox	G3	S1	END	END
1	181419	Freshwater Mussels	Unionidae	Pleurobema sintoxia	Round Pigtoe	G4G5	S1	END	END
1	181245	Dragonflies and Damselflies	Coenagrionidae	Enallagma aspersum	Azure Bluet	G5	S3		
1	181206	Dragonflies and Damselflies	Libellulidae	Sympetrum corruptum	Variiegated Meadowhawk	G5	S3		
2	24000	Moncotyledons	Araceae	Arisaema dracontium	Green Dragon	G5	S3	SC	SC
2	83030	Dicotyledons	Fabaceae	Astragalus neglectus	Cooper's Milk-vetch	G4	S3		
2	23214	Moncotyledons	Cyperaceae	Carex hirsutella	Hairy Green Sedge	G5	S3		
1	23240	Moncotyledons	Cyperaceae	Carex juniperorum	Juniper Sedge	G3	S1	END	END
1	23402	Moncotyledons	Cyperaceae	Carex seorsa	Weak Stellate Sedge	G4	S2		
2	23474	Moncotyledons	Cyperaceae	Carex willdenowii	Willdenow's Sedge	G5	S1		
1	44002	Dicotyledons	Juglandaceae	Carya glabra	Pignut Hickory	G5	S3		
1	44004	Dicotyledons	Juglandaceae	Carya laciniosa	Shellbark Hickory	G5	S3		
2	46000	Dicotyledons	Fagaceae	Castanea dentata	American Chestnut	G4	S2	END	END
1	146502	Dicotyledons	Cuscutaceae	Cuscuta cephalanthi	Buttonbush Dodder	G5	S2		
1	83092	Dicotyledons	Fabaceae	Desmodium rotundifolium	Prostrate Tick-trefoil	G5	S2		
1	22260	Moncotyledons	Poaceae	Echinochloa walteri	Coast Barnyard Grass	G5	S3		
2	168232	Dicotyledons	Asteraceae	Eurybia schreberi	Schreber's Wood Aster	G4	S2S3		
1	143010	Dicotyledons	Gentianaceae	Frasera caroliniensis	American Columbo	G5	S2	END	END
1	31000	Moncotyledons	Juncaceae	Juncus acuminatus	Sharp-fruited Rush	G5	S3		
1	151066	Dicotyledons	Lamiaceae	Lycopus rubellus	Taper-leaved Bugleweed	G5	S3		
2	149040	Dicotyledons	Boraginaceae	Mertensia virginica	Virginia Lungwort	G5	S3		
1	151086	Dicotyledons	Lamiaceae	Monarda didyma	Scarlet Beebalm	G5	S3		
1	125070	Dicotyledons	Onagraceae	Oenothera pilosella	Pillose Evening Primrose	G5	S2		
1	149062	Dicotyledons	Boraginaceae	Onosmodium molle ssp. hispidissimum	Soft-hairy False Gromwell	G4G5T4	S2		
1	61086	Dicotyledons	Caryophyllaceae	Paronychia fastigiata	Cluster-stemmed Nailwort	G5	S1		
3	54016	Dicotyledons	Polygonaceae	Persicaria arifolia	Halberd-leaved Tearthumb	G5	S3		
1	147010	Dicotyledons	Polemoniaceae	Phlox subulata	Moss Phlox	G5	S1?		
1	109036	Dicotyledons	Malvaceae	Sida hermaphrodita	Virginia Mallow	G3	S1	END	END
1	15002	Moncotyledons	Sparganiaceae	Sparganium androcladum	Branching Burreed	G4G5	SH		
1	22616	Moncotyledons	Poaceae	Torreyochloa pallida	Torrey's Manna Grass	G5	S2		
1	16910	Dicotyledons	Violaceae	Viola palmata	Palmate-leaved Violet	G5	S2S3		

Friedl, Susanne

From: Hindmarsh, Ben (MNR) <Ben.Hindmarsh@ontario.ca>
Sent: Tuesday, August 17, 2010 1:51 PM
To: Pomeroy, Mark
Cc: Riddell, Heather (MNR); Yagi, Anne (MNR)
Subject: RE: Samsung (GREP) Fish permit application
Attachments: Haldimand - Master.xls; Haldimand - North.jpg; Haldimand - Overview.jpg; Haldimand - West.jpg; Haldimand - Central.jpg; Haldimand - East.jpg; Haldimand - Fish Species.xls

Hello Mark,

Please see the attached detailed fisheries data for the portion of the Samsung project area falling within Aylmer District.

If you have any questions, please let me know.

Thanks,
Ben Hindmarsh

Ben Hindmarsh
Sr. Fish and Wildlife Technical Specialist
Ministry of Natural Resources
615 John St. N.
Aylmer, Ontario N5H 2S8
Tel: (519) 773-4711
Fax: (519) 773-9014
Email: ben.hindmarsh@ontario.ca

From: Riddell, Heather (MNR)
Sent: July 26, 2010 3:27 PM
To: Hindmarsh, Ben (MNR); Yagi, Anne (MNR)
Cc: Nix, April (MNR)
Subject: FW: Samsung (GREP) Fish permit application
Importance: High

Hi Ben & Anne,

This is what Stantec is proposing.

Please let me know what your thoughts are on this.

Thanks,

Heather Riddell
A/ Planning Ecologist
MNR, Aylmer District
(519) 773-4723

From: Pomeroy, Mark [mailto:mark.pomeroy@stantec.com]
Sent: July 26, 2010 3:24 PM
To: Riddell, Heather (MNR)
Subject: Samsung (GREP) Fish permit application
Importance: High

Heather,

I have attempted to phone you today on two occasions (once at about 2pm and again at about 330pm), but have received a busy signal both times.

I understand that there was a meeting on Friday, during which the feasibility of a blanket permit was discussed. I also understand that a bit more clarification may be necessary regarding details of the proposed activities, and that it would be preferable to the MNR if the area could be narrowed somewhat. I would like to propose that Stantec submit a map with a narrowed study area, including dots where we would like to sample. If there are areas where MNR prefers that sampling not occur (due to there being sufficient recent fish data, or the presence of SAR), the map could be returned to me showing locations where sampling is not required or wanted, hopefully with a brief rationale. I could then submit a permit application package based on that, which should satisfy requirements of both parties. Please let me know if this is acceptable. You can give me a call if you'd like to discuss further, or if I'm not being clear.

Thanks,

Mark Pomeroy, B.Sc.

Biologist / Project Manager

Stantec

Ph: (519) 836-6050 Ext. 224

Fx: (519) 836-2493

mark.pomeroy@stantec.com

stantec.COM

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**Ministry of
Natural Resources**
615 John Street North
Aylmer ON N5H 2S8
Tel: 519-773-9241
Fax: 519-773-9014

**Ministère des
Richesses naturelles**
615, rue John Nord
Aylmer ON N5H 2S8
Tél: 519-773-9241
Télééc: 519-773-9014



August 19, 2010

Valerie Wyatt
Senior Project Manager
Stantec Consulting
70 Southgate Drive, Suite 1
Guelph ON N1G 4P5

Dear Ms. Wyatt,

Re: **Samsung Grand Renewable Energy Park
Data Request and Site Investigation Work Program**

Further to our meeting of July 23, 2010, the MNR provides the following additional information and comments for consideration. It is understood that the area of interest is for Samsung's proposed Grand Renewable Energy Park project, which is proceeding through the Ministry of Environment's (MOE) renewable energy approvals (REA) process under Regulation 359/09.

Under Regulation 359/09 there are several requirements for Renewable Energy projects that must be met/addressed pertaining to the protection of natural heritage features as part of the application process. You can find the Regulation online at:

http://www.e-laws.gov.on.ca/html/regs/english/elaws_regs_090359_e.htm

More specifically Sections 24-28 of the Regulation outline natural heritage requirements for renewable energy projects. Section 38 also outlines natural heritage prohibitions and Environment Impact Study requirements.

Natural Heritage Information

Wetlands:

With respect to wetlands within the study area, MNR staff are currently working on updating Provincially Significant Wetlands mapping within Haldimand County, we will keep you informed as to when this new mapping becomes available. Given the limited existing wetlands mapping in Haldimand County it should be understood that there likely are wetland features that are previously unmapped and unevaluated by the Ministry within the study area. If part(s) of the project location for the Grand Renewable Energy Park are within 120m of these features, they will need to be evaluated using the most recent edition of the Ontario Wetland Evaluation System to identify, delineate and map these wetland communities in order to determine if they are a Provincially Significant Wetland (PSW) or part of a PSW Complex.

The Aylmer District database identified the following evaluated wetlands within the study area:

- Evans Creek (LET3) – Locally Significant Wetland (LSW)
- Gates Creek Mouth (LET1) – PSW
- SAC10 – LSW
- SAC2 – PSW
- SAC7 – LSW

- SAC9 – LSW
- STC1 – LSW
- STC2 – LSW
- STC4 – LSW
- Wardell's Creek Mouth (LET2) - PSW

The Guelph District database identified the following evaluated wetlands within the study area:

- Franctenburg Tract – PSW
- Dry Lake – PSW
- Tanquanyah C.A. – LSW
- Byng Creek – LSW

Woodlands:

There are also a number of wooded areas within the general study area; these appear to range from small hedgerow features to larger woodland communities up to around 100 hectares in size. Several of the woodland communities have also been identified as deer wintering areas, which should also be captured as part of the overall NHA in relation to significant wildlife habitat. Mapping for identified deer wintering areas within Guelph District and wooded areas is available through LIO. The Guelph District deer wintering area mapping in LIO is the most up-to-date available and was compiled by the Niagara Area office. If there are questions with respect to the mapping available please contact Anne Yagi Management Biologist at 905-562-1196 or anne.yagi@ontario.ca.

Areas of Natural and Scientific Interest (ANSI):

In regards to the request for “*supporting information for an unnamed provincially significant Life Science Area of Natural Interest, located along the Lake Erie shoreline east of Reichland Road (LIO Object ID's 65139221 and 651039222*”, according to our records, those ID's are identified as Sweets Corners Earth Science ANSI. How those features have been represented in the digital layer may not be entirely accurate and as such we recommend contacting Ontario Parks for further confirmation and/or information on that feature.

The Ministry has no records of any other ANSI features not already identified in the work program. Mapping of ANSI features is available through LIO. There is also older hard copy ANSI information available for the Oriskany Sandstone Life Science ANSI available through Guelph District. Please contact April Nix – Planning Intern at 519-826-4939 to make arrangements to access this information.

Bats and Bat Habitat:

The Ministry is aware of a potential bat hibernacula site within the Cayuga area south of highway 3 and west of the Grand River in Haldimand County. MNR staff are currently working on arranging a site visit to assess the potential of this feature. As such it is recommended that you contact Lesley Hale, Science Specialist - Renewable Energy at 705-755-3247 to make arrangements to co-ordinate a site investigation/field visit.

Further, there are areas of karst which may contain potential bat habitat within Haldimand County. Karst mapping is available through the Ministry of Northern Development, Mines and Forestry (MNDMF). It is also recommended that you obtain MNDMF's mapped abandoned mines layer as these sites may also be used as hibernacula. You will need to contact MNDMF directly to obtain available karst and mine data and information.

Bird and Bat Guidelines:

The Ministry also has guidelines to assist proponents in developing appropriate bird and bat monitoring protocols, including: Guideline to Assist in the Review of Wind Power Proposals – Potential Impacts to Birds and Bird Habitats; and the recently updated draft Bats and Bat Habitats – Guideline

for Wind Power Projects. These documents are available on the [Ministry's website](#) under the Energy –Windpower –Policies, Procedures and Guidelines section. Please note that the Ministry is currently in the process of updating the bird guidelines to reflect the recent changes to the renewable energy approvals process.

The Ministry has also recently released the new Natural Heritage Reference Manual – second edition, which can be found online at: <http://www.mnr.gov.on.ca/289522.pdf>.

Information Relating to the Approvals and Permitting Requirements Document (APRD)

It is understood the MNR staff have previously provided a list of Species at Risk (SAR) to Stantec for the Grand Renewable Energy Park study area. Please note, that the list of SAR protected under the Endangered Species Act, 2007 is updated from time to time. The [complete list](#) is available online on the MNR website, and also indicates when the latest updates to the list were completed. In addition, the priority list of species under review by the Committee on the Status of Species at Risk in Ontario (COSSARO) is also available through the Ministry [website](#).

It should also be understood that where water crossings are proposed, including for related wind energy infrastructure, that these crossings may also be subject to approvals under the *Public Lands Act* as the beds of waterways may be Crown Land. Should any water crossings be proposed, it is recommended that you inform the Ministry, as early as possible, in order to determine if these approvals will apply.

Petroleum Resources:

It is also recommended that you review the Ontario Oil, Gas and Salt Resources Library for information about known well and pool locations (<http://www.ogsrlibrary.com/>) of petroleum in the study area. The Ontario Oil, Gas and Salt resources library is the most accurate source of petroleum resource information available. As noted in Section 7.8 of the APRD, development is not permitted within 75 metres of a petroleum resources operation, unless the applicant submits an engineers report demonstrating that there are no effects to the development.

General Comments on the Work Program

With respect to differences in mapping or data availability between the NHIC biodiversity explorer and mapping layers available through the LIO warehouse, it should be understood that NHIC maintains their own versions of the MNR LIO data and information. As such the NHIC's Natural Areas database may contain out-of-date information pertaining to some natural heritage features. The authoritative sources for wetland evaluation information are the LIO Wetland Unit dataset and the District wetland evaluation data records. As such, Ministry staff recommend referring to the LIO data as the primary data source for features such as wetlands, woodlands, ANSIs, etc. The NHIC biodiversity explorer can be used for general information searches and to identify element occurrences as indicators to support SAR and significant wildlife habitat. If you require detailed wetland evaluation records in Aylmer District, please contact Erin Sanders, Wetland Evaluation Project Biologist at 519-773-4715 or erin.sanders@ontario.ca. If you require the same from Guelph District, please contact Anne Yagi at the contact information provided above.

Section 2.2 and 2.3

Ministry staff note that the list of SAR previously provided ranked the likelihood of occurrence based on a high, medium or low potential to occur. Based on the work program provided, only species identified as having a medium or high likelihood of occurring are being considered within the work program. It should be understood that Ministry staff based the likelihood of a species occurring within

the study area on the basis of the limited information available, including habitat information and element occurrences (EOs).

As the province has not been surveyed comprehensively for the presence of species at risk (SAR), the absence of an EO in a particular geographic area does not indicate the absence of the species in that area. Please note that Ministry staff recommend that all SAR species that have potential to occur within the study area should be considered and surveyed for where there is potential habitat.

Section 3.2 describes bat studies completed to date and additional proposed investigations for August 2010. Please note that in addition to completing physical surveys within 120 m of the project location for potential hibernacula, the new draft bat guidelines also outline protocols for the identification of maternity roosts. As such, the natural heritage assessment for this project should include site investigations and evaluations of significance (where applicable) for both bat hibernacula and maternity roosts (significant wildlife habitat for bats) within the NHA.

Section 3.3 of the work program outlines other natural heritage features and how they will be assessed. Where physical searches for habitat suitable to serve as amphibian woodland breeding ponds, turtle nesting habitats, mineral licks, cliffs, seeps and springs identify potential habitats within 120 m of the project location, these habitats should also be evaluated for significance using criteria outlined in the Significant Wildlife Habitat Technical Guide. Site investigations should also consider the potential for SAR habitat where applicable (as required under the APRD). These evaluations should be conducted within appropriate timing windows/seasons in accordance with MNR standards, such as Wildlife Monitoring Programs and Inventory Techniques for Ontario (1998). Alternatively, the project location may be shifted so that it is not within 120m of these potential features and as such no evaluation of the significance is required.

The NHA should also identify whether the project location falls within 120m of any provincial parks or conservation reserves. Please note that James N. Allan Provincial Park is within the general study area.

Finally, if you have not already done so, we also recommend reviewing information that may be available through the County of Halidmand, the Grand River Conservation Authority, and Long Point Region Conservation Authority.

I trust this information will be of assistance. If you have any questions or wish to discuss further please contact me.

Sincerely,



Heather Riddell
A/Planning Ecologist
Aylmer District

519-773-4723

heather.riddell@ontario.ca

cc: Ian Thornton (MNR, Guelph District)
April Nix (MNR, Guelph District)



Stantec Consulting Ltd.
Suite 1 - 70 Southgate Drive
Guelph ON N1G 4P5
Tel: (519) 836-6050
Fax: (519) 836-2493

Stantec

August 30, 2010
File: 161010624 / 161010646

Ministry of Natural Resources
615 John St. North
Aylmer, ON N5H 2S8

Attention: Ms. Heather Riddell, A/Planning Ecologist

Dear Ms. Riddell:

**Reference: Samsung Grand Renewable Energy Park
Response to MNR Comments on Data Request and Site Investigation Work Program**

Thank you for your August 19, 2010 response to our data request and site investigation work program letter. This letter requests clarification regarding the following items:

- Bat hibernacula
- Species at risk and site investigation

BAT HIBERNACULA

We are in receipt of the coordinates of the adit potentially supporting a bat hibernacula (**Figure 1**). It is our understanding that candidate significant wildlife habitat extends 200 m beyond this point (Bats and Bat Habitats: Guidelines for Wind Power Projects [Draft March 2010], p. 9), and that studies of this feature are not required if the project is located more than 120 m from the candidate significant wildlife habitat (i.e. 320 m from the identified adit). Samsung is committed to ensuring a minimum 320 m setback from the point provided by MNR and we request your confirmation that provided this 320 m setback is respected, no studies of the potential bat hibernacula are required.

SPECIES AT RISK AND SITE INVESTIGATION

We acknowledge MNR's direction to consider species at risk with "Low Likelihood" of occurrence within the study area as part of the site investigation.

We have assumed, in the absence of comments to the contrary, that MNR agrees our proposed site investigation will be sufficient to determine the presence of potential habitat for species at risk. Should our site investigation identify the presence of potential habitat of endangered and threatened species, additional surveys may be required within appropriate seasons to satisfy the requirement of the Approval and Permitting Requirements Document for Renewable Energy Projects (APRD). However, it is our understanding that the results of seasonal surveys for endangered and threatened species will not be required as part of the Natural Heritage Assessment / Environmental Impact Study report, or for the MNR's letter of confirmation.

Specifically, the site investigations for birds carried out by Hatch in 2009 and Stantec in 2010 will be sufficient to detect the presence of potential habitat for bird species at risk (Bald Eagle, Barn Owl, Cerulean Warbler, Chimney Swift, Hooded Warbler, Least Bittern, Yellow-breasted Chat).

August 30, 2010
Ms. Heather Riddell, A/Planning Ecologist
Page 2 of 2

**Reference: Samsung Grand Renewable Energy Park
Response to MNR Comments on Data Request and Site Investigation Work Program**

The Ecological Land Classification, botanical inventory and significant wildlife habitat site investigations, planned for September 2010, will be sufficient to detect the presence of plant species at risk (American Chestnut, American Columbo, Broad Beech Fern, Butternut, Eastern Flowering Dogwood, Virginia Mallow) plus Monarch; the presence of potential turtle nesting habitat and basking areas (Blanding's Turtle, Northern Map Turtle, Snapping Turtle, Snuffbox, Spiny Softshell); the presence of potential snake hibernacula (Eastern Hog-nose Snake, Eastern Ribbonsnake, Gray Ratsnake, Milksnake), the presence of potential amphibian breeding ponds (Jefferson Salamander) or marshy shallows near sandy Lake Erie beaches (Fowler's Toad); and the presence of potential American Badger dens.

The planned aquatic habitat assessments and detailed watercourse work necessary for APRD will be sufficient to detect the presence of aquatic species at risk (Eastern Sand Darter, Kidneyshell, River Redhorse, Round Pigtoe).

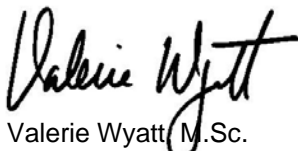
The only resident, breeding population of Gray Fox is located on Pelee Island. Wandering individuals are occasionally reported elsewhere in southern Ontario, often near access points to the United States, where the species is more common. No targeted surveys for Gray Fox are proposed.

We request MNR's confirmation of our proposed site investigation as it relates to species at risk.

We look forward to the opportunity to discuss these items with you at our next meeting, currently scheduled for September 3.

Sincerely,

STANTEC CONSULTING LTD.



Valerie Wyatt, M.Sc.
Senior Project Manager
Tel: (519) 836-6050
Fax: (519) 836-2493
valerie.wyatt@stantec.com

Attachment: Location of Bat Hibernacula

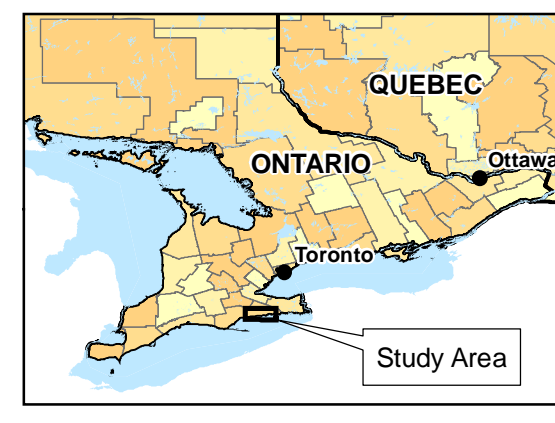
c. Ian Hagman, MNR Guelph District
Marnie Dawson, Samsung Renewable Energy
Rob Nadolny, Stantec Consulting Ltd.



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August 2010
160960577

Legend	
	Project Location
	Airport Runway Area Point
	Airport Runway Area Polyline
	Airport Runway Area
	Airport (OBM)
	Motorsports Park
	Spot Elevation Height (OBM)
	Building Point (OBM)
	Building Area (OBM)
	Potential Hibernacula
	Tower (OBM)
	Wireless Communication Point
	Road
	Railway
	Abandoned Railway
	Watercourse (OBM)
	Transmission Line (OBM)
	Transport Line (OBM)
	Conservation Authority Boundary (OBM)
	Provincial Park (OBM)
	Tank (OBM)
	Pit or Quarry (OBM)
	Regulated Lands
	Wireless Communication Corridor
	Provincially Significant Wetland
	Non-Provincially Significant Wetland
	Waterbody (OBM)
	Wooded Area
	Road - 59m Setback
	Provincially Significant Wetland - 120m Setback
	Waterbody - 30m Setback
	Woodlot - 120m Setback
	ANSI (Earth Science) - 50m Setback
	ANSI (Life Science) - 120m Setback
Area of Natural and Scientific Interest (ANSI)	
	Life Science, Provincially Significant
	Earth Science, Provincially Significant
	Earth Science, Regionally Significant



- Notes**
1. Coordinate System: UTM NAD 83 - Zone 17 (N).
 2. Data Sources: Ontario Ministry of Natural Resources © Queens Printer Ontario, 2009; © GREP, 2010; © Samsung, 2010; © Long Point Region Conservation Authority, 2010.

Client/Project
SAMSUNG C&T
GRAND RENEWABLE ENERGY PARK

Figure No.
CONFIDENTIAL

Title
PROJECT LOCATION MAP



AGENDA

Grand River Energy Project

Ministry of Energy and Infrastructure Office
77 Grenville Street, 9th Floor
Toronto, Ontario

September 3, 2010
3:00 to 4:00 P.M

- | Item | Topic |
|-------------|---|
| 1. | Introductions |
| 2. | Approval of Work Plan |
| 3. | REA Submission <ul style="list-style-type: none">i. 1 submission for both wind and solar project |
| 4. | Hydrogeological Study <ul style="list-style-type: none">i. Is there a requirement to complete a hydrog. Study for the GREP project? |
| 5. | Requirements for Petroleum Wells <ul style="list-style-type: none">i. What is required in the Engineer Report if we are located within 75 m of a wellii. Does this requirement included abandon/capped wells? |
| 6. | MNR Review of Natural Heritage Report <ul style="list-style-type: none">iii. How can we help to expedite the processiv. Meeting to provide an overview at the completion of the site investigationv. Meeting to provide an overview at the completion of the evaluation of significance |
| 7. | Expected updates to the NHA guidance document <ul style="list-style-type: none">- When are updates expected?- Will projects be grandfathered? |
| 8. | Key Contacts for Project |
| 9. | Establish Frequency for Project Update Meetings (weekly, bi-weekly) |
| 10. | Next Steps |

Friedl, Susanne

From: Nix, April (MNR) <April.Nix@ontario.ca>
Sent: Wednesday, September 08, 2010 11:05 AM
To: Wyatt, Valerie; m.dawson@samsungrenewableenergy.ca
Cc: Beriault, Karine (MNR); Riddell, Heather (MNR); Cotnam, Erin (MNR)
Subject: Samsung GREP Call to discuss SAR concerns

Valerie,

I've checked with staff and it looks like Thursday (Sept 9) morning from 11-12 would be the best time to arrange a call to discuss the outstanding Species-at-risk concerns regarding GREP.

Based on the discussions on Friday here is what I think we need to discuss,

1. Where areas of potential SAR habitat exist within the study area for GREP, what follow up SAR survey work is being completed (and when) to confirm if areas of "potential" are in fact SAR habitat? What are the MNRs expectations for this work and what is required?
2. What ESA permits may need to be applied for? And when? Including:
 - a. "B" permits in support of confirmation of the presence of aquatic SAR. Is the current proposed aquatic habitat/ fish work sufficient to do this?
 - b. Could any other "b" permits be needed for any other SAR confirmation work aside from aquatic SAR?
 - c. If it was determined through the confirmation work that "C" permits were required, when would these need to be applied for?
3. Also as I mentioned on the call last Friday updates to the species-at-risk list have been posted on the Environmental Registry, these amendments to the SAR list will be completed by September 29 2010. The posting number on the Registry is 011-1048. More specifically in the context of the GREP proposal, Bobolink is newly listed as Threatened and Four Leaved Milkweed is newly listed as Endangered, there are also status changes for several species on the list previously provided that should be reflected in any of the SAR related reports for the GREP proposal. Both of these newly listed species will also need to be added to the previous list provided, and the project will need to be assessed for these species as well.

This is just a rough outline, if there is anything I've overlooked or that you'd like to see included please let me know.

I've also reserved a teleconference line for the call, the number is 1-866-834-7689. Code 0920570#

Thanks,

April

April Nix
Planning Intern
Ministry of Natural Resources, Guelph District
1 Stone Road West
Guelph ON, N1G 4Y2
(P) 519-826-4939

(F) 519-826-6849
email: april.nix@ontario.ca

Meeting Notes



Stantec

Samsung - Species at Risk Information Meeting

Grand Renewable Energy Project / FILE 161010624 / 161010646

Date/Time: September 9, 2010 11:00 AM
Place: Conference Call
Attendees: April Nix, Ministry of Natural Resources
Heather Riddell, Ministry of Natural Resources
Karine Beriault, Ministry of Natural Resources
Valerie Wyatt, Stantec Consulting Ltd.
Andrew Taylor, Stantec Consulting Ltd.
Absentees: Marnie Dawson, Samsung Renewable Energy Inc.
Erin Cotnam, Ministry of Natural Resources
Distribution: Attendees and Absentees

Item:

Action:

Agenda

Agenda was based on April Nix email of September 9 (attached), as well as Stantec letters from July 23 and August 30

Species at Risk List

MNR agreed to provide specific locations of species at risk (SAR), where known, with acknowledgement that the information reflects limited field surveys and that SAR could occur elsewhere in the study area

A.Nix – to provide Guelph SAR records

H.Riddell – to provide Aylmer SAR records

SAR, NHA confirmation and REA submission

AN indicated that the APRD requirements are not needed for NHA confirmation, however, it is MNR's understanding that the complete REA submission to the MOE should contain any necessary Endangered Species Act (ESA) permit applications. These applications require the completion of any necessary seasonal field studies to determine the presence and boundaries of critical habitats etc.

AN indicated that the reason is because MNR has committed to reviewing the permit applications within the MOE's 6-month service guarantee. It was suggested that MOE should be contacted to confirm.

One Team. Infinite Solutions.

July 23 Site Investigation Work Program

The scientific collectors' permit for electrofishing will stipulate that watercourses with the potential for aquatic SAR should be avoided. HR is corresponding with Mark Pomeroy (Stantec) regarding the permit application.

M. Pomeroy to submit permit application for electrofishing

Following some discussion regarding aquatic species at risk, KB indicated that if there are historical records of a SAR and the habitat is still suitable, an ESA permit is required for electrofishing; however if there are historical records of a SAR but no suitable habitat remains, or if habitat is suitable but there is no reasonable expectation of finding a SAR and the purpose is general inventory, then no ESA permit is required for electrofishing. If a SAR is found where not expected, there are no repercussions under the ESA, but the occurrence must be reported to the MNR as soon as possible.

It was generally agreed that the proposed work program (Stantec, July 23) would be sufficient to identify potential habitat of SAR this fall. MNR directed Stantec to consider the habitat features discussed in the regulations (specifically for the American Badger but presumably any other species with relevant documentation). If potential habitat of SAR is identified through the site investigation, discussions will be initiated with MNR to determine the appropriate types and timing of more detailed studies, depending on the species involved.

SAR and the NHA Report

AN recommended that the NHA report contain a separate section or appendix that outlines the findings of the site investigation as they relate to SAR (to demonstrate due diligence; ie. level of survey effort, areas of potential habitat, if SAR presence has been confirmed) to allow MNR to determine if and what types of permits are required.

The meeting adjourned at 11:45 AM.

The foregoing is considered to be a true and accurate record of all items discussed. If any discrepancies or inconsistencies are noted, please contact the writer immediately.

STANTEC CONSULTING LTD.

Valerie Wyatt, M.Sc.
Senior Project Manager
valerie.wyatt@stantec.com

Stantec

September 9, 2010 11:00 AM
Samsung - Species at Risk Information Meeting
Page 3 of 3

- c. Rob Nadolny, Stantec Consulting Ltd.
Mark Kozak, Stantec Consulting Ltd.
Mark Pomeroy, Stantec Consulting Ltd.

Friedl, Susanne

From: Nix, April (MNR) <April.Nix@ontario.ca>
Sent: Friday, September 10, 2010 9:20 AM
To: Wyatt, Valerie; m.dawson@samsungrenewableenergy.ca
Cc: Beriault, Karine (MNR); Riddell, Heather (MNR)
Subject: Additional SAR info GREP - Guelph District
Attachments: DFO and some SAR_roads.jpg; DFO and some SAR_no roads.jpg

Valerie,

Attached are 2 diagrams showing the DFO mapping and SAR information for Bald Eagle, Badger, Gray Ratsnake, Fowler's Toad, Blanding's Turtle and Virginia Mallow – one with roads (for orientation), one without.

It should be understood that these diagrams only show known, accurate locations of the above-mentioned SAR, and not any other SAR species. It should also be noted that these species may occur elsewhere within the study area and could be found during investigations within 120m of the project location. Also please keep in mind that this information is also sensitive and as such should be treated appropriately. With respect to other SAR species from the list previously provided, an investigation for these species where there is potential habitat continues to be recommended.

Finally staff also wanted to add the following recommendations with respect to SAR investigations:

- Badger investigations should consider habitat that is described in the regulation.
- Potential hibernacula and old buildings and barns should be investigated for evidence or the presence of Gray Ratsnakes.
- Fowler's Toads are limited to the shoreline of Lake Erie – nocturnal surveys can be done from May to mid-September. The survey window has essentially closed for that species this year.
- Blanding's Turtle investigations should at the very least include surveys for potential hibernations sites, and basking surveys in appropriate habitat and weather.
- Virginia Mallow should be identified through vegetation surveys.

While MNR does not have any Queensnake records in the immediate vicinity of the project location, there are records northwest of the project location, associated with the Grand and its tributaries. If suitable habitat is found within 120m of the project location, investigations should include basking surveys and surveys for individuals at the water's edge (babies are born around this time of year and can be locally abundant before they go into hibernation).

The following is what we would expect with regards to SAR snake surveys (with the exception of Queensnake in this case): transect surveys in appropriate habitat and weather, coverboards, and hibernacula surveys and assessments. Please note that cover board surveys for SAR species would require an ESA type "B" permit.

Heather is also checking with Aylmer District for any additional information or recommendations they may be able to offer as well.

If there are any questions please let me know.

April

April Nix
Planning Intern
Ministry of Natural Resources, Guelph District
1 Stone Road West

Guelph ON, N1G 4Y2
(P) 519-826-4939
(F) 519-826-6849
email: april.nix@ontario.ca

Friedl, Susanne

From: Powell, Chris
Sent: Wednesday, September 29, 2010 11:36 AM
To: Erin (MNR) Sanders
Cc: Wyatt, Valerie; heather.riddell@ontario.ca
Subject: Samsung Grand Renewable Energy Park - LSW and PSW Wetland Records

Erin,

Further to my voice message, we are interested in obtaining copies of MNR wetland evaluation records for the following wetlands located within the study area for the proposed Samsung REA application, as outlined by Heather Riddell in her letter dated August 19, 2010:

1. Evans Creek (LET3) – Locally Significant Wetland (LSW)
2. Gates Creek Mouth (LET1) – PSW
3. SAC10 – LSW
4. SAC2 – PSW
5. SAC7 – LSW
6. SAC9 – LSW
7. STC1 – LSW
8. STC2 – LSW
9. STC4 – LSW
10. Wardell's Creek Mouth (LET2) - PSW

This information is required for incorporation into the Natural Heritage Assessment and EIS in support of the Renewable Energy Act submission anticipated in late October. Please advise when we can arrange to either pick up these documents or have them couriered, as well as any details regarding what additional information you require from us in order to do so. Digital copies (if available) would be preferred.

Thank you for your prompt attention to this request.

Sincerely,

Chris

Chris Powell, M.A.

Project Manager / Environmental Planner

Stantec Consulting Ltd.

49 Frederick Street

Kitchener ON N2H 6M7

Ph: (519) 585-7416

Fx: (519) 579-4239

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 Please consider the environment before printing this email.

Friedl, Susanne

From: Powell, Chris
Sent: Wednesday, September 29, 2010 1:23 PM
To: Yagi, Anne (MNR)
Cc: Wyatt, Valerie; heather.riddell@ontario.ca
Subject: Samsung Grand Renewable Energy Park - LSW and PSW Wetland Records

Anne,

As discussed on the phone, we are interested in obtaining copies of any MNR wetland evaluation records for the following wetlands located within the study area for the proposed Samsung REA application, as outlined by Heather Riddell in her letter dated August 19, 2010:

1. Franctenburg Tract – PSW
2. Dry Lake – PSW
3. Tanquanyah C.A. – LSW
4. Byng Creek – LSW

We understand that these records are old (previous OWES version) and that the MNR is currently updating these records for the Haldimand Area (pending completion in 2011). However, any information that you can provide at this time would be greatly appreciated. A similar request has been made for this information from the Aylmer District office for those wetlands within their jurisdiction.

With respect to woodlands and deer wintering areas mapped by LIO, we would appreciate any information that you have regarding the findings of your field investigations undertaken within the study area (i.e. excel field data records, deer counts, etc.) to complement the LIO mapping layer, as discussed.

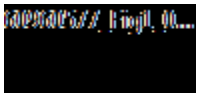
This information is required for incorporation into the Natural Heritage Assessment and EIS in support of the Renewable Energy Act submission for the Samsung Grand Renewable Energy Park anticipated in late October. Please advise when we can arrange to either pick up these documents or have them couriered, as well as any details regarding what additional information you require from us in order to do so. Digital copies (if available) would be preferred.

Thank you for your prompt attention to this request.

For your reference, attached is a copy of the study area for this project.

Sincerely,

Chris



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Cell: (519) 501-2368
chris.powell@stantec.com
stantec.com

Friedl, Susanne

From: Powell, Chris
Sent: Wednesday, September 29, 2010 1:45 PM
To: april.nix@ontario.ca
Cc: Wyatt, Valerie; 'heather.riddell@ontario.ca'
Subject: Samsung Grand Renewable Energy Park - ANSI Records

April,

Further to my voice message, we are interested in obtaining any additional information that you may have regarding the Oriskany Sandstone Life Science ANSI. A similar request was sent to Anne Yagi regarding the various PSW and LSW evaluation records within the study area, as well as any further information regarding deer wintering areas identified in LIO mapping.

This information is required for incorporation into the Natural Heritage Assessment and EIS in support of the Renewable Energy Act submission anticipated in late October. Please advise when we can arrange to either pick up these documents or have them couriered, as well as any details regarding what additional information you require from us in order to do so. Digital copies (if available) would be preferred.

Thank you for your prompt attention to this request.

Sincerely,

Chris

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Friedl, Susanne

From: Powell, Chris
Sent: Wednesday, September 29, 2010 11:36 AM
To: Erin (MNR) Sanders
Cc: Wyatt, Valerie; heather.riddell@ontario.ca
Subject: Samsung Grand Renewable Energy Park - LSW and PSW Wetland Records

Erin,

Further to my voice message, we are interested in obtaining copies of MNR wetland evaluation records for the following wetlands located within the study area for the proposed Samsung REA application, as outlined by Heather Riddell in her letter dated August 19, 2010:

1. Evans Creek (LET3) – Locally Significant Wetland (LSW)
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5. SAC7 – LSW
6. SAC9 – LSW
7. STC1 – LSW
8. STC2 – LSW
9. STC4 – LSW
10. Wardell's Creek Mouth (LET2) - PSW

This information is required for incorporation into the Natural Heritage Assessment and EIS in support of the Renewable Energy Act submission anticipated in late October. Please advise when we can arrange to either pick up these documents or have them couriered, as well as any details regarding what additional information you require from us in order to do so. Digital copies (if available) would be preferred.

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Friedl, Susanne

From: Powell, Chris
Sent: Wednesday, September 29, 2010 1:23 PM
To: Yagi, Anne (MNR)
Cc: Wyatt, Valerie; heather.riddell@ontario.ca
Subject: Samsung Grand Renewable Energy Park - LSW and PSW Wetland Records

Anne,

As discussed on the phone, we are interested in obtaining copies of any MNR wetland evaluation records for the following wetlands located within the study area for the proposed Samsung REA application, as outlined by Heather Riddell in her letter dated August 19, 2010:

1. Franctenburg Tract – PSW
2. Dry Lake – PSW
3. Tanquanyah C.A. – LSW
4. Byng Creek – LSW

We understand that these records are old (previous OWES version) and that the MNR is currently updating these records for the Haldimand Area (pending completion in 2011). However, any information that you can provide at this time would be greatly appreciated. A similar request has been made for this information from the Aylmer District office for those wetlands within their jurisdiction.

With respect to woodlands and deer wintering areas mapped by LIO, we would appreciate any information that you have regarding the findings of your field investigations undertaken within the study area (i.e. excel field data records, deer counts, etc.) to complement the LIO mapping layer, as discussed.

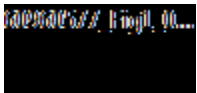
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Thank you for your prompt attention to this request.

For your reference, attached is a copy of the study area for this project.

Sincerely,

Chris



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Ontario

Ministry of Natural Resources

Ministère des Richesses naturelles

Licence to Collect Fish for Scientific Purposes

Permis pour faire la collecte de poissons à des fins scientifiques

Licence No. N° de permis	1059507
Local Reference No. N° de référence local	7200
Issuer Account No. N° de compte du délivreur de permis	10001664

This licence is issued under Part I of the Fish Licensing Regulation made under the Fish and Wildlife Conservation Act, 1997 to:

Ce permis est délivré en vertu de la Partie I du règlement sur la délivrance de permis de pêche formulé conformément à la Loi sur la protection du poisson et de la faune de 1997 à:

<i>Name of Licencee</i> Nom du titulaire du permis	Last Name / Nom de famille Mr. Pomeroy	First Name / Prénom Mark	Middle Name / Second Prénom
Name of Business/Organization/Affiliation (if applicable) / Nom de l'entreprise/de l'organisme/de l'affiliation (le cas échéant) Stantec Consulting Ltd.			

<i>Mailing address of Licencee</i> <i>Adresse postale du titulaire du permis</i>	Street Name & No./PO Box/RR#/Gen. Del./ N° rue/C.P./R.R./poste restante 70 Southgate Drive Suite 1		
	City/Town/Municipality / Ville/village/municipalité Guelph	Province/State Province/État ON	Postal Code/Zip Code Code Postal/Zip N1G 4P5

to collect the species, size and quantites of fish from the waters as set out below.
Pour faire la collecte des espèces suivantes (stade et nombre indiqués ci-dessous):

Species Espèces	Eggs Oeuf	Juvenile Fretin	Adults Adulte	Numbers Nombre	Name of Waterbody Nom de l'étendue d'eau
All Species	X	X	X		Waterbodies as indicated in Schedule B

Yes/Oui Additional species/Waterbody list attached / Liste d'espèces/d'étendue d'eau additionnelles ci-jointe

Purpose of collection
But de la collecte Background data collection for Samsung Grand Energy Park project

<i>Licence Dates</i> <i>Dates du permis</i>	Effective Date / Date d'entrée en vigueur (YYYY-MM-DD) 2010-09-28	Expiry Date / Date d'expiration (YYYY-MM-DD) 2010-12-31
--	---	---

Licence conditions This licence is subject to the conditions contained in Schedule A if included. / Ce permis doit respecter les conditions de l'annexe A si celle-ci est jointe.

Conditions du permis Yes/Oui No/Non Schedule A included. / Annexe A ci-jointe

Issued by (please print) Délivré par (veuillez écrire en caractères d'imprimerie) Al Murray, Guelph Area Supervisor	Signature of issuer / Signature du délivreur 	Date of Issue/Date de délivrance (YYYY-MM-DD) 2010-09-28
---	--	--

Signature of Licencee / Signature du titulaire du permis 	Date (YYYY-MM-DD) 2010-09-28
--	------------------------------------

Personal information contained on this form is collected under the authority of the Fish and Wildlife Conservation Act, 1997 and will be used for the purpose of licensing, identification, enforcement, resource management and customer service surveys. Please direct further inquiries to the District Manager of the MNR issuing district.

Les renseignements personnels dans ce formulaire sont recueillis conformément à la Loi sur la protection du poisson et de la faune, 1997, et ils seront utilisés aux fins de délivrance de permis, d'identification, d'application des règlements, de gestion des ressources et de sondage sur les services à la clientèle. Veuillez communiquer avec le chef du district du MRN qui délivre le permis si vous avez des questions.

Licence to Collect Fish for Scientific Purposes
Permis pour faire la collecte de poissons à des fins scientifiques
Schedule A - Licence Conditions
Annexe A - Conditions du permis

Licence No.
No de permis 1059507

This licence is subject to the conditions listed below.

1. This Licence is valid only for the persons, species, numbers, areas and calendar year indicated. A written report covering the operation of the preceding year must be submitted to the licence issuer within 30 days of the termination date, but in no case later than January 31 next following the year of issue. The report shall contain a statement outlining the objectives of the operations, the methods used, the number and species of fish caught and their fate as well as a map indicating where the collections took place. An analysis is not required. The submission of a satisfactory report is a prerequisite to any subsequent renewals.
2. Before carrying out any operation under the licence in any area the licenced person shall inform the Area Supervisor or Lake Manager of his or her intentions at least a week before commencing work and include information as to the type of operation, location, duration, and the name or names of personnel involved.
3. A copy of the original licence must be carried by the licenced person when working at the designated sites. An assistant of the licenced person who is carrying out activities under this licence during the absence of the licenced person shall carry a copy of the licence on his or her person.
4. All collection gear shall be clearly marked with the licenced person's and the organization's name.
5. This licence is not valid in Provincial Parks, conservation reserves, or National Parks without the written permission from the authorized person in charge of the area concerned.
6. Capture gear shall be inspected regularly and live holding traps must be inspected at least once daily.
7. This licence does not allow access to any property without permission of the landowner.

Additional conditions (English only):

8. The following may assist under the authority of this licence: Marc Faiella, Joe Keene, Ryan Park, Roxanne Dibbley, Kathleen Todd, Jessica Sosa-Campos and Nancy Harttrup.
9. Gear is restricted to: Smith Root backpack electrofisher, dip nets, seine net, and minnow traps
10. The Licensee, assistants and any personnel involved in the collection, handling, transportation and holding of fish must adhere to the Fisheries Section Technical Bulletin – Best Management Practices – FS Bulletin 2008-01.

Ce permis doit se conformer aux conditions ci-dessous.

1. Ce permis n'est valide que pour les personnes, espèces, nombres, zones et année civile indiqués. Un rapport écrit portant sur les activités de l'année précédente doit être soumis au délivreur du permis dans les 30 jours suivant la date d'expiration et jamais plus tard que le 31 janvier qui suit la date de délivrance. Le rapport devra comprendre une déclaration décrivant les objectifs des activités, les méthodes utilisées, le nombre et les espèces de poissons capturés et leur destination finale ainsi qu'une carte montrant l'emplacement des collectes. Une analyse n'est pas requise. La présentation d'un rapport satisfaisant est une condition préalable pour obtenir un renouvellement de permis.
2. Avant de réaliser toute activité visée par le permis dans toute zone, le titulaire du permis doit aviser le superviseur de la zone ou le gestionnaire du lac de ses intentions au moins une semaine avant de commencer ses activités et il doit fournir des renseignements sur le type d'activité, l'emplacement, la durée et le nom de toutes les personnes impliquées.
3. Le titulaire du permis doit avoir en sa possession un exemplaire du permis original lorsqu'il travaille dans les endroits désignés. Si un adjoint du titulaire du permis réalise des activités visées par le permis en l'absence du titulaire du permis, il devra avoir un exemplaire du permis en sa possession.
4. Tout le matériel de collecte doit indiquer bien clairement le nom du titulaire du permis et de son organisme.
5. Ce permis n'est pas valide dans les parcs provinciaux, les réserves de parcs et les parcs nationaux sans la permission écrite de la personne autorisée qui est responsable de la zone en question.
6. Tout le matériel de collecte doit être inspecté régulièrement et les viviers doivent être inspectés au moins une fois par jour.
7. Ce permis ne permet pas au titulaire d'avoir accès à une propriété privée sans la permission du propriétaire foncier.

11. Should the licensee capture any fish species-at-risk (SAR), the key identification characters for the species shall be photographed (if possible) and reported to the Area Biologist or Species at Risk Biologist responsible for the area in which the collection was made. Any incidentally caught individual of a species at risk shall be immediately released unharmed to the waters from which it was caught.
12. Unless authorized under the Endangered Species Act (ESA), no person shall fish for any threatened or endangered fish species.

Prepared by Ben Hindmarsh, Sr. Fish and Wildlife Technical Specialist 519-773-4711

Signature of Licensee / Signature du titulaire du permis

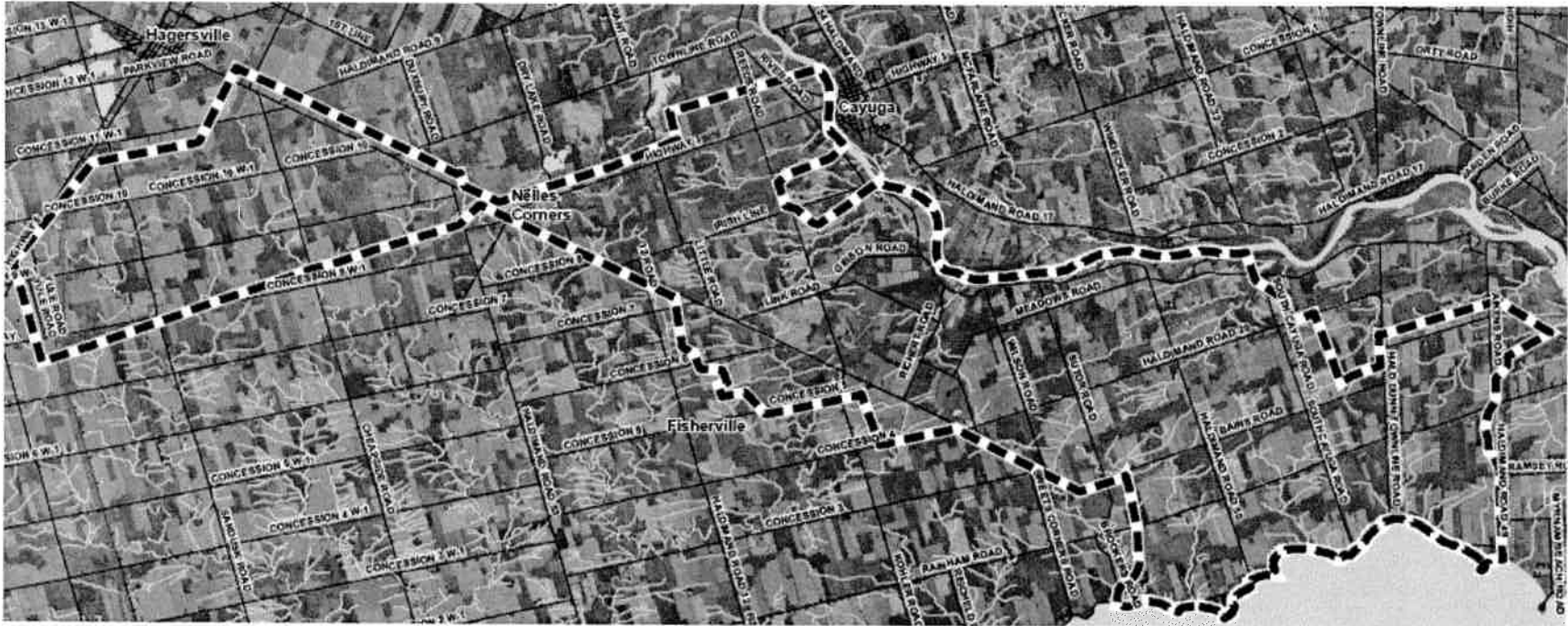
Date


Mark Pomeroy



Licence to Collect Fish for Scientific Purposes
Schedule B - Licensed Area

Licence No. 1059507



Signature of Licencee / Signature du titulaire du permis

Date

Mark Pomeroy
Mark Pomeroy

09/28/2010

Friedl, Susanne

From: Nix, April (MNR) <April.Nix@ontario.ca>
Sent: Thursday, January 13, 2011 2:25 PM
To: Wyatt, Valerie
Cc: Hagman, Ian (MNR); Marnie Dawson; Adam Rosso; Powell, Chris; Riddell, Heather (MNR); Drabick, Ron (MNR); Thornton, Ian (MNR); Harkins, Erin (MNR)
Subject: RE: Samsung GREP - woodlands question
Attachments: Woodlands EOS criteria.doc

Valerie,

With respect to your question about how to address the tree farm (Tile 8 – CUP3-12), the Ministry would recommend the following:

Based on the woodland definition in the REA regulation (both the pre-Jan 1, 2011 version and the amended version), the tree farm would be considered a woodland which would require site investigation and evaluation on significance if it is within 120 meters of the project location.

There are currently two definitions of woodlands, as the definition was changed in the recent amendment to the REA regulation. Under the transition provision in section 63 of the amended regulation, an applicant that has distributed their first public notice before January 1, 2011 is subject to the woodland definition in the pre-2011 regulation however, they may elect to have the new definition of woodland apply to their project and would need to make this decision clear in their NHA documentation.

The pre-2011 woodland definition is:

“woodland” means land,

- (a) that is south and east of the Canadian Shield as shown in Figure 1 in the Provincial Policy Statement issued under section 3 of the *Planning Act* and approved by the Lieutenant Governor in Council by Order in Council No. 140/2005,
- (b) that has, per hectare, at least,
 - (i) 1,000 trees of any size,
 - (ii) 750 trees measuring over five centimetres in diameter, measured in accordance with subsection (7),
 - (iii) 500 trees measuring over 12 centimetres in diameter, measured in accordance with subsection (7),
or
 - (iv) 250 trees measuring over 20 centimetres in diameter, measured in accordance with subsection (7),
and
- (c) that does not include a cultivated fruit or nut orchard or a plantation established for the purpose of producing Christmas trees;

Following this definition, an applicant would be required to determine if the site qualifies as woodland using the above criteria, which requires stem counts and DBA measurements. Given the tree farm is probably not densely planted and the trees are likely relatively uniform in size, stem count/size estimates may be fairly simple and could rule this out as woodland.

If an evaluation of significance would be required, I have attached a document that provides evaluation of significance criteria from the NHAG with some new criteria added (that is from the ORMCP Technical Paper Series) and you could apply these now and they would be acceptable.

The new criteria are intended as a quick first-screening for woodlands that explicitly rule out certain sites as significant, including plantations managed for nursery stock, and then uses minimum standards for crown cover and width and stem counts to rule out woodlands that will not be considered significant. If the woodland exceeds these criteria, the full evaluation of significance must be complete. As this approach is still in development, I would appreciate if you did not distribute this material for the time being.

The Jan 1, 2011 woodland definition is:

“woodland” means a treed area, woodlot or forested area, other than a cultivated fruit or nut orchard or a plantation established for the purpose of producing Christmas trees, that is located south and east of the Canadian Shield as shown in Figure 1 in the Provincial Policy Statement issued under section 3 of the *Planning Act* and approved by the Lieutenant Governor in Council by Order in Council No. 140/2005;

Under the new definition, the site would be considered woodland, with no estimates or related work required. However the project would be required to undertake a site investigation and then apply the evaluation of significance screening criteria outlined in the attachment which would then determine whether the woodland is significant or not.

If you want to discuss, please let me know.

April

April Nix
Renewable Energy Planning Ecologist
Ministry of Natural Resources, Guelph District
1 Stone Road West
Guelph ON, N1G 4Y2
(P) 519-826-4939
(F) 519-826-6849
email: april.nix@ontario.ca

From: Wyatt, Valerie [mailto:valerie.wyatt@stantec.com]
Sent: December 23, 2010 3:21 PM
To: Nix, April (MNR); Riddell, Heather (MNR)
Cc: Hagman, Ian (MNR); Marnie Dawson; Adam Rosso; Powell, Chris
Subject: Samsung GREP - proposed approach to Wetland Rapid Assessment Protocol

Hello April and Heather,

1. Our wetland evaluators have put their heads together to develop the attached proposed approach to wetland rapid assessment under REA. The document outlines the approach as well as one example application, with the objective of identifying information necessary for the EIS for project components within 120 m of project infrastructure. Could you please circulate this to the necessary MNR experts for their comment and endorsement, so that we can proceed with the other wetlands in the Samsung GREP study area, as soon as possible?
2. We had a question related to significant woodlands as well: there is a tree farm within 120 m of some project infrastructure (Tile 8 – CUP3-12). It is our understanding that the young trees (both coniferous and deciduous) are spaded out for transplantation elsewhere. Should we be considering this as part of the woodland to be evaluated as significant?

Thank you. I look forward to speaking with you in the new year.
Val

Valerie Wyatt, M.Sc.
Senior Project Manager
Stantec
Suite 1 - 70 Southgate Drive
Guelph ON N1G 4P5

Friedl, Susanne

From: Nix, April (MNR) <April.Nix@ontario.ca>
Sent: Thursday, January 13, 2011 2:25 PM
To: Wyatt, Valerie
Cc: Hagman, Ian (MNR); Marnie Dawson; Adam Rosso; Powell, Chris; Riddell, Heather (MNR); Drabick, Ron (MNR); Thornton, Ian (MNR); Harkins, Erin (MNR)
Subject: RE: Samsung GREP - woodlands question
Attachments: Woodlands EOS criteria.doc

Valerie,

With respect to your question about how to address the tree farm (Tile 8 – CUP3-12), the Ministry would recommend the following:

Based on the woodland definition in the REA regulation (both the pre-Jan 1, 2011 version and the amended version), the tree farm would be considered a woodland which would require site investigation and evaluation on significance if it is within 120 meters of the project location.

There are currently two definitions of woodlands, as the definition was changed in the recent amendment to the REA regulation. Under the transition provision in section 63 of the amended regulation, an applicant that has distributed their first public notice before January 1, 2011 is subject to the woodland definition in the pre-2011 regulation however, they may elect to have the new definition of woodland apply to their project and would need to make this decision clear in their NHA documentation.

The pre-2011 woodland definition is:

“woodland” means land,

- (a) that is south and east of the Canadian Shield as shown in Figure 1 in the Provincial Policy Statement issued under section 3 of the *Planning Act* and approved by the Lieutenant Governor in Council by Order in Council No. 140/2005,
- (b) that has, per hectare, at least,
 - (i) 1,000 trees of any size,
 - (ii) 750 trees measuring over five centimetres in diameter, measured in accordance with subsection (7),
 - (iii) 500 trees measuring over 12 centimetres in diameter, measured in accordance with subsection (7),
or
 - (iv) 250 trees measuring over 20 centimetres in diameter, measured in accordance with subsection (7),
and
- (c) that does not include a cultivated fruit or nut orchard or a plantation established for the purpose of producing Christmas trees;

Following this definition, an applicant would be required to determine if the site qualifies as woodland using the above criteria, which requires stem counts and DBA measurements. Given the tree farm is probably not densely planted and the trees are likely relatively uniform in size, stem count/size estimates may be fairly simple and could rule this out as woodland.

If an evaluation of significance would be required, I have attached a document that provides evaluation of significance criteria from the NHAG with some new criteria added (that is from the ORMCP Technical Paper Series) and you could apply these now and they would be acceptable.

The new criteria are intended as a quick first-screening for woodlands that explicitly rule out certain sites as significant, including plantations managed for nursery stock, and then uses minimum standards for crown cover and width and stem counts to rule out woodlands that will not be considered significant. If the woodland exceeds these criteria, the full evaluation of significance must be complete. As this approach is still in development, I would appreciate if you did not distribute this material for the time being.

The Jan 1, 2011 woodland definition is:

“woodland” means a treed area, woodlot or forested area, other than a cultivated fruit or nut orchard or a plantation established for the purpose of producing Christmas trees, that is located south and east of the Canadian Shield as shown in Figure 1 in the Provincial Policy Statement issued under section 3 of the *Planning Act* and approved by the Lieutenant Governor in Council by Order in Council No. 140/2005;

Under the new definition, the site would be considered woodland, with no estimates or related work required. However the project would be required to undertake a site investigation and then apply the evaluation of significance screening criteria outlined in the attachment which would then determine whether the woodland is significant or not.

If you want to discuss, please let me know.

April

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To: Nix, April (MNR); Riddell, Heather (MNR)
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1. Our wetland evaluators have put their heads together to develop the attached proposed approach to wetland rapid assessment under REA. The document outlines the approach as well as one example application, with the objective of identifying information necessary for the EIS for project components within 120 m of project infrastructure. Could you please circulate this to the necessary MNR experts for their comment and endorsement, so that we can proceed with the other wetlands in the Samsung GREP study area, as soon as possible?
2. We had a question related to significant woodlands as well: there is a tree farm within 120 m of some project infrastructure (Tile 8 – CUP3-12). It is our understanding that the young trees (both coniferous and deciduous) are spaded out for transplantation elsewhere. Should we be considering this as part of the woodland to be evaluated as significant?

Thank you. I look forward to speaking with you in the new year.
Val

Valerie Wyatt, M.Sc.
Senior Project Manager
Stantec
Suite 1 - 70 Southgate Drive
Guelph ON N1G 4P5

Stantec

February 1, 2011

April Nix, Renewable Energy Planning Ecologist

Page 2 of 2

**Reference: SPK Grand Renewable Energy Park
Natural Heritage Assessment/Environmental Impact Study**

3. Confirmation that the MNR agrees that the Project is not in a provincial park or conservation reserve.

We would also like to extend an invitation to the MNR for a meeting if it is determined that a meeting could better assist the MNR in its review of the attached information. Please feel free to contact me via the information below if you have any questions or concerns regarding this information.

On behalf of Samsung, Pattern and KEPCO, thank you for your continued attention to this matter.

STANTEC CONSULTING LTD.

Valerie Wyatt, M.Sc.
Senior Project Manager
Tel: (519) 836-6050
Fax: (519) 836-2493
valerie.wyatt@stantec.com

- c. Heather Riddell, Planning Ecologist, MNR Aylmer (1 NHA/EIS, 1 EEMP)
Adam Rosso, Samsung Renewable Energy Inc.
Marnie Dawson, Samsung Renewable Energy Inc.

March 1, 2011

Adam Rosso
Samsung Renewable Energy Inc.
55 Standish Court, 9th Floor
Mississauga ON, L5R 4B2

Dear Mr. Rosso,

**Re: Grand Renewable Energy Park
Natural Heritage Assessment, Environmental Impact Study and
Environmental Effects Monitoring Plan**

Thank you for your recent circulation of the above-noted Natural Heritage Assessment (NHA) in support of a Renewable Energy Approval application, subject to the requirements of the Ministry of Environment's (MOE) *Renewable Energy Approvals Regulation 359/09* under the *Environmental Protection Act*. Staff have reviewed the submitted assessment in accordance with the regulatory requirements and offer the following comments for your consideration.

It is understood that the above noted study is in support of a proposed Class 4 Wind Facility and a Class 3 Solar Facility located within the County of Haldimand. The project is generally located southeast of the Town of Hagersville, south of the Town of Cayuga and west of the Grand River.

While the submitted NHA and EIS follows the general structure of Sections 24-28 and 38 of the REA Regulation, there remain a number of requirements from the REA Regulation that have not been addressed or need to be clarified.

The Ministry is required to provide confirmation under the REA Regulation with respect to a natural heritage assessment for the following:

- the determination of the existence of natural features and the boundaries of natural features was made using applicable evaluation criteria or procedures established by the MNR;
- the site investigation and records review were conducted using applicable evaluation criteria or procedures established or accepted by the MNR, if natural features are identified;
- the evaluation of significance or provincial significance of natural features was conducted using applicable evaluation criteria or procedures established or accepted by the MNR;
- the project location is not in a provincial park or conservation reserve; and
- the environmental impact assessment report(s) has/have been prepared in accordance with the procedures established or accepted by the MNR and in accordance with the requirements Section 38 of the REA Regulation.

Visit us at our website <http://www.gov.on.ca>
Call any MNR Office in Ontario for information at -
1-800-667-1940 (English) ... or ... 1-800-667-1840 (French)
8:30 am to 5 pm - Monday to Friday

In order for us to serve you better, please call ahead to make an appointment with our staff.
The local Ministry office is open by appointment only.

The Ministry is unable to provide this confirmation at this time as the submitted document lacks information and cannot be deemed complete when reviewed and checked against the requirements in the REA Regulation. The attached table discusses specific deficiencies in the NHA, Environmental Impact Study and Environmental Effects Monitoring Plan reports. As such, a revised Natural Heritage Assessment Report, Environmental Impact Study and Environmental Effects Monitoring Plan for the Grand Renewable Energy Park proposal will need to be submitted to the Ministry that addresses these concerns.

Approval and Permitting Requirements Document (APRD)

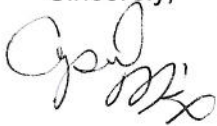
Requirements outlined within the Ministry's Approval and Permitting Requirements Document (APRD) are intended to be addressed and completed as part of a complete submission to the Province for a renewable energy facility. The document outlines the requirements for the application, review and decisions regarding the approval of a renewable energy facility where MNR has a legislative responsibility. As the APRD requirements are separate from the NHA requirements under the REA regulation Ministry staff recommend compiling APRD information into a separate report.

Ministry staff understand that Samsung and Stantec are in the process of preparing reports to address APRD requirements including: a petroleum resources engineer's report; and, a reporting addressing potential for species-at-risk. It is recommended that these reports be provided to the Ministry as soon as they are available.

Ministry staff also note that Stantec has not yet submitted the Mandatory Report required as a condition for the License to Collect Fish for Scientific Purposes that was issued on September 29, 2010 for this project. This information should be provided to the Ministry as soon as possible.

I trust this information will be of assistance. If you wish to discuss these comments prior to our meeting on March 7, 2011, or have any questions you can contact me at april.nix@ontario.ca or at (519)826-4939.

Sincerely,



April Nix

Renewable Energy Planning Ecologist
Ministry of Natural Resources, Guelph District
1 Stone Road West
Guelph, ON, N1G 4Y2
(519) 826-4939

Cc: Valerie Wyatt, Stantec
Catherine Jong, MNR
Rebecca Dixon, MNR
Narren Santos, MOE

Project Name: Grand Renewable Energy Park (GREP)
Proponent: Samsung Renewable Energy Inc.
Consultant: Stantec
Date Received: Feb 1, 2011

***** Please make the following revisions to the sections and figures identified with the NHA, Environmental Impact Study and Environmental Effects Monitoring Plan. Comments of a general nature, are included after the table.**

Overview - Summary of Comments/ Concerns:

- Additional detail is required pertaining to the rationale/ criteria and analysis used to support the identification of candidate wildlife habitats within the records review and site investigation reports.
- Landbird migratory stopover areas have not been identified or evaluated for the project, and this must be addressed to meet the requirements of Section 26-28 and 38 of O. Reg 359/09.
- Clarification regarding the inclusion of rare (S1-S3 ranked) species and Special Concern species is needed through the NHA.
- Additional information regarding James N. Allen Provincial Park is necessary to address the requirements of Sections 25 and 38 of O.Reg 359/09.
- Information submitted as part of a physical site investigation must include all of the required information from Section 26(3) of O.Reg 359/09.
- Alternative site investigations appear to have been completed for parts of the project location; the required information for an alternative site investigation needs to be provided as per Section 26(3) of O.Reg 359/09.
- Limited ELC vegetation (fall surveys), rather than 3 season identification period to account for plants species associated with the spring and summer growing periods were completed. As such, some candidate wildlife habitats may have been overlooked, particularly since parts of the project location are proposed within natural features.
- Staff have concerns regarding the identification, delineation and evaluation of wetland features within 120m of the project location; the use of ELC information to identify these areas; whether boundaries have been mapped according to OWES; and the application of the Wetland Characteristics Assessment for REA projects to evaluate these features.
- Additional detail regarding proposed mitigation measures to prevent negative impacts to natural features where the project location is within and/or adjacent to features is needed.

Section	Page #	Wording/ Topic	Comments	How/ Where Concern was Addressed
Section 3.0 Records Review				
3.0	3.1	Constructible area	Ministry staff recommend including a discussion regarding the constructible area concept at the outset of the NHA. This discussion should clarify how this area is established, confirm that the 120m setback from the edge of the project location is from the edge of the constructible area, and describe each of the types of activities that would occur within this area and whether they are temporary or permanent in nature.	

Section	Page #	Wording/ Topic	Comments	How/ Where Concern was Addressed
3.2.6 – Wildlife Habitat & throughout NHA	3.10	A compilation of background information on known wildlife use of the Study Area was undertaken. Using this information, a preliminary assessment was conducted to identify wildlife habitat features that may be present in or within 120 m of the Project Location to determine whether the area contains confirmed significant wildlife habitat (SWH) or involves a trigger for candidate SWH.	<p>Many of the descriptions of wildlife habitats currently within the records review do not incorporate criteria identified within the Significant Wildlife Habitat Technical Guide (SWHTG) adequately, please provide additional detail and analysis for:</p> <ul style="list-style-type: none"> • Landbird Migratory Stopover Habitat • Butterfly Stopover Habitat • Habitat for Provincially Rare (S1-S3) species and SC species. • Raptor Nesting Habitat (woodland nesting hawks) separate from Area Sensitive song-birds) • Waterfowl Nesting Habitat <p>These criteria and descriptions should also be utilized to identify potential wildlife habitats that need to be carried forward to Site Investigation.</p>	
	3.10	Waterfowl Stopover and Staging Areas, Raptor Winter Feeding and Roosting Areas	<p>Waterfowl stopover and staging and raptor winter feeding and roosting habitats should be discussed separately in the report.</p> <p>The locations of wintering raptors on maps from 1996 should be included as records of habitat, these site specific locations identified within the study area and in relation to the project location need to be assessed on a site specific basis for this habitat as Candidate SWH.</p>	
	3.13	Landbird Migratory Stopover Areas	The presence of larger/ extensive forested areas within 5km of Lake Erie can be considered as part of the landscape attributes to support land bird migratory areas. Information regarding these areas should be presented within the records review. Areas should also be identified as candidate significant wildlife habitat within the site investigation report of the NHA and evaluated for significance where the project location is within 120m.	
	3.14	Migratory Butterfly Stopover Areas	Butterfly stopover habitat, potential habitat exists within this study area as per criteria within the SWHTG which should be identified within the records review. This would include Field/Woodland sites >20ha within 5km of lake Erie. Although no records were found for this habitat it still has the potential to exist within the study area.	
	3.15	Animal Movement Corridors	These features should be considered in relation to identified natural features and wildlife habitats. If deer wintering areas and amphibian breeding habitat are identified for the area then movement corridors for these species should be identified within the NHA and evaluated for significance where required.	
	3.17	Rare Vegetation Communities	<p>There is at least one plant community identified within the NHIC Bio-diversity Explorer (Graminoid Coastal Meadow Marsh Type) that should be included within the records review. In addition Appendix M of the SWHTG should be referenced as a record for potential rare plant communities for Ecoregion 7E and Haldimand County.</p> <p>Please also include a discussion regarding how Old Growth forests as well as seeps and springs were considered/ identified within this section.</p>	

Section	Page #	Wording/ Topic	Comments	How/ Where Concern was Addressed
	3.17	Area Sensitive Species	This analysis should be broken into two main habitats: Area Sensitive Woodland habitat and Open Country Breeding Bird Habitat. Appendix G should be used in conjunction with Appendix C of the SWHTG for outlining species identified as area sensitive. Appendix Q of the SWHTG, page 350 SWHTG should be used for criteria to delineate these habitats and a description and analysis should be included for each feature within the NHA.	
	3.17	Specialized Raptor Nesting Habitat	Criteria from Appendix Q page 350 and Table 10-1-3 page 104 of the SWHTG should be used to describe and analyse the study area for this habitat.	
	3.18	Species of Conservation Concern	Please include additional detail with respect to Provincially Rare species (S1-S3). The NHIC Biodiversity Explorer may assist in identifying some of these species. Each Provincially Rare / Special Concern species should be described and analysed with linkages made to habitat to support the identification of natural features.	
3.2.8,	3.20	James N. Allen Provincial Park	Identifying that part(s) of the project location are within 120m of the park boundary should be included within this section. Where projects are within 120m of a provincial park, Ontario parks staff should be contacted directly to obtain additional information pertaining to the values/purpose of the park as a protected area. This information should be identified and discussed within the records review and is necessary to address the requirements within the EIS as per Section 38 of O. Reg 359/09.	
Section 4.0 Site Investigation				
4.0 – Methods	Entire section	Identification and mapping of natural features	Each natural feature (woodland, wetland, wildlife habitat, etc.) should have its own unique identifier and be addressed separately throughout the site investigation and evaluation of significance. As currently presented and mapped, multiple natural features are captured within a single “feature #” within the NHA. In addition, the extent of the mapping of natural features is generally limited to the area within 120m of the project location, and should include the entire feature. Please clarify.	
4.1.1	4.2	Alternative Site Investigation Ministry staff have noted that within the Site Investigation report on page 4.2 of NHA within Section 4.1.1 it states: <i>“Vegetation communities were first identified through aerial photograph interpretation, and review of existing natural features mapping. The Zone of Investigation surrounding the wind infrastructure (turbine locations, access roads and crane pads, excluding collector lines), solar components and some of the transmission line components Zone of Investigation was traversed on foot and physically inventoried. Physical site investigations were carried out from roadside locations for the wind project collector lines, the remaining portions of the transmission line components and their associated 120 m Zone of Investigation due to the very large number of non-participating landowners, and with the understanding that all work for these project components would be</i>	Note: comments regarding this concern were provided to Stantec/Samsung in an e-mail dated: Feb 15, 2011 Based on this information it would appear that in some areas an alternative site investigation was completed for selected areas of the wind and transmission line project location. The amended O. Reg 359/09 allows for the completion of an alternative investigation of the site only where it is determined that it is not reasonable to conduct a site investigation by visiting the site. Where an alternative investigation of the site was conducted, Section 26(3)7 of O. Reg 359/09 requires the following to be included in the site investigation report: <ul style="list-style-type: none"> • The dates of the generation of the data used in the site investigation. • An explanation of why the person who conducted the alternative investigation determined that it was not reasonable to conduct the site investigation by visiting the site. 	

Section	Page #	Wording/ Topic	Comments	How/ Where Concern was Addressed
		<i>restricted to the already-disturbed, existing road rights-of-way”.</i>	<p>As such, the site investigation report should be revised to address these requirements. Ministry staff recommend considering the following changes to address the requirements:</p> <p>Section 4.1. – Methods</p> <ul style="list-style-type: none"> • Identify the type of data used to complete aerial photograph interpretation, and review of natural features mapping and the date that any data used was generated • Identify who was responsible for completing this analysis • Where this analysis was complemented with field checks via roadside /fence line surveys, please explain the methods used for the road side /fence line survey(s). • Identify methods of how landowners were approached/ contacted to obtain access to private property. <p>Section 4.2. – Results</p> <ul style="list-style-type: none"> • Identify the areas subject to the alternative site investigation methods. This may be best shown on a map and referenced within the report. • To support the determination that it was not reasonable to conduct the site investigation by visiting the site (due to non-participating landowners), please provide: <ul style="list-style-type: none"> ○ List of landowners contacted and contact information ○ Number of attempts, time/date of contact ○ Copies of written correspondence and replies (if available) ○ Results of requests for access to site (landowner responses) ○ Identify the results of the investigation, such as the identified natural features, ELC communities, etc. (Note: It is understood that much of this information may already be within the site investigation report). 	
4.1.4 – Bird Surveys	4.4	Bird studies conducted by Hatch across four seasons between March 2009 and February 2010	Based on the information provided for the various Hatch surveys, these studies do not include all of the required information for a site investigation as required within Section 27(3) of O. Reg 359/09.	
4.1.5 Bat Surveys	4.6	Acoustic bat monitoring conducted by Hatch in August and September, 2009.	Recognizing that these studies were completed previously by other consultants in support of the renewable energy proposal, Ministry staff recommend including these studies as records within the records review. Also please identify where they were applied to support the identification of natural features in the Site Investigation Report and/or in support of evaluating natural features for significance within the Evaluation of Significance Report.	
4.1.4	4.4 - 4.6	Bird Surveys, including: <ul style="list-style-type: none"> • Spring Migration Surveys • Summer Breeding Surveys (09,10) • Fall Migration Surveys • Over-winter Resident Surveys 	Additional detail is needed describing how each of these surveys inform the site investigation report, for the purposes of identifying candidate significant wildlife habitat. Clarify if additional survey work be required to evaluate these types of features, and the relation between identified features and the project location? <p>Please identify where the investigations were completed including: (as part of the summer 2009 breeding surveys) for bald eagle behavioural watch surveys, crepuscular bird surveys</p>	

Section	Page #	Wording/ Topic	Comments	How/ Where Concern was Addressed
		Bat Surveys	and passerine surveys In addition please explain how the Hatch (2009) bat monitoring consider known cave features such as those in the Oriskany Sandstone formation at the northern portion of the study area, or bluff formations along the shoreline of Lake Erie?	
4.1.6 and throughout NHA	4.7	Field investigations to identify wildlife habitat located within 120 m of the Project Location were conducted during the vegetation community and vascular plant surveys performed between September and December 2010.	Ministry staff have concerns with the lack of early season flora information provided within the NHA. The review time frame for the collection and identification of plant species should have included a 3-season identification period to account for plants species associated with the spring and summer growing periods. Some of the features were surveyed during the month of December. On this basis snow cover and plant decay would impair the ability to identify herbaceous plants species. This appears to have resulted in an incomplete species listing. Given that parts of the proposed project location are within natural features or are proposed immediately adjacent to natural features the identification of spring-summer flora may have identified additional candidate significant wildlife habitat(s).	
4.2.5 Wildlife and Wildlife Habitat	4.10	Species of Conservation Concern	Please include additional detail with respect to Provincially Rare species (S1-S3). Each Provincially Rare / Special Concern species should be described and analysed with linkages made to specific habitats to support the identification natural features.	
		Amphibian breeding ponds/ amphibian habitats - salamanders	Please clarify how the work undertaken considered salamanders when identifying candidate significant wildlife habitat(s). Please also include information relating to what was considered as potential salamander habitats.	
(Results) Wetlands 4.3.2 (Wind), 4.4.2 (Solar), 4.5.2 (TC)	4.11, 4.23, 4.31	Identification and delineation of wetlands and wetland boundaries using ELC and OWES. Based on a review of the ELC field cards provided within the Appendix E, staff have identified a number of concerns with the ELC work completed, including: <ul style="list-style-type: none"> • no soils data • no species composition • some records are unreadable • no spring records are available • species codes are not uniform 	Comments regarding this concern were provided to Stantec /Samsung in an e-mail dated: Feb 15, 2011 Ministry staff have concerns with respect to a number of ELC units within 120m of parts of the project location, specifically for ELC units in features 8,14,15,42, 68, 69,73,74,75 and 76. In the Feb 15 e-mail Ministry staff provided a table that identified each of these areas and what additional information is needed to clarify the type of feature present OR whether the Ministry would consider this area as a wetland feature. This information should be reflected within the NHA.	

Section	Page #	Wording/ Topic	Comments	How/ Where Concern was Addressed
		<p>According to table 5.4, Appendix B of the NHA: “A 141 m stretch of road will result in the removal of 0.141 ha of fresh-moist ash lowland deciduous forest (FOD 7-2). This feature was identified as a significant woodland and wetland that supports significant wildlife habitat in the form of valleyland, winter deer yard, amphibian breeding ponds, habitat for area-sensitive forest birds and habitat for forest bird species of conservation concern”.</p>	<p>Ministry staff have identified a concern with respect to the proposed access road from turbine 4 to turbine 2 through feature 68.</p> <p>Based on the vegetation information available for this ELC community (FOD7-2) and in the absence of soils and other complete ELC information, it would appear that this area better fits the composition of an ELC wetland community and not a woodland community.</p> <p>Recognising the timelines for the proposed project, Ministry staff recommend that a site visit for this location be organized with Ministry staff to confirm the ELC community for this portion of Feature 68, ASAP. Ron Drabick and Anne Yagi should be contacted to set up a site visit. Ron can be reached at 519-773-4728 or ron.drabick@ontario.ca . Anne can be reached at 519-562-1196 or anne.yagi@ontario.ca</p> <p>Should this site visit confirm that the area is a wetland community, the proposed access road feature would be considered as going through a wetland feature and will require a full OWES evaluation to be completed for the entire wetland feature including complexing.</p>	
<p>Wetlands 4.3.2 (Wind), 4.4.2 (Solar), 4.5.2 (TC)</p>	<p>4.11, 4.23, 4.31</p>	<p>Wetland boundaries</p>	<p>Regarding Feature 10:</p> <p>The proposed access road for turbine 58 near feature 10 crosses a “riparian HR” ELC community. This would appear to be a wetland feature on the eastside of the road while it is unclear on the west side. No ELC data had been provided for the “riparian HR” natural feature. Please clarify.</p>	
		<p>Wetland boundaries</p>	<p>With respect to Features 66:</p> <p>Ministry staff note that the access lane for these features crosses a plantation that is riddled with meadow marshes connected to the hedgerow and the swamp at the intersection of the access roads for the two turbines. ELC has only identified the plantation and not the wetland inclusions.</p> <p>Based on the ELC notes, the wetland features should have been identified (the wetland sloughs) separately from the plantation or at least have indicated there were wetland inclusions present. The wetland sloughs should be identified and avoided.</p> <p>The wetland mapping in the woodland directly north of turbine 32 and between the two swamp communities includes an area that has been labelled as CUP 3-2, a white pine plantation. However, in looking at the swoop 2006 aerial photos and the 2010 photos, this area appears very similar in composition to the areas labelled swamp on either side of it. It does not appear this area has been converted to plantation. Please clarify the wetland boundaries in these areas.</p>	

Section	Page #	Wording/ Topic	Comments	How/ Where Concern was Addressed
			<p>Turbine 9 is within 10m of a wetland swale. There also appear to be two created wetlands (labelled lagoons) within the construction laydown area, based on the 2010 photos. The access road may be within wetland features and no buffering of the natural feature is provided.</p> <p>The proximity of the base of turbine 9, measured from the center, to an adjacent watercourse is about 9m and there appears to be wetland vegetation along this area as well. This turbine is said to be more than 25m from a wetland however Ministry staff have concerns as this would appear to be based on incorrect wetland mapping within the woodland to the west of the turbine. The wetland is located at the extreme west side of the zone of investigation but should have been mapped as extending to the extreme east side of the woodland where the watercourse meets the woodland just west of the turbine base.</p> <p>The identification of features needs to be clarified and adjusted to provide for appropriate setbacks and mitigation measures.</p>	
		Evans Creek LSW boundaries	Ministry staff also note that the boundaries for the LSW at Lakeshore Rd have not been corrected. This should have been completed as part of the site investigation. The swoop 2006 and provided 2010 photo's indicate the presence of a dug pond, structures around the pond and manicured lawn. An update of the file using OWES would not have identified this area as wetland given what is visible on the aerial photos. Please complete this analysis for these areas.	
4.3.4 Wildlife Habitat (Wind)	4.13 – 4.17	Landbird Migratory Stopover Areas Butterfly Migratory Stopover Areas	As mentioned previously in records review, landbird migratory stopover habitat and butterfly stopover habitat are not adequately assessed based on site specific habitats associated with the project location. Please clarify using criteria from the SWHTG and identify candidate habitats.	
		Colonial Bird Nesting Sites	Ministry staff note that there are numerous swamp habitats identified during the ELC field work, which could contain colonial bird nesting habitats. Please clarify how these habitats were considered. Further, colonial bird colonies include bank and cliff swallows and gull and tern colonies, do any of these habitat types exist in or within 120m of the project location? Please refer to SWHTG for feature based criteria to be used during Site Investigation.	
	4.14	Waterfowl Stopover and Staging Areas	Large wetlands such as swamp and marshes should be considered as candidate habitats and further clarification regarding the identification of potential habitat is needed. Fall roosting habitat in swamp or marsh features would be an example of inland habitats that would be potentially significant for waterfowl. Please clarify if these habitats were considered within the site investigation.	

Section	Page #	Wording/ Topic	Comments	How/ Where Concern was Addressed
	4.14	Raptor Wintering and Roosting Areas	Ministry staff have concerns with the area searches completed by Hatch in 2009. The identification of this type of habitat should follow the criteria within the SWHTG. The habitat needs to be delineated first, any historical concentration areas should be included from records review and the habitat analysed to ensure it still meets the criteria within the site investigation report. All candidate wildlife habitats identified in or within 120m of the project location should then be evaluated using proper study methods during the appropriate time of year.	
	4.15	Reptile Hibernacula	Please clarify how rock piles within hedgerows and fence lines were considered for the purposes of identify candidate significant wildlife habitat.	
	4.15-4.16	Bat Maternity Roosts	Please clarify where the criteria used to rule out potential bat maternity roosts (density of canopy or subcanopy, height of the stand) came from. Based on the assessment of all the woodlots in the study area, for the identified sites within table 4.3 better rationale is required to dismiss these areas as candidate habitat for bat maternity roosts.	
Wildlife Habitat 4.3.4.2 (Wind) 4.4.4.2 (Solar) 4.5.4.2 (TC)	4.17 4.26 4.33	Animal Movement Corridors	Individual hedgerows do not appear to have been described and discussed at all in this NHA, or included in mapping. Please clarify how hedgerows were considered as part of the rationale for identifying animal movement corridors.	
Wildlife Habitat 4.3.4.2 (Wind) 4.4.4.3 (Solar) 4.5.4.3 (TC)	4.18 4.27 4.34	Area Sensitive Species	Point Count surveys should be utilized to evaluate candidate significant wildlife habitats within Section 5.0 of the NHA. The identification of candidate significant wildlife habitats for area sensitive species could include incidental observations (where applicable) to support other criteria. Page 103-104 of the SWHTG suggests woodlands >10ha with at least 4 ha of interior habitat or Appendix Q which identifies that woodlands > 30ha with at least 10ha interior habitat be considered. The use of these criteria would be rationalized based on number and size of woodlands in landscape. Each woodland for this habitat should be described, rationalized and analyzed as a candidate significant wildlife habitat using the SWHTG criteria. Please clarify.	
Wildlife Habitat 4.3.4.3 (Wind)	4.18-4.19	Raptor nesting habitats	Based on the number of raptor observations reported, a number of these woodlands should be considered as candidate significant wildlife habitat for specialized Raptor Nesting habitat. Each of these features should be considered separately from Area Sensitive Songbird habitat and include a description, rationale and analysis. Please clarify.	
	4.20	Seeps and Springs	Please discuss seeps and springs separately, including information pertaining to the identified feature and its potential as significant wildlife habitat.	

Section	Page #	Wording/ Topic	Comments	How/ Where Concern was Addressed
Wildlife Habitat 4.3.4.3 (Wind) 4.4.4.4 (Solar) 4.5.4.4 (TC)	4.21	Habitat of Species of Conservation Concern – Declining Populations – Grassland Breeding Birds	Field habitats that meet the criteria in App. Q (page 350 and page 104) from the SWHTG should be used in identifying candidate grassland habitats. Each of the habitats that meet the feature-based criteria should be identified separately, and have a description provided that includes the rationale used and an analysis for identify the feature as candidate significant wildlife habitat. Point Count surveys are used during Evaluation of Significance, not during Site Investigation. Bird lists from any previous studies can be used as supporting information but information pertaining to the evaluation of features should be within Section 5.0 of the NHA.	
	4.29			
	4.36	Other Provincially Rare and Special Concern Species	Please explain how provincially rare and special concern species were considered when conducting the site investigations and whether candidate significant wildlife habitat(s) were identified within 120m of the project location.	
4.4.4.1	4.26	Two Short-eared Owls were observed more than two weeks apart, on December 2 and December 23, 2010, within the 120 m Zone of Investigation northwest of the Solar Project Location.	Please clarify how the boundaries of this feature were assigned, and if the full extent of the habitat was mapped. Further, provide the criteria/rationale used to determine the extent of the habitat.	
Evaluation of Significance				
Wetlands 5.1.1 (Methods) 5.2.1 (Wind) 5.3.1 (Solar) 5.4.1 (TC)	5.2	Wetland features not evaluated by MNR were assessed using a method for wetland Rapid Assessment developed by MNR (December 2010) to provide a set of evaluation criteria focused on wetland attributes relevant to the completion of an Environmental Impact Statement (EIS) for renewable energy projects. The criteria to be evaluated are presented in Appendix C of the <i>Natural Heritage Assessment Guide for Renewable Energy Projects</i> (MNR, December 2010).	The evaluation should be identified as the “ <u>Wetland Characteristics and Ecological Functions Assessment for Renewable Energy Projects</u> ” from the Natural Heritage Assessment Guide. The use of the wording <u>Wetland Rapid Assessment</u> refers to another wetland evaluation protocol not related to Renewable Energy. A review of Stantec’s interpretation of the Wetland Characteristics and Ecological Functions Assessment for Renewable Energy Projects found that the areas where they had proposed a standardized approach using “high med low” values should be changed to a statement of values and in some cases the inclusion of presence/absence values where applicable. This should be addressed in Appendix “B” Table 5.1 Rapid Assessment of Significance for Wetlands.	
	5.12			
	5.17	Where the wetland communities extend outside of the 120 m, they were included in the Rapid Assessment to ensure accurate documentation of the features and functions. Only wetland communities contiguous with those inside the 120 m Study Area were assessed.	According to this statement all contiguous units should have been assessed, which was the case for the areas identify within the solar project location and zone of investigation. However with respect to the wind and transmission corridor project locations and zone of investigation, it appears from the mapping that contiguous wetland units were not assessed fully, only the area within the 120-meter adjacent lands. Please clarify. With respect to wetland mapping on the significant natural features mapping (Figures 13 - 15), the PSW and LSW boundaries should be shown in addition to the renewable energy significant wetlands.	
	5.20			

Section	Page #	Wording/ Topic	Comments	How/ Where Concern was Addressed
		Flood Attenuation - isolated wetlands;	<p>A number of wetlands have been evaluated as isolated wetlands; Ministry staff recognise that isolated wetlands are a rare occurrence within the southern landscape and after reviewing the wetland evaluations in conjunction with ortho-photography these wetlands should have been identified as palustrine.</p> <p>This should be addressed in Appendix "B" Table 5.1 Rapid Assessment of Significance for Wetlands.</p>	
5.1.2 (Methods) 5.2.2 (Wind) 5.3.2 (Solar) 5.4.2 (TC)	5.7, 5.12 – 5.13	Valleylands	<p>Please clarify whether the criteria from Natural Heritage Assessment Guide or the Natural Heritage Reference Manual is being applied.</p> <p>Further, the sections regarding the evaluation of significance of valleylands should be expanded out to discuss each valleyland in relation to each criteria to determine whether each natural feature is significant or not. This could be provided in a table. The descriptions provided in the NHA need to link back to the appropriate criteria used for each evaluation of significance.</p>	
5.1.4.1 (Method) 5.2.5 (Wind) 5.3.5 (Solar) 5.4.5 (TC)	5.7, 5.13, 5.18 5.21	Criteria for determining the significance of deer yards is outlined in the Decision Support System Index #28 (MNR, undated). However, MNR has indicated that habitats used by White-tailed Deer in the Niagara Region differ from those used elsewhere in southern Ontario (A. Nix, pers. comm., December 15, 2010). In the Study Area, winter deer yards are therefore considered to be significant if MNR has identified them as such.	<p>Criteria for determining the significance of deer congregation (wintering) areas within ecoregion 7E and management unit 90A in Guelph District should use the following criteria:</p> <ul style="list-style-type: none"> • Size Class IV (>100 ha) for woodlands • Confirmed wintering deer density • And < 10% of Summer Deer Range. <p>For Management unit 90A in Guelph District the: Total Wintering area = 664ha Total Summer Range = >9000ha</p> <p>Densities can be determined using the Niagara Aerial Deer Surveys provided to Stantec previously.</p> <p>Based on this analysis Features: 7, 31, 32, 47, 81 would be considered as significant deer congregation (wintering) areas. Please also see the attached shape file.</p>	
5.1.4.1 (Method)	5.7	Methods for evaluating significant wildlife habitat.	<p>Feature based criteria are relative to identifying candidate significant wildlife habitats, not for completing evaluations of these habitats. Point Count, Transect, Floristic Studies, Egg mass/larval counts and Observational Studies completed at the appropriate time of year are examples of methods for evaluating significance of natural features. Please revise and provide additional detail regarding evaluation methods for Bull Frog habitat, Raptor Winter Areas, Turtle Nesting, Area Sensitive Habitats (Songbirds, Grasslands, Raptors), Amphibian Woodland Breeding Habitat and Provincially Rare and SC species. Also please include any addition features identified from revisions to the records review and/or site investigation.</p>	
5.1.4.2 (Method) 5.2.5 (Wind)	5.9 5.15 5.19	Amphibian Woodland Breeding Ponds	<p>Please also reference table 5.3 – Vernal pools Evaluation of Significance within this section of the report.</p>	

Section	Page #	Wording/ Topic	Comments	How/ Where Concern was Addressed
5.3.5 (Solar) 5.4.5 (TC)	5.21		<p>The evaluations appear to be based on habitat characteristics only and do not appear to include any species presence/absence information. Were any specific studies for amphibians (frogs, salamanders) completed?</p> <p>Based on the evaluations completed significant woodland breeding ponds are present in features: 8,10, 15, 19, 22, 30, 31, 32, 38, 39, 42, 47, 49, 54, 56, 68, 69, 71, 72, 77</p>	
5.1.4.3 (Method) 5.2.5 (Wind) 5.3.5 (Solar) 5.4.5 (TC)	5.10 5.14, 5.18 5.22	Animal Movement Corridors	Please identify the source of the criteria being applied, and provide a rationale as to why at least two criteria must be met for features to be considered as significant. Also, each individual animal movement corridor should be discussed in regards to each of the criteria, this could be provided within a table and reference in the body of the report.	
Section 5.1.5	5.11	One criteria recommended in the Haldimand County Official Plan was not utilized due to a lack of available information pertaining to managed woodlands, despite requests for this information from the MNR and County of Haldimand.	Please note that while there are managed woodlands that have written management agreements with Trees Ontario and the Haldimand Stewardship Council/Haldimand Woodlot Owners' Association within the study area, none are under agreement with MNR and all previous MNR agreements have expired.	
5.2.4	5.13	Significant Woodlands – Wind Project Location	Table 5.2 in Appendix B evaluates feature 56 as “not significant”, Ministry staff note that it should be evaluated as “significant” as it has at least 2 ELC communities present and because of proximity to water.	
5.5	5.22	Summary of significant natural features	It is noted that Feature 79 is not included within the summary table, although it was determined to be significant woodland. This should be corrected.	
Environmental Impact Study (EIS)				
EIS	Entire EIS	Wildlife in construction areas	<p>What practices will be utilized to prevent wildlife from entering construction areas?</p> <p>For example if construction work occurs within the breeding season for turtles additional barriers (i.e. silt fencing) should be erected around areas of disturbed soils near natural features to discourage turtles from nesting/laying eggs in these areas.</p> <p>If wildlife is discovered within construction areas what practices will be implemented?</p> <p>Please clarify.</p>	

Section	Page #	Wording/ Topic	Comments	How/ Where Concern was Addressed
6.1.1 6.1.2.1 6.1.2.2	6.2, 6.5 6.5	<p>Description of the Wind Project – Impacts to Wetlands and Woodlands</p> <p>Within 30 m of wetlands, no excavation will take place; the roadbed material will be placed over the existing surface on geotextile material with equalization culverts to ensure no ponding or disruption of surface water flow...</p> <p>Efforts were made to incorporate the current road network at the site to the greatest extent possible. All components of the Wind Project are sited outside wetland boundaries; therefore there will be no direct loss of wetland habitat or function. Potential indirect effects may arise through changes to wetland hydrology during or after construction...</p> <p>Where components of the Wind Project are sited outside significant woodlands, there will be no direct loss or fragmentation of habitat or habitat function. Potential indirect effects may arise through changes to hydrology during or after construction...</p>	<p>Construction has been proposed within 30 meters of identified wetland edges for a number of wetland features, as well as woodland features; in some instances work has been proposed immediately adjacent to the wetland/ woodland edge.</p> <p>Ministry staff have concerns with respect to potential impacts to natural features given the close proximity of project components. Where accesses roads are proposed within close proximity to wetland/woodland edges as a means of preventing impacts to the edges of these features from changes in drainage, soil compaction, etc.</p> <p>Options for addressing these concerns could include incorporating: relocating/shifting project components, setbacks from natural features, buffers, enhancing erosion/sediment mitigation, etc.</p>	
	6.1	Dewatering from construction	<p>The EIS and related REA reports (where applicable) should commit to ensuring that water pumped during dewatering activities is directed away from natural features and is not pumped directly into wetlands.</p> <p>Further all potential impacts from dewatering activities that could impact natural features should be identified within the EIS and appropriate mitigation provided including those resulting from detailed engineering design.</p>	
	6.2	Turbine laydown (prior to turbine erection) will take place adjacent to the access roads and, along with crane pads with dimensions of approximately 20 m x 40 m, have been incorporated into the Wind Project Location design by designating a 50 m wide “constructible area” for the access roads.	While it is understood that crane pads will be installed within the constructible area please describe how the crane pads will be installed. Are these pads temporary or permanent installations? Is excavation or dewatering required for the installation crane pads? What are potential impacts to natural features from the construction of the crane pads? Please clarify.	
6.1.2.1	6.5	Potential Impacts Wetlands - indirect effects may arise through changes to wetland hydrology during or after construction.	<p>A review of road layout makes no mention of culvert placement along access roads to maintain wetland hydrology flow in drainage crossing areas. While Table 6.1 does generally identify consideration of equalization culverts in some areas, specific details regarding culverts have not been provided. If flow is disrupted in these areas it could well have an effect on wetlands within the watershed. Please clarify.</p> <p>Culverts should also be considered in relation to mitigating impacts to wildlife habitats and wildlife movement, including for amphibians.</p> <p>Additional site details regarding the placement of culverts along existing and proposed access road should be provided within the EIS.</p>	

Section	Page #	Wording/ Topic	Comments	How/ Where Concern was Addressed
6.1.2.3	6.6	Rare Vegetation Species & Communities	As mentioned previously, Ministry staff have concerns regarding the potential impacts for rare vegetation species and communities, as plant surveys were completed from September – December 2010, and spring-summer flora surveys have not been completed. Particularly for those areas where the removal of vegetation is proposed. Options for addressing these concerns could include: completing spring flora surveys, relocating/shifting project components outside of natural features, setbacks from natural features, buffers, etc.	
6.1.3, et al.	Entire EIS	Commitment to implement proposed mitigation measures	Throughout the EIS it is stated that certain mitigation measures “should occur” under certain circumstances. Please revise the NHA to commit that the proposed mitigation measures “will occur” under those certain circumstances.	
6.1.3.2 et al.	6.9 & Entire EIS	Mitigation and Net Effects <i>If a nest is located, a designated buffer will be marked off...</i>	It is requested that a specific buffer distance be identified within the EIS, or that a protocol for determining the buffer be discussed within the EIS. Please make this change to all applicable sections of the EIS.	
	6.9 & Entire EIS	Regular monitoring of the limits of clearing will be employed to ensure the objective of minimal disturbance. Should monitoring reveal that clearing occurred beyond defined limits, mitigation action will be taken that could include rehabilitation of the disturbed area.	Please specify what other mitigation actions that would be taken other than rehabilitation of the disturbed area under these circumstances? Ministry staff recommend that if clearing occurs beyond defined limits, mitigation including at a minimum, the rehabilitation of the disturbed area occurs to the pre-disturbance conditions of the site. Preferably the improvement of habitat features is supported wherever possible.	
	6.9 & Entire EIS	Rehabilitation of laydown areas	Please specifically identify all areas where reseeded/replanting to natural vegetation is proposed within the EIS. All reseeded/ replanting should use species native to Ecoregion 7E. Preferably these species should also be native to the site/ surrounding natural features.	
6.1.5.2 et al.	6.14 & Entire EIS	Management of sediments and erosion from construction...	Are areas adjacent or within to the proposed construction area at risk to sediment/erosion? How have these areas been identified? Are there other mitigation tools proposed to minimize erosion impacts or provide for re-vegetation where erosion does occur in these areas? Please clarify.	
		Project components are planned within the 120 m zone of influence of the amphibian woodland breeding pools.	Proposed mitigation only addresses potential impacts to frogs...please clarify if there are any potential impacts to salamanders and how the proposed mitigation addresses these impacts. Please make these changes to this section and every subsequent section where it is repeated within the EIS.	
6.1.7 Natural Feature 10	6.18	Concerns regarding access road for turbine 58	Proposed access road crosses a “riparian HR” ELC community. This would appear to be a wetland on the eastside of the road, unclear on the west. No ELC data has been provided for the “riparian HR” natural feature. No discussion in table 6.1 regarding use of culverts for this area has been included. Swale	

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			exists north of "riparian HR" this does not appear to have been identified or mitigated. Use of culvert would be wise to prevent pooling and maintain hydrology. Please clarify Please also clarify if the access lane beside or replacing the hedgerow in this location.	
6.1.10 Natural Feature 19	6.25	Concerns regarding wetland delineation in these areas, potential impacts to adjacent features and drainage	Please clarify the extent of the construction/laydown areas and how close they will be in proximity to adjacent natural features. Turbine 24 is within a narrow field 50 – 100m wide, and while Ministry staff recognise that it will be difficult to accommodate a minimum 10m buffer on each side, given potential impacts a buffer is recommended. Please address whether potential impacts to sensitive / declining species could be affected in this area due to potential interior woodland area reductions by the turbine placement. Please describe in more detail potential impacts to drainage and how specific mitigation measures will be implemented to prevent these impacts.	
6.1.12.1 Natural Feature 22	6.31	The location of Turbine 16 appears to be proposed on top of an drain/swale that drains into feature 22 and supports other features through the areas	Please clarify how the impacts from the location of the turbine base being placed on top of a drain/ swale, which flows into feature 22 and supports other adjacent features, is being mitigated to ensure no negative impacts from surface water drainage changes occur?	
6.1.13 Natural Feature 28	6.33	Concerns regarding impacts to surface water flows/ drainage	Clearing appears to be proposed within a low lying wet area within the construction/ laydown sites and within 17m of the turbine base. The swale also wraps around the turbine base location. There is also a swale that crosses the access road and then runs parallel to the access road; it appears part of the access road is on the swale. Please provide additional detail regarding how drainage will be maintained in this area, and how the proposed mitigation methods will be specifically implemented to accomplish this.	
6.1.17.2 Natural Feature 34	6.44	Measures taken to ensure the protection of the watercourse that supports Snapping Turtle (Water Assessment Report, Stantec 2011) will ensure the preservation of habitat characteristics needed for Snapping Turtle movement.	As MNR staff do not review the Water Report, please clarify what these measures include.	
6.1.22.1 Natural Feature 51	6.55	Distance to wetland feature	Table shows access road (west) within 1m of a significant woodland and overlapping a significant wetland. Report states "Construction is planned within the 120 m zone of influence of the wetland. A minimum 57m setback is planned between the wetland edge and any physical structure on the ground (excluding the turbine blade airspace)". Please clarify	
6.1.30.2 Natural Feature 66	6.71 & Entire EIS	The required 10 m wide construction zone over the 1472 m length of the access road within the cultural plantation component of the woodland will result in the loss of approximately 1.472 ha of woodland, plus 0.028 ha for the turbine base and a temporary	Please identify the specific areas where the removal of natural features is proposed. How is the removal of natural vegetation within natural features to be mitigated for the project? Please clarify.	

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		removal of 0.49 ha for the 70 m x 70 m crane pad...		
		With respect to Turbine 51	Project components are adjacent the wetland, additional mitigation (buffer) is needed. Please also clarify if culverts are proposed for this area to maintain drainage patterns/swales.	
6.1.44 Grassland habitats	6.100	No separate unique identifiers for each grassland habitat, insufficient detail for potential impacts and mitigation.	Please provide unique identifiers for each of the grassland habitats identified. Please discuss the potential impact to each feature individually based on the values for each habitat and provide appropriate mitigation for any potential negative environmental effects.	
6.1.46 James N. Allen Provincial Park	6.104	James N. Allen Provincial Park	The EIS needs to identify potential negative environmental effects and mitigation of the features, functions, values and ecological integrity of the provincial park as a protected area. An analysis should also include an assessment of the potential impacts of the project on the ability of the provincial park to fulfil its role in the protected area system, the integrity of the protected area as a whole, as well as the features, functions and values associated with the provincial park.	
6.2.1 Description of Solar Project	6.105	A 6m wide berm will be constructed to provide a landscaping barrier for landowners of adjacent residences....	Please clarify whether the berm is to be vegetated and whether native species will be used. Further are there any proposed impacts to natural features from/by the berm?	
	6.106	Minimal change from the existing grades is anticipated but some grading will be performed to accommodate the construction of internal solar module access roads. The solar farm land area will be graded by earth moving equipment to the elevations determined by the grading plans (Construction Report, under separate cover).	Please provide additional detail regarding the extent of the grading changes proposed, including an analysis on pre-existing to post-construction conditions.	
6.2.3.1 Direct impacts to natural features – significant wetlands	6.111	The lands located adjacent to the wetlands will be naturalized to create a vegetated buffer between the wetlands and Solar Project Location.	Please identify areas where naturalized buffers will be added. What species will be used in these areas? How wide is the buffer area? Ministry staff recommend that species native to Ecoregion 7E, preferably these species should also be native to the site/ surrounding natural features should be used.	
		No significant grading is proposed on the solar lands and existing drainage patterns will be maintained, ensuring any surface water flows currently draining to the various wetlands will be maintained.	Please clarify how this will be accomplished and the degree of grading proposed.	
6.2.3.1 Direct impacts to natural features – significant wildlife habitats	6.113	Two security fences are proposed along the western limit of the Solar Project Location that would cross the identified animal movement corridor between Natural Feature 29 and 30.	Ministry staff have concerns regarding the limitation of wildlife movement to the west from natural feature 30. It is recommended that the fencing be adjusted to maintain both eastern and western movement along these corridors.	
6.2.3.6 and 6.3.3.6 Erosion and Sediment Controls	6.117 and 6.141	Appropriate erosion and sediment controls should be employed during all phases of construction to minimize the potential deposition of silt and sediment within the receiving systems as a result of site grading works.	Please clarify what the specific erosion and sediment control measures are to manage silt and sediments as a result of grading/ construction.	
6.3.4 Net Effects	6.141	With respect to the Collector Substation, a minimum setback of 31 m will be maintained from the adjacent wetland and woodland (Natural Feature 30). The O&M facility will maintain a 30 m setback from the wetland and woodland feature (Natural Feature 38). The buffer areas between these facilities and the natural features will be	Please identify areas where naturalized buffers will be added. What species will be used in these areas? How large is the buffer area? Will the entire 30/31m setback be replanted? Ministry staff would recommend that native species to ecoregion 7E, preferably to the local area should be used.	

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		naturalized with native plant species intended to be maintained as a 30 m vegetated buffer zone in perpetuity.		
Environmental Effects Monitoring Plan				
2.1	2.1	Purpose of EEMP	Ministry staff recommend that the mortality monitoring of the EEMP be in a separate plan and the disturbance monitoring proposed be included part of the EIS.	
2.2.3 2.2.4 2.2.5	2.5 – 2.8	Breeding and Grassland Bird Surveys, Amphibian Breeding Habitat, Wetland and Woodland Hydrology	Each of these proposed monitoring initiatives/ plans warrant further consideration and revisions based on additional details/ revisions to the NHA.	
2.2.1	2.2	Page 2.2 “Mortality monitoring within minimally-vegetated portions (i.e., Visibility Classes 1 and 2 [MNR, 2010a]) of a 50 m search area radius from the base of 30% (21 of 69) wind turbines” –	30% of 69 turbines should be 23 turbines as a sample size not 21	
	2.3	Followed by periodic checking to determine the rate of removal...	This should indicate that this checking will be done on the same schedule as the carcass searches (every 3-4 days)	
	2.4	Page 2.4 “The overall Ps for the facility will be calculated as the average of Ps1 through Ps9”	Please clarify where the 9 is coming from.	
		Observed fatalities will be photographed, and the species, GPS coordinates, substrate, carcass conditions, and distance and direction to the nearest turbine will be recorded along with the date, time and searcher.”	The sex and injuries of carcasses also needs to be included within the data collection	
2.2.2	2.5	“Persons handling bat carcasses will take reasonable precautions (e.g., gloves, tools etc.) to protect their personal health.”	Ministry staff recommend including rabies vaccinations	
			Please clarify what data will be recorded in the Se and Sc trials – e.g. species used, visibility class, weather... Please also clarify of how many trial carcasses will be placed at any one time to avoid bias and flooding the system with carcasses.	
3.1	3.2		Ministry staff recommend that the mitigation section for birds should indicate the required number of years of monitoring required (as per the guidelines) should the threshold be reached.	

General Comments/ Observations:				
	Entire NHA	Formatting, spelling, etc.	Ministry staff have noticed a number of spelling/ formatting errors within the NHA that should be corrected.	
	Entire NHA	Content pertaining to endangered/ threatened species	Please remove the information pertaining to Endangered or Threatened species and place this information in a separate species-at-risk report that will be provided to MNR under separate cover.	

Section	Page #	Wording/ Topic	Comments	How/ Where Concern was Addressed
Records Review				
3.2.1.1 3.2.1.2 3.2.2	3.3 – 3.4	Soils, Geology, Watershed Conditions	These topics are beyond the scope of what is required for receiving MNR's confirmation as such Ministry staff would request that these topics be removed from the NHA. Where Geological features are relevant to the identification of natural features please provide this clarification.	
3.2.4.4	3.10	Several of the unevaluated wetlands identified by the MNR, GRCA and LPRCA along the Lake Erie shoreline, lower reaches of the Grand River and various minor tributaries to Lake Erie would also be considered coastal wetlands. These wetlands are identified on Figure 2 (Appendix A) .	MNR has not identified any unevaluated wetlands within the study area; please clarify this statement to reflect this.	
3.2.6.3	3.17	Rare Vegetation Communities	A comparison of orthophotography flown in the early summer of 2010, to the 2006 leaf off orthophotography may have identified additional locations with rare vegetation communities within the study area.	
3.3	3.21	Records Review Summary	Please expand the summary to include all wildlife habitats identified in the SWHTG that may have linkage to habitat within the study area based on criteria provided within the SWHTG. As presented the list is incomplete and eliminates potential features without proper consideration of criteria or field assessment that would be completed during Site Investigation.	
Site Investigation				
4.1.2 –	4.2	Woodland features were compared to the definition of woodlands provided in O. Reg. 359/09, whereby any land that contained (or appeared to contain) (per hectare) at least (i) 1,000 trees of any size, (ii) 750 trees over 5 cm in diameter, (iii) 500 trees over 12 cm or (iv) 250 trees over 20 cm was considered a woodland in accordance with the REA definition. Treed areas were also compared to the definition of woodland provided in the <i>Natural Heritage Reference Manual</i> (MNR, 2010) and as revised in O. Reg. 359/09 as of January 1, 2011	According to Section 3.2.7 of the NHA Samsung has elected to apply to amended definition of woodlands from O. Reg 359/09. However based on the description of 4.1.2 the original definition from O. Reg 359/09 was applied and then the results were only compared to the amended definition. Please clarify.	
4.1.5	4.6	Bat Surveys	The revised As outlined within the Bats and Bat Habitats: Guidelines for Wind Power Projects (MNR, March 2010) Section 26 of O. Reg 359/09 requires a physical search of the air, land and water within 120m of the Project Location to determine...	
4.2.3	4.9	Vegetation Communities: The Winterberry – Buttonbush Mineral Thicket Swamp (SWT2-14*)	The suspected rare community should be confirmed with NHIC staff.	
4.3.4.5	4.22	Wildlife habitat summary	Please expand the summary to include all wildlife habitats identified in the SWHTG that have been identified as candidate significant wildlife habitat in or within 120m of the project location criteria provided within the SWHTG. As presented the list is incomplete and eliminates potential features without proper consideration of criteria or field assessment that would be completed during Site Investigation or prior to completing evaluations of the feature's significance.	
4.3.6	4.22	Summary of Natural Features - Wind	Please indicate how many/which unevaluated wetlands were identified as part of the site investigation and require evaluations for the Wind Project location and Zone of	

Section	Page #	Wording/ Topic	Comments	How/ Where Concern was Addressed
			Investigation.	
Evaluation of Significance				
5.1.4.1	5.8	Turtle Nesting Areas Criteria for determining the significance of Bullfrog breeding habitat...	This section is incomplete (and mentions bullfrog habitat under the turtle nesting areas section). Please Clarify	
5.2.3 and 5.4.3	5.13, 5.20		<i>There are no Life Science ANSIs located within 120 m and no Earth Science ANSIs located within 50 m of the Wind Project location.</i>	
5.5.3	5.24		An Environmental Impact Study is required to identify and assess any negative environmental effects and develop mitigation measures to the above-noted significant features that occur in or within 120 m of the Project Location.	
Environmental Impact Study (EIS)				
6.1.1	6.3	With the following seven exceptions, turbines, access roads and the collection system have been located outside of naturally vegetated areas:	With the following seven exceptions, turbines, access roads and the collection system have been located outside of naturally vegetated areas features:	
Appendix B, Table 4.3	B.11	Feature 29 has open water area, likely from abandoned quarry	Has an analysis been completed for abandoned quarries? Will this be discussed in a report supporting other APRD requirements?	
	B.20	"Edge assessment" listed under Species of Note column	Please clarify if this is correct.	

Friedl, Susanne

From: Powell, Chris
Sent: Friday, March 11, 2011 2:50 PM
To: 'Cairns, Melody (MNR)'
Cc: april.nix@ontario.ca; 'Drabick, Ron (MNR)'; Kozak, Mark; Nadolny, Rob; Straus, Melissa
Subject: Samsung GREP - James N. Allan Provincial Park

Melody,

In your new capacity as an Ontario Parks ecologist, can you please assist us in obtaining any existing background information pertaining to the natural heritage aspects of James. N. Allan Provincial Park. This information is required to supplement the information that we have included in the draft NHA/EIS that was prepared and submitted to the MNR for the Samsung wind and solar project in Haldimand County.

The following is a summary of our description of the Provincial Park:

This “non-operating” park is a 117 ha park located on the north shore of Lake Erie, about seven kilometers southwest of Dunnville, with access via King's Row. There are no visitor facilities and it consists of 1 km of pebble beach, 100 m of fine sand beach and approximately 60 hectares is forest and wetlands. James N. Allen Provincial Park is intended to protect natural and scenic areas for scientific, educational and recreational use, with this park specifically identified as a good spot for swimming, boating, walking and bird-watching (Ontario Parks, 2003). A portion of the James N. Allen Park Woodlot-Wetland PSW occurs within the southern portion of the Park, which includes a mix of swamp and marsh that supports nesting colonial waterbirds, active feeding areas for Great Blue Heron, and locally significant winter cover for wildlife and fish spawning and rearing.

Attached is a map showing the natural heritage features known to exist within 120 metres of our Project (adjacent to the Park), which includes a proposal to install a new collector line along the opposite side of Kings Row adjacent to the Park.



With respect to the James N. Allen Park Woodlot-Wetland Provincially Significant Wetland, which occurs partially within the Park's boundaries, we have the following information:

This coastal wetland complex is made up of 5 individual wetlands, composed of 2 wetland types (65% swamp and 35% marsh). It is reported to support nesting colonial waterbirds and active feeding areas for Great Blue Heron, and locally significant winter cover for wildlife and fish spawning and rearing. This PSW is located along the north shore of Lake Erie south of Kings Row, east of Haldimand Road 49 in the southeast corner of the Study Area.

Our field investigations identified the following communities along the northern portion of the Park that fall within 120 m of the proposed collector line:

The vegetation communities along the northern edge of the Park, which occur within 120 m of a proposed collector line, include a fresh moist Red Oak – Shagbark Hickory deciduous forest (FOD9-6) and a green ash cultural woodland (CUW1-4*)... This feature is predominantly forested, natural forest to the west, culturally dominated to the east, and bisected by agriculture. The natural forests are co-dominated by shagbark hickory with red oak whereas the assessed cultural woodlands were dominated by green ash.*



Through our assessment of existing information, the Provincial Park includes a natural feature that contains Significant Woodland, Significant Wetland, Deer Wintering Area and supports Area-Sensitive Species Habitat...The woodland is part of a larger contiguous woodland that has been evaluated and determined to be a significant woodland based on size, connectivity, proximity to water, woodland diversity and woodland shape.

Through additional information provided by MNR, we have also confirmed that the southern portion of the woodlands within the Provincial Park are considered significant wildlife habitat for deer wintering.

Can you please provide any additional information pertaining to the natural features, functions and values of the protected area / Provincial Park, such as species records, management plans, research documents, site investigation results, mapping, etc. that would assist in identifying/assessing the natural features within the Provincial Park, as well as any documentation that could assist in identifying and assessing potential impacts of the Project of the following:

1. ability of the protected area to fulfill its role in the protected area system (i.e. representation),
2. the integrity of the protected area as a whole (e.g. intactness),
3. and the features, functions and values associated with the Provincial Park.

EIS consideration, in accordance with the *NHA Guide for Renewable Energy Projects* (MNR, 2010), suggests that potential impacts of the Project should be assessed with regard to

1. representation and condition (e.g. critical or rare landform-vegetation types),
2. diversity (e.g. high species diversity, surficial geological features),
3. ecological functions (e.g. hydrology, core areas, contiguity of natural areas, connectivity, interior habitat, natural disturbances, old growth forest),
4. special features (e.g. rare species/communities, specialized habitats, areas recognized for other initiatives (IBI, PSW, ANSI), significant wildlife habitat),
5. cultural heritage values (e.g. archaeological sites, aboriginal sites of interest, historic values)
6. sustainable recreational / traditional use values (e.g. recreational areas, traditional outdoor recreational uses, control of access, wilderness protection),
7. natural and cultural heritage appreciation (e.g. infrastructure, local educational/interpretation/demonstration sites), and
8. research (e.g. long-term research or monitoring plots, research re: protected areas priorities)

Any information that can assist in this assessment would be greatly appreciated.

Finally, we are required to conduct additional field work within 120 metres of the Project within the Provincial Park. Can you please either provide permission to conduct this work by our field ecologists or advise regarding the process to obtain that access permission?

Thank you very much in advance. Your urgent attention to this matter would be greatly appreciated. Can you please ensure that any response in this email is copied to the circulation list (specifically Melissa Straus).

I am looking forward to working with you once again (and much sooner than I had originally anticipated when you changed positions within MNR.

Take care.

Sincerely,

Chris

Friedl, Susanne

From: Powell, Chris
Sent: Tuesday, March 22, 2011 10:49 AM
To: 'Cairns, Melody (MNR)'
Cc: Nix, April (MNR); Drabick, Ron (MNR); Kozak, Mark; Nadolny, Rob; Straus, Melissa
Subject: RE: Samsung GREP - James N. Allan Provincial Park
Attachments: image001.jpg; image002.jpg; MNR Park Access Application_22mar11.docx

Importance: High

Melody,

Attached is the completed application, as requested. I noticed in the "Notes to Applicant" section of the application, that permission may take up to 2 months to obtain. We do not have that time luxury for this project, unfortunately, and would greatly appreciate any efforts on your part to expedite this approval so we can access the property later this week.

If you have any questions at all regarding this application or background information, please call me on my cell phone.

Thank you in advance,

Chris

Chris Powell, M.A.

Project Manager / Environmental Planner
Stantec Consulting Ltd.
49 Frederick Street
Kitchener ON N2H 6M7
Ph: (519) 585-7416
Fx: (519) 579-4239
Cell: (519) 501-2368
chris.powell@stantec.com

stantec.com

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From: Cairns, Melody (MNR) [mailto:melody.cairns@ontario.ca]
Sent: Wednesday, March 16, 2011 3:19 PM
To: Powell, Chris
Cc: Nix, April (MNR); Drabick, Ron (MNR); Kozak, Mark; Nadolny, Rob; Straus, Melissa
Subject: RE: Samsung GREP - James N. Allan Provincial Park

Hi Chris,

In order to do any type of survey or assessment work inside the park, you would need to fill out an application to conduct research within a provincial park. Ontario Parks has a wide definition of the term 'research', which includes pretty much any and all survey, inventory and monitoring. You can complete the application in one of two ways: fill out the online form (<http://www.ontarioparks.com/english/form2.html>) and submit the form that way, or take the information from the online form and put it into an MSWord document and email it to me directly.

As to the other part of your request on background information, can you send me the sources that were used to write what's below? That will help me figure out if there are any key documents that I can send you.

Cheers,

- Melody

Melody Cairns

Zone Ecologist - Ontario Parks, Southwest Zone

659 Exeter Road, 4th Floor | London, ON | N6E 1L3

Tel: 519-873-4632 | Fax: 519-873-4645 | Email: Melody.Cairns@ontario.ca

 Please consider the environment before printing this email.

From: Powell, Chris [mailto:Chris.Powell@stantec.com]

Sent: March 11, 2011 2:50 PM

To: Cairns, Melody (MNR)

Cc: Nix, April (MNR); Drabick, Ron (MNR); Kozak, Mark; Nadolny, Rob; Straus, Melissa

Subject: Samsung GREP - James N. Allan Provincial Park

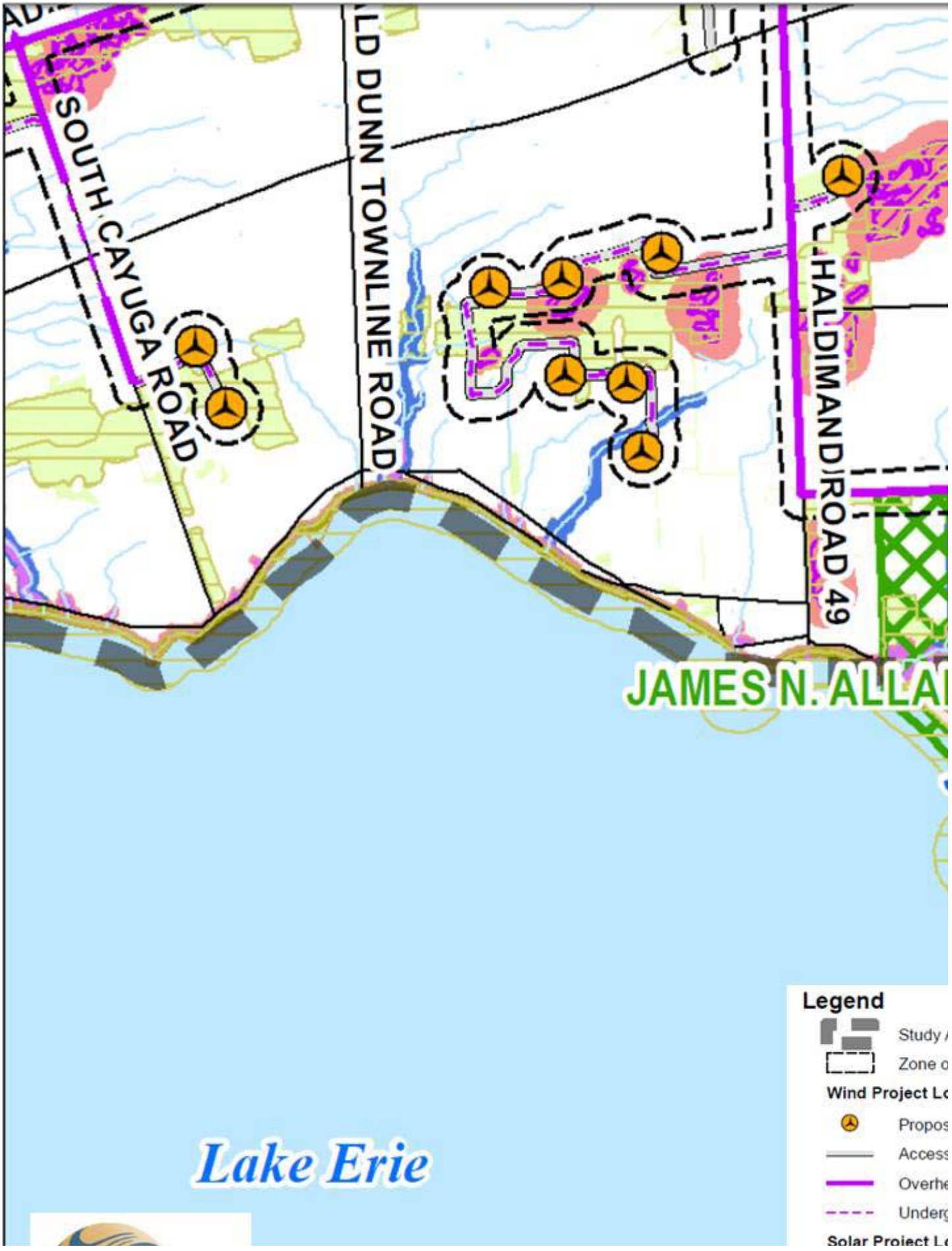
Melody,

In your new capacity as an Ontario Parks ecologist, can you please assist us in obtaining any existing background information pertaining to the natural heritage aspects of James. N. Allan Provincial Park. This information is required to supplement the information that we have included in the draft NHA/EIS that was prepared and submitted to the MNR for the Samsung wind and solar project in Haldimand County.

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Attached is a map showing the natural heritage features known to exist within 120 metres of our Project (adjacent to the Park), which includes a proposal to install a new collector line along the opposite side of Kings Row adjacent to the Park.

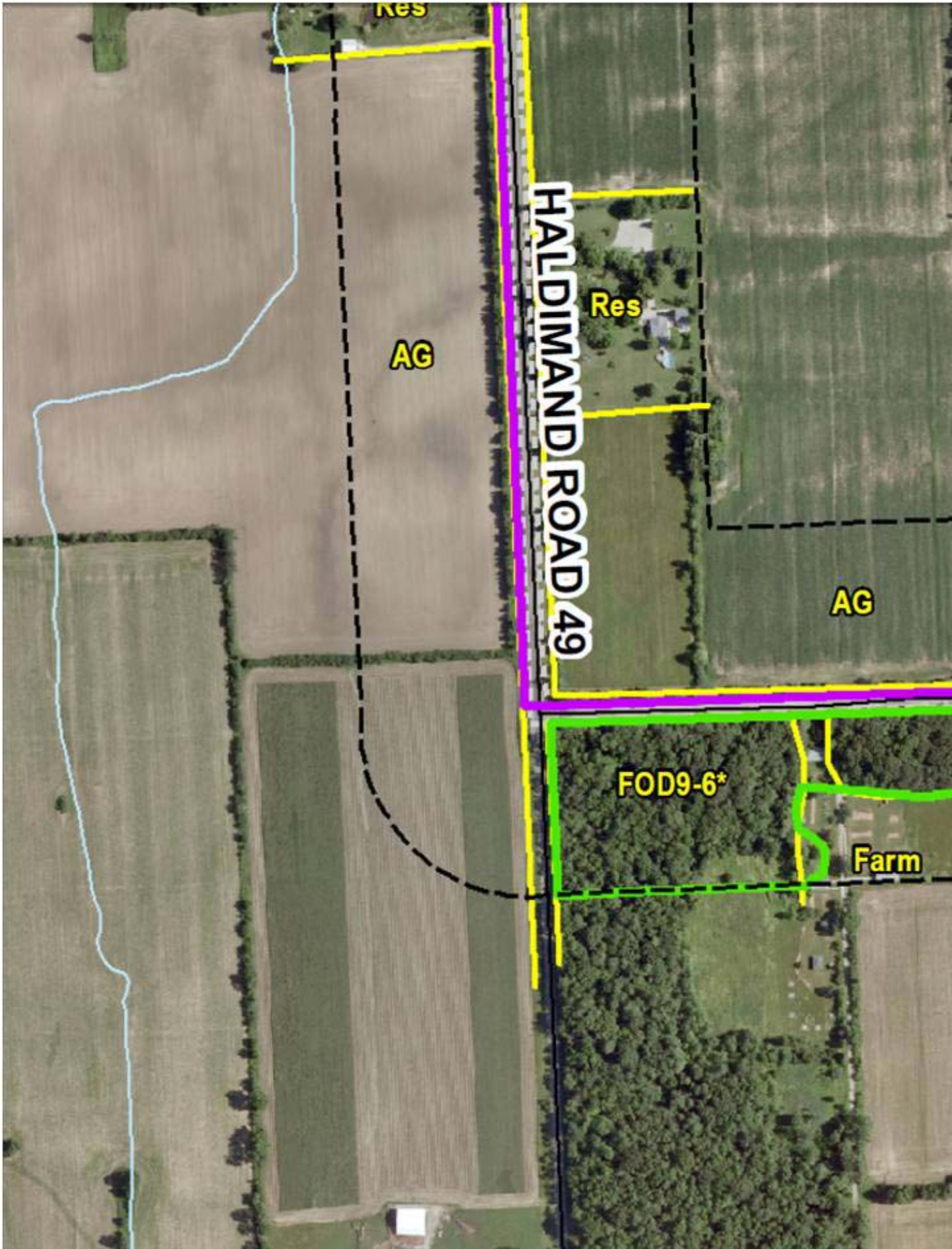


With respect to the James N. Allen Park Woodlot-Wetland Provincially Significant Wetland, which occurs partially within the Park's boundaries, we have the following information:

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Through our assessment of existing information, the Provincial Park includes a natural feature that contains Significant Woodland, Significant Wetland, Deer Wintering Area and supports Area-Sensitive Species Habitat...The woodland is part of a larger contiguous woodland that has been evaluated and determined to be a significant woodland based on size, connectivity, proximity to water, woodland diversity and woodland shape.

Through additional information provided by MNR, we have also confirmed that the southern portion of the woodlands within the Provincial Park are considered significant wildlife habitat for deer wintering.

Can you please provide any additional information pertaining to the natural features, functions and values of the protected area / Provincial Park, such as species records, management plans, research documents, site investigation results, mapping, etc. that would assist in identifying/assessing the natural features within the Provincial Park, as well as any documentation that could assist in identifying and assessing potential impacts of the Project of the following:

1. ability of the protected area to fulfill its role in the protected area system (i.e. representation),
2. the integrity of the protected area as a whole (e.g. intactness),
3. and the features, functions and values associated with the Provincial Park.

EIS consideration, in accordance with the *NHA Guide for Renewable Energy Projects* (MNR, 2010), suggests that potential impacts of the Project should be assessed with regard to

1. representation and condition (e.g. critical or rare landform-vegetation types),
2. diversity (e.g. high species diversity, surficial geological features),
3. ecological functions (e.g. hydrology, core areas, contiguity of natural areas, connectivity, interior habitat, natural disturbances, old growth forest),
4. special features (e.g. rare species/communities, specialized habitats, areas recognized for other initiatives (IBI, PSW, ANSI), significant wildlife habitat),
5. cultural heritage values (e.g. archaeological sites, aboriginal sites of interest, historic values)
6. sustainable recreational / traditional use values (e.g. recreational areas, traditional outdoor recreational uses, control of access, wilderness protection),
7. natural and cultural heritage appreciation (e.g. infrastructure, local educational/interpretation/demonstration sites), and
8. research (e.g. long-term research or monitoring plots, research re: protected areas priorities)

Any information that can assist in this assessment would be greatly appreciated.

Finally, we are required to conduct additional field work within 120 metres of the Project within the Provincial Park. Can you please either provide permission to conduct this work by our field ecologists or advise regarding the process to obtain that access permission?

Thank you very much in advance. Your urgent attention to this matter would be greatly appreciated. Can you please ensure that any response in this email is copied to the circulation list (specifically Melissa Straus).

I am looking forward to working with you once again (and much sooner than I had originally anticipated when you changed positions within MNR.

Take care.

Sincerely,

Chris

Chris Powell, M.A.

Project Manager / Environmental Planner

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Powell, Chris

From: Nix, April (MNR) [April.Nix@ontario.ca]
Sent: Friday, March 25, 2011 11:55 AM
To: Powell, Chris
Cc: Wyatt, Valerie; Thornton, Ian (MNR); Hagman, Ian (MNR); Drabick, Ron (MNR); Jong, Catherine (MNR); Sanders, Erin (MNR); Marnie Dawson; Adam Rosso; Yagi, Anne (MNR); Harkins, Erin (MNR); Dixon, Rebecca (MNR)
Subject: Samsung GREP - Feautre 66 - Wetland identificiation
Attachments: Plantation Wetland Features.shx; Plantation Wetland Features.dbf; Plantation Wetland Features.prj; Plantation Wetland Features.sbn; Plantation Wetland Features.sbx; Plantation Wetland Features.shp

Chris,

As per the Ministry's comments regarding the GREP NHA, concerns were raised regarding potential wetland inclusions that were not identified as wetland features within the NHA report within the plantation Feature 66. Based on the field visit on March 15th Ministry staff did observe that there are wetland inclusions within the 120 meter of the project location, and that parts of the access road are proposed in the easterly portions of the wetland features. With respect to the one wetland feature onsite identified by Stantec (MAM2-10) at the northern perimeter of lakeshore road, the wetland appears to extend easterly across the area of the proposed access road. I have attached a shapefile indicating the wetland features, as identified by MNR staff within the plantation.

The boundaries identified in the attached shapefile are a draft conservative estimate of the wetland features. In order to accurately map the wetlands in this area, the plantation should be revisited and re-evaluated between mid spring and fall. The feature boundaries, which have been underestimated, flow in a southeasterly direction originating from the westerly edge of the eastern hedge feature. Based on the Ministry's review of the plantation area the wetland features are biologically contiguous. Hydrologically the majority of the wetland areas are flowing westerly toward the provincially significant wetland Wardell Creek Mouth (LET 2) with small portions flowing easterly toward the presently Locally significant wetland, Evan Creek (LET 3). Although small portions of the wetland features flow easterly, the biological connections and distance to LET 3 would dictate that these features should be complexed with the wetland to the west, the provincially significant wetland Wardell Creek Mouth (LET 2). These features need to be identified within the site investigation report and evaluated within the evaluation of significance report.

Ministry staff also reviewed the ELC work completed by Stantec to support the delineation of these draft boundaries. A review of the ELC notes for feature 66 (within Appendix E of the NHA) indicated two areas listed as "CUP 3-12*" one visit was completed on October 11 and the other on December 22, 2010. With respect to this information, please note:

- The visit completed on October 11 is labelled Feature 67 yet bundled with Feature 66 data, was completed from the roadside.
- The visit completed on December 22, 2010 would be hard to identify vegetation species and wetland features if area was snow covered.
- The planted hardwood component was identified as "ash" (*Fraxinus*) not Green ash.
- ELC cards do not include mention of any shrub species or if so it is very difficult to distinguish what has been written.

In terms of evaluating the feature, based on the current project layout parts of the project location are proposed within the wetland(s) and as such an OWES evaluation would need to be completed.

Alternatively if the access road could be re-located so that it is not within the identified wetland features, including those along the eastern edge of the property, then the wetland characteristics assessment could be completed.

If you have any questions or wish to discuss, please let me know.

April

April Nix
Renewable Energy Planning Ecologist

Ministry of Natural Resources, Guelph District
1 Stone Road West
Guelph ON, N1G 4Y2
(P) 519-826-4939
(F) 519-826-6849
email: april.nix@ontario.ca

Powell, Chris

From: Nix, April (MNR) [April.Nix@ontario.ca]
Sent: Thursday, March 31, 2011 10:42 AM
To: Powell, Chris
Cc: Marnie Dawson; Adam Rosso; Hagman, Ian (MNR); Thornton, Ian (MNR); Harkins, Erin (MNR); Dixon, Rebecca (MNR); Jong, Catherine (MNR)
Subject: Samsung GREP - SWH additional clarification

Hi Chris,

So in addition to the comments regarding the NHA, Ministry staff provide the following additional feedback in response to the inquiries regarding certain specific types of wildlife habitats. I've organized this additional clarification into 2 parts to better reflect how it would fit within the NHA.

1. Evaluation of Significance

This approach would allow utilizing evaluation criteria focused on wildlife habitat attributes relevant to the completion of an EIS. This method is applicable where a wildlife habitat is treated as significant and the proponent proceeds to an EIS. This evaluation would provide the relevant information to fully assess the attributes of the wildlife habitat.

Amphibian Breeding Ponds:

With respect to amphibian breeding ponds Ministry staff would accept the evaluations for these habitats as significant subject to the following:

- The project location is proposed (adjacent) within 120 metres of the candidate significant wildlife habitat (amphibian breeding ponds).
- Each habitat is separately identified and delineated (mapped) within the Site Investigation Report and carried forward into the Evaluation of Significance Report.
- The habitat(s) are treated as significant within the Evaluation of Significance Report.
- All information pertaining to the species that are (or may) be using the habitat that is available is provided.
- Habitat descriptions are provided as part of the evaluation outlining the function and attributes of each feature. It is recommended that this analysis use the criteria for identifying amphibian breeding ponds from the SWHTG.

Rare Vegetation:

With respect to rare vegetation species/ communities, Ministry staff would accept the evaluations for these habitats as significant subject to the following:

- The project location is proposed within (adjacent) 120 metres of the candidate significant wildlife habitat (habitat of a rare veg. species)
****Where the project location is proposed within natural features complete evaluations of significance and mitigation will need to be completed and submitted as part of the NHA.*
- Candidate significant wildlife habitats are separately identified and delineated within the Site Investigation Report and carried forward into the Evaluation of Significance Report.
- The habitat(s) are treated as significant within the Evaluation of Significance Report.
- Habitat descriptions are provided as part of the evaluation outlining the function and attributes of each feature in relation to the rare vegetation species. It is recommended that this analysis use available

criteria/ rationale from the SWHTG where applicable other available sources of habitat information such as ELC and/or NHIC are also incorporate.

Bird Habitats:

With respect to the multiple types of candidate significant wildlife (bird) habitat, Ministry staff note that further clarification is required for a number of bird habitats as outlined in the Ministry's comments regarding the NHA, including for:

- Landbird Migratory Stopover Habitat
- Habitat for Provincially Rare (S1-S3) species and SC species.
- Raptor Nesting Habitat (woodland nesting hawks) separate from Area Sensitive song-birds)
- Raptor Wintering and Roosting Areas
- Waterfowl Nesting and Stopover/ Staging Habitat
- Colonial Nesting Bird Habitat
- Each natural feature (wildlife habitat) needs to be separately identified, described and delineated (mapped) within the Site Investigation Report. Where wildlife habitat meets the feature based criteria of the SWHTG and is within 120m of the project location it is then carried forward to evaluation of significance.
- The studies necessary for evaluating the significance for these types of habitats should examine the wildlife use of the specific habitat. Therefore abundance and diversity of wildlife species using the habitat needs should be determined during the evaluation of significance.

However; Ministry staff would accept the evaluations for these habitats as significant subject to the following:

- A thorough analysis using the criteria from the SWHTG identifies candidate significant wildlife habitats are separately identified and delineated within the Site Investigation Report and carries these features forward into the Evaluation of Significance Report.
 - For example for landbird migratory stopover areas the feature based criteria that should be examined should include:
 - size of site
 - habitat diversity
 - Sites with a variety of habitat types (e.g., forest, grassland) are often more significant than sites with homogeneous habitat.
 - historical use of site
 - location of site
 - Sites within 5 km of Lake Ontario and Lake Erie
 - Those along the shoreline are most significant.
 - relative importance of the site
 - Significant sites may be one of only a few in the planning area; therefore abundance of large woodlands in the planning area are a consideration and the if there are many large woodlands, the best representative and diverse woodland habitats should be selected as Candidate SWH.
- The habitat(s) are treated as significant within the Evaluation of Significance Report.
- Habitat descriptions are provided as part of the evaluation outlining the function and attributes of each feature in relation to the landbird migratory stop over areas. It is recommended that this analysis build on the available criteria/ rationale from the SWHTG. Some information regarding methods for setting up an appropriate procedure for assessing bird habitats are available within Birds and Bird Habitats – Guidelines for Wind Power Projects

2. Environmental Impact Study

As significant natural features (wildlife habitat) are within 120m of the project location an EIS must be completed as required under Section 38 of O. Reg 359/09

- identify and assess any negative environmental effects of the project on a natural feature, provincial park or conservation reserve;
- identify mitigation measures for any negative environmental effects on a natural feature, provincial park or conservation reserve;
- describe how the environmental effects monitoring plan addresses any negative environmental effects; and
- describe how the construction plan report addresses any negative environmental effects

Amphibian Breeding Ponds

Based on the initial review of the NHA and discussions to date with Samsung/ Stantec mitigation measures that could be utilized to address negative environmental effects on significant wildlife habitat (amphibian breeding ponds), should include:

- A setback of at least the dripline from the significant wildlife habitat where it is also a significant woodland feature or the dripline plus an additional area (preferably for a 10m setback in total) from the significant wildlife habitat where it is also a significant wetland.
- A vegetated buffer is established within the setback.
- Additional information on erosion/ sediment tools/methods being implemented beyond the installation of silt fencing.
- Boundaries of natural features will be marked/ staked by qualified personal (OWES certified for wetlands) and setbacks will be measured from the staked edge prior to construction commencing.
- Additional information will be provided regarding culvert locations. Culverts will be designed to mitigate potential impacts to surface water flow and mitigate potential impacts to wildlife habitats and wildlife movement, including for amphibians. At a minimum, a general culvert design should be provided within the EIS.
- Monitoring proposed within the EEMP should be expanded to include other amphibian species beyond frogs (i.e. salamanders). Monitoring should include the establishment of baseline (pre construction) conditions, as well as post construction monitoring. All monitoring must be completed during appropriate seasons and under appropriate conditions.

Rare Vegetation

Based on the initial review of the NHA and discussions to date with Samsung/ Stantec mitigation measures that could be utilized to address negative environmental effects on significant wildlife habitat (rare vegetation), should include:

- A setback of at least the dripline from the significant wildlife habitat where it is also a significant woodland feature or the dripline plus an additional area (preferably for a 10m setback in total) from the significant wildlife habitat where it is also a significant wetland.
- A vegetated buffer is established within the setback.
- Additional information on erosion/ sediment tools/methods being implemented beyond the installation of silt fencing.
- Boundaries of natural features will be marked/ staked by qualified personal (OWES certified for wetlands) and setbacks will be measured from the staked edge prior to construction commencing.
- Contingencies (relocation/ replanting) will be included within the EIS should rare vegetation be discovered during construction outside of identified natural features.

Birds

Potential impacts to these habitats could include behavioural changes or the avoidance of the habitats due to turbine locations. As such mitigation measures that could be utilized to address negative environmental effects on significant wildlife habitats for birds needs to include:

- Monitoring proposed within the EEMP should be expanded to include a monitoring plan to assess the function of the wildlife habitat. Monitoring should include the establishment of baseline (pre construction) conditions, as well as post construction monitoring. All monitoring must be completed during appropriate seasons and under appropriate conditions.
- As the purpose of these studies will be to assess behavioural or avoidance effects from the turbines around these habitats, the procedure developed for baseline (preconstruction monitoring) needs to be repeatable for post construction monitoring. Please note that the required mortality monitoring does not cover the monitoring for these habitats.
- As an example, for significant land bird migratory stopover areas it is recommended that monitoring include spring (early March – mid June) and fall (mid Aug – Oct) preconstruction monitoring and 3 years of post construction monitoring for each feature.
- Construction adjacent to these features would be phased so that no construction activities occur until the preconstruction monitoring is completed.

If you have any questions or wish to discuss let me know,

Cheers,

April

April Nix
Renewable Energy Planning Ecologist
Ministry of Natural Resources, Guelph District
1 Stone Road West
Guelph ON, N1G 4Y2
(P) 519-826-4939
(F) 519-826-6849
email: april.nix@ontario.ca

Meeting Notes



Stantec

Samsung Grand Renewable Energy Park

Meeting with MNR to Discuss Comments Re: NHA/EIS Confirmation

Date/Time: Wednesday, April 20, 2011 / 2::30 pm

Place: MNR Office, 1 Stone Road West, Guelph, ON

Next Meeting:

Attendees: April Nix, MNR (AN) Adam Rosso, Samsung (AR)
Erin Harkins, MNR (EH) Marnie Dawson, Samsung (MD)
Heather Riddell, MNR (phone) (HR) Chris Powell, Stantec (CP)
John Boos, MNR (phone) (JB)

Absentees: Anne Yagi, MNR

Distribution: Attendees
Larry Galajda, Stantec
Rob Nadolny, Stantec

No.	Item	Action By
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1	Introductions	
----------	----------------------	--

2	Approach to identifying Migratory Bird Stopover Habitat	
----------	--	--

CP reviewed approach taken and table prepared / circulated in preparation for this meeting. While overall use by migratory birds is anticipated to be low for this area, based on known concentration areas (research papers, Stantec birders), no specific data / counts exist for specific features in the Study Area. Hatch data provides general use only (not feature based).

JB advised that the approach / table taken is acceptable, and suggested that further consideration be made to reduce the number of features (currently 13) to identify the "best representations" in the area – largest, most diverse, closest to the Lake.

Stantec to review and update table

CP suggested eliminating those beyond 2 km from the Lake given number of large, diverse features in the Study Area. MNR agreed. Goal is to identify those that are most likely to be used by a significant # / diversity of birds.

With respect to Feature 42, a more rigorous review / assessment of the feature boundaries appears to suggest that it could be split into 2 separate features (woodlands, migratory bird stopover areas)

One Team. Infinite Solutions.

**Samsung Grand Renewable Energy Park
GRCA/LPRCA Update and Permit Discussion Meeting**

Page 2 of 6

No.	Item	Action By
	<p>since the area immediately north of Bains Rd consists of small, coniferous trees within the nursery. As such, the north half of this feature, where Turbine 53 is proposed within the plantation, would be >2 km from the Lake. As such, it would no longer be considered SWH for migratory birds.</p>	
3	Feature 42 and 66 – Turbines proposed within plantations	
	<p>Since Feature 42 is no longer considered SWH, the Project is no longer considered within SWH. As such, further detailed field investigations and full evaluation of significance (EOS) is not required.</p>	
	<p>Feature 66 is one of the best examples in the area due to its size, diversity and proximity to the Lake. CP questioned the use of MNR’s ‘ecoregion criteria’, which include only naturalized plantations within migratory bird stopover habitat, and whether the young, immature, mixed plantation could therefore be excluded from the SWH. JB advised that the criteria have been updated to include grasslands and other communities (including immature plantations) and therefore the draft cannot be used (no longer application). AN advised that MNR cannot rely on draft guidelines (i.e. the updated ecoregion criteria not yet released for public review) and therefore, the definition of SWH for migratory landbirds that uses ‘woodlands’, as described in the SWHTG, is the applicable document. Therefore, the plantation cannot be excluded from the SWH.</p>	
	<p>CP reviewed the proposed ‘modified’ EOS approach outlined prior to the meeting, as circulated, whereby we assume significance and provide additional field data as MNR is reviewing the NHA/EIS for confirmation. Weekly data could be forwarded to MNR during the review to justify the EOS of this feature where Turbine 32 is located to provide ‘scope’ field support for the determination of significance.</p>	
	<p>JB advised that MNR’s modified approach for ‘assuming’ significance is only applicable where the Project is located adjacent to, but not within, the SWH feature. Acceptance of Stantec’s modified approach in this case would be contrary to guidance provided to other Projects, and may create precedence that would not be acceptable to the MNR. AN noted that similar discussions / approach have been discussed for the Summerhaven Project and MNR response has to be consistent.</p>	<p>MNR to discuss acceptability of the modified approach and advise</p>
	<p>HR questioned what would happen if we found a significant number / diversity of birds, suggesting it would be too late to mitigate</p>	

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	<p>impacts of a turbine in SWH. CP suggested that turbines are not precluded from SWH and even if a significant number of species were identified, mitigation measures to minimize impacts would not change since we are assuming that the feature is significant. Based on monitoring data at other sites, impacts on migratory birds is limited, and the option for operational mitigation in cases where impacts are observed would be reserved and outlined in the EEMP.</p>	
	<p>HR suggested that having a turbine within SWH for migratory birds would not look good. AR suggested that the comment was unfair. MD noted that Ostrander has 7 turbines within an IBA and it was approved by MNR. Similar conditions do not occur in this area.</p>	
	<p>JB noted that Ostrander has a significant amount of field data to justify the location, although the actual impacts have not been determined since it has not yet been constructed. He suggested that in order to proceed with the turbine within feature 66, a full EOS (including spring and fall migratory data) would be required. MNR to discuss (as described above).</p>	<p>MNR to discuss and advise</p>
	<p>CP suggested the option of restoration / compensation elsewhere adjacent to Feature 66, which would offset the loss of plantation for migratory birds. The goal of the restoration would be to provide a net benefit to the SWH. CP also noted that impacts and mitigation cannot be considered through REA until EOS is complete – limitation of the process.</p>	
	<p>AR questioned what would stop a landowner from cutting the trees in the plantation. AN suggested that the municipal tree by-law, carbon credit trees and stewardship council funding agreements for specific plantations may limit the ability to do so.</p>	<p>Stewardship Council to be contacted</p>
4	Pre- and Post-Construction Monitoring Program	
	<p>CP reviewed the brief table outlining proposed / anticipated monitoring that would be required by MNR for this Project, as circulated prior to the meeting. AN noted that additional details would be required to expand on the methods, frequency, duration and location of proposed monitoring in the EEMP.</p>	
	<p>AN noted the difference between behavioral impacts (avoidance, habitat changes) and mortality impacts (thresholds) of the turbines / Project, requesting that the EEMP clearly differentiate between the 2 monitoring programs.</p>	<p>Stantec to clarify in EEMP</p>
	<p>Migratory Landbirds - JB suggested that a minimum of 3 visits per week to the SWH adjacent to a turbine would be the minimum effort</p>	<p>Stantec to amend</p>

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	<p>anticipated, not once per week as suggested. Ostrander included 4 visits per week, although turbines were in the feature. There is no need to monitor disturbance resulting from other Project components (i.e. solar, collectors, transmission lines).</p>	<p>workplan and add details to EEMP</p>
	<p>Mortality surveys dictated by bird and bat guidelines. These are separate from the disturbance monitoring described above. AN noted that the EEMP should make commitment by Samsung discuss operational mitigation measures with MNR if thresholds are reached, the specifics of which are not to be set out in the EEMP but rather “to be discussed with MNR” (i.e. adaptive management approach)</p>	
	<p>AR noted that the implementation of operational controls (i.e. during migratory period(s) should be discussed with Samsung senior staff so they are aware of this requirement.</p>	
	<p>Area Sensitive Breeding Birds – JB noted that no monitoring would be required for woodlands supporting areas sensitive breeding birds unless the Project was proposed within corresponding SWH. JB noted that plantations would not be considered a component of the SWH, although large adjacent woodlands could be SWH. As such, the Project (wind, solar, transmission) is not located within areas sensitive breeding bird habitat so no disturbance monitoring is required.</p>	<p>Stantec to revise delineation of area sensitive breeding bird habitat.</p>
	<p>With respect to area sensitive grasslands, if any are considered SWH, monitoring should be completed where turbines are located adjacent to large natural grasslands (if any). JB confirmed that active hay fields are not considered SWH, although are relevant for bobolink (separate issue – ESA not NHA/EIS). Large CUM or low use pasture land may qualify for SWH for grassland species.</p>	<p>Stantec to review grasslands and exclude hay fields (if applicable)</p>
	<p>Winter raptor habitat – CP noted that Stantec has undertaken additional winter raptor surveys to document use and identify concentration areas within the Study Area. ANT noted that it was completed without MNR direction / involvement. CP noted that concentration areas were identified (ex. # of raptors observed >5), which may be considered SWH. Further evaluation currently in progress.</p>	
	<p>JB questioned what was meant by raptor monitoring would be completed for the entire Study Area. CP clarified that we would focus on concentration areas, but also monitor the remainder of the study area to determine whether populations have shifted elsewhere following construction (changing crop uses or turbine</p>	<p>Stantec to provide details in the revised NHA/EIS</p>

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	<p>induced behavioral impacts to be considered). The intent was to ensure that if numbers decreased in the areas that we could advise whether it was a shift in patterns or a decline in species.</p> <p>Amphibian Breeding – CP noted that impacts to amphibian breeding are not anticipated as a result of turbine operation or operation of the access roads. JB agreed. CP noted that all access roads have been amended to avoid crossing features (except existing road in Feature 22 – no vernal pools). Impacts of access roads adjacent to wetlands will be mitigated during construction through BMPs, E&S, etc.</p> <p>AN noted that turbine noise has been identified by some groups to effect breeding success, and questioned JB whether MNR was concerned with this potential impact. JB was not concerned or aware of this issue. JB noted a study regarding impacts of traffic noise on amphibian breeding, which showed an impact (4-lane highway), but the same level of noise does not occur with turbines. All agreed that noise from turbines is not a real concern (no evidence to suggest impacts).</p> <p>CP proposed that amphibian monitoring would only be required where the Project was proposed (a) within SWH for amphibian breeding or (b) where the Project was proposed between 2 features (i.e. vernal pool and woodland). MNR agreed.</p> <p>CP suggests that no amphibian monitoring would be required for solar lands, where a 30 m naturalized buffer has been proposed. JB agreed but suggested that if any functional impacts are anticipated (i.e. change in hydrology / flows to wetlands) then monitoring should be done to confirm.</p> <p>CP noted that amphibian mortality associated with access roads was not anticipated given the infrequent traffic and time of day when maintenance vehicles would be using the access roads. EH noted that depending on the width, access roads can be barriers for some species where substrate changes (soils to gravel). JB noted that depending on width, they can be a barrier for some species. CP noted that access roads are generally proposed adjacent to features, and amphibians would be crossing roads to access an active farm field (not another feature).</p> <p>CP confirmed that previous discussion with MNR identified need for wildlife culverts to allow for safe access across the roads (protect against mortality from traffic and other species). CP noted that these culverts were not being proposed everywhere but only where</p>	<p>Stantec to amend EEMP</p> <p>Stantec to identify locations for wildlife culverts</p>

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	roads were proposed through a feature (i.e. where movement was anticipated). Access roads have now been realigned to avoid new crossings of woodlands, although there may be some cases that would still warrant wildlife culverts (case by case basis). MNR agreed with approach.	within NHA/EIS
	AR questioned whether these could be installed after construction or whether they were required during construction.	MNR to discuss and advise
	CP requested whether any additional disturbance monitoring would be required. MNR confirmed none were anticipated.	
	General – AR questioned what would happen if behavioral changes are identified post-construction, for example where migratory bird counts decrease from pre-construction levels. How can MNR be certain that the reduction / avoidance is caused by the turbines and not some other reason. JB suggested that it would be extremely difficult to prove causal impacts. Science does not exist to suggest that there will / will not be behavioral impacts as a result of turbines, which the monitoring is therefore intended to document. N operational windfarms in Ontario that are undertaking disturbance monitoring for SWH. JB noted that the data would have to be scrutinized and a significant change would have to occur for any link to be made to the turbines.	
5	Next Steps	
	Stantec to continue working on the revised NHA/EIS, with anticipated delivery to MNR over the next 2 weeks (early May)	

The meeting adjourned at 4:30 p.m.

The foregoing is considered to be a true and accurate record of all items discussed. If any discrepancies or inconsistencies are noted, please contact the writer immediately.

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Stantec

May 18, 2011

April Nix, Renewable Energy Planning Ecologist

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**Reference: SPK Grand Renewable Energy Park
Natural Heritage Assessment/Environmental Impact Study**

2. Confirmation that the evaluation of the significance or provincial significance of the natural features was conducted using applicable evaluation criteria or procedures established or accepted by the MNR, as amended from time to time.
3. Confirmation that the MNR agrees that the Project is not in a provincial park or conservation reserve.

Please feel free to contact me via the information below if you have any questions or concerns regarding this information.

On behalf of Samsung, Pattern Energy and KEPCO, thank you for your continued attention to this matter.

STANTEC CONSULTING LTD.



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Attch.: NHA/EIS, MNR Comment Table and Alternative Site Investigation Information

- c. Heather Riddell, Planning Ecologist, MNR
Adam Rosso, Samsung Renewable Energy Inc.
Marnie Dawson, Samsung Renewable Energy Inc.

Project Name: Grand Renewable Energy Park (GREP)
Proponent: Samsung Renewable Energy Inc.
Consultant: Stantec
Date Received: Feb 1, 2011

***** Please make the following revisions to the sections and figures identified with the NHA, Environmental Impact Study and Environmental Effects Monitoring Plan. Comments of a general nature, are included after the table.**

Overview - Summary of Comments/ Concerns:	
<ul style="list-style-type: none"> • Additional detail is required pertaining to the rationale/ criteria and analysis used to support the identification of candidate wildlife habitats within the records review and site investigation reports. • Landbird migratory stopover areas have not been identified or evaluated for the project, and this must be addressed to meet the requirements of Section 26-28 and 38 of O. Reg 359/09. • Clarification regarding the inclusion of rare (S1-S3 ranked) species and Special Concern species is needed through the NHA. • Additional information regarding James N. Allen Provincial Park is necessary to address the requirements of Sections 25 and 38 of O.Reg 359/09. • Information submitted as part of a physical site investigation must include all of the required information from Section 26(3) of O.Reg 359/09. • Alternative site investigations appear to have been completed for parts of the project location; the required information for an alternative site investigation needs to be provided as per Section 26(3) of O.Reg 359/09. • Limited ELC vegetation (fall surveys), rather than 3 season identification period to account for plants species associated with the spring and summer growing periods were completed. As such, some candidate wildlife habitats may have been overlooked, particularly since parts of the project location are proposed within natural features. • Staff have concerns regarding the identification, delineation and evaluation of wetland features within 120m of the project location; the use of ELC information to identify these areas; whether boundaries have been mapped according to OWES; and the application of the Wetland Characteristics Assessment for REA projects to evaluate these features. • Additional detail regarding proposed mitigation measures to prevent negative impacts to natural features where the project location is within and/or adjacent to features is needed. 	

Section	Page #	Wording/ Topic	Comments	How/ Where Concern was Addressed (Comments by Stantec, May 19, 2011)
Section 3.0 Records Review				
3.0	3.1	Constructible area	Ministry staff recommend including a discussion regarding the constructible area concept at the outset of the NHA. This discussion should clarify how this area is established, confirm that the 120m setback from the edge of the project location is from the edge of the constructible area, and describe each of the types of activities that would occur within this area and whether they are temporary or permanent in nature.	A description of the constructible area and how it was established, refined and intended to be used / referenced throughout the NHA/EIS has been added to Section 1.2 (page 1.3). Where required to avoid, minimize or mitigate potential impacts, refinements to the constructible area and a conceptual layout of the laydown and crane pads surrounding a typical turbine has also been added to clarify this concept (Figures 13.1 to 16.8).

Section	Page #	Wording/ Topic	Comments	How/ Where Concern was Addressed (Comments by Stantec, May 19, 2011)
3.2.6 – Wildlife Habitat & throughout NHA	3.10	A compilation of background information on known wildlife use of the Study Area was undertaken. Using this information, a preliminary assessment was conducted to identify wildlife habitat features that may be present in or within 120 m of the Project Location to determine whether the area contains confirmed significant wildlife habitat (SWH) or involves a trigger for candidate SWH.	<p>Many of the descriptions of wildlife habitats currently within the records review do not incorporate criteria identified within the Significant Wildlife Habitat Technical Guide (SWHTG) adequately, please provide additional detail and analysis for:</p> <ul style="list-style-type: none"> • Landbird Migratory Stopover Habitat • Butterfly Stopover Habitat • Habitat for Provincially Rare (S1-S3) species and SC species. • Raptor Nesting Habitat (woodland nesting hawks) separate from Area Sensitive song-birds) • Waterfowl Nesting Habitat <p>These criteria and descriptions should also be utilized to identify potential wildlife habitats that need to be carried forward to Site Investigation.</p>	<p>Criteria from the SWHTG, as well as habitat function and composition information obtained from the Decision Support System, have been added to each of these sections (Section 3.2.6) to assist with identifying potential wildlife habitats within the Study Area. Further discussions regarding how each of these individual wildlife habitats have been addressed are provided in more detail below.</p> <p>Further discussion regarding how these criteria and descriptions were used during site investigation to identify candidate SWH was added to Sections 4.3.4, 4.4.4, 4.5.4.</p>
	3.10	Waterfowl Stopover and Staging Areas, Raptor Winter Feeding and Roosting Areas	<p>Waterfowl stopover and staging and raptor winter feeding and roosting habitats should be discussed separately in the report.</p> <p>The locations of wintering raptors on maps from 1996 should be included as records of habitat, these site specific locations identified within the study area and in relation to the project location need to be assessed on a site specific basis for this habitat as Candidate SWH.</p>	<p>This section was divided to discuss existing records for waterfowl and raptors separately, with specific criteria and descriptions of these habitat features added based on the SWHTG and Decision Support System (Section 3.2.6.1, pages 3.13 to 3.15).</p> <p>The locations of historic short-eared owl sightings from Miles (1996) have been added to Figure 2.2. An assessment of the significance of the habitat within proximity of these sightings has been added to section 4.4.4.4 (page 4.37).</p>
	3.13	Landbird Migratory Stopover Areas	The presence of larger/ extensive forested areas within 5km of Lake Erie can be considered as part of the landscape attributes to support land bird migratory areas. Information regarding these areas should be presented within the records review. Areas should also be identified as candidate significant wildlife habitat within the site investigation report of the NHA and evaluated for significance where the project location is within 120m.	A description of the specific criteria outlined in the SWHTG, as well as habitat function and composition information obtained from the Decision Support System, have been added to recognize woodlands greater than 10 ha in size that occur adjacent to grassland areas and within 5 km of Lake Erie as potential stopover areas for migratory landbirds (Table 4.5 and Section 4.3.4.1, page 4.16).

Section	Page #	Wording/ Topic	Comments	How/ Where Concern was Addressed (Comments by Stantec, May 19, 2011)
	3.14	Migratory Butterfly Stopover Areas	Butterfly stopover habitat, potential habitat exists within this study area as per criteria within the SWHTG which should be identified within the records review. This would include Field/Woodland sites >20ha within 5km of lake Erie. Although no records were found for this habitat it still has the potential to exist within the study area.	A description of the specific criteria outlined in the SWHTG, as well as habitat function and composition information obtained from the Decision Support System, have been added to recognize open fields (grasslands) and woodlands greater than 20 ha in size that occur adjacent to grassland areas and within 5 km of Lake Erie as potential stopover areas for migratory butterflies (Section 4.3.4.1, 4.4.4.1 and 4.5.4.1)
	3.15	Animal Movement Corridors	These features should be considered in relation to identified natural features and wildlife habitats. If deer wintering areas and amphibian breeding habitat are identified for the area then movement corridors for these species should be identified within the NHA and evaluated for significance where required.	Potential movement corridors across the landscape are identified on Figure 9. Potential corridors between features (i.e. as observed at a local scale) that occur along these landscape scale corridors are identified on Figures 10.1 to 12.6.
	3.17	Rare Vegetation Communities	<p>There is at least one plant community identified within the NHIC Bio-diversity Explorer (Graminoid Coastal Meadow Marsh Type) that should be included within the records review. In addition Appendix M of the SWHTG should be referenced as a record for potential rare plant communities for Ecoregion 7E and Haldimand County.</p> <p>Please also include a discussion regarding how Old Growth forests as well as seeps and springs were considered/ identified within this section.</p>	<p>A copy of our NHIC search results were provided to April Nix on March 11, 2011, which was reviewed and confirmed by MNR in an email received March 22, 2011. The Graminoid Coastal Meadow Marsh is the only type of rare vegetation community known to potentially occur within the Study Area based on NHIC data. It was associated with James N. Allen Provincial Park, the coastal area of which occurs outside of the Study Area. Nonetheless, recognition that this community type may occur elsewhere along the Lake Erie shoreline was added to Section 3.2.6.3 (page 3.21). Reference to the existence of 11 rare vegetation community types in Haldimand-Norfolk, as identified in Appendix M of the SWHTG, was also added to this section.</p> <p>Discussion regarding old growth forests and seeps and springs was added to Sections 3.2.6.3 (page 3.22), with recognition that old growth forests are rare in southern Ontario (to be confirmed through ELC) and that seeps/springs may be present.</p>

Section	Page #	Wording/ Topic	Comments	How/ Where Concern was Addressed (Comments by Stantec, May 19, 2011)
	3.17	Area Sensitive Species	This analysis should be broken into two main habitats: Area Sensitive Woodland habitat and Open Country Breeding Bird Habitat. Appendix G should be used in conjunction with Appendix C of the SWHTG for outlining species identified as area sensitive. Appendix Q of the SWHTG, page 350 SWHTG should be used for criteria to delineate these habitats and a description and analysis should be included for each feature within the NHA.	Within the records review, area sensitive species are covered together, with distinction made between the different habitats of grassland and forest species (Section 3.2.6.3, page 3.21). Site investigation results regarding area-sensitive habitat for woodland and grassland bird species are discussed separately in sections 4.3.4.3, 4.4.4.3 and 4.5.4.3. Reference to Appendix G has been added to page 3.21 to account for the 6 additional area sensitive bird species not included in Appendix C of the SWHTG. Of note, our list of area sensitive bird species used to generate Appendix H already incorporated both lists.
	3.17	Specialized Raptor Nesting Habitat	Criteria from Appendix Q page 350 and Table 10-1-3 page 104 of the SWHTG should be used to describe and analyse the study area for this habitat.	Discussion regarding the potential presence of specialized raptor habitat is provided in Section 3.2.6.3 (page 3.22)
	3.18	Species of Conservation Concern	Please include additional detail with respect to Provincially Rare species (S1-S3). The NHIC Biodiversity Explorer may assist in identifying some of these species. Each Provincially Rare / Special Concern species should be described and analysed with linkages made to habitat to support the identification of natural features.	Table 2.2 has been amended to add the provincially rare (S1-S3) species that may potentially be within the Study Area, based on a current list obtained from the NHIC Biodiversity Explorer, which was submitted to the MNR on March 11, 2011 and confirmed to be complete through an email from April Nix (MNR) on March 22, 2010.
3.2.8,	3.20	James N. Allen Provincial Park	Identifying that part(s) of the project location are within 120m of the park boundary should be included within this section. Where projects are within 120m of a provincial park, Ontario parks staff should be contacted directly to obtain additional information pertaining to the values/purpose of the park as a protected area. This information should be identified and discussed within the records review and is necessary to address the requirements within the EIS as per Section 38 of O. Reg 359/09.	Clarification added (page 3.27). Ontario Parks (Melody Cairns) was contacted by email on March 11, 2011 and an "Application to Conduct Research in Ontario Provincial Parks" was submitted on March 22, 2011. Permission to access the Park was provided, however, no additional background information was made available.
Section 4.0 Site Investigation				
4.0 – Methods	Entire section	Identification and mapping of natural features	Each natural feature (woodland, wetland, wildlife habitat, etc.) should have its own unique identifier and be addressed separately throughout the site investigation and evaluation of significance. As currently presented and mapped, multiple natural features are captured within a single "feature #" within the NHA. In addition, the extent of the mapping of natural features is generally limited to the area within 120m of the project location, and should include the entire feature. Please	Feature #'s were used to organize contiguous natural features. Unique identifiers have now been added to all woodlands, wetlands and amphibian breeding ponds, grasslands. These #'s were used, as appropriate, to describe wildlife habitat functions within each feature. References were added all tables and figures in the report. Mapping has been revised so that natural features boundaries are no longer 'cropped' to the 120 m adjacent land area, as requested.

Section	Page #	Wording/ Topic	Comments	How/ Where Concern was Addressed (Comments by Stantec, May 19, 2011)
4.1.1	4.2	<p>Alternative Site Investigation</p> <p>Ministry staff have noted that within the Site Investigation report on page 4.2 of NHA within Section 4.1.1 it states: <i>“Vegetation communities were first identified through aerial photograph interpretation, and review of existing natural features mapping. The Zone of Investigation surrounding the wind infrastructure (turbine locations, access roads and crane pads, excluding collector lines), solar components and some of the transmission line components Zone of Investigation was traversed on foot and physically inventoried. Physical site investigations were carried out from roadside locations for the wind project collector lines, the remaining portions of the transmission line components and their associated 120 m Zone of Investigation due to the very large number of non-participating landowners, and with the understanding that all work for these project components would be restricted to the already-disturbed, existing road rights-of-way”.</i></p>	<p>clarify.</p> <p>Note: comments regarding this concern were provided to Stantec/Samsung in an e-mail dated: Feb 15, 2011</p> <p>Based on this information it would appear that in some areas an alternative site investigation was completed for selected areas of the wind and transmission line project location. The amended O. Reg 359/09 allows for the completion of an alternative investigation of the site only where it is determined that it is not reasonable to conduct a site investigation by visiting the site.</p> <p>Where an alternative investigation of the site was conducted, Section 26(3)7 of O. Reg 359/09 requires the following to be included in the site investigation report:</p> <ul style="list-style-type: none"> • The dates of the generation of the data used in the site investigation. • An explanation of why the person who conducted the alternative investigation determined that it was not reasonable to conduct the site investigation by visiting the site. <p>As such, the site investigation report should be revised to address these requirements. Ministry staff recommend considering the following changes to address the requirements:</p> <p>Section 4.1. – Methods</p> <ul style="list-style-type: none"> • Identify the type of data used to complete aerial photograph interpretation, and review of natural features mapping and the date that any data used was generated • Identify who was responsible for completing this analysis • Where this analysis was complemented with field checks via roadside /fence line surveys, please explain the methods used for the road side /fence line survey(s). • Identify methods of how landowners were approached/ contacted to obtain access to private property. 	<p>Discussion regarding the instances where site investigations and ‘alternative site investigations’ were performed has been added to Section 4.1.1. Additional information with respect to the contact information and level of effort undertaken to secure access permission to adjacent properties has been provided by Samsung, and is attached.</p> <p>This information is to be treated as confidential as it contains personal and proprietary information. As such, the following note is provided in the attachment:</p> <p>“The following information has been provided at the request of MNR to supplement the alternative site investigation, however, contains personal and proprietary information and is to be treated as confidential. It will not form part of the formal REA Application.”</p>

Section	Page #	Wording/ Topic	Comments	How/ Where Concern was Addressed (Comments by Stantec, May 19, 2011)
			<p>Section 4.2. – Results</p> <ul style="list-style-type: none"> • Identify the areas subject to the alternative site investigation methods. This may be best shown on a map and referenced within the report. • To support the determination that it was not reasonable to conduct the site investigation by visiting the site (due to non-participating landowners), please provide: <ul style="list-style-type: none"> ○ List of landowners contacted and contact information ○ Number of attempts, time/date of contact ○ Copies of written correspondence and replies (if available) ○ Results of requests for access to site (landowner responses) ○ Identify the results of the investigation, such as the identified natural features, ELC communities, etc. (Note: It is understood that much of this information may already be within the site investigation report). 	
4.1.4 – Bird Surveys	4.4	Bird studies conducted by Hatch across four seasons between March 2009 and February 2010	Based on the information provided for the various Hatch surveys, these studies do not include all of the required information for a site investigation as required within Section 27(3) of O. Reg 359/09.	Through discussions with MNR, the information provided in the Hatch bird report has been included under the Records Review section of the report Section 3.1.1 and 3.2.6,
4.1.5 Bat Surveys	4.6	Acoustic bat monitoring conducted by Hatch in August and September, 2009.	Recognizing that these studies were completed previously by other consultants in support of the renewable energy proposal, Ministry staff recommend including these studies as records within the records review. Also please identify where they were applied to support the identification of natural features in the Site Investigation Report and/or in support of evaluating natural features for significance within the Evaluation of Significance Report.	The bat monitoring report has been removed from the NHA/EIS Appendices, as discussed with MNR.
4.1.4	4.4 - 4.6	Bird Surveys, including: <ul style="list-style-type: none"> • Spring Migration Surveys • Summer Breeding Surveys (09,10) • Fall Migration Surveys • Over-winter Resident Surveys 	Additional detail is needed describing how each of these surveys inform the site investigation report, for the purposes of identifying candidate significant wildlife habitat. Clarify if additional survey work be required to evaluate these types of features, and the relation between identified features and the project location?	Bird surveys undertaken by Hatch in 2009 and 2010 have been added to Section 3. Breeding bird surveys undertaken by Stantec in 2010 were used for the identification of breeding birds within the various woodlands and grasslands in the Study Area, which identified the presence of species and habitat for area sensitive and declining birds (Section 4.3., 4.4.4, 4.5.4). Winter raptor monitoring data was also collected in 2011 to supplement previous work by Hatch to identify concentration areas within the Study Area (Section

Section	Page #	Wording/ Topic	Comments	How/ Where Concern was Addressed (Comments by Stantec, May 19, 2011)
		Bat Surveys	<p>Please identify where the investigations were completed including: (as part of the summer 2009 breeding surveys) for bald eagle behavioural watch surveys, crepuscular bird surveys and passerine surveys</p> <p>In addition please explain how the Hatch (2009) bat monitoring consider known cave features such as those in the Oriskany Sandstone formation at the northern portion of the study area, or bluff formations along the shoreline of Lake Erie?</p>	<p>4.1.4, 4.3.4,4.4.4 and 4.5.4)</p> <p>Site investigations for breeding bird species that undertaken by Stantec in 2010 are identified on Figure 4. Hatch data is no longer considered 'site investigation; work for the purpose of the NHA/EIS. Additional pre- and post-construction monitoring for bird disturbance and mortality are proposed (EEMP).</p> <p>It is not known how known cave sites were considered by Hatch. However, as discussed in Section 4.3.4.1 (page 4.18), known cave features or potential bat hibernacula were avoided in eth siting of the wind, solar and transmission project components.</p>
4.1.6 and throughout NHA	4.7	Field investigations to identify wildlife habitat located within 120 m of the Project Location were conducted during the vegetation community and vascular plant surveys performed between September and December 2010.	<p>Ministry staff have concerns with the lack of early season flora information provided within the NHA. The review time frame for the collection and identification of plant species should have included a 3-season identification period to account for plants species associated with the spring and summer growing periods.</p> <p>Some of the features were surveyed during the month of December. On this basis snow cover and plant decay would impair the ability to identify herbaceous plants species. This appears to have resulted in an incomplete species listing.</p> <p>Given that parts of the proposed project location are within natural features or are proposed immediately adjacent to natural features the identification of spring-summer flora may have identified additional candidate significant wildlife habitat(s).</p>	<p>The layout of the wind turbines, access roads and collector lines has been amended to avoid encroachment into all significant natural features, with the exception of one plantation (significant woodland). Additional discussion with respect to the rare species potentially found in this area, and their likelihood of occurrence within the Project Location, as discussed in Table 2.2, with specific references provided in Section 4.2.2 where then removal of natural vegetation is proposed (page 4.9).</p> <p>Two turbines were dropped from the proposed plan due to an inability to discount the presence of rare species or other significant wildlife habitat (Turbine 31 and 32).</p> <p>By avoiding the natural features and implementing mitigation measures to protect adjacent vegetation communities, any rare species potentially present adjacent to the project components will be protected. This approach is consistent with the approach recommended by the MNR through correspondence dated March 31, 2011.</p> <p>Additional site investigations were completed within 120 m of any realigned project component (access road, collector line or turbine).</p>

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4.2.5 Wildlife and Wildlife Habitat	4.10	Species of Conservation Concern	Please include additional detail with respect to Provincially Rare species (S1-S3). Each Provincially Rare / Special Concern species should be described and analysed with linkages made to specific habitats to support the identification natural features.	Table 2.2 has been updated to include the rare species identified through a review NHIC data, as well as their habitat requirements and potential presence/absence in or within 120 m of the Project Location.
		Amphibian breeding ponds/ amphibian habitats - salamanders	Please clarify how the work undertaken considered salamanders when identifying candidate significant wildlife habitat(s). Please also include information relating to what was considered as potential salamander habitats.	The identification and assessment of amphibian breeding ponds considered the habitat requirements for frogs and salamanders. Additional details are provided in Sections 4.3.4.3, 4.4.4.3 and 4.5.4.3).
(Results) Wetlands 4.3.2 (Wind), 4.4.2 (Solar), 4.5.2 (TC)	4.11, 4.23, 4.31	<p>Identification and delineation of wetlands and wetland boundaries using ELC and OWES.</p> <p>Based on a review of the ELC field cards provided within the Appendix E, staff have identified a number of concerns with the ELC work completed, including:</p> <ul style="list-style-type: none"> • no soils data • no species composition • some records are unreadable • no spring records are available • species codes are not uniform 	<p>Comments regarding this concern were provided to Stantec /Samsung in an e-mail dated: Feb 15, 2011</p> <p>Ministry staff have concerns with respect to a number of ELC units within 120m of parts of the project location, specifically for ELC units in features 8,14,15,42, 68, 69,73,74,75 and 76. In the Feb 15 e-mail Ministry staff provided a table that identified each of these areas and what additional information is needed to clarify the type of feature present OR whether the Ministry would consider this area as a wetland feature. This information should be reflected within the NHA.</p>	<p>Additional soils investigations were completed for those ELC communities identified as questionable wetlands by the MNR. This information was added to the ELC cards for these features. Figures 10.1 to 12.6, and Figures 13.1 to 15.6, have been updated accordingly.</p> <p>Additional discussion regarding the identification of wetlands within the Study Area through aerial photography and site investigation is provided in Sections 4.3.2, 4.4.2 and 4.5.2.</p>

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		<p>According to table 5.4, Appendix B of the NHA: "A 141 m stretch of road will result in the removal of 0.141 ha of fresh-moist ash lowland deciduous forest (FOD 7-2). This feature was identified as a significant woodland and wetland that supports significant wildlife habitat in the form of valleyland, winter deer yard, amphibian breeding ponds, habitat for area-sensitive forest birds and habitat for forest bird species of conservation concern".</p>	<p>Ministry staff have identified a concern with respect to the proposed access road from turbine 4 to turbine 2 through feature 68.</p> <p>Based on the vegetation information available for this ELC community (FOD7-2) and in the absence of soils and other complete ELC information, it would appear that this area better fits the composition of an ELC wetland community and not a woodland community.</p> <p>Recognising the timelines for the proposed project, Ministry staff recommend that a site visit for this location be organized with Ministry staff to confirm the ELC community for this portion of Feature 68, ASAP. Ron Drabick and Anne Yagi should be contacted to set up a site visit. Ron can be reached at 519-773-4728 or ron.drabick@ontario.ca. Anne can be reached at 519-562-1196 or anne.yagi@ontario.ca</p> <p>Should this site visit confirm that the area is a wetland community, the proposed access road feature would be considered as going through a wetland feature and will require a full OWES evaluation to be completed for the entire wetland feature including complexing.</p>	<p>A site meeting was held with MNR staff on March 15, 2011 to review Feature 69, which was confirmed not to be a wetland. The ELC data card for this feature has been updated.</p> <p>The Project Location in this area has been amended to avoid the need to cross this woodland feature. An alternate access road from the south across existing agricultural fields has been provided, with the collector line being routed westward through an existing residential property to avoid the woodland feature.</p>
<p>Wetlands 4.3.2 (Wind), 4.4.2 (Solar), 4.5.2 (TC)</p>	<p>4.11, 4.23, 4.31</p>	<p>Wetland boundaries</p>	<p>Regarding Feature 10:</p> <p>The proposed access road for turbine 58 near feature 10 crosses a "riparian HR" ELC community. This would appear to be a wetland feature on the eastside of the road while it is unclear on the west side. No ELC data had been provided for the "riparian HR" natural feature. Please clarify.</p>	<p>While an ELC card was completed for this community and originally included in Appendix E, the ELC classification for this community has been amended following discussions with MNR staff on March 15, 2011. This riparian vegetation community has been identified as containing wetland and has added as a separate feature (Natural Feature 90) to the appropriate tables and figures throughout the NHA.</p>

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		Wetland boundaries	<p>With respect to Features 66:</p> <p>Ministry staff note that the access lane for these features crosses a plantation that is riddled with meadow marshes connected to the hedgerow and the swamp at the intersection of the access roads for the two turbines. ELC has only identified the plantation and not the wetland inclusions.</p> <p>Based on the ELC notes, the wetland features should have been identified (the wetland sloughs) separately from the plantation or at least have indicated there were wetland inclusions present. The wetland sloughs should be identified and avoided.</p> <p>The wetland mapping in the woodland directly north of turbine 32 and between the two swamp communities includes an area that has been labelled as CUP 3-2, a white pine plantation. However, in looking at the swoop 2006 aerial photos and the 2010 photos, this area appears very similar in composition to the areas labelled swamp on either side of it. It does not appear this area has been converted to plantation. Please clarify the wetland boundaries in these areas.</p>	<p>A site meeting was held with MNR staff on March 15, 2011 to review Feature 66, which was confirmed to contain small pockets along swales through the plantation that contain wetland species.</p> <p>Site observations, combined with a review of 2006 aerial photographs, were used by the MNR to conservatively map the limits of the wetland features within the cultural plantation, which were received from MNR on March 25, 2011. The boundaries of these wetlands, as identified, have been incorporated onto Figures 10.10 and 13.10, with further discussion provided in Table 5.1 and Section 6.1.31 of the NHA/EIS.</p> <p>In this area, Turbine 32 was dropped and the access road to Turbine 9 was re-routed outside of the cultural plantation to avoid the wetland pockets and make use of an existing, manicured trail through a managed cultural meadow north of the trailer park.</p> <p>Edits to the ELC layer based on site investigations on March 15, 2011 have been made to Figure 6.10.</p>

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			<p>Turbine 9 is within 10m of a wetland swale. There also appear to be two created wetlands (labelled lagoons) within the construction laydown area, based on the 2010 photos. The access road may be within wetland features and no buffering of the natural feature is provided.</p> <p>The proximity of the base of turbine 9, measured from the center, to an adjacent watercourse is about 9m and there appears to be wetland vegetation along this area as well. This turbine is said to be more than 25m from a wetland however Ministry staff have concerns as this would appear to be base on incorrect wetland mapping within the woodland to the west of the turbine. The wetland is located at the extreme west side of the zone of investigation but should have been mapped as extending to the extreme east side of the woodland where the watercourse meets the woodland just west of the turbine base.</p> <p>The identification of features needs to be clarified and adjusted to provide for appropriate setbacks and mitigation measures.</p>	<p>As per comments on-site discussions with MNR staff on March 15, 2011, this swale is a not a wetland due to historic impacts (ploughing, mowing).</p> <p>As identified in the water Report, the swales that drain across the subject property are not considered watercourses under O. Reg. 359/09.</p> <p>As discussed on-site with MNR staff on March 15, 2011, the swamp thicket community originally identified on Figure 6.10 to the west of Turbine 9 actually extends in a narrow band between the CUP3-2 and FOD9-4 communities to the eastern boundary of natural feature. The limits of this wetland have been amended on Figure 10.10 and 13.10 and the location of Turbine 9 adjusted slightly to avoid blade sweep overhanging this wetland community.</p> <p>Mapping completed and incorporated onto Figures 10-12, 13 to 15.</p>
		Evans Creek LSW boundaries	Ministry staff also note that the boundaries for the LSW at Lakeshore Rd have not been corrected. This should have been completed as part of the site investigation. The swoop 2006 and provided 2010 photo's indicate the presence of a dug pond, structures around the pond and manicured lawn. An update of the file using OWES would not have identified this area as wetland given what is visible on the aerial photos. Please complete this analysis for these areas.	The wetland boundaries in this area have been amended to reflect the existence of the open aquatic community (dug pond) and manicured lawn area upstream of Lakeshore Road (Figures 10.10 and 13.10). Text in this regard was also added to Section 4.3.2 (page 4.13).
4.3.4 Wildlife Habitat (Wind)	4.13 – 4.17	Landbird Migratory Stopover Areas Butterfly Migratory Stopover Areas	As mentioned previously in records review, landbird migratory stopover habitat and butterfly stopover habitat are not adequately assessed based on site specific habitats associated with the project location. Please clarify using criteria from the SWHTG and identify candidate habitats.	Additional discussion regarding the identification of candidate migratory stopover habitat for landbirds and butterflies has been added to Sections 4.3.4, with Tables 4.5 and 4.6 created to illustrate how these features were identified.
		Colonial Bird Nesting Sites	Ministry staff note that there are numerous swamp habitats identified during the ELC field work, which could contain colonial bird nesting habitats. Please clarify how these habitats were considered. Further, colonial bird colonies include bank and cliff swallows and gull and tern colonies, do any of these habitat types exist in or within 120m of the project location? Please refer to SWHTG for feature based criteria to be used during Site Investigation.	No known colonial sites are located within the Study Area. Colonial bird nesting sites were looked for during field investigations. While these colonies are easily identified and obvious in the field, none were identified in or within 120 m of the Project Location. Discussion was added to Section 4.3.4.1, 4.4.4.1 and 4.5.4.1

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	4.14	Waterfowl Stopover and Staging Areas	Large wetlands such as swamp and marshes should be considered as candidate habitats and further clarification regarding the identification of potential habitat is needed. Fall roosting habitat in swamp or marsh features would be an example of inland habitats that would be potentially significant for waterfowl. Please clarify if these habitats were considered within the site investigation.	Three candidate waterfowl stopover areas were identified during the site investigation, based on the habitat characteristics outlined in the SWHTG. These features have been added to Figures 10.7, 10.10 and 10.17, with discussion added to Section 4.3.4.1, 4.4.4.1 and 4.5.4.1. All three features were assumed to be SWH.
	4.14	Raptor Wintering and Roosting Areas	Ministry staff have concerns with the area searches completed by Hatch in 2009. The identification of this type of habitat should follow the criteria within the SWHTG. The habitat needs to be delineated first, any historical concentration areas should be included from records review and the habitat analysed to ensure it still meets the criteria within the site investigation report. All candidate wildlife habitats identified in or within 120m of the project location should then be evaluated using proper study methods during the appropriate time of year.	Supplemental winter raptor field investigations were completed in 2011 to identify species use, density and concentration areas within the Study Area (Section 4.1.5.2). The results of these field investigations have been added to Section 4.3.4.1, 4.4.4.1 and 4.5.4.1 and were used to identify concentration areas and candidate SWH (Figure 9, Figure 16).
	4.15	Reptile Hibernacula	Please clarify how rock piles within hedgerows and fence lines were considered for the purposes of identify candidate significant wildlife habitat.	Hedgerows were surveyed for suitable habitat to support hibernacula during the ELC surveys. Soils in this area are not necessarily rocky and therefore rock piles often observed along the edges of agricultural fields in other areas of the Province were not observed within the Study Area. Text added to Section 4.3.4.1, 4.4.4.1 and 4.5.4.1.
	4.15-4.16	Bat Maternity Roosts	Please clarify where the criteria used to rule out potential bat maternity roosts (density of canopy or subcanopy, height of the stand) came from. Based on the assessment of all the woodlots in the study area, for the identified sites within table 4.3 better rationale is required to dismiss these areas as candidate habitat for bat maternity roosts.	Criteria used came from available literature (Fenton, 1970, Kunz and Lumsden, 2003) since there are no MNR guidelines within the SWHTG or other with respect to the identification of bat maternity roosts (page 4.19). Any potential bat maternity roosts identified during field investigations were identified and the Project Location adjusted so that all project components are located more than 120 m from a potential maternity roost.
Wildlife Habitat 4.3.4.2 (Wind) 4.4.4.2 (Solar) 4.5.4.2 (TC)	4.17 4.26 4.33	Animal Movement Corridors	Individual hedgerows do not appear to have been described and discussed at all in this NHA, or included in mapping. Please clarify how hedgerows were considered as part of the rationale for identifying animal movement corridors.	Due to the open landscape of the Study Area, hedgerows do not represent candidate significant animal movement corridors because these features do not provide the sole animal movement corridor in the Study Area (MNR, 2000). Text in this regard was added to page 4.20. Mitigation of potential impacts of the project components on individual hedgerows (specifically for the movement of species) is addressed in the EIS through the protection of existing hedgerows and implementation of wildlife culverts where access roads cross these features.

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Wildlife Habitat 4.3.4.2 (Wind) 4.4.4.3 (Solar) 4.5.4.3 (TC)	4.18 4.27 4.34	Area Sensitive Species	Point Count surveys should be utilized to evaluate candidate significant wildlife habitats within Section 5.0 of the NHA. The identification of candidate significant wildlife habitats for area sensitive species could include incidental observations (where applicable) to support other criteria. Page 103-104 of the SWHTG suggests woodlands >10ha with at least 4 ha of interior habitat or Appendix Q which identifies that woodlands > 30ha with at least 10ha interior habitat be considered. The use of these criteria would be rationalized based on number and size of woodlands in landscape. Each woodland for this habitat should be described, rationalized and analyzed as a candidate significant wildlife habitat using the SWHTG criteria. Please clarify.	Field investigations undertaken for this project are described in Section 4 of the NHA/EIS. In some cases, these field investigations assist with the identification of candidate significant natural features and in others, are used to evaluate significance. Due to a willingness to maximize efficiencies, these field investigations were often undertaken simultaneously. For example, point counts provide a species list (used for identifying candidate SWH) but also additional details to assist with eth evaluation of breeding bird habitat. Additional details regarding area sensitive species have been added to Section 4.3.4.3, 4.4.3.4, 4.5.3.4 and Tables 4.7. Of note, incidental observations made outside of the breeding season should not imply that potential breeding by this species occurs within the habitat where it was observed (i.e. foraging, migratory).
Wildlife Habitat 4.3.4.3 (Wind)	4.18- 4.19	Raptor nesting habitats	Based on the number of raptor observations reported, a number of these woodlands should be considered as candidate significant wildlife habitat for specialized Raptor Nesting habitat. Each of these features should be considered separately from Area Sensitive Songbird habitat and include a description, rationale and analysis. Please clarify.	No specialized raptor nesting habitat was identified during the site investigations. While many raptors were observed in the area, no bald eagle or osprey nests were encountered within 120 m of the Project.
	4.20	Seeps and Springs	Please discuss seeps and springs separately, including information pertaining to the identified feature and its potential as significant wildlife habitat.	A section of seeps and springs is included in Section 4.3.4.3.
Wildlife Habitat 4.3.4.3 (Wind) 4.4.4.4 (Solar) 4.5.4.4 (TC)	4.21 4.29 4.36	Habitat of Species of Conservation Concern – Declining Populations – Grassland Breeding Birds	Field habitats that meet the criteria in App. Q (page 350 and page 104) from the SWHTG should be used in identifying candidate grassland habitats. Each of the habitats that meet the feature-based criteria should be identified separately, and have a description provided that includes the rationale used and an analysis for identify the feature as candidate significant wildlife habitat. Point Count surveys are used during Evaluation of Significance, not during Site Investigation. Bird lists from any previous studies can be used as supporting information but information pertaining to the evaluation of features should be within Section 5.0 of the NHA.	Additional discussion regarding the identification of candidate grassland breeding bird habitat has been added to Sections 4.3.4.3, 4.4.4.3 and 4.5.4.3, with details provided in Table 5.7.
		Other Provincially Rare and Special Concern Species	Please explain how provincially rare and special concern species were considered when conducting the site investigations and whether candidate significant wildlife habitat(s) were identified within 120m of the project location.	Discussion regarding rare species and species of conservation concern is provided in Section 4.3.4.4, 4.4.4.4 and 4.5.4.4
4.4.4.1	4.26	Two Short-eared Owls were observed more than two weeks	Please clarify how the boundaries of this feature were	The grassland area identified on Figures 11.1 and 14.1

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		apart, on December 2 and December 23, 2010, within the 120 m Zone of Investigation northwest of the Solar Project Location.	assigned, and if the full extent of the habitat was mapped. Further, provide the criteria/rationale used to determine the extent of the habitat.	includes the portion of a larger grassland area of at least 30 ha in size located within 120 m of the Project Area. The full extent of these grasslands has been added to these figures.
Evaluation of Significance				
Wetlands 5.1.1 (Methods) 5.2.1 (Wind) 5.3.1 (Solar) 5.4.1 (TC)	5.2 5.12 5.17 5.20	Wetland features not evaluated by MNR were assessed using a method for wetland Rapid Assessment developed by MNR (December 2010) to provide a set of evaluation criteria focused on wetland attributes relevant to the completion of an Environmental Impact Statement (EIS) for renewable energy projects. The criteria to be evaluated are presented in Appendix C of the <i>Natural Heritage Assessment Guide for Renewable Energy Projects</i> (MNR, December 2010).	<p>The evaluation should be identified as the “Wetland Characteristics and Ecological Functions Assessment for Renewable Energy Projects” from the Natural Heritage Assessment Guide. The use of the wording <u>Wetland Rapid Assessment</u> refers to another wetland evaluation protocol not related to Renewable Energy.</p> <p>A review of Stantec’s interpretation of the Wetland Characteristics and Ecological Functions Assessment for Renewable Energy Projects found that the areas where they had proposed a standardized approach using “high med low” values should be changed to a statement of values and in some cases the inclusion of presence/absence values where applicable.</p> <p>This should be addressed in Appendix “B” Table 5.1 Rapid Assessment of Significance for Wetlands.</p>	<p>The title and all references to “wetland rapid assessment” has been revised in the text and tables of the NHA.</p> <p>Table 5.1 has been amended to address concerns raised with respect to the “high med low” values assigned by Stantec. The intent was to provide a qualitative description of the individual functions provided by each wetland, as documented in Section 5.1.1. Nonetheless, our approach to the completion of the wetland characterization has been amended to address specific MNR direction.</p> <p>Table 5.1 has been amended to provide further clarification of the characteristics of each wetland community by expanding on the information contained in the table.</p>
		Where the wetland communities extend outside of the 120 m, they were included in the Rapid Assessment to ensure accurate documentation of the features and functions. Only wetland communities contiguous with those inside the 120 m Study Area were assessed.	<p>According to this statement all contiguous units should have been assessed, which was the case for the areas identify within the solar project location and zone of investigation. However with respect to the wind and transmission corridor project locations and zone of investigation, it appears from the mapping that contiguous wetland units were not assessed fully, only the area within the 120-meter adjacent lands. Please clarify.</p> <p>With respect to wetland mapping on the significant natural features mapping (Figures 13 -15), the PSW and LSW boundaries should be shown in addition to the renewable energy significant wetlands.</p>	<p>These mapped wetlands have been revisited, using 2006 air photos and amended accordingly. All contiguous wetlands are identified on Figures 10-12 and 13-15.</p> <p>Existing MNR mapping (PSW, LSW) has been amended and illustrated on Figures 13 – 15, as appropriate.</p>

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		Flood Attenuation - isolated wetlands;	<p>A number of wetlands have been evaluated as isolated wetlands; Ministry staff recognise that isolated wetlands are a rare occurrence within the southern landscape and after reviewing the wetland evaluations in conjunction with ortho-photography these wetlands should have been identified as palustrine.</p> <p>This should be addressed in Appendix "B" Table 5.1 Rapid Assessment of Significance for Wetlands.</p>	Table 5.1 has been revised to amend the description of 'isolated' wetlands to 'palustrine' wetlands.
5.1.2 (Methods) 5.2.2 (Wind) 5.3.2 (Solar) 5.4.2 (TC)	5.7, 5.12 – 5.13	Valleylands	<p>Please clarify whether the criteria from Natural Heritage Assessment Guide or the Natural Heritage Reference Manual is being applied.</p> <p>Further, the sections regarding the evaluation of significance of valleylands should be expanded out to discuss each valleyland in relation to each criteria to determine whether each natural feature is significant or not. This could be provided in a table. The descriptions provided in the NHA need to link back to the appropriate criteria used for each evaluation of significance.</p>	<p>The evaluation of significant valleylands follows the method outlined in the Natural Heritage Reference Manual (MNR, 2000).</p> <p>Table 4.4 has been prepared to identify candidate valleylands, while Table 5.2 provides a summary of the evaluation of significance for each candidate valleyland on a watershed basis. Unique identifiers for these features have been added to Figure 2.1.</p>
5.1.4.1 (Method) 5.2.5 (Wind) 5.3.5 (Solar) 5.4.5 (TC)	5.7, 5.13, 5.18 5.21	Criteria for determining the significance of deer yards is outlined in the Decision Support System Index #28 (MNR, undated). However, MNR has indicated that habitats used by White-tailed Deer in the Niagara Region differ from those used elsewhere in southern Ontario (A. Nix, pers. comm., December 15, 2010). In the Study Area, winter deer yards are therefore considered to be significant if MNR has identified them as such.	<p>Criteria for determining the significance of deer congregation (wintering) areas within ecoregion 7E and management unit 90A in Guelph District should use the following criteria:</p> <ul style="list-style-type: none"> • Size Class IV (>100 ha) for woodlands • Confirmed wintering deer density • And < 10% of Summer Deer Range. <p>For Management unit 90A in Guelph District the: Total Wintering area = 664ha Total Summer Range = >9000ha</p> <p>Densities can be determined using the Niagara Aerial Deer Surveys provided to Stantec previously.</p> <p>Based on this analysis Features: 7, 31, 32, 47, 81 would be considered as significant deer congregation (wintering) areas. Please also see the attached shape file.</p>	<p>These criteria were added to Section 5.1.4.1 (page 5.8), along with a summary of deer densities estimated to occur within management unit 90A, based on MNR's 2000 data.</p> <p>Section 5.2.5, 5.3.5 and 5.4.5, as well as Figures 13.1 to 15.6 were amended to identify the woodlands considered to be significant deer yards by the MNR that are located within 120 m of the Project.</p>
5.1.4.1 (Method)	5.7	Methods for evaluating significant wildlife habitat.	Feature based criteria are relative to identifying candidate significant wildlife habitats, not for completing evaluations of these habitats. Point Count, Transect, Floristic Studies,	Where available, specific point count data and floristic studies were used to confirm the significant of natural features. Where this information was not readily available,

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			Egg mass/larval counts and Observational Studies completed at the appropriate time of year are examples of methods for evaluating significance of natural features. Please revise and provide additional detail regarding evaluation methods for Bull Frog habitat, Raptor Winter Areas, Turtle Nesting, Area Sensitive Habitats (Songbirds, Grasslands, Raptors), Amphibian Woodland Breeding Habitat and Provincially Rare and SC species. Also please include any addition features identified from revisions to the records review and/or site investigation.	these features were assumed to be significant and the Project layout was amended accordingly to avoid these features. This approach is consistent with the direction provided by MNR on March 31, 2011.
5.1.4.2 (Method) 5.2.5 (Wind) 5.3.5 (Solar) 5.4.5 (TC)	5.9 5.15 5.19 5.21	Amphibian Woodland Breeding Ponds	Please also reference table 5.3 – Vernal pools Evaluation of Significance within this section of the report. The evaluations appear to be based on habitat characteristics only and do not appear to include any species presence/absence information. Were any specific studies for amphibians (frogs, salamanders) completed? Based on the evaluations completed significant woodland breeding ponds are present in features: 8,10, 15, 19, 22, 30, 31, 32, 38, 39, 42, 47, 49, 54, 56, 68, 69, 71, 72, 77	Reference to Table 5.8 has been added (page 5.11). No frog or salamander studies were completed for this Project, as documented in Section 4.1 and the work program approved by the MNR dated August 30, 2010. Figures 13.1 to 15.6 have been amended to identify these vernal pools that occur within 120 m of the Project as significant woodland breeding ponds
5.1.4.3 (Method) 5.2.5 (Wind) 5.3.5 (Solar) 5.4.5 (TC)	5.10 5.14, 5.18 5.22	Animal Movement Corridors	Please identify the source of the criteria being applied, and provide a rationale as to why at least two criteria must be met for features to be considered as significant. Also, each individual animal movement corridor should be discussed in regards to each of the criteria, this could be provided within a table and reference in the body of the report.	Criteria used to identify and evaluated animal movement corridors have been amended in Sections 5.2.5.2, 5.3.5.2 and 5.4.5.2.
Section 5.1.5	5.11	One criteria recommended in the Haldimand County Official Plan was not utilized due to a lack of available information pertaining to managed woodlands, despite requests for this information from the MNR and County of Haldimand.	Please note that while there are managed woodlands that have written management agreements with Trees Ontario and the Haldimand Stewardship Council/Haldimand Woodlot Owners' Association within the study area, none are under agreement with MNR and all previous MNR agreements have expired.	Noted.
5.2.4	5.13	Significant Woodlands – Wind Project Location	Table 5.2 in Appendix B evaluates feature 56 as “not significant”, Ministry staff note that it should be evaluated as “significant” as it has at least 2 ELC communities present and because of proximity to water.	Table 5.2 has been amended – Woodland 56 is considered a significant woodland.
5.5	5.22	Summary of significant natural features	It is noted that Feature 79 is not included within the summary table, although it was determined to be significant woodland. This should be corrected.	Table 5.9 has been amended to include Natural Feature 79 as a significant woodland.

Environmental Impact Study (EIS)

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EIS	Entire EIS	Wildlife in construction areas	<p>What practices will be utilized to prevent wildlife from entering construction areas?</p> <p>For example if construction work occurs within the breeding season for turtles additional barriers (i.e. silt fencing) should be erected around areas of disturbed soils near natural features to discourage turtles from nesting/laying eggs in these areas.</p> <p>If wildlife is discovered within construction areas what practices will be implemented? Please clarify.</p>	Measures to manage wildlife within and around construction areas is provided in Section 6.1.3.4.
6.1.1 6.1.2.1 6.1.2.2	6.2, 6.5 6.5	<p>Description of the Wind Project – Impacts to Wetlands and Woodlands</p> <p>Within 30 m of wetlands, no excavation will take place; the roadbed material will be placed over the existing surface on geotextile material with equalization culverts to ensure no ponding or disruption of surface water flow...</p> <p>Efforts were made to incorporate the current road network at the site to the greatest extent possible. All components of the Wind Project are sited outside wetland boundaries; therefore there will be no direct loss of wetland habitat or function. Potential indirect effects may arise through changes to wetland hydrology during or after construction...</p> <p>Where components of the Wind Project are sited outside significant woodlands, there will be no direct loss or fragmentation of habitat or habitat function. Potential indirect effects may arise through changes to hydrology during or after construction...</p>	<p>Construction has been proposed within 30 meters of identified wetland edges for a number of wetland features, as well as woodland features; in some instances work has been proposed immediately adjacent to the wetland/ woodland edge.</p> <p>Ministry staff have concerns with respect to potential impacts to natural features given the close proximity of project components. Where accesses roads are proposed within close proximity to wetland/woodland edges as a means of preventing impacts to the edges of these features from changes in drainage, soil compaction, etc., options for addressing these concerns could include incorporating: relocating/shifting project components, setbacks from natural features, buffers, enhancing erosion/sediment mitigation, etc.</p>	A review of the Project Layout was completed following our meeting with the MNR on March 7, 2011. Where feasible, the setback between the proposed access roads and the adjacent wetlands has been increased to a minimum of 5 m. Any areas where this setback is less than 10 m, a naturally vegetated buffer will be established to stabilize soils and appropriate E&S controls installed / maintained to minimize potential erosion. Equalization culverts will also be installed to convey flows and avoid any hydrologic impacts. Given the existing agricultural use of the area, with fields actively farmed beneath the dripline of the woodlands / swamps, the measures proposed and outlined throughout Section 6.1 are sufficient to reduce potential impacts on the adjacent wetlands. Even in cases where existing farm lanes/roads exists less than 5 m from a wetland, the new access roads have been shifted to maintain a minimum setback and allow for naturalization of the existing wetland edge (currently farm access or field). Further details are provided in Section 6.1.3 and the individual EIS sections 6.1.4 to 6.1.44.
	6.1	Dewatering from construction	<p>The EIS and related REA reports (where applicable) should commit to ensuring that water pumped during dewatering activities is directed away from natural features and is not pumped directly into wetlands.</p> <p>Further all potential impacts from dewatering activities that could impact natural features should be identified within the EIS and appropriate mitigation provided including those resulting from detailed engineering design.</p>	<p>Text amended to include direction that all water pumped during dewatering will be directed away from natural features and not directly into wetlands (Section 6.1.3.3, page 6.12).</p> <p>In the event that dewatering is required, specific mitigation measures are identified in section 6.1.3.3 (page 6.12).</p>

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	6.2	Turbine laydown (prior to turbine erection) will take place adjacent to the access roads and, along with crane pads with dimensions of approximately 20 m x 40 m, have been incorporated into the Wind Project Location design by designating a 50 m wide “constructible area” for the access roads.	While it is understood that crane pads will be installed within the constructible area please describe how the crane pads will be installed. Are these pads temporary or permanent installations? Is excavation or dewatering required for the installation crane pads? What are potential impacts to natural features from the construction of the crane pads? Please clarify.	Text amended to included description of crane pad construction and duration, including comment that no dewatering / excavation is proposed and crane pads are to be removed following construction (page 6.2). A typical turbine installation plan has been provided in Appendix K.
6.1.2.1	6.5	Potential Impacts Wetlands - indirect effects may arise through changes to wetland hydrology during or after construction.	<p>A review of road layout makes no mention of culvert placement along access roads to maintain wetland hydrology flow in drainage crossing areas. While Table 6.1 does generally identify consideration of equalization culverts in some areas, specific details regarding culverts have not been provided. If flow is disrupted in these areas it could well have an effect on wetlands within the watershed. Please clarify.</p> <p>Culverts should also be considered in relation to mitigating impacts to wildlife habitats and wildlife movement, including for amphibians.</p> <p>Additional site details regarding the placement of culverts along existing and proposed access road should be provided within the EIS.</p>	<p>Equalization culverts have been proposed along all of the access roads where existing swales or watercourses occur to convey flows and prevent flooding. The size and location of these culverts have been determined by our engineers and have been added to figures. Sizing details are also provided in Appendix J.</p> <p>Wildlife friendly culverts have been proposed where a proposed access road crosses between two natural features (page 6.13). Wildlife culverts have not been proposed where access roads run parallel to a natural feature or through agricultural fields. These culverts are intended as mitigation measures where traffic mortality may be anticipated. Due to low traffic volumes, slow rates of speed and daytime use of these roads, overall road mortality is not anticipated to be significant.</p> <p>The location of the proposed access road culverts have been identified on Figures 13.1 to 13.8.</p>
6.1.2.3	6.6	Rare Vegetation Species & Communities	<p>As mentioned previously, Ministry staff have concerns regarding the potential impacts for rare vegetation species and communities, as plant surveys were completed from September – December 2010, and spring-summer flora surveys have not been completed. Particularly for those areas where the removal of vegetation is proposed.</p> <p>Options for addressing these concerns could include: completing spring flora surveys, relocating/shifting project components outside of natural features, setbacks from natural features, buffers, etc.</p>	As noted above, the layout of the wind turbines, access roads and collector lines has been amended to avoid encroachment into all significant natural features, with the exception of one plantation (significant woodland). Additional discussion with respect to the rare species potentially found in this area, and their likelihood of occurrence within the Project Location, as discussed in Table 2.2, with specific references provided in Section 4.2.2 where then removal of natural vegetation is proposed (page 4.9).
6.1.3, et al.	Entire EIS	Commitment to implement proposed mitigation measures	Throughout the EIS it is stated that certain mitigation measures “should occur” under certain circumstances. Please revise the NHA to commit that the proposed	For clarification, the EIS recommendations have been revised to ‘commit’ to the proposed mitigation measures, as suggested (Section 6).

Section	Page #	Wording/ Topic	Comments	How/ Where Concern was Addressed (Comments by Stantec, May 19, 2011)
			mitigation measures “will occur” under those certain circumstances.	
6.1.3.2 et al.	6.9 & Entire EIS	Mitigation and Net Effects <i>If a nest is located, a designated buffer will be marked off...</i>	It is requested that a specific buffer distance be identified within the EIS, or that a protocol for determining the buffer be discussed within the EIS. Please make this change to all applicable sections of the EIS.	The following comments has been added: “To the extent practical, tree and/or brush clearing would be completed prior to or after the breeding season for migratory birds (May 1 to July 23). Currently, construction is planned for fall 2011. However, should clearing be required during the breeding bird season, prior to construction, surveys will be undertaken to identify the presence/absence of nesting birds or breeding habitat. If a nest is located, a designated buffer will be marked off within which no construction activity will be allowed while the nest is active. The radius of the buffer width ranges from 5- 60 m depending on the species. Buffer widths are based on the species sensitivity and on buffer width recommendations that have been reviewed and approved by Environment Canada.”
	6.9 & Entire EIS	Regular monitoring of the limits of clearing will be employed to ensure the objective of minimal disturbance. Should monitoring reveal that clearing occurred beyond defined limits, mitigation action will be taken that could include rehabilitation of the disturbed area.	Please specify what other mitigation actions that would be taken other than rehabilitation of the disturbed area under these circumstances? Ministry staff recommend that if clearing occurs beyond defined limits, mitigation including at a minimum, the rehabilitation of the disturbed area occurs to the pre-disturbance conditions of the site. Preferably the improvement of habitat features is supported wherever possible.	Additional measures include the rehabilitation of the disturbed area to the pre-disturbance conditions of the site, with input from a qualified ecologist. Only species native to Ecoregion 7E will be used (Section 6.1.3.1)
	6.9 & Entire EIS	Rehabilitation of laydown areas	Please specifically identify all areas where reseeded/replanting to natural vegetation is proposed within the EIS. All reseeded/ replanting should use species native to Ecoregion 7E. Preferably these species should also be native to the site/ surrounding natural features.	Section 6.1.3.5 identifies the situations where naturalization or restoring of natural vegetation cover is proposed (page 6.14). These areas are limited to Feature 42 (plantation), hedgerow crossings and buffer areas along access roads within 10 m of a natural feature. Further discussion is provided in each relevant section of the EIS and illustrated in Appendix I.
6.1.5.2 et al.	6.14 & Entire EIS	Management of sediments and erosion from construction...	Are areas adjacent or within to the proposed construction area at risk to sediment/erosion? How have these areas been identified? Are there other mitigation tools proposed to minimize erosion impacts or provide for re-vegetation where erosion does occur in these areas? Please clarify.	Discussion regarding the susceptibility of the Project Area to erosion, based on topography, soils, proximity to natural features, etc., is provided in section 6.1.3.2 (page 6.11). Specific erosion and sedimentation controls recommended for use during construction for this project are identified, the specific selection, location and sizing of which will be completed by engineers during the detailed design process.

Section	Page #	Wording/ Topic	Comments	How/ Where Concern was Addressed (Comments by Stantec, May 19, 2011)
		Project components are planned within the 120 m zone of influence of the amphibian woodland breeding pools.	Proposed mitigation only addresses potential impacts to frogs...please clarify if there are any potential impacts to salamanders and how the proposed mitigation addresses these impacts. Please make these changes to this section and every subsequent section where it is repeated within the EIS.	Potential impacts and proposed mitigation measures are intended to target all amphibians (frogs and salamanders) , with consideration for potential impacts identified in Section 6.1.2.3. No amphibian surveys were completed as part of the NHA/EIS but vernal pools were assumed to provide SWH and were avoided during eth siting of the Project. Wildlife culverts proposed, for example, are intended to provide passage for frogs and salamanders (page 6.13)
6.1.7 Natural Feature 10	6.18	Concerns regarding access road for turbine 58	Proposed access road crosses a “riparian HR” ELC community. This would appear to be a wetland on the eastside of the road, unclear on the west. No ELC data has been provided for the “riparian HR” natural feature. No discussion in table 6.1 regarding use of culverts for this area has been included. Swale exists north of “riparian HR” this does not appear to have been identified or mitigated. Use of culvert would be wise to prevent pooling and maintain hydrology. Please clarify Please also clarify if the access lane beside or replacing the hedgerow in this location.	The existing farm road / culvert measures 6.1 m across, which is wide enough to allow for the construction of a 5 m access road while avoiding the wetland. All works associated with the access road will be located outside of this wetland feature. See details on Figure I-3 and discussion provided in Section 6.1.44. Table 6.1 has been updated to include additional mitigation measures, including the use of equalization culverts. The access road to Turbine 58 will use the existing culvert crossing location and will follow along the west side of the existing hedgerow, which will remain. Only a small section of the hedgerow will be removed where the access road crosses to eth east.
6.1.10 Natural Feature 19	6.25	Concerns regarding wetland delineation in these areas, potential impacts to adjacent features and drainage	Please clarify the extent of the construction/laydown areas and how close they will be in proximity to adjacent natural features. Turbine 24 is within a narrow field 50 – 100m wide, and while Ministry staff recognise that it will be difficult to accommodate a minimum 10m buffer on each side, given potential impacts a buffer is recommended.	Revised constructible area to increase setbacks from adjacent wetland and woodland features. In this case, the constructible area was set at a minimum of 5 m from woodland and 10 m from wetland, discussion of which provided in section 6.1.10 (page 6.34) and illustrated on Figure I-4. Noted. The location of this turbine and associated access road was selected to provide a greater setback from the adjacent wetland to the Project components than the woodland, while ensuring all components occur outside of the wetland. Further discussion regarding the impacts of Turbine 24 and its access roads has been added to Section 6.1.11.

Section	Page #	Wording/ Topic	Comments	How/ Where Concern was Addressed (Comments by Stantec, May 19, 2011)
			<p>Please address whether potential impacts to sensitive / declining species could be affected in this area due to potential interior woodland area reductions by the turbine placement.</p> <p>Please describe in more detail potential impacts to drainage and how specific mitigation measures will be implemented to prevent these impacts.</p>	<p>Turbine 24 will be located within an open agricultural field surrounded by woodland on 3 sides, however, no loss of interior forest habitat will occur as a result of the placement of Turbine 24. Additional discussion in this regard has been provided in Section 6.1.10.</p> <p>The location and sizing of culverts for the access roads have been provided in Appendix J. A culvert has been added near Haldimand Rd 20 where a drainage features flows east to west (Figure I-4) in order to maintain flows to the downstream wetland and to prevent flooding upstream of the access. E&S controls will be installed during construction in this area. Additional details have been added to section 6.1.11.</p>
6.1.12.1 Natural Feature 22	6.31	The location of Turbine 16 appears to be proposed on top of an drain/swale that drains into feature 22 and supports other features through the areas	Please clarify how the impacts from the location of the turbine base being placed on top of a drain/ swale, which flows into feature 22 and supports other adjacent features, is being mitigated to ensure no negative impacts from surface water drainage changes occur?	The location of Turbine 16 has been adjusted to increase separation from this overland flow route (Figure 13.4). Site grading beneath the turbine will ensure that overland flows through this area, with culverts proposed beneath the access road, will continue to be conveyed to Feature 22. Discussion added / clarified in section 6.1.13.3.
6.1.13 Natural Feature 28	6.33	Concerns regarding impacts to surface water flows/ drainage	<p>Clearing appears to be proposed within a low lying wet area within the construction/ laydown sites and within 17m of the turbine base. The swale also wraps around the turbine base location. There is also a swale that crosses the access road and then runs parallel to the access road; it appears part of the access road is on the swale.</p> <p>Please provide additional detail regarding how drainage will be maintained in this area, and how the proposed mitigation methods will be specifically implemented to accomplish this.</p>	Flows currently conveyed by this swale will continue during construction and operation of the turbines. To avoid flooding and disturbance during construction n, this swale will be realigned, seeded and stabilized prior to construction (Section 6.1.14, page 6.44)
6.1.17.2 Natural Feature 34	6.44	Measures taken to ensure the protection of the watercourse that supports Snapping Turtle (Water Assessment Report, Stantec 2011) will ensure the preservation of habitat characteristics needed for Snapping Turtle movement.	As MNR staff do not review the Water Report, please clarify what these measures include.	The project layout has been amended so that no crossing of Feature 34 is required. Therefore, no crossing of the watercourse where historic snapping turtle observations have been reported is required (Figure 13.7)
6.1.22.1 Natural Feature 51	6.55	Distance to wetland feature	<p>Table shows access road (west) within 1m of a significant woodland and overlapping a significant wetland.</p> <p>Report states “Construction is planned within the 120 m zone of influence of the wetland. A minimum 57m setback is planned between the wetland edge and any physical structure on the ground (excluding the turbine blade airspace)”.</p>	Access roads have been amended so that a 1 m minimum setback is maintained from all woodlands and a 5 m setback is maintained from all wetlands. No part of the Wind Project is located in, on or over a wetland.

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			Please clarify	
6.1.30.2 Natural Feature 66	6.71 & Entire EIS	The required 10 m wide construction zone over the 1472 m length of the access road within the cultural plantation component of the woodland will result in the loss of approximately 1.472 ha of woodland, plus 0.028 ha for the turbine base and a temporary removal of 0.49 ha for the 70 m x 70 m crane pad...	Please identify the specific areas where the removal of natural features is proposed. How is the removal of natural vegetation within natural features to be mitigated for the project? Please clarify.	Turbine 32 has been dropped from the Project Layout. As such, no removal of natural vegetation is proposed in this area. Turbine 9 will be constructed within an existing cultural meadow that is maintained (mowed) outside of all natural features (Figure I-12).
		With respect to Turbine 51	Project components are adjacent the wetland, additional mitigation (buffer) is needed. Please also clarify if culverts are proposed for this area to maintain drainage patterns/swales.	The location of Turbine 51 has been amended to accommodate greater setbacks from the adjacent wetland / woodland, while maintaining appropriate structural and noise setbacks. The base of the turbine is located 52 m from the wetland within an existing agricultural field.
6.1.44 Grassland habitats	6.100	No separate unique identifiers for each grassland habitat, insufficient detail for potential impacts and mitigation.	Please provide unique identifiers for each of the grassland habitats identified. Please discuss the potential impact to each feature individually based on the values for each habitat and provide appropriate mitigation for any potential negative environmental effects.	Unique identifiers have been identified for each contiguous grassland feature greater than 30 ha in size (Figures 13.4, 13.5, 13.8, 13.9 and 14.1) the significance of which have been identified and summarized in Table 5.7.
6.1.46 James N. Allen Provincial Park	6.104	James N. Allen Provincial Park	The EIS needs to identify potential negative environmental effects and mitigation of the features, functions, values and ecological integrity of the provincial park as a protected area. An analysis should also include an assessment of the potential impacts of the project on the ability of the provincial park to fulfil its role in the protected area system, the integrity of the protected area as a whole, as well as the features, functions and values associated with the provincial park.	Access to the site was granted by the MNR to supplement our alternative site investigations originally completed along Kings Row. The EIS for James N. Allen Provincial Park, including an assessment of the impacts of the Project on the Park and its ability to fulfill its role in the protected area system (Section 6.1.50).
6.2.1 Description of Solar Project	6.105	A 6m wide berm will be constructed to provide a landscaping barrier for landowners of adjacent residences....	Please clarify whether the berm is to be vegetated and whether native species will be used. Further are there any proposed impacts to natural features from/by the berm?	The proposed perimeter berm will be vegetated with native grasses (page 6.147). The berm is only located within 30 m of a natural feature in two locations (Feature 38 and 40), where it occurs on the opposite side of Haldimand Road 20. Additional details have been added to Section 6.2.1 and 6.2.3. No impacts on natural features are anticipated as a result of the berms.
	6.106	Minimal change from the existing grades is anticipated but some grading will be performed to accommodate the construction of internal solar module access roads. The solar farm land area will be graded by earth moving equipment to the elevations determined by the grading plans (Construction Report, under separate cover).	Please provide additional detail regarding the extent of the grading changes proposed, including an analysis on pre-existing to post-construction conditions.	Additional detail with respect to grading proposed for this site is provided in Section 6.2.1 and 6.2.3.1, with further details to be provided during detailed design.
6.2.3.1 Direct impacts to natural features	6.111	The lands located adjacent to the wetlands will be naturalized to create a vegetated buffer between the wetlands and Solar Project Location.	Please identify areas where naturalized buffers will be added. What species will be used in these areas? How wide is the buffer area? Ministry staff recommend that	Vegetated buffers will be established around Feature 30, 31 38, 39 and 41, with examples illustrated around the O&M building and transformer stations on Figures I6 and I-7.

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– significant wetlands			species native to Ecoregion 7E, preferably these species should also be native to the site/ surrounding natural features should be used.	Discussion is provided in Section 6.2.3.1 (page 6.147)
		No significant grading is proposed on the solar lands and existing drainage patterns will be maintained, ensuring any surface water flows currently draining to the various wetlands will be maintained.	Please clarify how this will be accomplished and the degree of grading proposed.	Additional detail with respect to grading proposed for this site is provided in Section 6.2.1 and 6.2.3.1, with further details to be provided during detailed design.
6.2.3.1 Direct impacts to natural features – significant wildlife habitats	6.113	Two security fences are proposed along the western limit of the Solar Project Location that would cross the identified animal movement corridor between Natural Feature 29 and 30.	Ministry staff have concerns regarding the limitation of wildlife movement to the west from natural feature 30. It is recommended that the fencing be adjusted to maintain both eastern and western movement along these corridors.	A gap in the fence along the access road is proposed to accommodate east-west deer movement through the site while maintaining security of the solar project components.
6.2.3.6 and 6.3.3.6 Erosion and Sediment Controls	6.117 and 6.141	Appropriate erosion and sediment controls should be employed during all phases of construction to minimize the potential deposition of silt and sediment within the receiving systems as a result of site grading works.	Please clarify what the specific erosion and sediment control measures are to manage silt and sediments as a result of grading/ construction.	Erosion and sediment control options are outlined in Section 6.2.3.6, with the specific measures to be designed and sited by engineers during detailed design.
6.3.4 Net Effects	6.141	With respect to the Collector Substation, a minimum setback of 31 m will be maintained from the adjacent wetland and woodland (Natural Feature 30). The O&M facility will maintain a 30 m setback from the wetland and woodland feature (Natural Feature 38). The buffer areas between these facilities and the natural features will be naturalized with native plant species intended to be maintained as a 30 m vegetated buffer zone in perpetuity.	Please identify areas where naturalized buffers will be added. What species will be used in these areas? How large is the buffer area? Will the entire 30/31m setback be replanted? Ministry staff would recommend that native species to eco region 7E, preferably to the local area should be used.	The entire buffer area will be vegetated with species native to Eco region 7E (See Figure I-6).
Environmental Effects Monitoring Plan				
2.1	2.1	Purpose of EEMP	Ministry staff recommend that the mortality monitoring of the EEMP be in a separate plan and the disturbance monitoring proposed be included part of the EIS.	Noted.
2.2.3 2.2.4 2.2.5	2.5 – 2.8	Breeding and Grassland Bird Surveys, Amphibian Breeding Habitat, Wetland and Woodland Hydrology	Each of these proposed monitoring initiatives/ plans warrant further consideration and revisions based on additional details/ revisions to the NHA.	Pending
2.2.1	2.2	Page 2.2 “Mortality monitoring within minimally-vegetated portions (i.e., Visibility Classes 1 and 2 [MNR, 2010a]) of a 50 m search area radius from the base of 30% (21 of 69) wind turbines” –	30% of 69 turbines should be 23 turbines as a sample size not 21	Of note, 30% of 69 is 21 – 23 represents 1/3 (33%)
	2.3	Followed by periodic checking to determine the rate of removal...	This should indicate that this checking will be done on the same schedule as the carcass searches (every 3-4 days)	Pending
	2.4	Page 2.4 “The overall Ps for the facility will be calculated as the average of Ps1 through Ps9”	Please clarify where the 9 is coming from.	Pending

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		Observed fatalities will be photographed, and the species, GPS coordinates, substrate, carcass conditions, and distance and direction to the nearest turbine will be recorded along with the date, time and searcher.”	The sex and injuries of carcasses also needs to be included within the data collection	Pending
2.2.2	2.5	“Persons handling bat carcasses will take reasonable precautions (e.g., gloves, tools etc.) to protect their personal health.”	Ministry staff recommend including rabies vaccinations	Pending
			Please clarify what data will be recorded in the Se and Sc trials – e.g. species used, visibility class, weather... Please also clarify of how many trial carcasses will be placed at any one time to avoid bias and flooding the system with carcasses.	Pending
3.1	3.2		Ministry staff recommend that the mitigation section for birds should indicate the required number of years of monitoring required (as per the guidelines) should the threshold be reached.	Pending

General Comments/ Observations:

	Entire NHA	Formatting, spelling, etc.	Ministry staff have noticed a number of spelling/ formatting errors within the NHA that should be corrected.	Noted and Revised. Track changes showing the new text added to the NHA/EIS to address comments in this table have been left in the document to assist with MNR’s review.
	Entire NHA	Content pertaining to endangered/ threatened species	Please remove the information pertaining to Endangered or Threatened species and place this information in a separate species-at-risk report that will be provided to MNR under separate cover.	Information pertaining to Endangered and Threatened species have been removed. Recognition that Endangered and Threatened species are beyond the scope of the NHA/EIS remains in the report.

Records Review

3.2.1.1 3.2.1.2 3.2.2	3.3 – 3.4	Soils, Geology, Watershed Conditions	These topics are beyond the scope of what is required for receiving MNR’s confirmation as such Ministry staff would request that these topics be removed from the NHA. Where Geological features are relevant to the identification of natural features please provide this clarification.	These sections have been left in the NHA for information purposes to provide context for the identification of potential wildlife habitat and valleyland features, as follows: <ul style="list-style-type: none"> Area soils data is relevant to the identification of possible wildlife habitat, plant species and overall characterization of the landscape and as such, we feel that this information is relevant to the discussion. The geological information provided provides the context for potential wildlife habitat features to be
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				considered during the completion of field investigations, such as caves or karst topography. <ul style="list-style-type: none"> General watershed information is relevant to the identification of Conservation Authorities to be contacted in accordance with O. Reg 359/09, and more specific information pertaining to local catchments in relation to the overall watershed is relevant for the identification and evaluation of valleylands.
3.2.4.4	3.10	Several of the unevaluated wetlands identified by the MNR, GRCA and LPRCA along the Lake Erie shoreline, lower reaches of the Grand River and various minor tributaries to Lake Erie would also be considered coastal wetlands. These wetlands are identified on Figure 2 (Appendix A) .	MNR has not identified any unevaluated wetlands within the study area; please clarify this statement to reflect this.	Revised to delete "MNR" (page 3.9).
3.2.6.3	3.17	Rare Vegetation Communities	A comparison of orthophotography flown in the early summer of 2010, to the 2006 leaf off orthophotography may have identified additional locations with rare vegetation communities within the study area.	Noted.
3.3	3.21	Records Review Summary	Please expand the summary to include all wildlife habitats identified in the SWHTG that may have linkage to habitat within the study area based on criteria provided within the SWHTG. As presented the list is incomplete and eliminates potential features without proper consideration of criteria or field assessment that would be completed during Site Investigation.	The summary of Section 3 has been amended to include all wildlife habitats with the possibility of occurring within the Study Area.
Site Investigation				
4.1.2 –	4.2	Woodland features were compared to the definition of woodlands provided in O. Reg. 359/09, whereby any land that contained (or appeared to contain) (per hectare) at least (i) 1,000 trees of any size, (ii) 750 trees over 5 cm in diameter, (iii) 500 trees over 12 cm or (iv) 250 trees over 20 cm was considered a woodland in accordance with the REA definition. Treed areas were also compared to the definition of woodland provided in the <i>Natural Heritage Reference Manual</i> (MNR, 2010) and as revised in O. Reg. 359/09 as of January 1, 2011	According to Section 3.2.7 of the NHA Samsung has elected to apply to amended definition of woodlands from O. Reg 359/09. However based on the description of 4.1.2 the original definition from O. Reg 359/09 was applied and then the results were only compared to the amended definition. Please clarify.	Woodland definition in section 4.1.2 has been amended to reflect the definition as amended by O. Reg. 521/10, which is consistent with the definition noted throughout the remainder of the NHA/EIS.
4.1.5	4.6	Bat Surveys	The revised As outlined within the Bats and Bat Habitats: Guidelines for Wind Power Projects (MNR, March 2010) Section 26 of O. Reg 359/09 requires a physical search of the air, land and water within 120m of the Project Location	Revised.

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			to determine...	
4.2.3	4.9	Vegetation Communities: The Winterberry – Buttonbush Mineral Thicket Swamp (SWT2-14*)	The suspected rare community should be confirmed with NHIC staff.	To be discussed later but assumed significant and to be treated as significant for this project.
4.3.4.5	4.22	Wildlife habitat summary	Please expand the summary to include all wildlife habitats identified in the SWHTG that have been identified as candidate significant wildlife habitat in or within 120m of the project location criteria provided within the SWHTG. As presented the list is incomplete and eliminates potential features without proper consideration of criteria or field assessment that would be completed during Site Investigation or prior to completing evaluations of the feature's significance.	The summary of Section 4.3 has been amended to include all wildlife habitats observed within the Study Area for which an evaluation of significance is required.
4.3.6	4.22	Summary of Natural Features - Wind	Please indicate how many/which unevaluated wetlands were identified as part of the site investigation and require evaluations for the Wind Project location and Zone of Investigation.	A total of 149 wetlands were identified during site investigation (Table 5.1).
Evaluation of Significance				
5.1.4.1	5.8	Turtle Nesting Areas Criteria for determining the significance of Bullfrog breeding habitat...	This section is incomplete (and mentions bullfrog habitat under the turtle nesting areas section). Please Clarify	Amended. Turtle and bullfrog habitat discussed separately.
5.2.3 and 5.4.3	5.13, 5.20		<i>There are no Life Science ANSIs located within 120 m and no Earth Science ANSIs located within 50 m of the Wind Project location.</i>	Amended.
5.5.3	5.24		An Environmental Impact Study is required to identify and assess any negative environmental effects and develop mitigation measures to the above-noted significant features that occur <i>in or</i> within 120 m of the Project Location.	Amended.
Environmental Impact Study (EIS)				
6.1.1	6.3	With the following seven exceptions, turbines, access roads and the collection system have been located outside of naturally vegetated areas:	With the following seven exceptions, turbines, access roads and the collection system have been located outside of naturally vegetated areas features :	Amended.
Appendix B, Table 4.3	B.11 B.20	Feature 29 has open water area, likely from abandoned quarry "Edge assessment" listed under Species of Note column	Has an analysis been completed for abandoned quarries? Will this be discussed in a report supporting other APRD requirements? Please clarify if this is correct.	Noted.

Project Name: Grand Renewable Energy Park (GREP)
 Proponent: Samsung Renewable Energy Inc.
 Consultant: Stantec
 Date Received: May 20, 2011

*** Please make the following revisions to the sections and figures identified with the NHA, Environmental Impact Study and Environmental Effects Monitoring Plan. Some other recommendations to improve/enhance the NHA have been provided within a separate section below.

Overview - Summary of Comments/ Concerns:
<ul style="list-style-type: none"> • Further refinement of Winter Raptor Concentration Areas candidate significant wildlife habitats (CSWH) is required and if significant monitoring plans need to be incorporated into the EIS and EEMP • Additional clarification is needed for Feature 42 relating to two CSWHs - declining breeding bird species and woodland amphibian breeding habitat • Revisions are also need to the EIS and EEMP in relation to proposed pre and post construction monitoring and proposed mitigation measures for turtles.

Section	Page #	Wording/ Topic	Comments	How/ Where Concern was Addressed
Required Changes				
4.1.5.2 (SI-M) 4.3.4.1 (SI-W) 4.4.4.1 (SI-S) 4.5.4.1 (SI-T)	4.7, 4.17, 4.32 4.43	Winter Raptor Concentration (Feeding and Roosting) Areas	<p>Site Investigation: The identified candidate habitats need to be refined to sites specific habitats, rather than areas, and should be assigned unique identifiers. An area based approach does not satisfy the requirements O. Reg 359/09.</p> <p>The way this habitat is currently presented within this NHA would suggest that there is potential for direct impacts on the winter raptor habitat as the identified polygon does have parts of the project location within the delineated (area) habitat boundary.</p>	
5.1.4.1 (EOS-M) 5.2.5.1 (EOS-W) 5.3.5.1 (EOS-S) 5.4.5.1 (EOS-T)	5.9 5.16 5.23 5.28		<p>The feature based habitat criteria considered at site investigation for this habitat type includes: woodland/field combination >20ha (minimum), large sites are more sig. than smaller sites, site should not be disturbed (field should be idled or lightly grazed), more significant sites have good perching habitat and fields with less snow accumulation and if there is known information sites with a history of use are more significant.</p>	
6.1.3.4 (EIS) + specific feature adjacent/within (where applicable)	6.13		<p>Further the wintering Short-eared Owl habitat would also be part of this habitat and should be included/ integrated.</p> <p>If the site specific habitats are within or within 120m of project location then they should be identified as candidate SWH within the Site Investigation.</p>	
EEMP Section 2.2	2.2		<p>Evaluation of Significance: Where parts of the project location are <u>within</u> candidate habitat a full evaluation of significance (EOS) is required. Where a Wind Turbine is proposed within 120m of the candidate habitat, a full EOS procedure is required or must be initiated pre-construction, refer to EIS. This will include reporting on the following:</p> <ul style="list-style-type: none"> • A summary of the method/ procedures used to evaluate the habitat; this should include information pertaining to the methods used to complete winter raptor surveys for the habitat(s) and the results of these surveys. • Identify the species associated with each habitat(s) and discuss their habitat requirements. • Name and qualifications of those who completed the procedures • The dates of the beginning and completion of the evaluation • Whether this information meets the criteria and what the determination is regarding the significance of the habitat <p>Where other Project Infrastructure roads, lines, cables, buildings, lay down areas of the project location are <u>adjacent</u> (within 120m) of candidate (winter raptor) significant wildlife habitats, these habitats can be treated as significant and described within the EOS report with detail outlining potential wildlife species expected to use the habitat.</p> <p>EIS: If project Infrastructure is located <u>within</u> a significant (winter raptor) wildlife habitat(s) direct effects to the habitat (loss, fragmentation, etc) and potential behavioural avoidance impacts should be identified and discussed within the EIS. In order to address these concerns mitigation of direct impacts and disturbance monitoring should be identified/discussed within the EIS and monitoring incorporated into the EEMP (i.e. repeat of EOS method post construction).</p> <p>Where sites are <u>adjacent</u> (within 120m) of a wind turbine potential behavioural avoidance impacts are to be identified and discussed within the EIS. In order to address these concerns preconstruction studies are required in order to establish base line information (if an EOS study was not previously completed).</p>	

Section	Page #	Wording/ Topic	Comments	How/ Where Concern was Addressed
			<p>Post construction monitoring should also be identified/discussed within the EIS and incorporated into the EEMP (i.e. repeat of the EIS preconstruction method or EOS study implemented post construction).</p> <p>Habitat specific surveys should include transect based area searches along woodland and fields (including edges/ hedgerows) throughout the habitat area(s). Surveys should occur at least once per week during January and February, and should identify the species observed using each separate habitat(s) and the number of individuals observed. Reports regarding monitoring should be submitted to MNR for review/ discussion on observations and next steps.</p> <p>EEMP: Where sites are in or within 120m of a turbine post construction monitoring is required and should be included within the EEMP. The post construction monitoring program should repeat studies completed as part of the evaluation of significance and/or the preconstruction monitoring completed as part of the EIS.</p>	
4.3.4.3 (EOS-W)	4.24	Feature 42 Amphibian Woodland Breeding Habitat	<p>Site Investigation: Please clarify (map) the extent of the amphibian woodland breeding habitat associated with vernal pool 12. MNR staff recommend the habitat be properly mapped with the vernal pool and surrounding woodland habitat, using the ELC polygons that surround the vernal pool and woodland to delineate the habitat. If this extent of this habitat included parts of the project location a complete EOS is required and additional mitigation would need to be included within the EIS and possibly the EEMP.</p>	
4.3.4.4 (EOS-W) 6.1.19 (EIS-W) 2.2 & 3.2 (EEMP)	4.26 6.56	Feature 42 Habitat for Declining Woodland (bird) Species	<p>Evaluation of Significance:</p> <p>As Feature 42 is identified as a candidate significant wildlife habitat within the site investigation report and parts of the project location are located within the habitat the NHA must include a complete EOS.</p> <p>This will include reporting on the following:</p> <ul style="list-style-type: none"> • A summary of the method/ procedures used to evaluate the habitat; this should include information pertaining to the methods (i.e. site specific point count survey) used to complete declining bird species surveys for each habitat(s) (including timing, duration and intensity) and the results of these surveys. • Identify the species associated with each habitat(s) and discuss their habitat requirements. • Name and qualifications of those who completed the procedures • The dates of the beginning and completion of the evaluation • Whether this information meets the criteria and what the determination is regarding the significance of the habitat <p>EIS: As several components of the project location (wind turbine 53, access road and connector lines) are within the significant wildlife habitat, Section 6.1.19 and Table 6.1 and 6.2 need additional detail/ clarification with respect to potential negative environmental effects due to developing directly within the habitat of declining woodland (bird) species. More specifically this should include:</p> <ul style="list-style-type: none"> • Information about how the proposed development could impact the specific bird species and the function of the habitat for these species. • What and how much habitat will be removed, • How the habitat would be replaced/improved • Whether the development of the project would cause barriers to bird movement, • Whether the woodland would be fragmented <p>EEMP: Behaviour avoidance/ disturbance monitoring for this habitat should be a repeat of point survey methods (EOS method) during post construction monitoring. Where the results of EOS baseline information is minimal, then Ministry staff recommend a pre-construction survey should be re-done to confirm the species use and abundance associated with the habitat (which should be reported in the EIS section of the NHA) prior construction occurring.</p>	
6.1.3.4 EIS	6.14	Protection of turtles and their nests if found/ disturbed during construction.	<p>Similar to the provisions included for protecting the nests of birds during the breeding bird season, Ministry staff recommend including provisions providing for the protection of turtles nests if discovered within the construction area, as well as a commitment to precautionary avoid areas which may contain hibernating turtles are discovered during construction activities in the winter. Some suggested language/ text is provided below:</p> <p><i>“Potential disturbance effects to turtles would be minimized through avoiding construction activities in areas where turtles may be encountered during sensitive periods (i.e. breeding season). While no parts of the project location are located within or adjacent to significant wildlife habitat for turtle nesting or wintering, the project location is adjacent to a number of wetlands (assumed significant for the purposes of this project) and water bodies which turtles may use or be founded within at different times of year.</i></p> <p><i>To the extent practical, construction activities should not occur during the breeding/nesting season for turtles. However, should construction activities occur during these periods, additional barriers (i.e. silt fencing) should be erected around areas of disturbed soils in areas adjacent to wetland/ water course</i></p>	

Section	Page #	Wording/ Topic	Comments	How/ Where Concern was Addressed
			<i>features to discourage turtles from nesting/laying eggs in these areas. Should a turtle nest be encountered a buffer will be established and the nest will be protected from construction activities (such as with a wire cage) and monitored until the nest is no longer active.</i> <i>Precautions will also be taken to avoid any areas that could contain hibernating turtles during construction activities occurring during the winter”.</i>	
EIS – Table 6.1		Table 6.1 – Amphibian Breeding Pools	MNR staff note that there are numerous mentions of direct impact via road mortality. This should be changed to an indirect impact as there are no direct impacts on the habitat specifically as the roads are adjacent to the habitat, and as such mortality to individuals would be considered an indirect effect.	
6.2.3.1(EIS)	6.148	Fencing of solar project	Page 6.148 states that the animal movement corridor between features 29 and 30 “has also been maintained westward, where fencing will remain open along the access road / transmission line (although closed off around the solar project components) to allow movement of larger mammals, as requested by the MNR, while ensuring safety restrictions to the solar panels are maintained”. Ministry staff are encouraged by this commitment, however the “opening” in the fencing does not appear to have been included on the mapping (Figures 11.1,14.1 and I-6). Please clarify the mapping.	
EIS/EEMP		Land bird preconstruction monitoring	Details regarding preconstruction monitoring for significant land bird migratory stopover areas needs to be included within the EIS. Post construction monitoring should be included within the EEMP and describes/ referenced in the EIS.	
		Area Sensitive and Declining Species Habitats	Area Sensitive and Declining Species Breeding Bird habitat - EIS and EEMP does not need to monitor these habitats unless infrastructure is going to be within the habitat, therefore this work should be scoped down to only included those directly impacted habitats, such as Feature 42.	
Other General Recommendations for Consideration....				
Site Investigation Report		Type, composition, attributes, function	Ministry staff acknowledge that this information is provided/included within the NHA to address Section 26(3)2. of O Reg 359/09, however the site investigation report does not specifically identify/summarize the type, composition, attributes, function for each natural feature. The report could be structured differently or include a small table within the text of the report for each feature that provides this information specifically or directs you to where this information is located in the report. This would enhance the clarity of the report, specifically in terms of how Section 26(3)2. of O Reg 359/09 is addressed.	
4.3.4.5	4.27	Table 2.2 – 13 (potential) plant species that could be present in study area....	It is understood that no parts of the project location are located within ELC communities that would serve as potential habitats for these plant species and that the proposed EIS mitigation does address concerns with potential adjacent to habitats supporting these species and that this is acknowledged within the EIS at a high level. However, it is recommended that the site investigation report more clearly identify which features these ELC communities are located within. Further, these features should then be discussed as being located adjacent to the project location within the EOS. Finally the EIS should then recognise these features and identify the measures undertaken to ensure no impacts to rare plant species will occur from the construction of the project (i.e. staying out of features, the proposed setbacks & buffers, sedimentation & erosion controls, etc.)	
4.3.4.3	4.21	Following up with NHIC for identified candidate rare ELC communities	Please ensure that you follow-up and provide the information identified information within the report to NHIC. Copying district staff on any correspondence relating to this is recommended for documentation purposes.	
6.1.31.1	6.92	Collector line associate with T9 &51	Ministry staff note that the collector line is not include with the table for Feature 66 but rather is discussed separately in Section 6.1.45 on page 6.130 of the EIS. As the collector line is adjacent to a identified significant waterfowl stopover area associated with Feature 66, it is recommended that this be clarified within the EIS by including the waterfowl stopover area on the table for Feature 66 on page 6.92 and include a reference that the collector line is address within the another part of the EIS (section 6.1.45). As currently presented it would appear when reading page 6.92 that the habitat and collector line were overlooked/missed in the EIS.	
Site Investigation and EOS		Identification and evaluation of significant wildlife habitat	The organization of information as it relates to the identification of candidate significant wildlife habitat and evaluation of candidate habitats to determine significance could still be improved. Feature or habitat based criteria are relative to identifying candidate significant wildlife habitat. Other types of studies such as Point Count, Transect, Floristic Studies, Egg mass/larval counts and Observational Studies completed at the appropriate time of year are methods for evaluating the significance of candidate habitats. The criteria to be confirmed as part of the evaluation of significance are related to abundance and diversity of wildlife inhabiting a candidate significant wildlife habitat. Evaluation of Significance methods for confirming significant wildlife habitat need to follow proper procedures and include better/ more detailed descriptions about the characteristics of the feature that make it significant. This would allow for a more apparent link to the mitigation and monitoring proposed within the EIS and how it relates to the specifics of habitat and species using the habitat to provide descriptions of potential negative effects to the habitat and its function.	
EEMP		Organization of the EEMP	Ministry staff would prefer that post construction monitoring proposed to address EIS behaviour/disturbances effects be presented separately within the EEMP from required mortality monitoring programs for birds and bats.	

Friedl, Susanne

From: Boos, John (MNR) <john.boos@ontario.ca>
Sent: Thursday, June 23, 2011 4:35 PM
To: Powell, Chris
Cc: Taylor, Andrew; Nix, April (MNR); m.dawson@samsungrenewableenergy.ca
Subject: RE: Samsung - Winter Raptor Results

Chris,

In reality there are lots of wildlife habitats in a Landscape but only the best representative sites are significant as described in the SWHTG. Therefore if the site you have identified is the largest, best representative and you have determined numerous species using and a species of conservation concern, this is good work. As mentioned there are lots of habitats, but if the description does not meet the criteria then they are not considered significant sites. The significant sites are the ones that provide a stable habitat based on present land uses, these are sites where high fidelity will be realized.

Therefore if your descriptions of the habitat and species use have followed the SWHTG, there should be no problem in supporting your findings.

Regards,

John Boos
Renewable Energy Field Advisor - Biologist
705-755-1748
-----Original Message-----
From: Powell, Chris [mailto:Chris.Powell@stantec.com]
Sent: June 23, 2011 4:15 PM
To: Boos, John (MNR)
Cc: Taylor, Andrew; Nix, April (MNR); Marnie Dawson
(m.dawson@samsungrenewableenergy.ca)
Subject: Samsung - Winter Raptor Results
Importance: High

John,

Further to my voice message, Andrew and I have reviewed the field results against the candidate features for winter raptors and only 1 of the 3 features seems to support any kind of significant populations. Of over 300 raptors observed during our surveys, only the feature adjacent to the Solar lands would be considered significant (SEOW, RTHA, NOHA, RLHA).

This is a case where the species use doesn't seem to coincide with the habitat descriptions in the SWHTG, and visa versa.

Before submission, we wanted to confirm that this is something that you can support and to discuss the implications for this area. I understand that you are out of the office tomorrow so it would be much appreciated if you could give us a quick call before you leave today.

Chris

GUELPH: 519-836-6050 ext. 295

Chris Powell, M.A.
Project Manager / Environmental Planner
Stantec Consulting Ltd.
49 Frederick Street
Kitchener ON N2H 6M7
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Please consider the environment before printing this email.

Friedl, Susanne

From: Powell, Chris
Sent: Friday, June 24, 2011 6:08 PM
To: Nix, April (MNR)
Cc: m.dawson@samsungrenewableenergy.ca
Subject: SAMSUNG NHA REVISIONS - JUNE 24, 2011

April,

Below is access information for the FTP site within which you will find a complete version of the NHA revised to address MNR's comments dated June 17, 2011. These changes include the following:

1. Revised identification and assessment of winter raptor feeding and roosting areas, which reduced the 'area of concentration' previously identified down to individual habitat features per discussions with John Boos and the SWHTG. Mapping revisions to identify candidate habitat features and to confirm that the one feature is considered SWH for winter raptors has been provided, as well as a new table ("5.NEW" – for now) showing how each feature was evaluated.
2. Additional text describing the extent and composition of amphibian habitat associated with vernal pool 12. As discussed, due to the small size of this feature, mapping revisions were not possible. We trust that the text clarifies the vernal pool habitat and confirms that the plantation area adjacent to Turbine 53 is not part of the breeding habitat
3. Additional information pertaining to the specific declining bird species observed within feature 42a and how the loss of 1.74 ha of plantation will not affect these species.
4. Added suggested blurb regarding turtle nests during construction
5. Revised impacts associated with road mortality from direct to indirect
6. Revised the solar fence and incorporated comments through discussions / emails with Anne Yagi, including an update to Figure 17 and I6 showing the corrdiro maintained through the solar farm for deer
7. Updates to the EIS monitoring requirements (pulled from EEMP)

We trust that this information is sufficient to provide the letter of confirmation for this Project. The final version of the report will be cleaned up and references checked, figures and table numbering confirmed and other formatting will be improved. A final copy of the final version to be circulated to the public will be provided to the MNR.

If you have any questions, please give me a call.

Thanks,

Chris

From: CORPFTP@temp.stantec.com [mailto:CORPFTP@temp.stantec.com]
Sent: Friday, June 24, 2011 5:08 PM
To: Powell, Chris
Subject: Stantec FTP Confirmation - SAMSUNG NHA REVISIONS - JUNE 24, 2011

Your request has been successfully created.

Please use the automatic login link below to access your site. You have also been provided a manual link, username and password in case your computer disables the automatic login link.

NOTE: FTP Sites are not included in Stantec daily backups and are only intended to be used as a means of transferring large files between offices, clients, etc.

Automatic Login

FTP site link: <ftp://s0708150811:7835660@ftptmp.stantec.com>

By clicking on the link above (or pasting the link into Windows Explorer) you will be automatically logged into your FTP site.

Manual Login

FTP link: <ftp://ftptmp.stantec.com>

Login name: s0708150811

Password: 7835660

Disk Quota: 2GB

Expiry Date: 7/8/2011

If your site has not expired and you require a onetime 2 week extension, please contact the [IT Service Center](#).

If you require more than 2 weeks, please request an FTP Project Directory. Information on the FTP Project Directory request procedure is posted in the [StanNet Help Center](#).

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Project Name: Grand Renewable Energy Park (GREP)
Proponent: Samsung Renewable Energy Inc.
Consultant: Stantec
Date Received: Feb 1, 2011

***** Please make the following revisions to the sections and figures identified with the NHA, Environmental Impact Study and Environmental Effects Monitoring Plan. Comments of a general nature, are included after the table.**

Environmental Effects Monitoring Plan				
2.1	2.1	Purpose of EEMP	Ministry staff recommend that the mortality monitoring of the EEMP be in a separate plan and the disturbance monitoring proposed be included part of the EIS.	Noted. The intent of including both mortality and disturbance monitoring is to create a standalone document that can be used by those implementing the monitoring recommendations. The different components are clearly identified within the EEMP. The content and format of the EEMP, as submitted and revised, is consistent with previously approved EEMP documents.
2.2.3 2.2.4 2.2.5	2.5 – 2.8	Breeding and Grassland Bird Surveys, Amphibian Breeding Habitat, Wetland and Woodland Hydrology	Each of these proposed monitoring initiatives/ plans warrant further consideration and revisions based on additional details/ revisions to the NHA.	The EEMP has been amended to reflect changes in the layout of the Project, evaluation of significance and impact assessment included in the NHA/EIS. Specifically, amphibian monitoring has been removed (as it was determined through changes in the layout and consultation with MNR that impacts would not be anticipated). As well, migratory bird disturbance monitoring has been added for those SWH along the Lake Erie shoreline that occur within 120 m of a turbine. There are 4 significant migratory bird stopover features within 120 m of a proposed turbine, with multiple transects proposed where multiple turbine grouping are located adjacent to the feature.
2.2.1	2.2	Page 2.2 “Mortality monitoring within minimally-vegetated portions (i.e., Visibility Classes 1 and 2 [MNR, 2010a]) of a 50 m search area radius from the base of 30% (21 of 69) wind turbines” –	30% of 69 turbines should be 23 turbines as a sample size not 21	Of note, 30% of 69 is 21 – 23 represents 1/3 (33%). With amendments to the Project layout, we are still proposing mortality monitoring at 21 turbines – 30% of 67 = 20.1 (21 turbines)
	2.3	Followed by periodic checking to determine the rate of removal...	This should indicate that this checking will be done on the same schedule as the carcass searches (every 3-4 days)	Clarification added to page 2.3 to confirm frequency.
	2.4	Page 2.4 “The overall Ps for the facility will be calculated as the average of Ps1 through Ps9”	Please clarify where the 9 is coming from.	The document should read: “...average of Ps1 through Ps21”, where 21 is the number of turbines surveyed (page 2.4).
		Observed fatalities will be photographed, and the species, GPS coordinates, substrate, carcass conditions, and	The sex and injuries of carcasses also needs to be included within the data collection	Clarification has been added to confirm that this information will be collected (page 2.4)

		distance and direction to the nearest turbine will be recorded along with the date, time and searcher.”		
2.2.2	2.5	“Persons handling bat carcasses will take reasonable precautions (e.g., gloves, tools etc.) to protect their personal health.”	Ministry staff recommend including rabies vaccinations	Noted. This recommendation will be reviewed in accordance with Stantec’s environmental health and safety policies and any amendments to our “Safe Work Practices” to incorporate this additional level of precaution will be considered.
			Please clarify what data will be recorded in the Se and Sc trials – e.g. species used, visibility class, weather... Please also clarify of how many trial carcasses will be placed at any one time to avoid bias and flooding the system with carcasses.	Clarification with respect to the data to be collected during the Se and Sc surveys has been added to the document (page 2.3) 20 bird/bat carcasses spread over a sub-set of turbines across the large Study Area will not flood the system as suggested, nor will it introduce bias as these surveys are repeated every month and monitored for a period of 2 weeks. This may be a concern within a small Study Area congested with turbines, however, such is not the case with this Project. In addition, more significant carcass availability can likely be found along the various roads throughout the study area.
3.1	3.2		Ministry staff recommend that the mitigation section for birds should indicate the required number of years of monitoring required (as per the guidelines) should the threshold be reached.	Clarification on the duration of monitoring should operational mitigation be required at individual turbines has been added in accordance with the guidelines (see page 3.2).

June 30, 2011

Marnie Dawson
Manager - Renewable Energy Approvals
Samsung Renewable Energy Inc.
55 Standish Court, 9th Floor
Mississauga ON, L5R 4B2

Dear Ms. Dawson,

**Subject: Grand Renewable Energy Park Natural Heritage Assessment and
Environmental Impact Study**

In accordance with the Ministry of the Environment's (MOE's) Renewable Energy Approvals (REA) Regulation (O.Reg.359/09), the Ministry of Natural Resources (MNR) has reviewed the natural heritage assessment and environmental impact study for the Grand Renewable Energy Park in Halidmand County submitted by Samsung Renewable Energy Inc. on June 24, 2011.

The project consists of a 151.1 MW (nameplate capacity) wind project, a 100 MW (nameplate capacity) solar project located on privately owned and Ontario Realty Corporation (ORC) managed lands and a transmission line to convey electricity to the existing power grid. According to subsection 6(3) of O. Reg. 359/09, the wind component of the project is classified as a Class 4 Wind Facility and the solar component of the project is classified as a Class 3 Solar Facility.

In accordance with Section 28(2) and 38(2)(b) of the REA regulation, MNR provides the following confirmations following review of the natural heritage assessment:

1. The MNR confirms that the determination of the existence of natural features and the boundaries of natural features was made using applicable evaluation criteria or procedures established or accepted by MNR.
2. The MNR confirms that the site investigation and records review were conducted using applicable evaluation criteria or procedures established or accepted by MNR, if no natural features were identified.
3. The MNR confirms that the evaluation of the significance or provincial significance of the natural features was conducted using applicable evaluation criteria or procedures established or accepted by MNR.
4. The MNR confirms that the project location is not in a provincial park or conservation reserve.
5. The MNR confirms that the environmental impact assessment report has been prepared in accordance with procedures established by the MNR.

In addition to the NHA, the Environmental Effects Monitoring Plans that address post-construction monitoring and mitigation for birds and bats have been prepared and must be implemented. These post-construction monitoring plans have been prepared in accordance with MNR Guidelines and reviewed and commented on by MNR staff on March 1, 2011.

This confirmation letter is valid for the project as proposed in the natural heritage assessment and environmental impact study, including those sections describing the Environmental Effects Monitoring Plan and Construction Plan Report. Should any changes be made to the proposed project that would alter the NHA, MNR may need to undertake additional review of the NHA.

Where specific commitments have been made by the applicant in the NHA with respect to project design, construction, rehabilitation, operation, mitigation, or monitoring, MNR expects that these commitments will be considered in MOE's Renewable Energy Approval decision and, if approved, be implemented by the applicant.

In accordance with S.12 (1) of the Renewable Energy Approvals Regulation, this letter must be included as part of your application submitted to the MOE for a Renewable Energy Approval.

Please be aware that your project is subject to additional legislative approvals as outlined in the Ministry of Natural Resources' *Approvals and Permitting Requirements Document*. These approvals are required prior to the construction of your renewable energy facility.

If you wish to discuss any part of this confirmation or additional comments provided, please contact April Nix, Renewable Energy Planning Ecologist at 519-826-4939 or at april.nix@ontario.ca.

Sincerely,



Ian Hagman
District Manager
Guelph District MNR

cc. Jim Beal, Renewable Energy Provincial Field Program Coordinator, Regional Operations Division, MNR
Andrea Fleischhauer, (A)Southern Region Renewable Energy Coordinator, Regional Operations Division, MNR
Narren Santos, Environmental Assessment and Approvals Branch, MOE
Chris Powell, Project Manager / Environmental Planner, Stantec

**MOE and MNR Regulatory Requirements for Projects Under
the
Korean Consortium Green Energy Investment**

77 Grenville Street, 9th Floor – Large Boardroom

Agenda

10:00am – 12:00pm Ministry of the Environment's Renewable Energy Approval (REA)
Requirements Discussion (MOE – Lead)

12:00pm – 1:00pm Lunch

1:00pm – 3:00pm Ministry of Natural Resources Requirements Discussion
– KC Properties (MNR- Lead)

All Attendees

- ' [Ing, Pearl \(MEI\) <Pearl.Ing@](#)
- ' [Hagen Lee <hklee@sai.samsl](#)
- ' [Zohrab Mawani <z.mawani@](#)
- ' [Dumais, Doris \(ENE\) <Doris.I](#)
- ' [Mahmood, Mansoor \(ENE\) <M](#)
- ' [Boysen, Eric \(MNR\) <eric.boy](#)
- ' [Cain, Ken \(MNR\) <ken.cain@](#)
- ' [Hayward, Carrie \(MNR\) <Car](#)
- ' [McKeever, Garry \(MEI\) <Garr](#)
- ' [Chander, Sunita \(MEI\) <Sunit](#)
- ' [Zaveri, Mirrun \(MEI\) <Mirrun.](#)
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- ' [Nadolny, Rob](#)
- ' [Kim Sachtleben <kim.sachtel](#)
- ' [Hagman, Ian \(MNR\) <ian.hag](#)

Wyatt, Valerie

Wind Turbine Facilities

Summary of Renewable Energy Approval Requirements

		Class 1 Land Based Turbine ≤ 3kW	Class 2 Land Based Turbine 3 > 50kW	Class 3 Land Turbine >50 kW and <102 dBA	Class 4 Land Turbine 102 to 107 dBA	Class 4 Land Turbine >107 dBA	Class 5 Off-Shore Turbine Facility
Plans & Reports	No REA	X					
	REA Required		X	X	X	X	X
	Project Description Report		X	X	X	X	X
	Construction Plan Report			X	X	X	X
	Design and Operations Report			X	X	X	X
	Decommissioning Plan Report			X	X	X	X
Consultation	Project Notice		X	X	X	X	X
	Meeting Notice(s)			X	X	X	X
	Public Consultation			X	X	X	X
	Municipal Consultation			X	X	X	X
	Aboriginal Consultation			X	X	X	X
	Consultation Report			X	X	X	X
Heritage & Protected Areas	Cultural Heritage Features			X	X	X	X
	Archaeological Features			X	X	X	X
	Natural Features			X	X	X	X
	Water Bodies			X	X	X	X
	Provincial Policy Plans			X	X	X	X
Technical	Wind Turbine Specifications Report			X	X	X	X
	Must meet noise matrix				X		
	Noise Study Report always Required					X	X
	Offshore Wind Facility Report						X
Setbacks & Mitigation	Parcel Boundary Setback			hub height	hub height	hub height	
	Lower Parcel Boundary Setback with Study			blade + 10m	blade + 10m	blade + 10m	
	Road/railway right of way setback			blade + 10m	blade + 10m	blade + 10m	
	Minimum Noise Setback				550 m	550 m	
	Lower Noise setback with Mitigation				road noise	road noise	

Please note the Ministry of the Environment's Approvals Program requires that all undertakings requiring approval under ministry legislation are carried out in accordance with the Acts and applicable Regulations and Guidelines administered by the ministry. For reference purposes this table outlines the information required for wind facilities contained in the Renewable Energy Approval regulation (O.Reg.359/09). Applicants are expected to refer to O.Reg.359/09 and submit applications that contain all the required information. A copy of O.Reg.359/09 can be found at the following website: www.e-laws.gov.on.ca/html/source/regs/english/2009/elaws_src_regs_r09359_e.htm

For more information on the Renewable Energy Approval visit the Ministry of the Environment online at www.ene.gov.on.ca and/or the Renewable Energy Facilitation Office online at www.mei.gov.on.ca/en/energy/renewable/index.php?page=refo_office or by telephone at 1-877-440-REFO (7336)

*Provided by MOE
May 6/2010*



Solar Facilities

Summary of Renewable Energy Approval Requirements

		Class 1: All ≤ 10 kW	Class 2 Roof/wall > 10 kW	Class 3 Ground > 10 kW
Plans & Reports	No REA	X	X	
	REA Required			X
	Project Description Report			X
	Construction Plan Report			X
	Design and Operations Report			X
	Decommissioning Plan Report			X
Consultation	Project Notice			X
	Meeting Notice(s)			X
	Public Consultation			X
	Municipal Consultation			X
	Aboriginal Consultation			X
	Consultation Report			X
Heritage & Protected Areas	Cultural Heritage Features			X
	Archaeological Features			X
	Natural Features			X
	Water Bodies			X
	Provincial Policy Plans			X
Technical	Site-specific Noise Study Report			X

Please note the Ministry of the Environment's Approvals Program requires that all undertakings requiring approval under ministry legislation are carried out in accordance with the Acts and applicable Regulations and Guidelines administered by the ministry. For reference purposes this table outlines the information required for solar facilities contained in the Renewable Energy Approval regulation (O.Reg.359/09). Applicants are expected to refer to O.Reg.359/09 and submit applications that contain all the required information. A copy of O.Reg.359/09 can be found at the following website: www.e-laws.gov.on.ca/html/source/regs/english/2009/elaws_src_regs_r09359_e.htm

Applicants are also encouraged to check with their municipal building department about whether a building permit is required.

For more information on the Renewable Energy Approval visit the Ministry of the Environment online at www.ene.gov.on.ca and/or the Renewable Energy Facilitation Office online at www.mei.gov.on.ca/en/energy/renewable/index.php?page=refo_office or by telephone at 1-877-440-REFO (7336)

*Provided by MOE
May 6/2010*



Renewable Energy Approval Process

Doris Dumais, Director, Approvals Program
Environmental Assessment and Approvals Branch
Ministry of the Environment
May 3, 2010

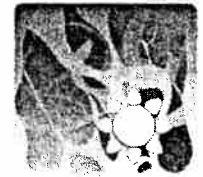
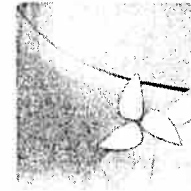
*Provided by
MOE
May 6/2010*

Protecting our environment.



Ontario

This Presentation Will...



Provide an overview of the Renewable Energy Approval (REA) process and requirements for renewable energy projects in Ontario.



Context

- The *Green Energy and Green Economy Act* received Royal Assent on May 14, 2009.
- Renewable Energy Approval Regulation under the *Environmental Protection Act* (O. Reg. 359/09) brought into force on September 24, 2009.
- The Renewable Energy Approval (REA) is a coordinated environmental approval for renewable energy generation projects.



Key Features of the *Green Energy Act*

- Renewable Energy Facilitation Office - One-window contact and advocate for Developers, Coordinate, track, monitor progress of projects
- Feed in Tariff (FIT) – set revenue stream for Developers, REA will be a requirement of their “Notice to Proceed” for the FIT contract
- Renewable Energy Approval (REA)
 - Streamlined environmental approval process for projects with an approval service guarantee coordinated with MOE, MNR, MTO, MTC and Conservation Authorities
 - up front province identification of aboriginal communities that applicants must consult (coordinated with MEI, MNR, MOE, MAA)

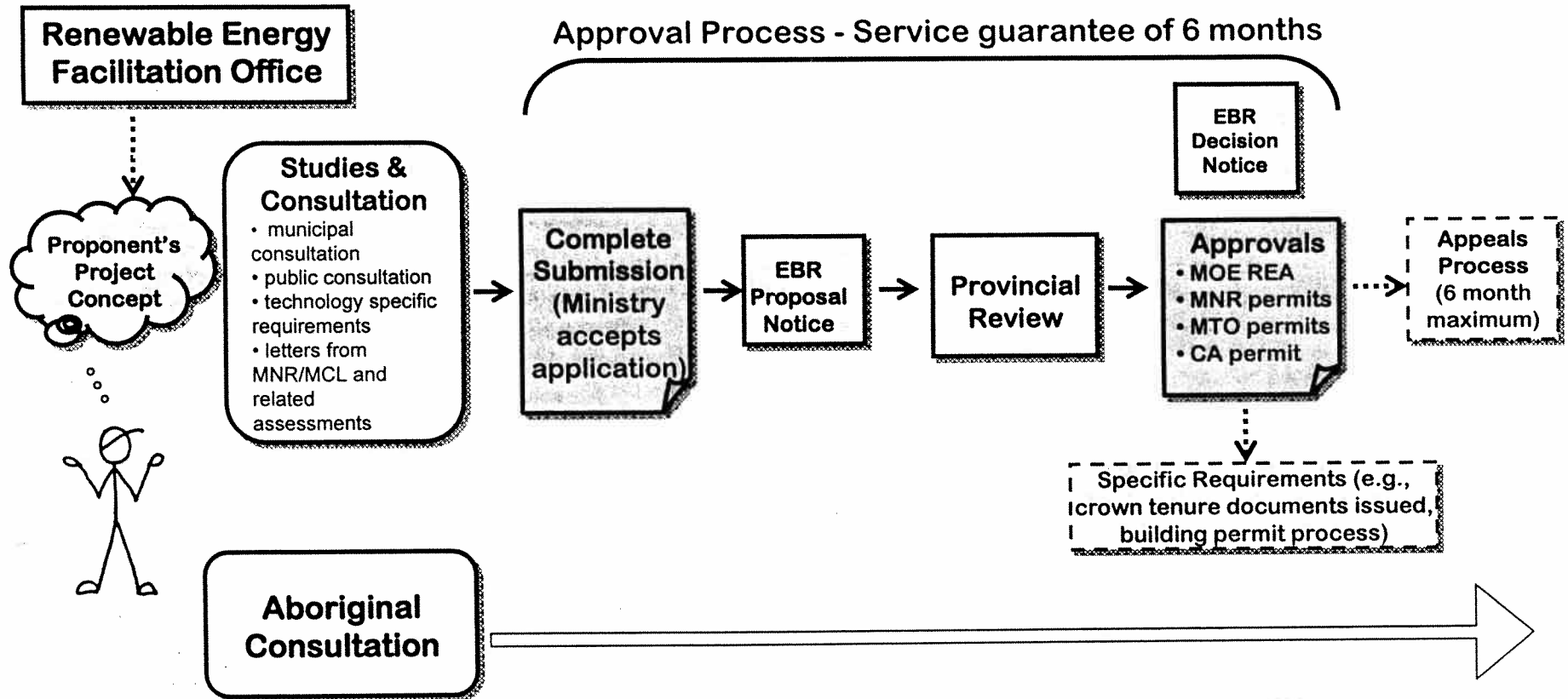


REA Process Principles: Concepts for an Efficient and Effective Approval Process

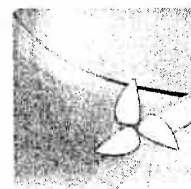
- **Emitter Accountability** as applicants are responsible for their emissions and must meet MOE requirements. A Complete Submission is required in order for applications to be accepted.
- **Regulatory Efficiency** as MOE commitment to approval process review for improvement and enhancement via guidance, screening applications, new ways of doing business and outreach to the regulated community
- **Enhanced coordination** of application reviews through all required ministries and REFO.
- **Focused Review** with MOE staff following an established review standard to produce, review or audit technical information. MOE must demonstrate a fair and consistent approach and hold applicants accountable.



Renewable Energy Approval Process



REA Application Submission Potential Requirements*



- Project Description Report
- Construction Plan
- Design and Operations Plan
- Decommissioning Plan
- Public Notice
- Consultation Report
(including summaries of local
Aboriginal, public and municipal
consultation)
- Cultural Heritage Summary
- Natural Heritage Summary
- Water Bodies Summary
- Provincial Policy Plan
Summary

*Table 1 of Regulation 359/09



What's In, What's Out



- **Wind Facilities**

- Over 3kW but less than 50kW (streamlined requirements)
- Over 50kW (including setbacks)
- All off-shore wind projects



- **Solar Facilities**

- Ground mounted over 10kW
- No approval required for rooftop or wall mounted of any size
- Prime agricultural land restrictions within the FIT contract



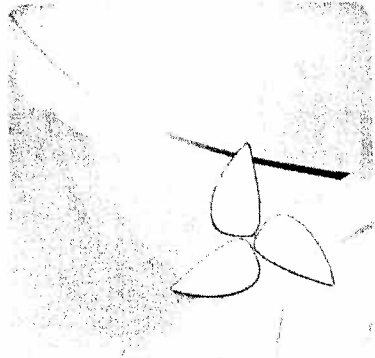
- **Bio-energy Facilities**

- Defined in the Green Energy Act as biomass, biogas or biofuel
- Can be anaerobic digestion or thermal treatment facilities
- No approval required for farm-based operations addressed under the Nutrient Management Act

- **Waterpower Facilities**

- Does not require an REA; existing Class EA and MOE/MNR approvals still apply





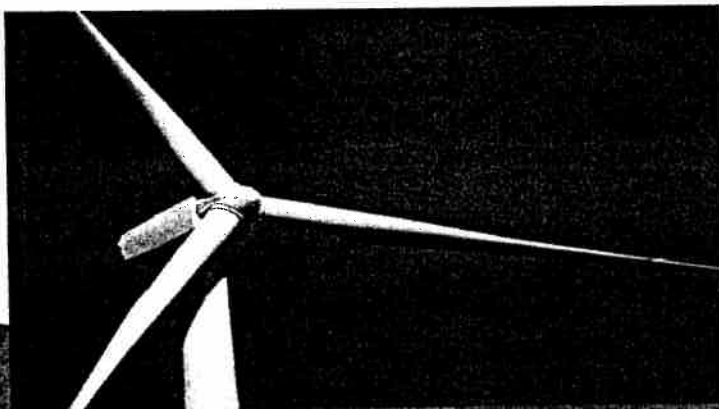
Wind Project Requirements

- REA is required for all wind projects >3kW
- Application requirements (studies, reports as applicable)
- Noise Study
- Receptor setbacks, property and road setbacks
- Natural heritage provisions
 - Development prohibitions – surface water, Areas of Natural and Scientific Interest (ANSI)
- Cultural heritage provisions



Wind Projects Noise Receptor Setbacks

- Applicants can conduct a noise study to move closer than the setback in the matrix, up to a minimum of 550m
- Only exception for the 550m noise setback is demonstrated ambient noise levels due to road traffic that exceeds 40dBA
- The setback does not apply to participating receptors
- A noise receptor is “participating” if a part of the facility is located on their property and there is some kind of agreement between the receptor and the facility owner





Wind Project Noise Matrix



- Provides how far large projects will have to be located from residences and other receptors, including a **minimum setback of 550 m**

Number of Wind Turbines	Setback in metres (m) from closest Point of Reception corresponding to wind turbine Sound Power Levels in decibels (dBA).				
	102 dBA	103 - 104 dBA	105 dBA	106 - 107 dBA	> 107 dBA
1 – 5 turbines	550 m	600 m	850 m	950 m	Noise study required
6 - 10 turbines	650 m	700 m	1000 m	1200 m	
11 - 25 turbines	750 m	850 m	1250 m	1500 m	
26+ turbines	Noise study required				

Proposed setbacks in the noise matrix are consistent with the Ministry of the Environment's *Noise Guidelines for Wind Farms* (October 2008) and the noise level limit of 40 dBA at the Point of Reception regardless of wind speed.

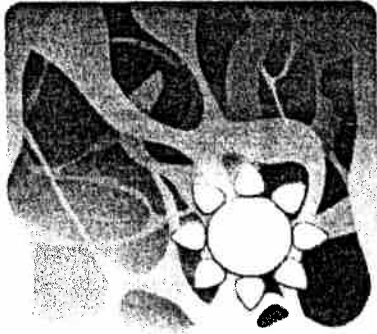
Wind Project Property and Road Setbacks

- Setbacks from property lines equal to, or greater than the hub height (approx. 80m)
 - Applicants can submit a property line assessment to reduce the setback to a minimum of blade length plus 10m
- Setbacks from roads/railways equal to or greater than blade length plus 10 M (approx. 50m)
 - Developed in coordination with MTO



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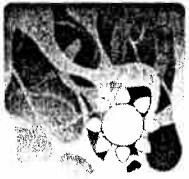




Solar Project Requirements

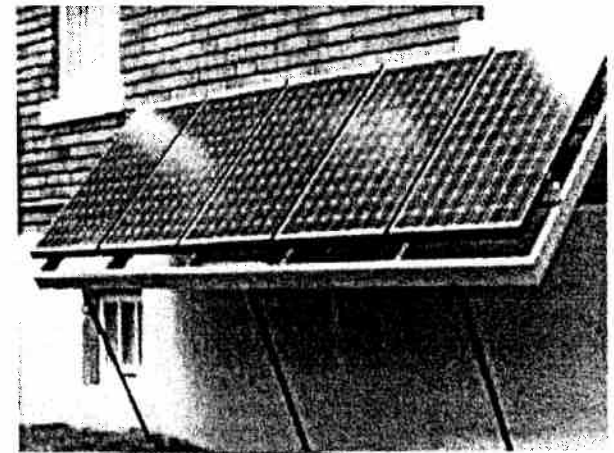
- REA is required for all ground mounted solar projects >10 kW
- Applications requirements (studies, reports as applicable)
- Noise study
- Natural heritage provisions - Development prohibitions – surface water, Areas of Natural and Scientific Interest (ANSI), setbacks from significant woodlots, etc.
- Cultural heritage provisions





Solar Projects Noise Study

- Applicants are required to submit a noise study as part of their application for a REA
- The noise study must assess the potential impacts at nearby receptors (e.g. residence) from sound emitted by electrical equipment (e.g. inverters, transformers)
- The application and noise study is required to demonstrate that the solar facility, as designed, can meet a 40 decibel noise level





Biomass Project Requirements

Anaerobic Digestion Facilities: 3 Classes based on location and types of waste feed material

- **Operational Requirements:**

- Class 1 and 2 On Farm Anaerobic Digestion Facilities**

- 250m from nearest odour receptor; or
 - 125m from nearest odour receptor, if generating ≤ 500 kW, and following 4 Best Mgmt Practices (BMPs); or
 - **No prescribed setbacks, if generating > 500 kW and submit the following studies:** Emission Summary and Dispersion Modelling Rpt; Noise, and Odour Studies

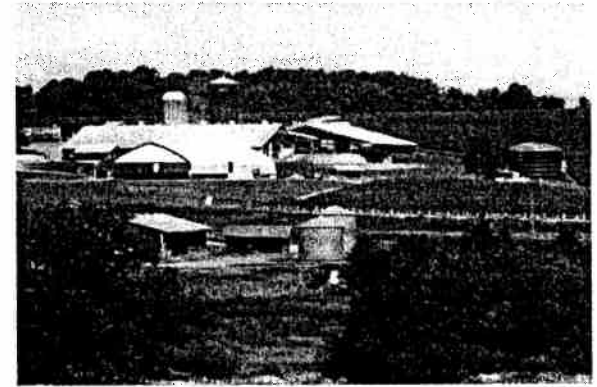
- Class 2 Anaerobic Digestion Facilities must submit:**

- Effluent Management Plan Rpt; Hydrogeological Assessment Rpt; and Surface Water Assessment Rpt





Biomass Project Requirements (cont'd)



Anaerobic Digestion Facilities – Class 3:

Must be designed: With a gas storage cover as prescribed by the regulation and a high efficiency flare system; and

Must submit: Effluent Management Plan Report; Emission Summary and Dispersion Modelling Rpt; Hydrogeological Assessment Rpt; Noise Study; Odour Study; and Surface Water Assessment Rpt

(All Class 2 and 3 Anaerobic Digestion Facilities are subject to Financial Assurance requirements)

Biogas facilities include:

- Generation facilities using biogas produced offsite
- Generation facilities using biogas produced onsite through means other than anaerobic digestion, such as landfill gas capture

These facilities must submit: Noise study; Emission Summary and Dispersion¹⁵ Modelling Rpt; and Odour study





Biomass Project Requirements (cont'd)

Thermal Treatment: 3 classes based on types of feed material and the location

- **Operational Requirements**

Class 1 (woodwaste only, any location) must submit:

Effluent Management Plan Rpt; Emission Summary and Dispersion Modelling Rpt (if not located on-farm); Noise Study (if not located on-farm); and Surface Water Assessment Rpt

Class 2 (any biomass, on-farm) must submit:

Effluent Management Plan Rpt; and Surface Water Assessment Rpt

Class 3 (any biomass, off-farm) must submit:

Effluent Management Plan Rpt; Emission Summary and Dispersion Modelling Rpt; Hydrogeological Assessment Rpt; Noise Study; and Surface Water Assessment Rpt

All Class 2 and 3 Thermal Treatment Facilities are subject to Financial Assurance requirements

Additional Reports



- Depending on the type of renewable energy technology, project size, or other features of the facility design, additional technical reports may be required as part the REA application. These include:
 - Effluent Management Plan Report
 - Emission Summary and Dispersion Modelling Report
 - Environmental Impact Study Report
 - Hydrogeological Assessment Report
 - Noise Study
 - Odour Study
 - Property Line Setback Assessment Report
 - Surface Water Assessment Report
 - Water Bodies Report

Project Description Report



- Describes the scope and scale of the project, environmental impacts expected to be encountered and mitigation taken as part of the project
- Draft report required by the Ministry of the Environment at the beginning of the process to help determine required aboriginal consultation
- Draft report will be the key document throughout consultation with Aboriginal, public, municipal parties.
- Typical content could include:
 - Project description in terms of energy sources, renewable energy generation facility class, project activities, nameplate capacity and land ownership.
 - Description of any potential environmental effects on heritage and archaeological resources, natural heritage resources, local resources and infrastructure and areas protected under the provincial plans and policies.



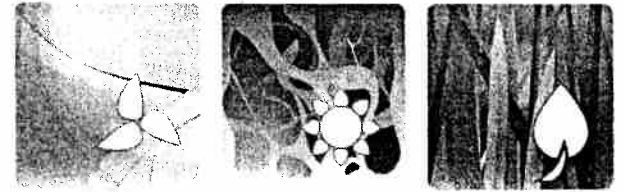
Construction Plan Report



- Describes the construction and installation activities as well as mitigation strategies for any potential negative environmental effects
- Typical content could include:
 - How excavation activities will be conducted to prevent stormwater impacts
 - How dust and noise impacts will be minimized or mitigated
 - How any waste generated during construction will be managed
 - Details on how all generation equipment and construction materials will be transported onto the site
- This is an important draft report for municipal consultation

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Design & Operations Report

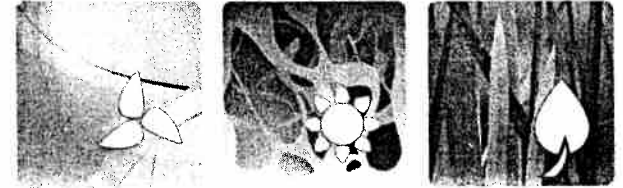


- Principal technical document providing the details of the project design and engineering
- Report contents:
 - Site Plan
 - Facility Design Plan
 - Facility Operations Plan
 - Environmental Effects Monitoring Plan
 - Emergency Response and Communications Plan
- Purpose of the report is to show how the facility will:
 - meet requirements of O. Reg. 359/09 such as setback distances
 - be designed to avoid and mitigate environmental effects
- Report refers to conclusions drawn in other technical reports

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Decommissioning Plan Report



- Outlines how the facility will be decommissioned at the end of the project life
- Typical content will include:
 - Procedures for dismantling or demolishing the facility, including decommissioning during construction (abandonment of project); decommissioning after ceasing operation;
 - Restoration of lands negatively affected by the facility; and
 - Procedures for managing excess materials and waste that will be generated during the decommissioning activities.
- Will include financial assurance requirements if a bio-energy facility
 - Ministry of the Environment has the authority to ask for financial assurance for a project as a condition of approval
- This is another draft report that will be important in municipal consultation



Consultation Report



- Outlines consultation with the public, Aboriginal communities* and local municipalities and boards in accordance with the consultation requirements outlined in the REA Regulation 359/09.
- Typical content will include:
 - Documentation of applicant requirements to: notify the public of meetings, record meeting results with interested and affected stakeholders, and outline changes made to the project design as a result of consultation.
 - Ensure interested and affected parties understand they can submit comments directly to the MOE through the Environmental Registry when the application is posted, and that their comments will be considered by the MOE prior to making a decision on the application.

* An Aboriginal consultation guidance document is currently being developed.

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Guidance For Proponents

- Plain language guide, *Provincial Approvals for Renewable Energy Projects*, available on the Ministry website:
http://www.ene.gov.on.ca/en/business/green-energy/docs/REP_Guide.pdf
- Six technical bulletins have been posted for a 90-day comment period (Mar 1 – May 30) EBR Registry Number 010-9235: www.ebr.gov.on.ca
- Technical bulletins describe contents of major reports required as part of an application under O.Reg.359/09
 - Project Description Report
 - Design and Operations Report
 - Construction Plan Report
 - Decommissioning Plan Report
 - Setback requirements for wind turbines
 - Consultation Report



More Information

- **MOE website** has general information and detailed application requirements.
 - Fact sheets describing technology specific requirements, the consultation process, and a jurisdictional comparison.
 - *Guide: Provincial Approvals for Renewable Energy Projects*
 - Technical Bulletins on the EBR for consultation (more to follow)
- **Proponents considering project application for approval** - contact the MOE, Environmental Assessment and Approvals Branch:
eaabgen.moe@ontario.ca
- **MEI's Renewable Energy Facilitation Office (REFO)** has general information on all aspects of bringing a renewable energy project to life.
 - www.ontario.ca/greenenergyprojects.
 - 1-877-440-REFO (7336)
 - REFO@ontario.ca



Stantec

Stantec Consulting Ltd.
Suite 1 - 70 Southgate Drive
Guelph ON N1G 4P5
Tel: (519) 836-6050
Fax: (519) 836-2493

June 4, 2010
File: 160960577 / 161010624

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

Attention: Doris Dumais, Director, Approvals Program

**Reference: Grand Renewable Energy Park
Draft Project Description**

Dear Ms. Dumais:

Please find enclosed the Draft Project Description for the proposed Grand Renewable Energy Park.

This document provides a summary of the Project as required by Ontario Regulation 359/09 - Renewable Energy Approvals under Part V.0.1 of the Act of the *Environmental Protection Act* ("the Regulation").

In accordance with subsection 14.(1)(b) of the Regulation, we respectfully request that you provide a list of aboriginal communities who have or may have constitutionally protected aboriginal or treaty rights that may be adversely impacted by the project, or otherwise may be interested in any negative environmental effects of the project.

In the event that you have any questions, please do not hesitate to contact the undersigned. We look forward to your response and look forward to working with Ministry staff throughout the permitting and approvals process.

Sincerely,

STANTEC CONSULTING LTD.

Rob Nadolny
Senior Project Manager
Tel: (519) 836-6050
Fax: (519) 836-2493
Rob.nadolny@stantec.com

Attachment: Draft Project Description

CC. Adam Rosso, Samsung Renewable Energy Inc.



Stantec

Stantec Consulting Ltd.
Suite 1 - 70 Southgate Drive
Guelph ON N1G 4P5
Tel: (519) 836-6050
Fax: (519) 836-2493

June 24, 2010
File: 160960577 / 161010624

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

Attention: Doris Dumais, Director, Approvals Program

**Reference: Grand Renewable Energy Park
Draft Project Description – Version 2**

Dear Ms. Dumais:

Please find enclosed the Draft Project Description Report – Version 2 for the proposed Grand Renewable Energy Park.

This document provides a summary of the Project as required by Ontario Regulation 359/09 - Renewable Energy Approvals under Part V.0.1 of the Act of the *Environmental Protection Act* ("the Regulation"). Draft Project Description Report - Version 2 has been updated to include additional information related to Project setbacks and the identification of potential environmental effects.

In accordance with subsection 14.(1)(b) of the Regulation, we respectfully request that you provide a list of aboriginal communities who have or may have constitutionally protected aboriginal or treaty rights that may be adversely impacted by the project, or otherwise may be interested in any negative environmental effects of the project.

In the event that you have any questions, please do not hesitate to contact the undersigned. We look forward to your response and look forward to working with Ministry staff throughout the permitting and approvals process.

Sincerely,

STANTEC CONSULTING LTD.

Rob Nadolny
Senior Project Manager
Tel: (519) 836-6050
Fax: (519) 836-2493
Rob.nadolny@stantec.com

Attachment: Draft Project Description – Version 2

CC: Adam Rosso, Samsung Renewable Energy Inc.

Ministry of the Environment

Environmental Assessment and
Approvals Branch

2 St. Clair Avenue West
Floor 12A
Toronto ON M4V 1L5
Tel.: 416 314-8001
Fax: 416 314-8452

Ministère de l'Environnement

Direction des évaluations et des
autorisations environnementales

2, avenue St. Clair Ouest
Étage 12A
Toronto ON M4V 1L5
Tél. : 416 314-8001
Télééc. : 416 314-8452



September 23, 2010

MOE File #: WC-10-WSF-0049

Mr. Adam Rosso
Samsung Renewable Energy Inc.
55 Standish Court
Mississauga ON L5R 4B2

Dear Mr. Rosso:

RE: Director's Aboriginal Communities List - Grand Renewable Energy Park

The Ontario Ministry of the Environment (Ministry) has reviewed the information provided in the *Draft of the Project Description Report (PDR)* received for the *Grand Renewable Energy Park*. The Ministry has reviewed the anticipated environmental effects of the project (as described in the PDR) relative to its current understanding of the interests of aboriginal communities in the area.

In accordance with section 14 of Ontario Regulation 359/09 "Renewable Energy Approvals under Part V.0.1 of the Act" (O. Reg. 359/09) made under the *Environmental Protection Act*, please find below the list of aboriginal communities who, in the opinion of the Director:

i) have or may have constitutionally protected aboriginal or treaty rights that may be adversely impacted by the project (s.14(b)(i)):

Aboriginal Community
Common Name:
Reserve Name:
Contact Information:
Six Nations of the Grand River Six Nations (Part) 40 PO BOX 5000 Ohsweken ON N0A 1M0 Phone (519) 445-2201 Fax (519) 445-4208
Six Nations of the Grand River Haudenosaunee Confederacy Council RR2 Oshwken ON NOA 1MO Phone (519) 755-2769

Mississaugas of the Credit First Nation Mississaugas of the New Credit New Credit (Part) 40A RR 6 Hagersville ON N0A 1H0 Phone (905) 768-1133 Fax (905) 768-1225
Oneida Nation of the Thames Oneida 41 RR 2 Southwold ON N0L 2G0 Phone (519) 652-3244 Fax (519) 652-9287
Wahta Mohawks Wahta Mohawk Territory PO BOX 260 Bala ON P0C 1A0 Phone (705) 762-2354 Fax (705) 762-5744
Mohawks of the Bay of Quinte Tyendinaga Mohawks Tyendinaga Mohawk Territory RR 1 Deseronto ON K0K 1X0 Phone (613) 396-3424 Fax (613) 396-3627
Mohawks of Akwesasne Akwesasne (Part) 59 PO BOX 579 Cornwall ON K6H 5T3 Phone (613) 575-2250 Fax (613) 575-2181

OR

ii) otherwise may be interested in any negative environmental effects of the project (s.14(b)(ii)):

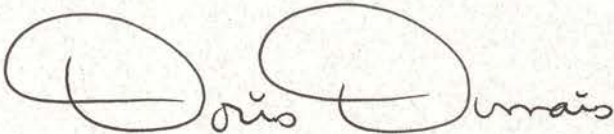
Aboriginal Community Common Name: Reserve Name: Contact Information:
Grand River Métis Council 76 Buttonwood Drive Kitchener ON N2M 4R1

Métis Nation of Ontario
Consultation Unit
500 Old St. Patrick St, Unit 3
Ottawa ON K1N 9G4

NOTE: None of the foregoing should be taken to imply approval of this project or the contents of the PDR. This letter only addresses the requirement of the Director to provide a list of aboriginal communities to you as required pursuant to section 14 of O. Reg. 359/09. You should also be aware that information upon which the above list of aboriginal communities is based is subject to change. Aboriginal communities can make assertions at any time, and other developments, for example the discovery of Aboriginal archaeological resources, can occur that may require additional aboriginal communities to be notified. Should this happen, the Ministry will contact you. Similarly, if you receive any feedback from any aboriginal communities not included in this list, as part of your consultation, the Ministry would appreciate being notified.

Please contact Narren Santos at (416) 314-8442 should you have any questions or require additional information.

Sincerely,



Doris Dumais
Director
Environmental Assessment Approvals Branch
Ministry of Environment

cc: Mansoor Mahmood, Renewable Energy Team, Ministry of the Environment
Joe de Laronde, Aboriginal Affairs Branch, Ministry of the Environment

Friedl, Susanne

From: Adam Rosso <a.rosso@samsungrenewableenergy.ca>
Sent: Wednesday, December 22, 2010 4:06 PM
To: Dumais, Doris (ENE); Mahmood, Mansoor (ENE)
Cc: Ing, Pearl (MEI); Chander, Sunita (MEI); Jim.Salmon@ZephyrNorth.com; Galajda, Larry; Nadolny, Rob; Kozak, Mark; B Edwards; Byun Hyo-In; Daniel Choi; GY Yoo (gy.yoo@samsung.com); Hagen Lee (hagen.lee@samsung.com); Jang (jang7070@samsung.com); KC Kim; Marnie Dawson; Min Park; Ryan Kim; Zohrab Mawani; ???; Brad Hillman; Colin Edwards (colin.edwards@patternenergy.com); Jody Law; Kim Sachtleben
Subject: Crystallization - Grand Renewable Energy Park
Attachments: image001.jpg; Samsung Newsletter2010.12.8.pdf; GREP Crystallization Table.xls; Preliminary Turbine Layout.pdf

Follow Up Flag: Follow up
Flag Status: Flagged

Hello Doris;

Samsung Renewable Energy and Pattern Energy would like to submit the following attachments as required material to crystallize our wind turbine layout for our Grand Renewable Energy Park.

SRE is planning on sending the attached newsletter to approximately 5300 stakeholders within our project area. According to our mail distributor, the newsletter will be at the households on December 28th, 2010. The newsletter is attached and named "Samsung Newsletter2010.12.8.pdf".

The Preliminary Layout Map, attached "Preliminary Turbine Layout.pdf" will be uploaded to our website between now and the newsletter arrival date. The map is designed to the specifications outlined by the MOE.

The attached table is a list of all turbines located adjacent to our project named "GREP Crystallization Table.xls".

If you notice any deficiencies in our submission please notify us as soon as possible.

Thanks Kindly;



Adam Rosso, P.Eng., M.Sc.
Manager, Business Development
C: 416.389.8942
T: 905.285.1872
E: a.rosso@samsungrenewableenergy.ca

Ministry of the Environment

Environmental Assessment and
Approvals Branch

2 St. Clair Avenue West
Floor 12A
Toronto ON M4V 1L5
Tel.: 416 314-8001
Fax: 416 314-8452

Ministère de l'Environnement

Direction des évaluations et des
autorisations environnementales

2, avenue St. Clair Ouest
Étage 12A
Toronto ON M4V 1L5
Tél. : 416 314-8001
Télééc. : 416 314-8452



March 2, 2011

Mr. Hagen Lee
Samsung Renewable Energy Inc.
55 Standish Court
Mississauga ON L5R 4B2

Dear Mr. Lee:

Thank you for the February 25, 2011 follow up email requesting clarification on the Aboriginal Consultation requirements for Samsung Renewable Energy's (Samsung) proposed Grand Renewable Energy Park.

In accordance with requirements set out in the Renewable Energy Approval Regulation (O.Reg.359/09), all of the Aboriginal communities identified in the section 14 list provided to Samsung on September 23, 2010, should receive project notices and be provided with the required project documentation, reports and summaries.

I am however aware that the Ministry of Energy has already provided Samsung with some guidance relating to Aboriginal consultation with respect to the 1701 Treaty communities specifically. My understanding is that Samsung was advised that the most proximate 1701 Treaty communities (Six Nations of the Grand River and Oneida Nations of the Thames) should be proactively engaged through follow-up, meetings, etc. However, for the more distant 1701 Treaty communities, Samsung was advised that they need only follow-up (via meetings, etc.) if the community responds and/or approaches Samsung.

I trust this clarifies your queries. Please do not hesitate to contact me should you have any further questions.

Yours sincerely,

A handwritten signature in blue ink, appearing to read "Doris Dumais".

Doris Dumais
Director – Approvals Program
Environmental Assessment and Approvals Branch

C: Pearl Ing, Director, Renewable Energy Facilitation Office, Ministry of Energy
Marnie Dawson, Samsung Renewable Energy Inc.



Stantec Consulting Ltd.
Suite 1 - 70 Southgate Drive
Guelph ON N1G 4P5
Tel: (519) 836-6050
Fax: (519) 836-2493

Stantec

June 23, 2011
File: 160960577

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

Attention: Doris Dumais, Director

Dear Ms. Dumais:

Reference: Crystallization – Grand Renewable Energy Park

On December 22, 2010, Samsung Renewable Energy (Samsung) submitted a draft site plan to the Ministry of the Environment (MOE) in order to “crystallize” the turbine layout for the proposed Grand Renewable Energy Park (the Project) to be located in Haldimand County. In accordance with Section 54 of O. Reg. 359/09, a Renewable Energy Approval (REA) application must be submitted within six months of the date the draft site plan was issued. However, the Director may extend the six-month period if the Director is of the opinion that the proponent has made all reasonable efforts to submit an application within the six-month period, but is not able to do so due to circumstances beyond the proponent’s control.

Due to the following unforeseen circumstances beyond Samsung’s control and based on the proposed schedule moving forward, Samsung respectfully requests to extend the period in which the draft site plan is considered “crystallized” until March 1, 2012.

- Samsung has experienced significant weather delays related to the completion of Stage II Archaeological Assessments of the Project Location.
- Additional on-site investigations related to the Natural Heritage Assessment/Environmental Impact Study (NHA/EIS) have been requested by the Ministry of Natural Resources (MNR). On-site investigations were completed in early June 2011.
- Samsung has experienced a delay in receiving confirmation of the NHA/EIS from the MNR. It is currently anticipated that confirmation of the NHA/EIS will be received in July 2011.

Based on the circumstances detailed above and the remaining activities to be completed as per the requirements of O. Reg. 359/09 including the completion of a second public meeting, Samsung anticipates submitting its REA application to the MOE in early 2012.

June 23, 2011
Ms. Doris Dumais
Page 2 of 2

Reference: Crystallization – Grand Renewable Energy Park

Thank you for your attention to this matter.

Sincerely,

STANTEC CONSULTING LTD.



Mark Kozak, BES
Project Manager
Tel: (519) 836-6050
Fax: (519) 836-2493
mark.kozak@stantec.com

- c. Marnie Dawson, Samsung Renewable Energy
Narren Santos, Ministry of the Environment
Mansoor Mahmood, Ministry of the Environment

Ministry of the Environment

Environmental Assessment and
Approvals Branch

2 St. Clair Avenue West
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2, avenue St. Clair Ouest
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Toronto ON M4V 1L5
Tél. : 416 314-8001
Télec. : 416 314-8452



June 29, 2011

Mr. Mark Kozak
Stantec Consulting Ltd.
70 Southgate Drive, Suite 1
Guelph ON N1G 4P5

Dear Mr. Kozak:

Thank you for your letter dated June 23, 2011 in which Samsung Renewable Energy (Samsung) requests an extension to the time required to submit an REA application to the Ministry for the Grand Renewable Energy Park in order to continue to have paragraph 4 of subsection 54 (1.2) of O. Reg. 359/09 apply to the project.

I have considered your request for a time extension for the Grand Renewable Energy Park and am of the view that Samsung has made all reasonable efforts to submit an REA application within the six-month period referred to in subsection 54 (1.5) of O. Reg. 359/09 but is not able to do so due the fact that the archaeological work has not yet been completed in accordance with the Ministry of Culture's requirements and final confirmation and / or comments from the Ministry of Natural Resources on the natural heritage assessment are not expected until July 2011.

As such, this letter serves as confirmation of my decision to extend the six-month period in accordance with subsection 54 (1.6) of O. Reg. 359/09. As requested, the extension will be until March 1, 2012.

In order to continue to have paragraph 4 of subsection 54 (1.2) of O. Reg. 359/09 apply to the Grand Renewable Energy Park, Samsung must submit an REA application to the Ministry within this extended time period.

Please note that if Samsung does not submit an REA application to the Ministry on or before March 1, 2012, paragraph 4 of subsection 54 (1.2) of O. Reg. 359/09 ceases to apply to the Grand Renewable Energy Park.

Sincerely,

A handwritten signature in black ink, appearing to read "Doris Dumais". The signature is written in a cursive style with large, rounded letters.

Doris Dumais
Director
Environmental Assessment and Approvals Branch

c: Marnie Dawson, Samsung Renewable Energy



Stantec Consulting Ltd.
Suite 1 - 70 Southgate Drive
Guelph ON N1G 4P5
Tel: (519) 836-6050
Fax: (519) 836-2493

Stantec

July 20, 2011
File: 160960577

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

Attention: Ms. Doris Dumais, Director – Approvals Program

Dear: Ms. Dumais

Reference: Grand Renewable Energy Park – Notice of Public Meeting

Samsung C&T (Samsung), Pattern Energy (Pattern), and Korea Power Electric Corporation (KEPCO) (together, these companies referred to herein as “SPK”) are proposing to develop, construct, and operate a wind and solar energy project as part of the Grand Renewable Energy Park, in Haldimand County. SPK is planning to engage in this renewable energy project in respect of which the issuance of Renewable Energy Approvals (REA) is required. The proposal to engage in the project and the project itself are subject to the provisions of the *Environmental Protection Act (ACT)* Part V.0.1 and Ontario Regulation 359/09 (O Reg. 359/09)).

In accordance with section 15.(6)5 of O. Reg. 359/09, Stantec is pleased to provide you with a copy of the Notice of Public Meeting for the Grand Renewable Energy Park public meeting to be held on September 22, 2011. A copy of this Notice has been distributed to all stakeholders and aboriginal communities as required by O. Reg. 359/09.

Sincerely,

STANTEC CONSULTING LTD.

Mark Kozak, BES
Project Manager
Tel: (519) 836-6050
Fax: (519) 836-2493
mark.kozak@stantec.com

Attachment: Notice of Public Meeting

c. Adam Rosso, Samsung Renewable Energy Inc.

NOTICE OF PUBLIC MEETING

To be held by Samsung Renewable Energy Inc. Regarding a Proposal to Engage in a Renewable Energy Project

Project Name: Grand Renewable Energy Park

Project Location: County of Haldimand, Ontario

Dated at County of Haldimand this the 20th day of July, 2011

Samsung C&T (Samsung), Pattern Energy (Pattern), and Korea Power Electric Corporation (KEPCO), (together, these companies referred to herein as "SPK") are proposing to develop, construct, and operate a wind and solar energy project as part of the Grand Renewable Energy Park, in Haldimand County. SPK is planning to engage in this renewable energy project in respect of which the issuance of renewable energy approvals is required. The proposal to engage in the project and the project itself are subject to the provisions of the Environmental Protection Act (ACT) Part V.0.1 and Ontario Regulation 359/09 (Regulation). This notice is being distributed in accordance with section 15 of the Regulation prior to an application being submitted and assessed for completeness by the Ministry of the Environment.

Meeting Information:

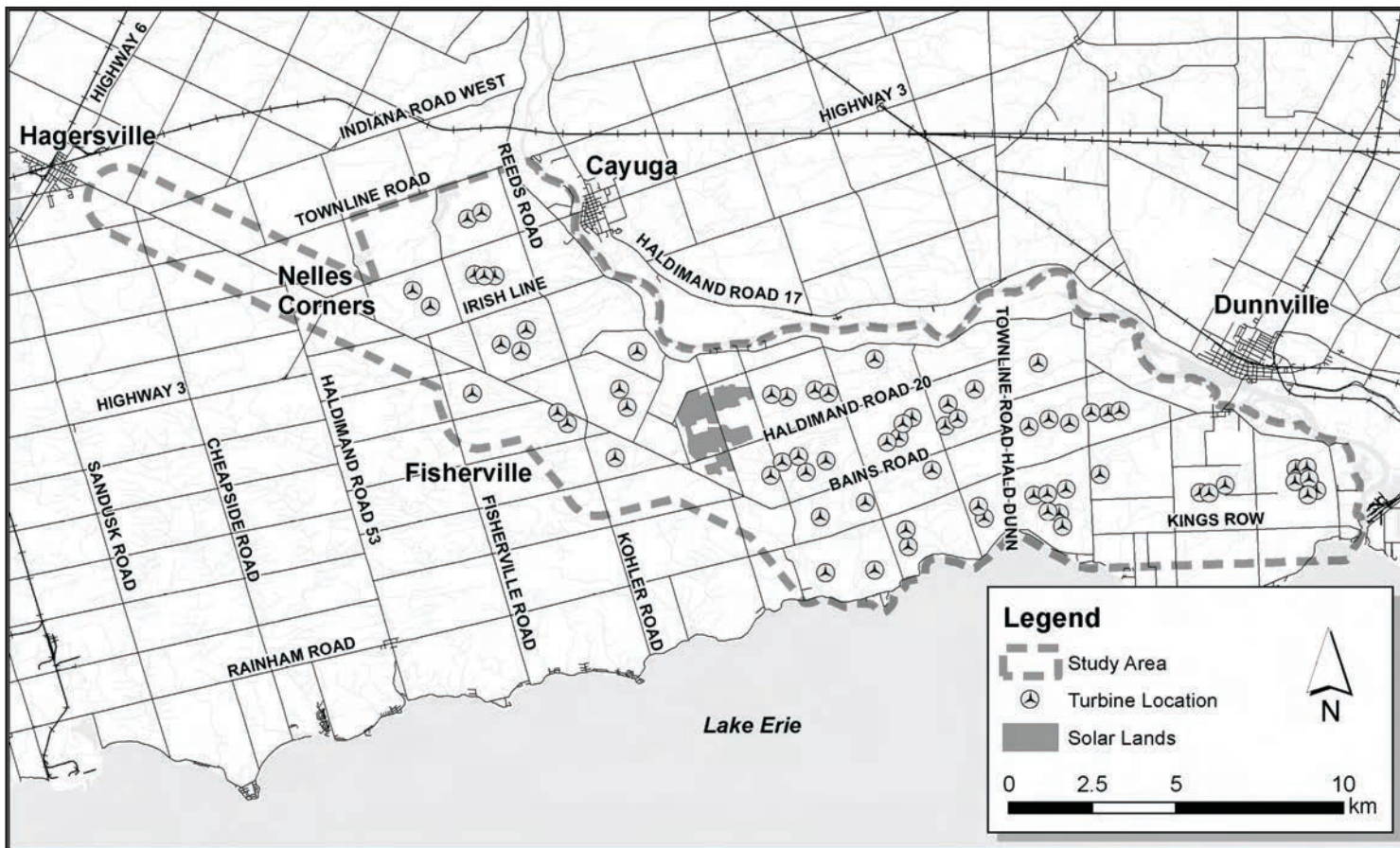
DATE: September 22, 2011

TIME: 5:00 to 8:00 PM

PLACE: Cayuga Kinsmen Community Centre
15 Thorburn Street, Cayuga, Ontario

Project Description:

Pursuant to the Act and Regulation, the facility, in respect of which the project is to be engaged in, is a Class 4 Wind Facility and a Class 3 Solar Facility. If approved, this facility would have a total maximum nameplate capacity of 148.6 MW for the wind project and 100 MW nameplate capacity for the solar project. The project location is described in the map below.



Documents for Public Inspection:

The Draft Project Description Report describes the project as a wind facility consisting of sixty-seven (67) Siemens SWT-2.3-101 wind turbines, approximately 425,000 photovoltaic (PV) solar panels, a collector sub-station, interconnect station and Operations and Maintenance building, approximately 20 km of 230 kV transmission lines along Haldimand Road 20, and approximately 82 km of new overhead and/or underground 34.5 kV collector lines along public roads. A written copy of the Draft Project Description Report will be made available for public inspection starting on July 23, 2011 at the following locations:

Dunnville Library
317 Chestnut St
Dunnville, Ontario N1A 2H4
905-774-4240

Selkirk Library
34 Main Street West
Selkirk, Ontario N0A 1P0
905-776-2127

Hagersville Library
13 Alma St. North
Hagersville, Ontario N0A 1H0
905-768-5941

**Haldimand County-
Cayuga Administration Building**
45 Munsee Street North
P. O. Box 400
Cayuga, Ontario N0A 1E0
905-318-5932

Further, the applicant has obtained or prepared, as the case may be, supporting documents in order to comply with the requirements of the Act and Regulation. Written copies of the draft supporting documents will be made available for public inspection starting on July 23, 2011 to September 22, 2011 at the locations identified above and on the project website (www.SamsungRenewableEnergy.ca).

Project Contacts and Information:

To learn more about the project proposal, public meetings, and to communicate concerns, please contact the project team via e-mail at GrandRenewable@SamsungRenewableEnergy.ca or by phone at 1-877-536-6050 or 1-519-836-6050 (Collect). Comments and questions can also be directed by mail to the following (comments must be received prior to or on September 22, 2011):

Stantec Consulting Ltd.
Attn: Rob Nadolny
Suite 1, 70 Southgate Drive
Guelph, Ontario N1G 4P5

Friedl, Susanne

From: de Carteret Feit, Kendra
Sent: Monday, June 07, 2010 10:36 AM
To: Kozak, Mark; Nadolny, Rob
Subject: FW: Grand Renewable Energy Park - preliminary assessment result

Follow Up Flag: Follow up
Flag Status: Flagged

From: Yao, Lillian [Ontario] [mailto:Lillian.Yao@ec.gc.ca] **On Behalf Of** Weather Radars Contact, National Radar Program [Ontario]
Sent: Monday, June 07, 2010 10:34 AM
To: de Carteret Feit, Kendra
Subject: Grand Renewable Energy Park - preliminary assessment result

Thank you for contacting the Meteorological Service of Canada regarding your wind energy intention in Haldimand County, Ontario.

Our preliminary assessment of the information you provided to us via your previous email indicates that any interference that may be created by your project will be minimal. As a consequence, we have no concerns at this time.

If you change your plans regarding turbine number, height, placement or materials, please contact us at: weatherradars@ec.gc.ca.

Best regards,

Lillian Yao

Observing Systems and Engineering
Meteorological Service of Canada
Fax: 416 739-5721

From: de Carteret Feit, Kendra [mailto:Kendra.Feit@stantec.com]
Sent: June 4, 2010 3:02 PM
To: Weather Radars Contact, National Radar Program [Ontario]
Subject: Grand Renewable Energy Park

Good afternoon –

Please find attached a letter and notice regarding the proposed Grand Renewable Energy Park.

Thank-you,
Kendra de Carteret Feit, on behalf of
Rob Nadolny
Senior Project Manager
Stantec
Ph: (519) 836-6050 Ext. 242
Fx: (519) 836-2493
rob.nadolny@stantec.com
stantec.com

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Transmittal

Stantec Consulting Ltd.
2781 Lancaster Road,
Ottawa, ON K1B 1A7
Tel: (613) 738-0708
Fax: (613) 738-0721

To:	Wai Kok	From:	Colin Varley
Company:	Ministry of Culture	<input type="checkbox"/>	For Your Information
Address:	400 University Avenue Toronto, ON M7A 2R9	<input type="checkbox"/>	For Your Approval
Phone:	416-314-7123	<input checked="" type="checkbox"/>	For Your Review
Date:	August 26, 2010	<input type="checkbox"/>	As Requested
File:	161010624, CIF # P002-208-2010		
Delivery:	Courier		

Reference: Stage 1 Archaeological Assessment, Samsung Grand Renewable Energy Park, Haldimand County, ON

Wai,

Please find enclosed final reports for the above. If you have any questions please do not hesitate to contact me at your earliest convenience.

Attachments:

Copies	Doc Date	CIF #	Description
3	August 24, 2010	P002-208-2010	FINAL REPORT, Stage 1 Archaeological Assessment, Grand Renewable Energy Park, Haldimand County, Ontario

Regards

STANTEC CONSULTING LTD.

Colin Varley, M.A., R.P.A.
Senior Archaeologist and Heritage Planning Consultant
Tel: (613) 738-6078
Fax: (613) 738-0721
Colin.Varley@Stantec.com

c. File

One Team. Infinite Solutions.

Friedl, Susanne

From: Uchiyama, Christienne
Sent: Wednesday, February 09, 2011 11:55 AM
To: Schiller, Chris (MTC)
Cc: donna.ratchford@ontario.ca; rajesh.khetarpal@ontario.ca;
mariflor.toneatto@ontario.ca; m.dawson@samsungrenewableenergy.ca;
a.rosso@samsungrenewableenergy.ca; Nadolny, Rob; Kozak, Mark; Varley, Colin
Subject: Samsung Grand Renewable Energy Park - Heritage Assessment and Protected Properties Report

Follow Up Flag: Follow up
Flag Status: Flagged

Dear Mr. Schiller,

Please find below instructions for downloading electronic versions of the Heritage Assessment and Protected Properties Reports for the Samsung Grand Renewable Energy Park in the County of Haldimand, Ontario for review by your unit.

Are you able to provide, at this time, an estimated review completion date? The proponent, Samsung Renewable Energy, would like to request an expedited review, preferably by February 18th.

Please advise as to which Heritage Planner hardcopies of the reports should be directed. Don't hesitate to contact me should you have any questions regarding the reports.

Regards,

Christienne Uchiyama
Archaeologist and Heritage Planning Consultant
200 - 2781 Lancaster Road
Ottawa ON K1B 1A7
Ph: (613) 738-0708 Ext. 3278
Fx: (613) 738-0721
Cell: (613) 327-0427
Christienne.Uchiyama@stantec.com
stantec.COM

Automatic Login

FTP site link: <ftp://s0215105846:3636411@ftptmp.stantec.com>

By clicking on the link above (or pasting the link into Windows Explorer) you will be automatically logged into your FTP site.

Manual Login

FTP link: <ftp://ftptmp.stantec.com>

Login name: s0215105846

Password: 3636411

Disk Quota: 2GB

Expiry Date: 3/1/2011

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Friedl, Susanne

From: Varley, Colin
Sent: Wednesday, February 09, 2011 4:55 PM
To: Prowse, Shari (MTC)
Cc: Marnie Dawson; 'a.rosso@samsungrenewableenergy.ca'; Nadolny, Rob; Kozak, Mark
Subject: FW: Stantec FTP Confirmation - REVISED STAGE 2 AA REPORT -SPK GREP

Follow Up Flag: Follow up
Flag Status: Completed

Categories: Green Category

Shari,

Please see below a link to download our revised Interim Stage 2 AA report for the SPK Grand Renewable Energy Project.

Regards,

Colin

Automatic Login

FTP site link: <ftp://s0223144512:1646787@ftptmp.stantec.com>

By clicking on the link above (or pasting the link into Windows Explorer) you will be automatically logged into your FTP site.

Manual Login

FTP link: <ftp://ftptmp.stantec.com>

Login name: s0223144512

Password: 1646787

Disk Quota: 2GB

Expiry Date: 2/23/2011

If your site has not expired and you require a onetime 2 week extension, please contact the [IT Service Center](#).

If you require more than 2 weeks, please request an FTP Project Directory. Information on the FTP Project Directory request procedure is posted in the [StanNet Help Center](#).

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Ministry of Tourism and Culture

Culture Services Unit
Programs and Services Branch
401 Bay Street, Suite 1700
Toronto ON M7A 0A7

Tel. 416 314-3108
Fax: 416 314 7175

Ministère du Tourisme et de la Culture

Unité des services culturels
Direction des programmes et des services
401, rue Bay, Bureau 1700
Toronto ON M7A 0A7
Tél. : 416 314-3108
Télééc. : 416 314 7175



February 16, 2011

Christienne Uchiyama
Archaeologist and Heritage Planning Consultant
200 - 2781 Lancaster Road
Ottawa, Ontario
K1B 1A7

Dear Ms. Uchiyama,

RE: Heritage Assessment for Grand Renewable Energy Park

Various Lots located within the area bounded by Townline Road, Haldimand Road 20, Grand River, and Lake Erie, County of Haldimand

MTC file no. 28EA021

We hereby acknowledge receipt of the Heritage Assessment (consisting of two documents: a *Protected Properties Report* and a *Heritage Impact Assessment Report*) for the above-referenced project, as part of the *Environmental Protection Act's* Renewal Energy Approvals (REA) process under Ontario Regulation 359/09.

The Ministry of Tourism and Culture's interest in this proposed project relates to our mandate of conserving, protecting and preserving Ontario's heritage, including cultural heritage landscapes, built heritage resources and archaeological sites.

We have reviewed the report submitted and have the following comments on the documents:

Protected Properties Report

General Comments

The report states that a total of ten provincially designated properties were located within the general Project area. These properties are designated by the municipality, not the province, therefore "provincially" designated should be changed to "municipally" designated where it appears on pages ii, 1, 3, 15 of the report.

Section 1 – Introduction

Including images/schematic drawings and descriptions of what the various project components look like, particularly the turbines and solar panels, would benefit the reviewer's understanding of the project and its potential impacts.

Section 4 – Protected Properties

At the time the report was written, no comments had yet been received from the Ontario Heritage Trust (OHT) regarding whether there were any OHT easement properties in the study area. Confirmation regarding the existence of OHT easement properties within the study area is required.

While the report identifies distances between wind turbine locations and protected heritage properties, the report must clearly state whether any of the identified protected properties are on or abut a parcel of land on which the project is situated. The “project location” includes the location of all infrastructure associated with the project, such as transmission lines, collectors, transformers, etc. Therefore the location of these project components should also appear in a site plan map in the report.

Section 5 – Impact Assessment and Recommended Mitigation

The report includes analysis of potential negative impacts to the designated heritage properties. Tables 5-1, 5-3, and 5-4 state that views will not be altered or obstructed by the proposed project as a result of distance and the treed nature of the site. This finding would benefit from supporting diagrams or visual aids.

Section 8 – References

The References section of the report cites the following document: *Ontario Provincial Policy Statement, Mandatory Standards and Guidelines for Provincial Heritage Properties, under Part III.1 of the Ontario Heritage Act, 2005*. Clarification about what document this is referring to is required.

Heritage Impact Assessment Report

Section 1 – Introduction

As with the Ministry’s comments on the *Protected Properties Report*, including images/schematic drawings and descriptions of the project components is requested to aid the reviewer’s understanding of the project and its potential impacts.

Section 1.2 “Assessment Methodology” states that available historical maps were used to identify the locations of 19th century buildings, along with census records. Were any other “screening criteria” used?

The report indicates resources within a radius of 1km of solar panels, wind turbines and access roads were assessed. However, other project infrastructure (such as transmission lines, collectors, transformers, etc.) must also be assessed for impacts on heritage resources. The location of these project components should also appear in a site plan map in the report.

Section 2 – Project Area

This section should include a description of the general topography/geography of the area. The Grand River, which is designated as a Canadian Heritage River, bounds one side of the project area. How does the Grand River contribute to the surrounding area and historical context?

Section 4 – Built Heritage Resources

For each subsection it states that the accompanying table provides a “summary of evaluation”; however each table instead includes a description of the property, but not a summary of cultural heritage value, for each of the identified heritage properties. It is suggested that a statement explaining the cultural heritage value or interest of the property and a description of the heritage attributes of the property appears for every property entered in the summary tables.

Due to the size of the photographs in the tables, it is difficult to see some of the structures. Larger photos are requested.

Many of the subsections cite tree cover or distance from wind turbine locations as a reason the wind turbines will not be invasive. In other instances, the report states that structures are not expected to suffer “impact of significant magnitude”. As mentioned above, these findings would benefit from supporting diagrams or visual aids. It may not be necessary to illustrate this for each property where tree cover or distance is cited; rather, providing visual modelling illustrating an average two storey house with wind turbines and solar panels (to scale) at various positions and distances could be sufficient information to demonstrate visual impacts. Similar illustrations should be provided to show how tree cover affects visibility.

A number of cemeteries are identified as heritage resources and evaluated for impacts (Area 4, 9, 11, 12, 13, 14). As cemeteries are public spaces, their heritage attributes should not be limited to view of the cemeteries from the roadway, and the consideration/evaluation of impacts should also consider potential impacts to views from and within the cemeteries.

The discussion of the Lakeshore Road Cultural Heritage Landscape states that “Project components will not be visible from the majority of locations along the road.” More specific description of the extent of the project’s visibility is required. The report could also include further analysis and photographs of this CHL that is shown to extend several kilometres along the lakefront.

In Area 16, the report discusses the farmhouse at 665 Port Maitland Road, stating that “in terms of contextual relationships, the property’s relationship with the Grand River is considered to be of heritage value.” This implies that the property also meets criterion 3(ii) of O. Reg 9/06. Therefore in summarizing the cultural heritage value of this property, its contextual value should also be included alongside its design value.

This letter does not waive any requirements which you may have under the *Ontario Heritage Act*. Also, this letter does not constitute approval of the renewable energy project. Approvals of the project may be required under other statutes and regulations. It is your responsibility to obtain any necessary approvals or licences.

The above are comments from the Ministry of Tourism and Culture on the submitted report. These recommendations should be incorporated into a report to be resubmitted to the Ministry of Tourism and Culture. The revised report may be submitted electronically as a pdf. Once the report is finalized and MTC has issued a letter of acceptance, hard copies of the report may follow.

Please contact the undersigned if you have any questions or wish to discuss these comments further.

Sincerely,



Laura Hatcher
Heritage Planner
laura.hatcher2@ontario.ca

Ministry of Tourism and Culture
Culture Programs Unit
Programs & Services Br.
900 Highbury Avenue
London, ON N5Y 1A4
Tel: 519-675-6898
Fax: 519-675-7777
e-mail: shari.prowse@ontario.ca

Ministre du Tourisme et de la Culture
Unité des programmes culturels
Direction des programmes et des services
900, av. Highbury
London, ON N5Y 1A4
Tél: 519-675-6898
Télé: 519-675-7777
e-mail: shari.prowse@ontario.ca



March 15, 2011

Ms. Marnie Dawson
Manager, Renewable Energy Approvals
Samsung Renewable Energy
55 Standish Court
Mississauga ON L5R 4B2
m.dawson@samsungrenewableenergy.ca

RE: Grand Renewable Energy Park, Haldimand County, Ontario, Licence/PIF # P002-208-2010, P002-211-2010 and P218-012-2010, MTC File HD00565

Dear Proponent:

This letter constitutes written comments from the Ministry of Tourism and Culture (the “Ministry”) regarding archaeological assessments undertaken to date for the above project. Based on the information that has been provided to us, we understand that KC/Samsung has completed work on 90% of the land related to the GREP project. When your Stage 2 archaeological assessment is completed, the Ministry will provide a final letter containing the written comments required by clause 22(3)(a) of O. Reg. 359/09 under the *Environmental Protection Act* for the REA application submission.

Based on the information contained in the reports you have submitted for this project to date, the Ministry considers that the partial Stage 2 archaeological assessment completed thus far is in compliance with the *Ontario Heritage Act's* licensing requirements, including the licence terms and conditions and the Ministry's 1993 Archaeological Assessment Technical Guidelines. For greater certainty, the Ministry's comments herein are interim and do not constitute “written comments provided by the Ministry” for the purposes of clause 22(3)(a) of O. Reg. 359/09. Please note that the Ministry makes no representation or warranty as to the completeness, accuracy or quality of the Reports.*

The reports recommend the following:

Stage 1 Report (Licence/PIF # P002-208-2010), Received August 27, 2010, Addendum Received February 25, 2011

It is Stantec's professional opinion that most parts of the Project area demonstrate potential for the presence of significant archaeological deposits of integrity. It should be anticipated for Project component siting exercises that Stage 2 Archaeological Assessment is likely to be

required for most locations of project-related infrastructure construction, including all turbine pads, access roads, underground cable links, construction offices, laydown areas and temporary storage areas and any other areas where soil disturbances into and below the topsoil may occur.

Stage 2 archaeological survey generally takes two forms: pedestrian survey and test pit excavation survey. Pedestrian survey, the preferred methodology, requires that the area to be surveyed be ploughed as if the ground were to be cultivated and allowed to weather through one hard or several light rainfalls. After weathering the ground is walked at a slow pace and the locations of artifacts recorded using a Geographic Positioning System (GPS). During a pedestrian survey only diagnostic artifacts are collected; all others are left in situ.

If ploughing is not technically feasible in some locations due to the nature and extent of existing ground cover or other conditions, Stage 2 assessment will need to be completed using a test pit excavation strategy. In this instance standard archaeological test pits of 30 x 30 cm or greater are excavated and all excavated soils passed through screens of 6 mm mesh. During test pit survey all artifacts encountered are retained. In either case the survey interval will be at no more than 5 m. During Stage 2 assessment all field activities will be recorded using a GPS.

Stantec cautions, however, that it is possible that deeply buried archaeological resources, could still exist within the limits of the proposed project and that the following standard conditions will continue to apply:

- Should human remains be identified during operations, all work in the vicinity of the discovery will be suspended immediately. Notification will be made to the Ontario Provincial Police, or local police, who will conduct a site investigation and contact the district coroner. Notification must also be made to the Ministry of Tourism and Culture and the Registrar of Cemeteries, Cemeteries Regulation Unit, Ministry of Small Business and Consumer Services.*
- Should other cultural heritage values (archaeological or historical materials or features) be identified during operations, all work in the vicinity of the discovery will be suspended and the Ministry of Tourism and Culture archaeologist contacted. This condition provides for the potential for deeply buried or enigmatic local site areas that are not typically identified in archaeological field assessments.*

Stage 2 Report (Licence/PIF # P002-211-2010), February 28, 2011, Received March 1, 2011

Stage 2 AA of the GREP to date by Stantec has resulted in the documentation of 165 archaeological resources, including 45 archaeological sites which have been registered with the MTC and of 50 artifact clusters and 70 isolated findspots.

Stage 2 Archaeological Assessment at Solar Woodlot

Given the identification of several archaeological resources within 250 m of the Solar Woodlot it is recommended that if the woodlot area is required for Project related components that the area that was test pit surveyed at 10 m intervals be re-tested to a 5 m interval. These extra test pits can be excavated between the existing test pits.

Sites Requiring Stage 3 Archaeological Assessment

Stage 2 AA of the GREP to date by Stantec has resulted in the documentation of 45 registered archaeological sites which will require further archaeological assessment (Table 4-1). At minimum all 45 sites will require Stage 3 AA in order to determine the extent of each archaeological resource, and to further refine our understanding of the age, cultural association and cultural heritage value of the sites Stage 3 AA will also determine what appropriate mitigation options, such as avoidance or excavation, are available at each site location. Based on current calculations of site area it is anticipated that Stage 3 AA of the 45 sites will encompass an area of approximately 104,000 square metres, or 10.4 ha of the 359 ha assessed.

Table 4-1 Archaeological Sites Requiring Further Assessment

GREP Site #	Location	Borden #	Easting	Northing	# Tools/ Diagnostics	# non-Tools	Total # Artifacts	Cultural Period	Dimensions (in m)	Site Area (m ²)
1	T36	AfGx-710	589964	4755625	0	11	11	Indeterminate	25 x 20	500
2	T46	AfGx-711	590521	4752280	2	3	5	Indeterminate	35 x 20	581
3	T46	AfGx-712	590603	4752068	0	32	32	Indeterminate	65 x 30	1950
4	T23	AfGx-713	591237	4751861	0	22	22	Indeterminate	25 x 25	509
5	T23	AfGx-714	591145	4752137	0	28	28	Indeterminate	30 x 30	733
6	T23	AfGx-715	591097	4752326	0	32	32	Indeterminate	55 x 35	1571
7	T28	AfGx-716	591169	4752307	0	11	11	Indeterminate	25 x 25	535
8	T28	AfGx-717	591295	4752310	0	25	25	Indeterminate	35 x 25	659
9	T28	AfGx-718	591339	4752251	2	9	11	Indeterminate	35 x 20	508
10	T23	AfGx-719	590901	4752878	0	25	25	Indeterminate	60 x 30	1423
11	T20	AfGx-720	592626	4749531	3	114	117	Early Woodland	90 x 90	6939
12	SF1	AfGw-137	596156	4748772	2	16	18	Late Palaeo-Indian/ Early Woodland	40 x 40	641
13	SF1	AfGw-138	596243	4748449	9	89	98	Middle/Late Archaic, Middle Woodland	150 x 110	12309
14	SF1	AfGw-139	596237	4748626	2	47	49	Late Archaic	145 x 115	4188
15	T13	AfGw-140	596811	4748748	n/a	n/a	n/a	Indeterminate	20 x 20	303
16	SF2	AfGw-141	596644	4748742	10		10	19th Century Historic	55 x 55	1026
17	SF1	AfGw-142	596286	4748783	2	18	20	Late Archaic	90 x 55	3036
18	SF1	AfGw-143	596176	4748858	2	29	31	Early Archaic	115 x 50	3320
19	SF1	AfGw-144	596014	4749261	2	18	20	Early Woodland	110 x 110	9788
20	SF1	AfGw-145	596198	4749235	1	86	87	Indeterminate	50 x 50	1763
21	SF3	AfGw-146	597043	4749303	1	10	11	Indeterminate	35 x 35	1140

22	SF3	AfGw-147	596901	4749626	6	206	212	Late Woodland	250 x 160	29376	
23	SF7	AfGw-148	597046	4749740	0	18	18	Indeterminate	70 x 40	2132	
24	SF7	AfGw-149	597206	4749996	2	63	65	Late Archaic	75 x 50	3750	
25	SF8	AfGw-150	597512	4750457	1	30	31	Indeterminate	40 x 30	1014	
26	SF8	AfGw-151	597431	4750516	2	0	2	Middle Archaic	10 x 10	92	
27	SF8	AfGw-152	597405	4750435	0	36	36	Indeterminate	40 x 35	1145	
28	SF7	AfGw-153	596799	4750597	1	28	29	Late Palaeo-Indian	60 x 40	2193	
29	SF5	AfGw-154	596309	4750150	2	14	16	Indeterminate	105 x 40	2723	
30	SF4	AfGw-155	596193	4750040	1	10	11	Indeterminate	60 x 30	767	
31	SF4	AfGw-156	596052	4750102	1	18	19	Indeterminate	50 x 40	898	
32	SF4	AfGw-157	595992	4750003	2	11	13	Middle Archaic	30 x 30	473	
33	SF4	AfGw-158	596044	4749943	6	35	41	Early Woodland	40 x 30	367	
34	SF4	AfGw-159	596142	4749695	0	14	14	Indeterminate	20 x 20	341	
35	SF4	AfGw-160	596174	4749580	0	5	5	Indeterminate	10 x 10	100	
36	SF4	AfGw-161	596313	4749612	1	49	50	Indeterminate	80 x 50	3393	
37	SF4	AfGw-162	596328	4749533	0	27	27	Indeterminate	25 x 25	564	
38	SW	AfGw-163	596603	4749418	0	10	10	Indeterminate	10 x 10	100	
39	SF1	AfGw-164	596123	4749106	1	0	1	Early Archaic	10 x 10	100	
40	SF4	AfGw-165	596105	4750015	2	2	4	Late Palaeo-Indian	20 x 20	227	
41	SF6	AfGw-166	596722	4750265	1	0	1	Early Archaic	10 x 10	100	
42	T55	AfGw-167	600123	4746735	1	0	1	Late Palaeo-Indian	10 x 10	100	
43	T34	AfGx-721	589820	4753974	1	0	1	Early Archaic	10 x 10	100	
44	T13	AfGw-184	594647	4751614	0	62	62	Indeterminate	20 x 25	364	
45	T10	AfGx-732	594689	4751585	0	16	16	Indeterminate	20 x 25	389	
					Total # Artifacts		1349			Total m2	104230

Stage 3 AA (the Archaeological Site Assessment) of the 45 identified sites will be conducted according to the 2010 Standards and Guidelines for Consultant Archaeologists. The following standards for Stage 3 AA work will apply:

- *Before carrying out fieldwork, review all relevant reports of previous fieldwork on the archaeological site or for that property;*
- *Carry out the archaeological site assessment when weather and lighting conditions permit good visibility of all parts of the archaeological site. Do not carry out the archaeological site assessment when weather and lighting conditions (e.g., snow cover, frozen ground, excessive rain or drought, heavy fog) reduce the ability to identify and document any part of the archaeological site;*
- *Using GPS record the locations of the following:*
 - *a central fixed point within the archaeological site*
 - *a permanent datum that can be tied to a development map; and*
- *Provide representative photographs of all field conditions (e.g., ploughed field, pasture or woodlot, disturbances).*

For each site located using pedestrian survey methodology the Stage 3 AA will be composed of two elements: a controlled surface pick-up (CSP) of artifacts on the surface of ploughed fields and test unit excavation. A CSP is a detailed survey of the ground surface in open fields that

allows for precise recording of artifact locations and the collection of a representative sample of artifacts, including non-diagnostic artifacts. The following standards for Stage 3 AA CSP will apply:

- *If ground surface visibility has decreased in the time between the Stage 2 survey and the Stage 3 CSP, ensure that the site area is re-cultivated and weathered;*
- *Accurately map the location of all artifacts on the ground surface using a total station, transit and tape, stadia rod, or GPS unit. Record and catalogue artifacts by their mapped location, recording any relevant information (e.g., spatial relationship of diagnostics, artifact concentration areas). Tie this map to the general site GPS readings by recording a central point in the scatter;*
- *For very large and dense surface scatters, conduct a full CSP by grid units (maximum 5 m by 5 m units) over the archaeological site. Record and catalogue artifacts with their grid unit designation.*
- *Ensure that decisions regarding the type and number of artifacts collected strike a balance between gathering enough artifacts to document the archaeological site and leaving enough in place to relocate the site if required (e.g., to conduct further assessment, define a protected area or conduct excavation);*
- *Collect all formal artifact types and diagnostic categories, including, for 19th century archaeological sites, all refined ceramic sherds; and*
- *Collect a representative sample of non-diagnostic artifacts, taking into consideration the archaeological site type, type and frequency of non-diagnostic artifacts, and the likelihood that further fieldwork will be required.*

Based on the results of the Stage 2 AA, use of a grid unit CSP will likely need to be conducted at AfGx-720, AfGw-144 and AfGw-147 due to their size and artifact densities. All other sites should not require grid unit CSP.

The second component of the Stage 3 AA, test unit excavation, will be required at all identified archaeological sites, including AfGw-163, the site located through test pit survey. The purpose of the test unit excavation is to document the extent of buried artifacts, cultural features, soil stratigraphy and structures and to recover a representative sample of artifacts from across the archaeological site. The interval of the Stage 3 AA grid (of either 5 m or 10 m intervals) will be dependent on the age, type and nature of each identified site. Specific guidelines for this interval are provided in the 2010 Standards and Guidelines for Consultant Archaeologists. The following standards for Stage 3 AA test unit excavation will apply:

- *Excavate by 1 m square units;*
- *To determine the placement of test units, establish a grid on the site based on the permanent datum to at least the accuracy of transit and tape measurements. Placing test units in unmeasured, estimated locations is not acceptable;*
- *Excavate test units by hand. Do not use heavy machinery (e.g., gas-powered augers, backhoes) except to remove sterile or recent fill covering confirmed, deeply buried or sealed archaeological sites;*
- *Excavate test units by systematic levels (stratigraphic or standardized);*
- *Excavate test units into the first 5 cm of subsoil, unless excavation uncovers a cultural feature;*

- *If test unit excavation uncovers a cultural feature, do not excavate into feature fill. Instead:*
 - *Record the exposed plan of the feature.*
 - *Place geotextile fabric over the unit floor and backfill the unit;*
- *Screen all excavated soil through mesh with an aperture of no greater than 6 mm. For confirmed single component Palaeo-Indian and Early Archaic archaeological sites, for a sample of units (at least 20% of the total number of units in sandy soil and at least 10% of the total number of units in heavy soil), screen the entire contents of each unit through mesh with an aperture of no greater than 3 mm; and*
- *Unless otherwise specified collect and retain all artifacts. Record and catalogue them by their corresponding grid unit designation.*

Based on the results of the Stage 2 AA there are seven sites that are presently believed to be single component Palaeo-Indian or Early Archaic sites: AfGw-143; AfGw-153; AfGw-164; AfGw-165; AfGw-166; AfGw-167; and AfGx-721. All seven of these sites are located in what are considered to be heavy soils. For these seven sites 10% of the total number of test units excavated (specific number to be determined based on Table 3.1 in the 2010 Standards and Guideline for Consultant Archaeologists) will need to be screened using 3 mm mesh.

The 2010 Standards and Guideline for Consultant Archaeologists also make special Stage 3 AA provisions for large sites and Late Woodland village sites. At present we cannot determine whether the Late Woodland site AfGw-147 in Solar Fields 3 and 6 represents a Late Woodland village site or a smaller special purpose site. As such it does not qualify for the special provisions of the Late Woodland village, but it does qualify as a large site. Accordingly, this one site may only require excavation of 50% of the required total test units, as determined by Table 3.1 of the 2010 Standards and Guideline for Consultant Archaeologists. This determination will only be able to be made in the field after the initiation of the Stage 3 AA and these provisions should be kept in mind during that work.

It should be anticipated that several of the sites will likely require Stage 4 mitigative excavations in the event that project design cannot avoid the sites. Sites of already identified cultural heritage value and interest include all sites with Palaeo-Indian or Early Archaic components, and the Late Woodland site.

With the large number of Aboriginal archaeological sites documented through the Stage 2 AA it is expected that the involvement of First Nations in subsequent Stage 3 and/or Stage 4 AA will increase beyond the current level of the Stage 2 AA. Ongoing Aboriginal consultation will be part of the overall Project development, for archaeological resources and for other environmental components, and is a requirement of the 2010 Standards and Guideline for Consultant Archaeologists. It is recommended that Aboriginal Engagement be carried out as required by the Standards and Guidelines and as outlined in the bulletin Engaging Aboriginal Communities in Archaeology.

Resources Not Requiring Stage 3 Archaeological Assessment

A total of 50 artifact clusters (CL) and 70 isolated findspots (IF) were also documented at Project components during the Stage 2 AA (Table 4-2). None of these resources meet the criteria for sufficient Cultural heritage value or interest as per the 2010 Standards and Guideline for Consultant Archaeologists. None of these resources require further archaeological assessment. Details regarding all identified artifacts (e.g., Scraper 1-5) can be found in the Artifact Catalogue in Appendix B.

Table 4-2 Archaeological Resources Not Requiring Further Assessment

GREP Site #	Location	Easting	Northing	# Tools	# Lithic Flakes	Total # Artifacts	Material Type	Tool Size (in mm)	Cultural Period	Dimensions (in m)	Figure #	Plate #	Comments
CL 1	SF1	596255	4749292	0	2	2	n/a	n/a	Indeterminate	25 X 5	3-1	n/a	
CL 2	SF1	596378	4749049	2	0	2	Bois Blanc	36 x 22 28 x 21	Late Archaic	25 X 10	3-1	2, 4	Point 2-5 Point 2-6
CL 3	SF1	596145	4749020	0	2	2	n/a	n/a	Indeterminate	5 X 5	3-1	n/a	
CL 4	SF1	596136	4748931	0	3	3	n/a	n/a	Indeterminate	60 X 35	3-1	n/a	
CL 5	SF1	596076	4749054	0	4	4	n/a	n/a	Indeterminate	60 X 15	3-1	n/a	
CL 6	SF1	596124	4748835	0	4	4	n/a	n/a	Indeterminate	65 X 40	3-2	n/a	
CL 7	SF1	596270	4748611	1	3	4	Bois Blanc	49 x 31 x 17	Indeterminate	40 X 40	3-2	n/a	Tool 2-1
CL 8	SF1	596504	4748588	1	1	2	Bois Blanc	40 x 26	Early Woodland	35 x 10	3-2	3	Point 2-4
CL 9	SF2	596802	4748763	2	0	2	Bois Blanc	59 x 46 x 24	Indeterminate	35 x 10	3-2	n/a	Core (not kept) , Core 1-4
CL 10	SF2	596509	4749027	0	3	3	n/a	n/a	Indeterminate	10 x 10	3-2	n/a	
CL 11	SF3	596986	4748618	0	2	2	n/a	n/a	Indeterminate	25 x 10	3-3	n/a	
CL 12	SF3	597107	4749098	0	12	12	n/a	n/a	Indeterminate	160 x 70	3-3	n/a	
CL 13	SF3	597062	4749468	1	1	2	Bois Blanc	60 x 66 x 18	Indeterminate	40 x 10	3-3	n/a	Axe 2-1
CL 14	SF4	595986	4749523	0	2	2	n/a	n/a	Indeterminate	25 x 25	3-4	n/a	
CL 15	SF4	596294	4749544	0	7	7	n/a	n/a	Indeterminate	35 X 20	3-4	n/a	
CL 16	SF4	596138	4749583	0	2	2	n/a	n/a	Indeterminate	35 x 15	3-4	n/a	
CL 17	SF4	596271	4749572	0	7	7	n/a	n/a	Indeterminate	30 x 25	3-4	n/a	
CL 18	SF4	596222	4749715	1	2	3	Bois Blanc	28 x 22	Indeterminate	35 x 25	3-4	5	Point 1-15
CL 19	SF4	596169	4750079	1	1	2	Bois Blanc	43 x 28	Late Archaic	40 x 25	3-4	2	Point 2-13
CL 20	SF4	596171	4750142	0	3	3	n/a	n/a	Indeterminate	30 x 10	3-4	n/a	
CL 21	SF4	596102	4749942	0	7	7	n/a	n/a	Indeterminate	65 x 45	3-4	n/a	
CL 22	SF4	596231	4749820	0	3	3	n/a	n/a	Indeterminate	60 x 30	3-4	n/a	
CL 23	SF4	596098	4749815	1	2	3	Bois Blanc	56 x 47 x 17	Indeterminate	45 x 10	3-4	n/a	Core 1-3
CL 24	SF4	596041	4749749	0	6	6	n/a	n/a	Indeterminate	55 x 30	3-4	n/a	
CL 25	SF4	595959	4749714	0	7	7	n/a	n/a	Indeterminate	40 X 30	3-4	n/a	
CL 26	SF5	596444	4749751	0	5	5	n/a	n/a	Indeterminate	40 x 25	3-4	n/a	
CL 27	SF5	596338	4750019	1	1	2	Bois Blanc	27 x 24	Indeterminate	30 x 15	3-4	n/a	Scraper 1-5
CL 28	SF6	596685	4750254	2	0	2	Bois Blanc	36 x 24 x 12 27 x 24	Indeterminate	35 x 20	3-5	5	Core 1-5 Graver 1-1
CL 29	SF7	597032	4749983	0	4	4	n/a	n/a	Indeterminate	30 x 20	3-5	n/a	
CL 30	SF7	597099	4749984	0	6	6	n/a	n/a	Indeterminate	30 x 15	3-5	n/a	
CL 31	SF7	597015	4750305	1	1	2	Bois Blanc	36 x 23	Middle Woodland	40 x 20	3-6	3	Point 1-30
CL 32	SF7	597203	4749883	0	2	2	n/a	n/a	Indeterminate	30 x 15	3-6	n/a	

GREP Site #	Location	Easting	Northing	# Tools	# Lithic Flakes	Total # Artifacts	Material Type	Tool Size (in mm)	Cultural Period	Dimensions (in m)	Figure #	Plate #	Comments
CL 33	SF7	597104	4749687	0	3	3	n/a	n/a	Indeterminate	30 x 10	3-5	n/a	
CL 34	SF7	596893	4750628	1	3	4	prob. Local	64 x 42	Indeterminate	50 x 20	3-6	n/a	Biface 1-10
CL 35	SF8	597470	4750503	0	2	2	n/a	n/a	Indeterminate	25 x 10	3-6	n/a	
CL 36	SF8	597537	4750415	0	2	2	n/a	n/a	Indeterminate	25 x 10	3-6	n/a	
CL 37	SF1	596388	4748416	1	1	2	prob. Local	50 x 38	Indeterminate	25 x 10	3-2	n/a	Biface 2-1
CL 38	SF1	596388	4748482	1	1	2	Bois Blanc	43 x 36	Indeterminate	30 x 15	3-2	4	Point 2-10
CL 39	SF1	596322	4748466	0	3	3	n/a	n/a	Indeterminate	25 x 15	3-2	n/a	
CL 40	T23	591178	4752032	0	2	2	n/a	n/a	Indeterminate	30 x 10	3-9	n/a	
CL 41	T23	591119	4752236	0	5	5	n/a	n/a	Indeterminate	40 x 20	3-9	n/a	
CL 42	T46	590594	4752117	0	2	2	n/a	n/a	Indeterminate	35 x 15	3-9	n/a	
CL 43	T13	594711	4751650	0	3	3	n/a	n/a	Indeterminate	15 x 10	3-11	n/a	
CL 44	T48	594469	4750961	0	2	2	n/a	n/a	Indeterminate	20 x 10	3-12	n/a	
CL 45	T48	594120	4750435	0	6	6	n/a	n/a	Indeterminate	20 x 15	3-12	n/a	
CL 46	T16	594409	4750003	0	3	3	n/a	n/a	Indeterminate	25 x 25	3-13	n/a	
CL 47	T16	594358	4749899	0	2	2	n/a	n/a	Indeterminate	25 x 25	3-13	n/a	
CL 48	T16	594390	4749953	0	2	2	n/a	n/a	Indeterminate	25 x 25	3-13	n/a	
CL 49	T19	606258	4750182	0	6	6	n/a		Indeterminate	85 x 10	3-17	n/a	
CL 50	T36	589998	4755730	0	3	3	n/a	n/a	Indeterminate	50 x 25	3-8	n/a	
IF 1	SF1	596042	4749141	1	0	1	Bois Blanc	49 x 37	Indeterminate	n/a	3-1	5	Biface 1-1
IF 2	SF1	596033	4749102	0	1	1	n/a	n/a	Indeterminate	n/a	3-1	n/a	Isolated lithic flake
IF 3	SF1	596335	4749021	0	1	1	n/a	n/a	Indeterminate	n/a	3-1	n/a	Isolated lithic flake
IF 4	SF1	596462	4748417	1	0	1	Bois Blanc	49 x 37	Indeterminate	n/a	3-2	5	Scraper 2-2
IF 5	SF1	596408	4748428	1	0	1	Bois Blanc	42 x 32	Indeterminate	n/a	3-2	4	Point 2-11
IF 6	SF1	596172	4748742	1	0	1	Bois Blanc	38 x 37	Indeterminate	n/a	3-2	n/a	Biface 1-2
IF 7	SF1	596132	4748742	0	1	1	n/a	n/a	Indeterminate	n/a	3-2	n/a	Isolated lithic flake
IF 8	SF1	596353	4748964	0	1	1	n/a	n/a	Indeterminate	n/a	3-2	n/a	Isolated lithic flake
IF 9	SF1	596245	4748575	0	1	1	n/a	n/a	Indeterminate	n/a	3-2	n/a	Isolated lithic flake
IF 10	SF1	596260	4748649	0	1	1	n/a	n/a	Indeterminate	n/a	3-2	n/a	Isolated lithic flake
IF 11	SF1	596341	4748641	0	1	1	n/a	n/a	Indeterminate	n/a	3-2	n/a	Isolated lithic flake
IF 12	SF1	596385	4748597	1	0	1	Bois Blanc	30 x 29	Indeterminate	n/a	3-2	n/a	Biface 2-2
IF 13	SF2	596545	4748637	1	0	1	Bois Blanc	46 x 35	Late Archaic	n/a	3-2	2	Point 2-17
IF 14	SF2	596547	4748647	1	0	1	Bois Blanc	38 x 32	Indeterminate	n/a	3-2	4	Point 1-13

GREP Site #	Location	Easting	Northing	# Tools	# Lithic Flakes	Total # Artifacts	Material Type	Tool Size (in mm)	Cultural Period	Dimensions (in m)	Figure #	Plate #	Comments
IF 15	SF2	596616	4748820	0	1	1	n/a	n/a	Indeterminate	n/a	3-2	n/a	Isolated lithic flake
IF 16	SF2	596679	4748825	0	1	1	n/a	n/a	Indeterminate	n/a	3-2	n/a	Isolated lithic flake
IF 17	SF2	596812	4748729	0	1	1	n/a	n/a	Indeterminate	n/a	3-2	n/a	Isolated lithic flake
IF 18	SF2	596707	4748741	1	0	1	n/a	25 x 30 x 26	Indeterminate	n/a	3-3	n/a	Grndstn2-1
IF 19	SF2	596719	4748737	1	0	1	Bois Blanc	27 x 19	Late Archaic	n/a	3-3	2	Point 2-18
IF 20	SF2	596731	4748722	1	0	1	n/a	n/a	Euro-Canadian	n/a	3-3	6	19th century smoking pipe
IF 21	SF2	596507	4749146	1	0	1	Bois Blanc	46 x 22	Early Woodland	n/a	3-3	3	Point 1-12
IF 22	SF3	597124	4748771	0	1	1	n/a	n/a	Indeterminate	n/a	3-3	n/a	Isolated lithic flake
IF 23	SF3	596802	4749182	1	0	1	Bois Blanc	38 x 21	Indeterminate	n/a	3-3	n/a	Biface 2-5
IF 24	SF3	597087	4749190	1	0	1	Bois Blanc	36 x 22	Indeterminate	n/a	3-3	n/a	Tool 2-2
IF 25	SF3	597157	4749264	1	0	1	Bois Blanc	36 x 24	Indeterminate	n/a	3-3	4	Point 2-12
IF 26	SF3	597004	4749262	0	1	1	n/a	n/a	Indeterminate	n/a	3-3	n/a	Isolated lithic flake
IF 27	SF3	596946	4749205	0	1	1	n/a	n/a	Indeterminate	n/a	3-3	n/a	Isolated lithic flake
IF 28	SF3	596975	4749436	0	1	1	n/a	n/a	Indeterminate	n/a	3-3	n/a	Isolated lithic flake
IF 29	SF4	596368	4749536	1	0	1	Bois Blanc	38 x 32 mm	Indeterminate	n/a	3-4	n/a	Biface 1-3
IF 30	SF4	596126	4749476	0	1	1	n/a	n/a	Indeterminate	n/a	3-4	n/a	Isolated lithic flake
IF 31	SF4	596193	4749487	0	1	1	n/a	n/a	Indeterminate	n/a	3-4	n/a	Isolated lithic flake
IF 32	SF4	596284	4749660	0	1	1	n/a	n/a	Indeterminate	n/a	3-4	n/a	Isolated lithic flake
IF 33	SF4	596165	4749694	0	1	1	n/a	n/a	Indeterminate	n/a	3-4	n/a	Isolated lithic flake
IF 34	SF4	596247	4749751	1	0	1	Bois Blanc	36 x 22	Middle Woodland	n/a	3-4	3	Point 1-14
IF 35	SF4	596298	4749839	1	0	1	Bois Blanc	35 x 28	Early Woodland	n/a	3-4	3	Point 1-16
IF 36	SF4	596153	4750039	0	1	1	n/a	n/a	Indeterminate	n/a	3-4	n/a	Isolated lithic flake
IF 37	SF4	596150	4749857	0	1	1	n/a	n/a	Indeterminate	n/a	3-4	n/a	Isolated lithic flake
IF 38	SF4	596060	4749694	0	1	1	n/a	n/a	Indeterminate	n/a	3-4	n/a	Isolated lithic flake
IF 39	SF5	596591	4749651	0	1	1	n/a	n/a	Indeterminate	n/a	3-4	n/a	Isolated lithic flake
IF 40	SF5	596265	4750195	0	1	1	n/a	n/a	Indeterminate	n/a	3-4	n/a	Isolated lithic flake
IF 41	SF5	596717	4749694	0	1	1	n/a	n/a	Indeterminate	n/a	3-4	n/a	Isolated lithic flake
IF 42	SF6	596749	4749673	0	1	1	n/a	n/a	Indeterminate	n/a	3-5	n/a	Isolated lithic flake
IF 43	SF6	596767	4749716	0	1	1	n/a	n/a	Indeterminate	n/a	3-5	n/a	Isolated lithic flake
IF 44	SF6	596752	4749764	1	0	1	Bois Blanc	44 x 28	Late Archaic	n/a	3-5	2	Point 1-27
IF 45	SF6	596948	4749752	0	1	1	n/a	n/a	Indeterminate	n/a	3-5	n/a	Isolated lithic flake
IF 46	SF6	596685	4750179	1	0	1	Bois Blanc	53 x 27	Late Archaic	n/a	3-5	2	Point 1-19
IF 47	SF6	596788	4750316	0	1	1	n/a	n/a	Indeterminate	n/a	3-5	n/a	Isolated lithic flake

GREP Site #	Location	Easting	Northing	# Tools	# Lithic Flakes	Total # Artifacts	Material Type	Tool Size (in mm)	Cultural Period	Dimensions (in m)	Figure #	Plate #	Comments
IF 48	SF7	597293	4750032	1	0	1	Bois Blanc	41 x 27	Indeterminate	n/a	3-6	4	Point 1-22
IF 49	SF8	597665	4750148	1	0	1	Bois Blanc	56 x 33	Late Archaic	n/a	3-6	2	Point 1-23
IF 50	SF7	596916	4750590	1	0	1	Bois Blanc	31 x 26	Indeterminate	n/a	3-6	4	Point 1-26
IF 51	SF8	597607	4750174	1	0	1	Bois Blanc	43 x 24	Middle Woodland	n/a	3-6	3	Point 1-24
IF 52	SF8	597600	4750269	1	0	1	Bois Blanc	31 x 16	Late Archaic	n/a	3-6	2	Point 1-29
IF 53	SF8	597564	4750589	0	1	1	n/a	n/a	Indeterminate	n/a	3-6	n/a	Isolated lithic flake
IF 54	SF8	597396	4750478	0	1	1	n/a	n/a	Indeterminate	n/a	3-6	n/a	Isolated lithic flake
IF 55	SF1	596424	4748473	0	1	1	n/a	n/a	Indeterminate	n/a	3-2	n/a	Isolated lithic flake
IF 56	T36	589886	4755449	0	1	1	n/a	n/a	Indeterminate	n/a	3-8	n/a	Isolated lithic flake
IF 57	T45	590112	4753820	0	1	1	n/a	n/a	Indeterminate	n/a	3-8	n/a	Isolated lithic flake
IF 58	T23	591151	4752114	0	1	1	n/a	n/a	Indeterminate	n/a	3-9	n/a	Isolated lithic flake
IF 59	T23	591227	4751891	0	1	1	n/a	n/a	Indeterminate	n/a	3-9	n/a	Isolated lithic flake
IF 60	T23	591095	4752272	0	1	1	n/a	n/a	Indeterminate	n/a	3-9	n/a	Isolated lithic flake
IF 61	T28	591277	4752296	0	1	1	n/a	n/a	Indeterminate	n/a	3-9	n/a	Isolated lithic flake
IF 62	T20	592615	4749466	0	1	1	n/a	n/a	Indeterminate	n/a	3-10	n/a	Isolated lithic flake
IF 63	T16	594290	4749960	0	1	1	n/a	n/a	Indeterminate	n/a	3-13	n/a	Isolated lithic flake
IF 64	T12	601602	4747206	1	0	1	Bois Blanc	40 x 33	Indeterminate	n/a	3-15	5	Biface 2-7
IF 65	T12	601497	4747141	1	0	1	Bois Blanc	46 x 23	Indeterminate	n/a	3-15	n/a	Biface 2-6
IF 66	T19	606321	4749345	0	1	1	n/a	n/a	Indeterminate	n/a	3-17	n/a	Isolated lithic flake
IF 67	T40	604246	4749585	0	1	1	n/a	n/a	Indeterminate	n/a	3-17	n/a	Isolated lithic flake
IF 68	T40	604256	4749554	1	0	1	Bois Blanc	26 x 29	Indeterminate	n/a	3-17	4	Point 2-23
IF 69	T55	600236	4746268	1	0	1	Bois Blanc	44 x 25	Late Archaic	n/a	3-15	2	Point 2-22
IF 70	T55	600232	4746205	0	1	1	n/a	n/a	Indeterminate	n/a	3-15	n/a	Isolated lithic flake

Advice on Compliance with Legislation

At the close of the 2010 field season Stage 2 AA had not been completed for access roads and turbine pads for 16 turbine installations. All of these areas are slated to be assessed using a pedestrian survey methodology. The total area left to be assessed is 61 ha, or approximately 14% of the total of 420 ha that Stantec was scheduled to assess. It is anticipated that the remaining Stage 2 AA will require about 12 person days of field time to complete. It is recommended that the remaining Stage 2 and 3 assessment work for this project be completed as required under the Ontario Heritage Act and that the Ministry of Tourism and Culture provide concurrence with the recommendations made within this report by accepting it into the Ontario Public Register Archaeology Reports.

Stantec cautions, however, that it is possible that deeply buried archaeological resources, could still exist within the limits of the proposed project and that the following standard conditions will continue to apply:

- It is an offence under Sections 48 and 69 of the Ontario Heritage Act for any party other than a licensed archaeologist to make any alteration to a known archaeological site or to remove any artifact or other physical evidence of past human use or activity from the site, until such time as a licensed archaeologist has completed archaeological fieldwork on the site, submitted a report to the Minister stating that the site has no further cultural heritage value or interest, and the report has been filed in the Ontario Public Register of Archaeology Reports referred to in Section 65.1 of the Ontario Heritage Act;*
- Should previously undocumented archaeological resources be discovered, they may be a new archaeological site and therefore subject discovering the archaeological resources must cease alteration of the site immediately and engage a licensed consultant archaeologist to carry out archaeological fieldwork, in compliance with Section 48 (1) of the Ontario Heritage Act; and*
- The Cemeteries Act, R.S.O. 1990 c. C.4 and the Funeral, Burial and Cremation Services Act, 2002, S.O. 2002, c.33 (when proclaimed in force) require that any person discovering human remains must notify the police or coroner and the Registrar of Cemeteries at the Ministry of Consumer Services.*

Stage 2 Report (Licence/PIF # P218-012-2010), February 2011, Received February 4, 2011

The Stage 2 archaeological assessment of a portion of the proposed project was undertaken by Golder, on behalf of Stantec, in order to meet the requirements of an environmental assessment conducted under the Renewable Energy Act, as outlined in Ontario Regulation 359/09 section 22(3). The Stage 2 Assessment was conducted from December 2nd, 2010 to December 22nd, 2010 and January 2nd, 2011 to January 3rd, 2011. This work was conducted under archaeological consulting licence P218, issued to Scott Martin, Ph.D., by the Ontario Ministry of Tourism and Culture. The Stage 2 assessment focused upon the proposed wind turbine and solar lands layout, including turbine sites, collector cable routes, access roads, construction roads, transmission lines, laydown areas and substations. A total of approximately 75 hectares was subject to Stage 2 archaeological assessment.

The remainder of the project area, consisting entirely of ploughed agricultural fields (total of approximately 102 hectares), will be assessed when weather conditions allow using the pedestrian survey method at five metre intervals. In total, 20 turbine locations, 11 access road or collector

cable routes and two portions of solar panel lands still need to be assessed. This remaining work is estimated to take a crew of 6 individuals, three field days, after which time the Stage 2 assessment will be complete.

The Stage 2 archaeological assessment resulted in the identification of 55 locations, comprising 54 pre-contact Aboriginal sites and one historic Euro-Canadian site. In summary, 25 of the 55 archaeological locations identified within the study area are recommended for Stage 3 assessment. It is recommended that these sites be subject to a Stage 3 archaeological investigation to further evaluate their cultural heritage value or interest.

The following recommendations are made concerning these locations.

Sites Recommended for Stage 3 Assessment

Table 3 lists the pre-contact Aboriginal sites requiring Stage 3 assessment. Of the 54 pre-contact Aboriginal archaeological locations recorded, 25 of them are being recommended for further archaeological assessment.

Table 1: Pre-contact Aboriginal Sites Requiring Stage 3 Archaeological Assessment

Site Name	Borden Number	Cultural Affiliation	Date
Location 2	AfGw-168	pre-contact Aboriginal	indeterminate
Location 5	AfGw-169	pre-contact Aboriginal	indeterminate
Location 12	AfGw-170	pre-contact Aboriginal	c. 3780-3200 B.C.
Location 15	AfGw-171	pre-contact Aboriginal	indeterminate
Location 16	AfGw-172	pre-contact Aboriginal	indeterminate
Location 17	AfGw-173	pre-contact Aboriginal	indeterminate
Location 18	AfGw-174	pre-contact Aboriginal	indeterminate
Location 21	AfGw-175	pre-contact Aboriginal	indeterminate
Location 24	AfGw-176	pre-contact Aboriginal	indeterminate
Location 29	AfGw-177	pre-contact Aboriginal	indeterminate
Location 30	AfGw-178	pre-contact Aboriginal	indeterminate
Location 34	AfGw-179	pre-contact Aboriginal	c. 500 B.C. - A.D. 1
Location 38	AfGw-180	pre-contact Aboriginal	indeterminate
Location 39	AfGx-722	pre-contact Aboriginal	indeterminate
Location 41	AfGw-182	pre-contact Aboriginal	indeterminate
Location 44	AfGw-183	pre-contact Aboriginal	indeterminate
Location 45	AfGx-723	pre-contact Aboriginal	indeterminate
Location 46	AfGx-724	pre-contact Aboriginal	indeterminate
Location 47	AfGx-725	pre-contact Aboriginal	indeterminate
Location 48	AfGx-726	pre-contact Aboriginal	indeterminate
Location 49	AfGx-727	pre-contact Aboriginal	indeterminate
Location 50	AfGx-728	pre-contact Aboriginal	indeterminate

Site Name	Borden Number	Cultural Affiliation	Date
Location 51	AfGx-729	pre-contact Aboriginal	indeterminate
Location 52	AfGx-730	pre-contact Aboriginal	indeterminate
Location 53	AfGx-731	pre-contact Aboriginal	indeterminate

Sites Not Requiring any Further Archaeological Assessment

Table 4 lists the pre-contact Aboriginal sites not requiring Stage 3 assessment. Of the 54 pre-contact Aboriginal archaeological locations recorded, 29 of them have been sufficiently documented and require no further archaeological assessment.

Table 2: Pre-contact Aboriginal Sites Not Requiring Any Further Archaeological Assessment

Site Name	Borden Number	Cultural Affiliation	Date
Location 1	none	pre-contact Aboriginal	indeterminate
Location 3	none	pre-contact Aboriginal	indeterminate
Location 4	none	pre-contact Aboriginal	indeterminate
Location 6	none	pre-contact Aboriginal	indeterminate
Location 7	none	pre-contact Aboriginal	indeterminate
Location 8	none	pre-contact Aboriginal	indeterminate
Location 9	none	pre-contact Aboriginal	indeterminate
Location 10	none	pre-contact Aboriginal	indeterminate
Location 11	none	pre-contact Aboriginal	indeterminate
Location 13	none	pre-contact Aboriginal	indeterminate
Location 14	none	pre-contact Aboriginal	indeterminate
Location 19	none	pre-contact Aboriginal	indeterminate
Location 20	none	pre-contact Aboriginal	indeterminate
Location 22	none	pre-contact Aboriginal	indeterminate
Location 23	none	pre-contact Aboriginal	indeterminate
Location 25	none	pre-contact Aboriginal	indeterminate
Location 26	none	pre-contact Aboriginal	indeterminate
Location 27	none	pre-contact Aboriginal	indeterminate
Location 28	none	pre-contact Aboriginal	indeterminate
Location 31	none	pre-contact Aboriginal	indeterminate
Location 32	none	pre-contact Aboriginal	indeterminate
Location 33	none	pre-contact Aboriginal	indeterminate
Location 35	none	pre-contact Aboriginal	indeterminate
Location 36	none	pre-contact Aboriginal	indeterminate
Location 37	none	pre-contact Aboriginal	indeterminate
Location 42	none	pre-contact Aboriginal	indeterminate

Site Name	Borden Number	Cultural Affiliation	Date
Location 43	none	pre-contact Aboriginal	indeterminate
Location 54	none	pre-contact Aboriginal	indeterminate
Location 55	none	pre-contact Aboriginal	indeterminate

Table 5 lists the single historic Euro-Canadian site not requiring Stage 3 assessment. Of the one Historic Euro-Canadian archaeological location recorded, zero of them are being recommended for further archaeological assessment.

Table 3: Historic Euro-Canadian Sites Not Requiring Any Further Archaeological Assessment

Site Name	Borden Number	Cultural Affiliation	Date
Location 40	AfGw-181	historic Euro-Canadian	Late 19 th Century

In summary, 25 of the 55 archaeological locations identified within the study area are recommended for Stage 3 assessment since they are judged to be of cultural heritage value or interest requiring further documentation.

This assessment was undertaken in order to meet the requirements of an environmental assessment conducted under the Renewable Energy Approval (REA) process, as outlined in Ontario Regulation 359/09 section 22(3). The Ontario Ministry of Tourism and Culture is asked to review the results presented and to accept this report into the Ontario Public Register of Archaeological Reports. Additional archaeological assessment is still required and so the archaeological sites recommended for further archaeological fieldwork remain subject to Section 48(1) of the Ontario Heritage Act and may not be altered, or have artifacts removed, except by a person holding an archaeological licence.

This report is submitted to the Minister of Culture as a condition of licensing in accordance with Part VI of the Ontario Heritage Act, R.S.O. 1990, c 0.18. The report is reviewed to ensure that the licensed consultant archaeologist has met the terms and conditions of their archaeological licence, and that the archaeological fieldwork and report recommendations ensure the conservation, protection and preservation of the cultural heritage of Ontario.

Should previously undocumented archaeological resources be discovered, they may be a new archaeological site and therefore subject to Section 48(1) of the Ontario Heritage Act. The proponent or person discovering the archaeological resources must cease alteration of the site immediately and engage a licensed consultant archaeologist to carry out archaeological fieldwork, in compliance with sec. 48(1) of the Ontario Heritage Act.

The Cemeteries Act requires that any person discovering human remains must notify the police or coroner and the Registrar of Cemeteries, Ministry of Consumer Services.

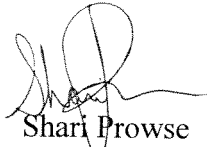
With respect to the areas assessed to date, and based on the information provided to the Ministry, the Ministry is satisfied with these recommendations.

This letter does not waive any requirements which you may have under the Ontario *Heritage Act*. A separate letter addressing archaeological licensing obligations under the Act will be sent to the archaeologist who completed the assessment and will be copied to you.

This letter does not constitute approval of the renewable energy project. Approvals of the project may be required under other statutes and regulations. It is your responsibility to obtain any necessary approvals or licences.

Please feel free to contact me if you have questions or require additional information.

Sincerely,



Shari Prowse
Archaeology Review Officer

- cc. Dr. Scott Martin, Golder Associates
- Mr. Colin Varley, Stantec Consulting Ltd.
- Mr. Rob Nadolny, Senior Project Manager, Stantec Consulting Ltd.

*In no way will the Ministry be liable for any harm, damages, costs, expenses, losses, claims or actions that may result: (a) if the Report(s) or its recommendations are discovered to be inaccurate, incomplete, misleading or fraudulent; or (b) from the issuance of this letter. Further measures may need to be taken in the event that additional artifacts or archaeological sites are identified or the Report(s) is otherwise found to be inaccurate, incomplete, misleading or fraudulent.

Friedl, Susanne

From: Uchiyama, Christienne
Sent: Thursday, March 17, 2011 10:54 AM
To: Hatcher, Laura (MTC)
Cc: Varley, Colin; Kozak, Mark; Nadolny, Rob; m.dawson@samsungrenewableenergy.ca
Subject: FW: Stantec FTP Confirmation - SAMSUNG GREP - HERITAGE ASSESSMENTS

Follow Up Flag: Follow up
Flag Status: Flagged

Hi Laura,

Please find below instructions for downloading the revised Heritage Assessment and Protected Properties Reports for the Samsung Grand Renewable Energy Project in Haldimand County (MTC file no. 28EA021). We trust that we have addressed all of the comments from your letter dated February 16th.

Please don't hesitate to contact me should you have any questions or concerns regarding the revised reports.

Regards,
Chris

Christienne Uchiyama

Archaeologist and Heritage Planning Consultant

200 - 2781 Lancaster Road

Ottawa ON K1B 1A7

Ph: (613) 738-0708 Ext. 3278

Fx: (613) 738-0721

Cell: (613) 327-0427

Christienne.Uchiyama@stantec.com

stantec.com

Automatic Login

FTP site link: <ftp://s0331082156:6829724@ftptmp.stantec.com>

By clicking on the link above (or pasting the link into Windows Explorer) you will be automatically logged into your FTP site.

Manual Login

FTP link: <ftp://ftptmp.stantec.com>

Login name: s0331082156

Password: 6829724

Disk Quota: 2GB

Expiry Date: 3/31/2011

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 Please consider the environment before printing this email.

From: Toneatto, Mariflor (MTC)

Sent: March 25, 2011 2:33 PM

To: Ing, Pearl (MEI); Dumais, Doris (ENE)

Cc: Ratchford, Donna (MTC); Armstrong, Peter (MTC); Schiller, Chris (MTC); Jakob, Marlo (MTC)

Subject: KC Samsung - MTC Letter

Hi Pearl and Doris,

Just to confirm our telephone discussion this afternoon, the interim comments letter to Samsung dated March 15th enables Samsung to initiate their final public consultations process, with the understanding that the remaining Stage 2 archaeological assessment work will be completed, and a final MTC comments letter will be issued to support the submission of their REA Application.

Pearl, thank you for following up with KC/Samsung to relay this information.

Regards,

Mariflor

Mariflor Toneatto

Manager, Culture Programs Unit

Ministry of Tourism and Culture

401 Bay Street, Suite 1700

Toronto, ON M7A 0A7

T: 416-314-7452

E: mariflor.toneatto@ontario.ca

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Ministère du Tourisme et de la Culture

Unité des services culturels
Direction des programmes et des services
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Télééc. : 416 314-7175



April 1, 2011

Christienne Uchiyama
Archaeologist and Heritage Planning Consultant
200 - 2781 Lancaster Road
Ottawa, Ontario
K1B 1A7

Dear Ms. Uchiyama,

RE: Heritage Assessment for Grand Renewable Energy Park

Various Lots located within the area bounded by Townline Road, Haldimand Road 20, Grand River, and Lake Erie, County of Haldimand

MTC file no. 28EA021

We hereby acknowledge receipt of the revised Heritage Assessment (consisting of two documents: a *Protected Properties Report* and a *Heritage Impact Assessment Report*) for the above-referenced project, as part of the *Environmental Protection Act's* Renewal Energy Approvals (REA) process under Ontario Regulation 359/09.

We have reviewed the reports and have no further comments on the *Protected Properties Report*, and the following comments on the ***Heritage Impact Assessment Report***.

Section 4.6 of the heritage impact assessment shows an electrical transmission component on Figure 4-6. This section discusses the visual impact of the solar panels on the surrounding heritage resources, but does not discuss the impact of the electrical transmission component. Information about the appearance and impact of this transmission component should be included in the report.

Section 4.6 also mentions the use of berms as an effective way to limit the visibility of the solar panels. This mitigation measure was not mentioned in the previous version of the report. Was this mitigation strategy introduced as a result of considerations of the project's impacts on heritage resources? If so, it is suggested that this mitigation strategy is presented in the results and recommendations section of the report, as it demonstrates the proponent will be taking measures to mitigate project impacts on heritage resources.

Thank you for providing additional images and information regarding the Lakeshore Road CHL (Section 4.10). The report would benefit from presenting further information on the character defining elements of this CHL, and discussion of impacts. While it is understood that the road is sheltered by a dense tree canopy in many places, which will limit views of distant project

infrastructure when the viewer is located beneath the canopy, photo 6 in this section shows a more open view across the waterfront from one portion of the CHL to another section. Are views of this type also important character defining attributes of this CHL? If so, it is requested that they are identified as such in the report, along with visual modelling of project infrastructure from key vantage points.

The above are comments from the Ministry of Tourism and Culture on the submitted report. These recommendations should be incorporated into a report to be resubmitted to the Ministry of Tourism and Culture. The revised report may be submitted electronically as a pdf. Once the report is finalized and MTC has issued a letter of acceptance, hard copies of the report may follow.

Please contact the undersigned if you have any questions or wish to discuss these comments further.

Sincerely,

A handwritten signature in black ink, appearing to read 'L. Hatcher', written in a cursive style.

Laura Hatcher
Heritage Planner
laura.hatcher2@ontario.ca

Ministry of Tourism and Culture

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Télééc. : 416 314-7175



April 1, 2011

Christienne Uchiyama
Archaeologist and Heritage Planning Consultant
200 - 2781 Lancaster Road
Ottawa, Ontario
K1B 1A7

Dear Ms. Uchiyama,

RE: Heritage Assessment for Grand Renewable Energy Park

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MTC file no. 28EA021

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We have reviewed the reports and have no further comments on the *Protected Properties Report*, and the following comments on the ***Heritage Impact Assessment Report***.

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Section 4.6 also mentions the use of berms as an effective way to limit the visibility of the solar panels. This mitigation measure was not mentioned in the previous version of the report. Was this mitigation strategy introduced as a result of considerations of the project's impacts on heritage resources? If so, it is suggested that this mitigation strategy is presented in the results and recommendations section of the report, as it demonstrates the proponent will be taking measures to mitigate project impacts on heritage resources.

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infrastructure when the viewer is located beneath the canopy, photo 6 in this section shows a more open view across the waterfront from one portion of the CHL to another section. Are views of this type also important character defining attributes of this CHL? If so, it is requested that they are identified as such in the report, along with visual modelling of project infrastructure from key vantage points.

The above are comments from the Ministry of Tourism and Culture on the submitted report. These recommendations should be incorporated into a report to be resubmitted to the Ministry of Tourism and Culture. The revised report may be submitted electronically as a pdf. Once the report is finalized and MTC has issued a letter of acceptance, hard copies of the report may follow.

Please contact the undersigned if you have any questions or wish to discuss these comments further.

Sincerely,

A handwritten signature in black ink, appearing to read 'L. Hatcher', written in a cursive style.

Laura Hatcher
Heritage Planner
laura.hatcher2@ontario.ca

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Télécopieur: 416 314 7175
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April 19, 2011

Marnie Dawson
Manager, Renewable Energy Approvals
Samsung Renewable Energy
55 Standish Court
Mississauga, Ontario
L5R 4B2

RE: **Grand Renewable Energy Park**

Various Lots located within the area bounded by Townline Road, Haldimand Road 20, Grand River, and Lake Erie, County of Haldimand

MTC DPR file no. 28EA021

Dear Ms. Dawson:

This letter constitutes the Ministry of Tourism and Culture's written comments as required by s. 23(3)(a) of O. Reg. 359/09 under the *Environmental Protection Act* regarding heritage assessments undertaken for the above project.

Based on the information contained in the reports you have submitted for this project, the Ministry is satisfied with the heritage assessments. Please note that the Ministry makes no representation or warranty as to the completeness, accuracy or quality of the heritage assessment reports.*

The reports recommend the following:

Protected Properties Assessment Section 6: Study Results and Recommendations:

A total of four (4) municipally designated properties were identified within a reasonable zone of influence of Project components (Figure 4-1). Each of these properties has been assessed for potential Project-related negative impacts. Evaluation of impacts included: destruction, alteration, shadows, isolation, direct or indirect obstruction of views, and change in land use.

No potential negative impacts of significant magnitude have been identified.

Heritage Impact Assessment Section 5: Study Results and Recommendations:

A total of 85 properties and seven cultural landscapes within the Project's zone of influence were evaluated as being significant in terms of their heritage value. All of the significant properties and cultural landscapes were assessed for potential Project-related negative impacts.

No significant resources will be destroyed by the proposed Project.

No significant resources will be altered by the proposed Project.

No significant resources will have shadows cast on them by the proposed Project.

No significant resources will be isolated by the proposed Project.

No views of significant resources and/or their value-defining features will be obscured in an invasive manner.

Based on the current Site Plan, no further mitigation is recommended.

The Ministry is satisfied with these recommendations.

This letter does not waive any requirements which you may have under the Ontario *Heritage Act*. Also, this letter does not constitute approval of the renewable energy project. Approvals of the project may be required under other statutes and regulations. It is your responsibility to obtain any necessary approvals or licences.

Please feel free to contact me if you have questions or require additional information.

Sincerely,



Laura Hatcher
Heritage Planner

cc. Christienne Uchiyama, Archaeologist and Heritage Planning Consultant
Stantec

Colin Varley, Senior Archaeologist and Heritage Planning Consultant
Stantec

Chris Schiller, Manager, Culture Services Unit
Programs and Services Branch, Ministry of Tourism and Culture

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Transmittal



Stantec

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Tel: (613) 738-0708
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To: Laura Hatcher
Company: Ministry of Tourism and Culture
Address: 401 Bay Street, Suite 1700
Toronto, ON
M7A 0A7
Phone: 416 314-3108
Date: April 25, 2011
File: MTC file no.28EA021
Delivery: Courier

From: Christienne Uchiyama
 For Your Information
 For Your Approval
 For Your Review
 As Requested

Reference: Grand Renewable Energy Park, Protected Properties Assessment and Heritage Impact Assessment

Attachment:

Copies	Doc Date	Pages	Description
3	March 15, 2011	23, plus appendices	Final Report: Protected Properties Assessment, Grand Renewable Energy Project, Haldimand County, ON
3	April 11, 2011	111, plus appendices	Final Report: Heritage Impact Assessment, Grand Renewable Energy Project, Haldimand County, ON

Please find enclosed three (3) hardcopies and a CD containing electronic copies of the Protected Properties Report and the Heritage Impact Assessment for the Grand Renewable Energy Park in Haldimand County, Ontario. Please do not hesitate to contact me should you have any questions or concerns.

STANTEC CONSULTING LTD.

A handwritten signature in blue ink, appearing to read 'Christienne Uchiyama', is written over the printed name and title.

Christienne Uchiyama
Archaeologist and Heritage Planning Consultant
Tel: (613) 738-0708
Fax: (613) 738-0721
Christienne.Uchiyama@stantec.com

c. file

One Team. Infinite Solutions.

Ministry of Tourism and Culture
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Programs & Services Br.
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Tel: 519-675-6898
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July 25, 2011

Dr. Scott Martin
Golder Associates Ltd.
309 Exeter Road, Unit #1
London, Ontario N6L 1C1

RE: Review of the Archaeological Assessment Report Entitled, “Stage 2 Archaeological Assessment, Samsung Grand Renewable Energy Park, Various Lots, Concession 1N-3N and 1S-5S, The Earl Tract, The Haldimand Tract and the Sheehan Tract, Dunn Townships, Concessions 1-9, Rainham Township, Concessions 1 N, 1S, 2, 3 and The Jones Tract, North Cayuga Township, Concessions 3-7 and the Fradenburgh Tract, South Cayuga Township and Concessions 1-12, Walpole Township, Haldimand County, Ontario”, July 2011, Received July 11, 2011, Licence/PIF # P218-098-2010 and P218-023-2011, MTC File HD00565

Dear Dr. Martin:

This office has reviewed the above-mentioned report which has been submitted to this Ministry as a condition of licensing in accordance with Part VI of the Ontario Heritage Act, R.S.O. 1990, c 0.18. This review is to ensure that the licensed professional consultant archaeologist has met the terms and conditions of their archaeological licence, that archaeological sites have been identified and documented according to the 1993 technical guidelines set by the Ministry and that the archaeological fieldwork and report recommendations ensure the conservation, protection and preservation of the cultural heritage of Ontario.*

In reviewing this report, specific issues have been identified that need to be addressed. These include:

The number of archaeological sites reported to have been found on Page i and 1 is inconsistent with what was reported on Page 116. Clarify.

The report will require information regarding archaeological sites found (e.g. Borden number, name, cultural affiliation, recommendations for additional assessment) within the projects lands not documented within this report subsequent to the Stage 1 background research.

For the Early Archaic sites, Location 66 and Location 88, it is recommended that for a sample of units (at least 20% of the total number of units in sandy soil and at least 10% of the total number of units in heavy soil), screen the entire contents of each unit through mesh with an aperture of no greater than 3 mm.

It is not clear why Stage 3 is recommended for Location 109, an isolated early Late Woodland projectile point, and not other locations with isolated projectile points, for example, Location 87, Location 136 and Location 149. Clarify.

On Page 50, Location 118 is referred to as Location 110 and on Page 68 Location 166 is referred to as Location 156. Clarify.

Location 155 does not appear to be mapped. In order to facilitate the review of the report, identify within the sections discussing each site the map it is illustrated on.

For each archaeological site, confirm if intensification occurred when artifacts were identified. This was not always indicated. For example, it is mentioned for Location 174 but not for Location 173 or for Location 177.

This letter does not constitute the Ministry's written comments for the purposes of O. Reg 359/09.

A revised report must be received by the Ministry on or prior to 90 calendar days. Please note that licensees who fail to file reports by the specified report filing deadline will be in violation of the terms and conditions of their licence.

If the revised report will also require an expedited review, please include a request for expedited review upon submission.

I trust this information is of assistance. Should you require any further information regarding this matter, please feel free to contact me.

Sincerely,



Shari Prowse
Archaeology Review Officer

cc. Archaeology Licence Office

* In no way will the Ministry be liable for any harm, damages, costs, expenses, losses, claims or actions that may result: (a) if the 2 Report(s) or its recommendations are discovered to be inaccurate, incomplete, misleading or fraudulent; or (b) from the issuance of this letter. Further measures may need to be taken in the event that additional artifacts or archaeological sites are identified or the Report(s) is otherwise found to be inaccurate, incomplete, misleading or fraudulent.

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July 25, 2011

Mr. Colin Varley
Stantec Consulting Ltd.
2781 Lancaster Road
Ottawa, ON K2B 1A7

Re: Review of the Archaeological Assessment Report Entitled, “Final Report, Stage 2 Archaeological Assessment, SPK Grand Renewable Energy Park, Haldimand County, Ontario, Cayuga Township – Lot 39, Concession 1 South; Lot 25, Concession 5 South Rainham Township – Lot 8, Concession 6; Lot 24, Concession 1, Dunn Township – Lot 4, Concession 1 North of Rainham Road; Lots 7-9, Concession 1 North of Rainham Road; Lots 15-17, Concession 2, South of Rainham Road; Lots 21-24, Concession 2, South of Rainham Road”, July 6, 2011, Received July 11, 2011, Licence/PIF # P002-222-2011, MTC File HD00565

Dear Mr. Varley,

This office has reviewed the above-mentioned report, which has been submitted to this Ministry as a condition of licensing in accordance with Part VI of the Ontario Heritage Act, R.S.O. 1990, c 0.18. This review is to ensure that the licensed professional consultant archaeologist has met the terms and conditions of their archaeological licence, that archaeological sites have been identified and documented according to the 2011 Standards and Guidelines for Consultant Archaeologists set by the Ministry, and that the archaeological fieldwork and report recommendations ensure the conservation, protection and preservation of the cultural heritage of Ontario.*

In reviewing this report, specific issues have been identified that need to be addressed. These include:

The report refers to requirements of the 2010 Standards and Guidelines; however, the Standards and Guidelines that are currently in force are the 2011 Standards and Guidelines for Consultant Archaeologists. Revise the report accordingly.

As per Section 7.4 Standard 5f, the Cover Letter is required to provide the PIF #s of other reports (projects) undertaken for this development.

As per Section 7.5.1 Standard 1d, the Cover Page is required to indicate the type of report (i.e. original, revised, preliminary).

As per Section 7.5, the report is required to contain the sections listed in the first column of Table 7.1. The information required in each section and the sections themselves must be provided

separately (e.g. Map and Images go in their own sections as well as “Field Methods” and “Records and Finds” from the section “Stage 2 Assessment Methodology and Reroc(sci) of Finds”). To avoid confusion and facilitate review, it is recommended that you use the same titles as listed in Table 7.1 to identify the required sections.

As per Section 7.8.2 Standard 3, the detailed site location information and mapping for all archaeological sites must be submitted separately as supplementary information.

Section 2.2 Standard 2 of the 2011 Standards and Guidelines provides criteria for determining when an archaeological site requires Stage 3 assessment, not when archaeological resources are defined as archaeological sites with cultural heritage value and interest. Archaeological resources must have cultural heritage value and interest to meet the definition of “artifact” and “archaeological site” under the *Ontario Heritage Act*. The artifact clusters and artifact findspots detailed in the report do meet the definition of archaeological sites. Revise report accordingly.

As per Section 7.8.1 Standard 1a and 1b, the report will require images of those areas with low or no archaeological potential or disturbed. Some of these are missing from the report. For example, photographs of all the areas marked as disturbed in Figure 3-6 and drainage channel bisected the T41 pad were not provided in the report.

As per Section 7.5.12 Standard 1, the scale of the regional map (Figure 2-1) must be no larger than 1:50,000 and no smaller than 1:25,000.

As per Section 7.8.1 Standard 3, the report will need to provide estimates (in metric as per Section 7.5 Standard 2) and of the percentages of the areas assessed based on the applicable categories described in Section 7.8.1 Standard 3a-c.

As per Section 7.8.1 Standard 2, the report is required to confirm that standards for the various survey methods were met. For pedestrian survey this is found in Section 2.1.1 Standards 1-9 and for test pit survey this is found in Section 2.1.2 Standards 1-9. For example, in terms of those areas subject to test pit method of assessment, it must be demonstrated that the property met the criteria for ploughing not being possible as per Section 2.1.2 Standard 1 of the 2011 Standards and Guidelines. This was not done for all areas subject to test pitting, for example, the “unploughed lawn area” mentioned on Page 26, and a “small turn around area” mentioned on Page 28. If it cannot be demonstrated that ploughing is not possible or the lands should have been subject to a pedestrian survey instead, these areas must be ploughed, allowed to weather and subject to pedestrian survey.

As per Section 2.1.1 Standard 5, if surface visibility is below 80%, (e.g. due to crop stubble), ensure the land is reploughed and weathered before survey. It is not clear based on statements regarding the assessment at the edge of Complex 3 where Cluster #56 is located (Page 22), if the visibility was sufficient for the Stage 2 pedestrian survey. Please clarify. Also, it is indicated that the corn stalks were removed through raking to assist in the Stage 2 intensification. This is not an accepted standard or guideline of increasing surface visibility as it may move artifacts along with the debris. As such, the site area for Cluster # 56 must be reploughed, allowed to weather, and be subject to an intensified pedestrian survey as per Section 2.1.1 Standard 7.

As per Section 2.1.3, Standard 2a and 2b when artifacts are found during a test pit survey, for example Cluster #58 and #59, you may excavate a maximum 8 additional test pits and one or more test units or, Option B, excavate additional 1 metre test units within 5 metres of the positive test pit. Neither option was chosen. Please clarify.

The report will need to provide information regarding archaeological sites found (e.g. Borden number, name, cultural affiliation, recommendations for additional assessment) within the projects lands not documented within this report subsequent to the Stage 1 background research.

The figures illustrating the area assessed and methods used and results will need to differentiate between what was surveyed under PIF P002-222-2011 and what was surveyed previously under P002-211-2010. Survey conducted previously by other consultants should also be illustrated where it impacts (e.g. where it overlaps or is adjacent to) the areas assessed as documented within this report.

As per Section 7.8.2 Standard 2, provide an inventory of the documentary report generated in the field (e.g. photographs, maps, field notes).

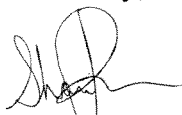
This letter does not constitute the Ministry's written comments for the purposes of O. Reg 359/09.

A revised report must be received by the Ministry on or prior to 90 calendar days. Please note that licensees who fail to file reports by the specified report filing deadline will be in violation of the terms and conditions of their licence.

If the revised report will also require an expedited review, please include a request for expedited review upon submission.

I trust this information is of assistance. Should you require any further information regarding this matter, please feel free to contact me.

Sincerely,



Shari Prowse
Archaeology Review Officer

cc. MTC Archaeology Licence Office

* In no way will the Ministry be liable for any harm, damages, costs, expenses, losses, claims or actions that may result: (a) if the Report(s) or its recommendations are discovered to be inaccurate, incomplete, misleading or fraudulent; or (b) from the issuance of this letter. Further measures may need to be taken in the event that additional artifacts or archaeological sites are identified or the Report(s) is otherwise found to be inaccurate, incomplete, misleading or fraudulent.



Stantec

Transmittal

Stantec Consulting Ltd.
2781 Lancaster Road,
Ottawa, ON K1B 1A7
Tel: (613) 738-0708
Fax: (613) 738-0721

To:	Wai Kok	From:	Colin Varley (License #P002)
Company:	Ministry of Tourism and Culture	Date:	August 4, 2011
Address:	Culture Programs Unit 401 Bay Street, Suite 1700 Toronto, ON M7A 0A7	File:	161010624
Phone:	416-212-5107	Delivery:	Courier

Reference: PIF # P002-222-2011 Stage 2 Archaeological Assessment, SPK Grand Renewable Energy Park, Haldimand County, Ontario, Cayuga Township – Lot 39, Concession 1 South; Lot 25, Concession 5 South Rainham Township – Lot 8, Concession 6; Lot 24, Concession 1 Dunn Township – Lot 4, Concession 1 North of Rainham Road; Lots 7-9, Concession 1 North of Rainham Road; Lots 15-17, Concession 2 South of Rainham Road; Lots 21-24, Concession 2 South of Rainham Road – REVISED REPORT

Please find enclosed reports for the above noted project and for the following proponent and approval authority. Other PIFs undertaken for this development include Stantec PIFs P002-208-2010 and P002-211-2010 and Golder PIFs P218-012-2010 and P218-123-2011.

Samsung Renewable Energy Inc., Adam Rosso, 55 Standish Court, Mississauga, ON L5R 4B2, Tel: 905-285-1872 Fax: 905-819-1852 Email: a.rosso@samsungrenewableenergy.ca

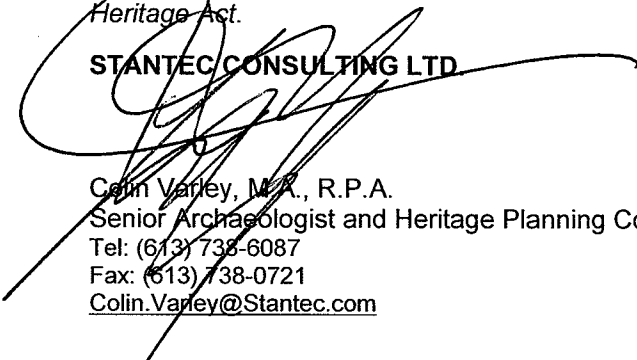
Ministry of the Environment – Approvals Program, Doris Dumais – Director, 2 St. Clair Ave West 12th floor, Toronto, Ontario M4V 1M2 ph: 416-314-8171 fax: 416-314-8457 doris.dumais@ontario.ca Renewable Energy Approvals (O. Reg. 359/09)

Attachment:

Copies	Report Type	Doc Date	Pages	Description
3	Revised	August 4, 2011	56 +2 Appendices	Final Report, Stage 2 Archaeological Assessment, SPK Grand Renewable Energy Park, Haldimand County, Ontario

I, the undersigned, hereby declare that, to the best of my knowledge, the information in this report and submitted in support of this report is complete and accurate in every way, and I am aware of the penalties against providing false information under section 69 of the *Ontario Heritage Act*.

STANTEC CONSULTING LTD



Colin Varley, M.P., R.P.A.
Senior Archaeologist and Heritage Planning Consultant
Tel: (613) 738-6087
Fax: (613) 738-0721
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c. File; Marnie Dawson, Samsung Renewable Energy Inc.

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September 21, 2011

Kyoung Chun Kim
Manager, Renewable Energy Approvals
Samsung Renewable Energy
55 Standish Court
Mississauga ON L5R 4B2
kc1206.kim@samsung.com

RE: Grand Renewable Energy Park, Haldimand County, Ontario, Licence/PIF # P002-208-2010, P002-211-2010, P002-222-2011, P218-012-2010, P218-098-2011 and P218-023-2011, MTC File HD00565

Dear Proponent:

This letter constitutes the Ministry of Tourism and Culture's written comments as required by s. 22(3)(a) of O. Reg. 359/09 under the *Environmental Protection Act* regarding archaeological assessments undertaken for the above project.

Based on the information contained in the report(s) you have submitted for this project, the Ministry believes the archaeological assessment complies with the *Ontario Heritage Act's* licensing requirements, including the licence terms and conditions and the Ministry's 1993 Archaeological Assessment Technical Guidelines or the 2011 Standards and Guidelines for Consultant Archaeologists (whichever apply). Please note that the Ministry makes no representation or warranty as to the completeness, accuracy or quality of the report(s).*

The reports recommend the following:

Stage 1 Report (Licence/PIF # P002-208-2010), Received August 27, 2010, Addendum Received February 25, 2011

It is Stantec's professional opinion that most parts of the Project area demonstrate potential for the presence of significant archaeological deposits of integrity. It should be anticipated for Project component siting exercises that Stage 2 Archaeological Assessment is likely to be required for most locations of project-related infrastructure construction, including all turbine pads, access roads, underground cable links, construction offices, laydown areas and temporary storage areas and any other areas where soil disturbances into and below the topsoil may occur.

Stage 2 archaeological survey generally takes two forms: pedestrian survey and test pit excavation survey. Pedestrian survey, the preferred methodology, requires that the area to be surveyed be ploughed as if the ground were to be cultivated and allowed to weather through one hard or several light rainfalls. After weathering the ground is walked at a slow pace and the locations of artifacts recorded using a Geographic Positioning System (GPS). During a pedestrian survey only diagnostic artifacts are collected; all others are left in situ.

If ploughing is not technically feasible in some locations due to the nature and extent of existing ground cover or other conditions, Stage 2 assessment will need to be completed using a test pit excavation strategy. In this instance standard archaeological test pits of 30 x 30 cm or greater are excavated and all excavated soils passed through screens of 6 mm mesh. During test pit survey all artifacts encountered are retained. In either case the survey interval will be at no more than 5 m. During Stage 2 assessment all field activities will be recorded using a GPS.

Stantec cautions, however, that it is possible that deeply buried archaeological resources, could still exist within the limits of the proposed project and that the following standard conditions will continue to apply:

- Should human remains be identified during operations, all work in the vicinity of the discovery will be suspended immediately. Notification will be made to the Ontario Provincial Police, or local police, who will conduct a site investigation and contact the district coroner. Notification must also be made to the Ministry of Tourism and Culture and the Registrar of Cemeteries, Cemeteries Regulation Unit, Ministry of Small Business and Consumer Services.
- Should other cultural heritage values (archaeological or historical materials or features) be identified during operations, all work in the vicinity of the discovery will be suspended and the Ministry of Tourism and Culture archaeologist contacted. This condition provides for the potential for deeply buried or enigmatic local site areas that are not typically identified in archaeological field assessments.

Stage 2 Report (Licence/PIF # P002-211-2010), Revised Report, February 28, 2011, Received March 1, 2011

Stage 2 AA of the GREP to date by Stantec has resulted in the documentation of 165 archaeological resources, including 45 archaeological sites which have been registered with the MTC and of 50 artifact clusters and 70 isolated findspots.

Stage 2 Archaeological Assessment at Solar Woodlot

Given the identification of several archaeological resources within 250 m of the Solar Woodlot it is recommended that if the woodlot area is required for Project related components that the area that was test pit surveyed at 10 m intervals be re-tested to a 5 m interval. These extra test pits can be excavated between the existing test pits.

Sites Requiring Stage 3 Archaeological Assessment

Stage 2 AA of the GREP to date by Stantec has resulted in the documentation of 45 registered archaeological sites which will require further archaeological assessment (Table 4-1). At minimum all 45 sites will require Stage 3 AA in order to determine the extent of each archaeological resource, and to further refine our understanding of the age, cultural association and cultural heritage value of the sites. Stage 3 AA will also determine what appropriate mitigation options, such as avoidance or excavation, are available at each site location. Based on current calculations of site area it is anticipated that Stage 3 AA of the 45 sites will encompass an area of approximately 104,000 square metres, or 10.4 ha of the 359 ha assessed.

Table 4-1 Archaeological Sites Requiring Further Assessment

GREP Site #	Location	Borden #	Easting	Northing	# Tools/ Diagnostics	# non-Tools	Total # Artifacts	Cultural Period	Dimensions (in m)	Site Area (m ²)
1	T36	AfGx-710	589964	4755625	0	11	11	Indeterminate	25 x 20	500
2	T46	AfGx-711	590521	4752280	2	3	5	Indeterminate	35 x 20	581
3	T46	AfGx-712	590603	4752068	0	32	32	Indeterminate	65 x 30	1950
4	T23	AfGx-713	591237	4751861	0	22	22	Indeterminate	25 x 25	509
5	T23	AfGx-714	591145	4752137	0	28	28	Indeterminate	30 x 30	733
6	T23	AfGx-715	591097	4752326	0	32	32	Indeterminate	55 x 35	1571
7	T28	AfGx-716	591169	4752307	0	11	11	Indeterminate	25 x 25	535
8	T28	AfGx-717	591295	4752310	0	25	25	Indeterminate	35 x 25	659
9	T28	AfGx-718	591339	4752251	2	9	11	Indeterminate	35 x 20	508
10	T23	AfGx-719	590901	4752878	0	25	25	Indeterminate	60 x 30	1423
11	T20	AfGx-720	592626	4749531	3	114	117	Early Woodland	90 x 90	6939
12	SF1	AfGw-137	596156	4748772	2	16	18	Late Palaeo-Indian/ Early Woodland	40 x 40	641
13	SF1	AfGw-138	596243	4748449	9	89	98	Middle/Late Archaic, Middle Woodland	150 x 110	12309
14	SF1	AfGw-139	596237	4748626	2	47	49	Late Archaic	145 x 115	4188
15	T13	AfGw-140	596811	4748748	n/a	n/a	n/a	Indeterminate	20 x 20	303
16	SF2	AfGw-141	596644	4748742	10		10	19th Century Historic	55 x 55	1026
17	SF1	AfGw-142	596286	4748783	2	18	20	Late Archaic	90 x 55	3036
18	SF1	AfGw-143	596176	4748858	2	29	31	Early Archaic	115 x 50	3320
19	SF1	AfGw-144	596014	4749261	2	18	20	Early Woodland	110 x 110	9788
20	SF1	AfGw-145	596198	4749235	1	86	87	Indeterminate	50 x 50	1763

21	SF3	AfGw-146	597043	4749303	1	10	11	Indeterminate	35 x 35	1140	
22	SF3	AfGw-147	596901	4749626	6	206	212	Late Woodland	250 x 160	29376	
23	SF7	AfGw-148	597046	4749740	0	18	18	Indeterminate	70 x 40	2132	
24	SF7	AfGw-149	597206	4749996	2	63	65	Late Archaic	75 x 50	3750	
25	SF8	AfGw-150	597512	4750457	1	30	31	Indeterminate	40 x 30	1014	
26	SF8	AfGw-151	597431	4750516	2	0	2	Middle Archaic	10 x 10	92	
27	SF8	AfGw-152	597405	4750435	0	36	36	Indeterminate	40 x 35	1145	
28	SF7	AfGw-153	596799	4750597	1	28	29	Late Palaeo-Indian	60 x 40	2193	
29	SF5	AfGw-154	596309	4750150	2	14	16	Indeterminate	105 x 40	2723	
30	SF4	AfGw-155	596193	4750040	1	10	11	Indeterminate	60 x 30	767	
31	SF4	AfGw-156	596052	4750102	1	18	19	Indeterminate	50 x 40	898	
32	SF4	AfGw-157	595992	4750003	2	11	13	Middle Archaic	30 x 30	473	
33	SF4	AfGw-158	596044	4749943	6	35	41	Early Woodland	40 x 30	367	
34	SF4	AfGw-159	596142	4749695	0	14	14	Indeterminate	20 x 20	341	
35	SF4	AfGw-160	596174	4749580	0	5	5	Indeterminate	10 x 10	100	
36	SF4	AfGw-161	596313	4749612	1	49	50	Indeterminate	80 x 50	3393	
37	SF4	AfGw-162	596328	4749533	0	27	27	Indeterminate	25 x 25	564	
38	SW	AfGw-163	596603	4749418	0	10	10	Indeterminate	10 x 10	100	
39	SF1	AfGw-164	596123	4749106	1	0	1	Early Archaic	10 x 10	100	
40	SF4	AfGw-165	596105	4750015	2	2	4	Late Palaeo-Indian	20 x 20	227	
41	SF6	AfGw-166	596722	4750265	1	0	1	Early Archaic	10 x 10	100	
42	T55	AfGw-167	600123	4746735	1	0	1	Late Palaeo-Indian	10 x 10	100	
43	T34	AfGx-721	589820	4753974	1	0	1	Early Archaic	10 x 10	100	
44	T13	AfGw-184	594647	4751614	0	62	62	Indeterminate	20 x 25	364	
45	T10	AfGx-732	594689	4751585	0	16	16	Indeterminate	20 x 25	389	
					Total # Artifacts		1349			Total m2	104230

Stage 3 AA (the Archaeological Site Assessment) of the 45 identified sites will be conducted according to the 2010. Standards and Guidelines for Consultant Archaeologists. The following standards for Stage 3 AA work will apply:

- Before carrying out fieldwork, review all relevant reports of previous fieldwork on the archaeological site or for that property;
- Carry out the archaeological site assessment when weather and lighting conditions permit good visibility of all parts of the archaeological site. Do not carry out the archaeological site assessment when weather and lighting conditions (e.g., snow cover, frozen ground, excessive rain or drought, heavy fog) reduce the ability to identify and document any part of the archaeological site;
- Using GPS record the locations of the following:
 - a central fixed point within the archaeological site
 - a permanent datum that can be tied to a development map; and
- Provide representative photographs of all field conditions (e.g., ploughed field, pasture or woodlot, disturbances).

For each site located using pedestrian survey methodology the Stage 3 AA will be composed of two elements: a controlled surface pick-up (CSP) of artifacts on the surface of ploughed fields and test unit excavation. A CSP is a detailed survey of the ground surface in open fields that allows for precise recording of artifact locations and the collection of a representative sample of artifacts, including non-diagnostic artifacts. The following standards for Stage 3 AA CSP will apply:

- If ground surface visibility has decreased in the time between the Stage 2 survey and the Stage 3 CSP, ensure that the site area is re-cultivated and weathered;
- Accurately map the location of all artifacts on the ground surface using a total station, transit and tape, stadia rod, or GPS unit. Record and catalogue artifacts by their mapped location, recording any relevant information (e.g., spatial relationship of diagnostics, artifact concentration areas). Tie this map to the general site GPS readings by recording a central point in the scatter;
- For very large and dense surface scatters, conduct a full CSP by grid units (maximum 5 m by 5 m units) over the archaeological site. Record and catalogue artifacts with their grid unit designation.
- Ensure that decisions regarding the type and number of artifacts collected strike a balance between gathering enough artifacts to document the archaeological site and leaving enough in place to relocate the site if required (e.g., to conduct further assessment, define a protected area or conduct excavation);
- Collect all formal artifact types and diagnostic categories, including, for 19th century archaeological sites, all refined ceramic sherds; and
- Collect a representative sample of non-diagnostic artifacts, taking into consideration the archaeological site type, type and frequency of non-diagnostic artifacts, and the likelihood that further fieldwork will be required.

Based on the results of the Stage 2 AA, use of a grid unit CSP will likely need to be conducted at AfGx-720, AfGw-144 and AfGw-147 due to their size and artifact densities. All other sites should not require grid unit CSP.

The second component of the Stage 3 AA, test unit excavation, will be required at all identified archaeological sites, including AfGw-163, the site located through test pit survey. The purpose of the test unit excavation is to document the extent of buried artifacts, cultural features, soil stratigraphy and structures and to recover a representative sample of artifacts from across the archaeological site. The interval of the Stage 3 AA grid (of either 5 m or 10 m intervals) will be dependent on the age, type and nature of each identified site. Specific guidelines for this interval are provided in the 2010 Standards and Guidelines for Consultant Archaeologists. The following standards for Stage 3 AA test unit excavation will apply:

- Excavate by 1 m square units;
- To determine the placement of test units, establish a grid on the site based on the permanent datum to at least the accuracy of transit and tape measurements. Placing test units in unmeasured, estimated locations is not acceptable;
- Excavate test units by hand. Do not use heavy machinery (e.g., gas-powered augers, backhoes) except to remove sterile or recent fill covering confirmed, deeply buried or sealed archaeological sites;

- Excavate test units by systematic levels (stratigraphic or standardized);
- Excavate test units into the first 5 cm of subsoil, unless excavation uncovers a cultural feature;
- If test unit excavation uncovers a cultural feature, do not excavate into feature fill. Instead:
 - Record the exposed plan of the feature.
 - Place geotextile fabric over the unit floor and backfill the unit;
- Screen all excavated soil through mesh with an aperture of no greater than 6 mm. For confirmed single component Paleo-Indian and Early Archaic archaeological sites, for a sample of units (at least 20% of the total number of units in sandy soil and at least 10% of the total number of units in heavy soil), screen the entire contents of each unit through mesh with an aperture of no greater than 3 mm; and
- Unless otherwise specified collect and retain all artifacts. Record and catalogue them by their corresponding grid unit designation.

Based on the results of the Stage 2 AA there are seven sites that are presently believed to be single component Palaeo-Indian or Early Archaic sites: AfGw-143; AfGw-153; AfGw-164; AfGw-165; AfGw-166; AfGw-167; and AfGx-721. All seven of these sites are located in what are considered to be heavy soils. For these seven sites 10% of the total number of test units excavated (specific number to be determined based on Table 3.1 in the 2010 Standards and Guideline for Consultant Archaeologists) will need to be screened using 3 mm mesh.

The 2010 Standards and Guideline for Consultant Archaeologists also make special Stage 3 AA provisions for large sites and Late Woodland village sites. At present we cannot determine whether the Late Woodland site AfGw-147 in Solar Fields 3 and 6 represents a Late Woodland village site or a smaller special purpose site. As such it does not qualify for the special provisions of the Late Woodland village, but it does qualify as a large site. Accordingly, this one site may only require excavation of 50% of the required total test units, as determined by Table 3.1 of the 2010 Standards and Guideline for Consultant Archaeologists. This determination will only be able to be made in the field after the initiation of the Stage 3 AA and these provisions should be kept in mind during that work.

It should be anticipated that several of the sites will likely require Stage 4 mitigative excavations in the event that project design cannot avoid the sites. Sites of already identified cultural heritage value and interest include all sites with Palaeo-Indian or Early Archaic components, and the Late Woodland site.

With the large number of Aboriginal archaeological sites documented through the Stage 2 AA it is expected that the involvement of First Nations in subsequent Stage 3 and/or Stage 4 AA will increase beyond the current level of the Stage 2 AA. Ongoing Aboriginal consultation will be part of the overall Project development, for archaeological resources and for other environmental components, and is a requirement of the 2010 Standards and Guideline for Consultant Archaeologists. It is recommended that Aboriginal Engagement be carried out as required by the Standards and Guidelines and as outlined in the bulletin Engaging Aboriginal Communities in Archaeology.

Resources Not Requiring Stage 3 Archaeological Assessment

A total of 50 artifact clusters (CL) and 70 isolated findspots (IF) were also documented at Project components during the Stage 2 AA (Table 4-2). None of these resources meet the criteria for sufficient Cultural heritage value or interest as per the 2010 Standards and Guideline for Consultant Archaeologists. None of these resources require further archaeological assessment. Details regarding all identified artifacts (e.g., Scraper 1-5) can be found in the Artifact Catalogue in Appendix B.

Table 4-2 Archaeological Resources Not Requiring Further Assessment

GREP Site #	Location	Easting	Northing	# Tools	# Lithic Flakes	Total # Artifacts	Material Type	Tool Size (in mm)	Cultural Period	Dimensions (in m)	Figure #	Plate #	Comments
CL 1	SF1	596255	4749292	0	2	2	n/a	n/a	Indeterminate	25 X 5	3-1	n/a	
CL 2	SF1	596378	4749049	2	0	2	Bois Blanc	36 x 22 28 x 21	Late Archaic	25 X 10	3-1	2, 4	Point 2-5 Point 2-6
CL 3	SF1	596145	4749020	0	2	2	n/a	n/a	Indeterminate	5 X 5	3-1	n/a	
CL 4	SF1	596136	4748931	0	3	3	n/a	n/a	Indeterminate	60 X 35	3-1	n/a	
CL 5	SF1	596076	4749054	0	4	4	n/a	n/a	Indeterminate	60 X 15	3-1	n/a	
CL 6	SF1	596124	4748835	0	4	4	n/a	n/a	Indeterminate	65 X 40	3-2	n/a	
CL 7	SF1	596270	4748611	1	3	4	Bois Blanc	49 x 31 x 17	Indeterminate	40 X 40	3-2	n/a	Tool 2-1
CL 8	SF1	596504	4748588	1	1	2	Bois Blanc	40 x 26	Early Woodland	35 x 10	3-2	3	Point 2-4
CL 9	SF2	596802	4748763	2	0	2	Bois Blanc	59 x 46 x 24	Indeterminate	35 x 10	3-2	n/a	Core (not kept) , Core 1-4
CL 10	SF2	596509	4749027	0	3	3	n/a	n/a	Indeterminate	10 x 10	3-2	n/a	
CL 11	SF3	596986	4748618	0	2	2	n/a	n/a	Indeterminate	25 x 10	3-3	n/a	
CL 12	SF3	597107	4749098	0	12	12	n/a	n/a	Indeterminate	160 x 70	3-3	n/a	
CL 13	SF3	597062	4749468	1	1	2	Bois Blanc	60 x 66 x 18	Indeterminate	40 x 10	3-3	n/a	Axe 2-1
CL 14	SF4	595986	4749523	0	2	2	n/a	n/a	Indeterminate	25 x 25	3-4	n/a	
CL 15	SF4	596294	4749544	0	7	7	n/a	n/a	Indeterminate	35 X 20	3-4	n/a	
CL 16	SF4	596138	4749583	0	2	2	n/a	n/a	Indeterminate	35 x 15	3-4	n/a	
CL 17	SF4	596271	4749572	0	7	7	n/a	n/a	Indeterminate	30 x 25	3-4	n/a	
CL 18	SF4	596222	4749715	1	2	3	Bois Blanc	28 x 22	Indeterminate	35 x 25	3-4	5	Point 1-15
CL 19	SF4	596169	4750079	1	1	2	Bois Blanc	43 x 28	Late Archaic	40 x 25	3-4	2	Point 2-13
CL 20	SF4	596171	4750142	0	3	3	n/a	n/a	Indeterminate	30 x 10	3-4	n/a	
CL 21	SF4	596102	4749942	0	7	7	n/a	n/a	Indeterminate	65 x 45	3-4	n/a	
CL 22	SF4	596231	4749820	0	3	3	n/a	n/a	Indeterminate	60 x 30	3-4	n/a	
CL 23	SF4	596098	4749815	1	2	3	Bois Blanc	56 x 47 x 17	Indeterminate	45 x 10	3-4	n/a	Core 1-3
CL 24	SF4	596041	4749749	0	6	6	n/a	n/a	Indeterminate	55 x 30	3-4	n/a	
CL 25	SF4	595959	4749714	0	7	7	n/a	n/a	Indeterminate	40 X 30	3-4	n/a	
CL 26	SF5	596444	4749751	0	5	5	n/a	n/a	Indeterminate	40 x 25	3-4	n/a	
CL 27	SF5	596338	4750019	1	1	2	Bois Blanc	27 x 24	Indeterminate	30 x 15	3-4	n/a	Scraper 1-5
CL 28	SF6	596685	4750254	2	0	2	Bois Blanc	36 x 24 x 12 27 x 24	Indeterminate	35 x 20	3-5	5	Core 1-5 Graver 1-1
CL 29	SF7	597032	4749983	0	4	4	n/a	n/a	Indeterminate	30 x 20	3-5	n/a	
CL 30	SF7	597099	4749984	0	6	6	n/a	n/a	Indeterminate	30 x 15	3-5	n/a	
CL 31	SF7	597015	4750305	1	1	2	Bois Blanc	36 x 23	Middle Woodland	40 x 20	3-6	3	Point 1-30
CL 32	SF7	597203	4749883	0	2	2	n/a	n/a	Indeterminate	30 x 15	3-6	n/a	

GREP Site #	Location	Easting	Northing	# Tools	# Lithic Flakes	Total # Artifacts	Material Type	Tool Size (in mm)	Cultural Period	Dimensions (in m)	Figure #	Plate #	Comments
CL 33	SF7	597104	4749687	0	3	3	n/a	n/a	Indeterminate	30 x 10	3-5	n/a	
CL 34	SF7	596893	4750628	1	3	4	prob. Local	64 x 42	Indeterminate	50 x 20	3-6	n/a	Biface 1-10
CL 35	SF8	597470	4750503	0	2	2	n/a	n/a	Indeterminate	25 x 10	3-6	n/a	
CL 36	SF8	597537	4750415	0	2	2	n/a	n/a	Indeterminate	25 x 10	3-6	n/a	
CL 37	SF1	596388	4748416	1	1	2	prob. Local	50 x 38	Indeterminate	25 x 10	3-2	n/a	Biface 2-1
CL 38	SF1	596388	4748482	1	1	2	Bois Blanc	43 x 36	Indeterminate	30 x 15	3-2	4	Point 2-10
CL 39	SF1	596322	4748466	0	3	3	n/a	n/a	Indeterminate	25 x 15	3-2	n/a	
CL 40	T23	591178	4752032	0	2	2	n/a	n/a	Indeterminate	30 x 10	3-9	n/a	
CL 41	T23	591119	4752236	0	5	5	n/a	n/a	Indeterminate	40 x 20	3-9	n/a	
CL 42	T46	590594	4752117	0	2	2	n/a	n/a	Indeterminate	35 x 15	3-9	n/a	
CL 43	T13	594711	4751650	0	3	3	n/a	n/a	Indeterminate	15 x 10	3-11	n/a	
CL 44	T48	594469	4750961	0	2	2	n/a	n/a	Indeterminate	20 x 10	3-12	n/a	
CL 45	T48	594120	4750435	0	6	6	n/a	n/a	Indeterminate	20 x 15	3-12	n/a	
CL 46	T16	594409	4750003	0	3	3	n/a	n/a	Indeterminate	25 x 25	3-13	n/a	
CL 47	T16	594358	4749899	0	2	2	n/a	n/a	Indeterminate	25 x 25	3-13	n/a	
CL 48	T16	594390	4749953	0	2	2	n/a	n/a	Indeterminate	25 x 25	3-13	n/a	
CL 49	T19	606258	4750182	0	6	6	n/a	n/a	Indeterminate	85 x 10	3-17	n/a	
CL 50	T36	589998	4755730	0	3	3	n/a	n/a	Indeterminate	50 x 25	3-8	n/a	
IF 1	SF1	596042	4749141	1	0	1	Bois Blanc	49 x 37	Indeterminate	n/a	3-1	5	Biface 1-1
IF 2	SF1	596033	4749102	0	1	1	n/a	n/a	Indeterminate	n/a	3-1	n/a	Isolated lithic flake
IF 3	SF1	596335	4749021	0	1	1	n/a	n/a	Indeterminate	n/a	3-1	n/a	Isolated lithic flake
IF 4	SF1	596462	4748417	1	0	1	Bois Blanc	49 x 37	Indeterminate	n/a	3-2	5	Scraper 2-2
IF 5	SF1	596408	4748428	1	0	1	Bois Blanc	42 x 32	Indeterminate	n/a	3-2	4	Point 2-11
IF 6	SF1	596172	4748742	1	0	1	Bois Blanc	38 x 37	Indeterminate	n/a	3-2	n/a	Biface 1-2
IF 7	SF1	596132	4748742	0	1	1	n/a	n/a	Indeterminate	n/a	3-2	n/a	Isolated lithic flake
IF 8	SF1	596353	4748964	0	1	1	n/a	n/a	Indeterminate	n/a	3-2	n/a	Isolated lithic flake
IF 9	SF1	596245	4748575	0	1	1	n/a	n/a	Indeterminate	n/a	3-2	n/a	Isolated lithic flake
IF 10	SF1	596260	4748649	0	1	1	n/a	n/a	Indeterminate	n/a	3-2	n/a	Isolated lithic flake
IF 11	SF1	596341	4748641	0	1	1	n/a	n/a	Indeterminate	n/a	3-2	n/a	Isolated lithic flake
IF 12	SF1	596385	4748597	1	0	1	Bois Blanc	30 x 29	Indeterminate	n/a	3-2	n/a	Biface 2-2
IF 13	SF2	596545	4748637	1	0	1	Bois Blanc	46 x 35	Late Archaic	n/a	3-2	2	Point 2-17
IF 14	SF2	596547	4748647	1	0	1	Bois Blanc	38 x 32	Indeterminate	n/a	3-2	4	Point 1-13

GREP Site #	Location	Easting	Northing	# Tools	# Lithic Flakes	Total # Artifacts	Material Type	Tool Size (in mm)	Cultural Period	Dimensions (in m)	Figure #	Plate #	Comments
IF 15	SF2	596616	4748820	0	1	1	n/a	n/a	Indeterminate	n/a	3-2	n/a	Isolated lithic flake
IF 16	SF2	596679	4748825	0	1	1	n/a	n/a	Indeterminate	n/a	3-2	n/a	Isolated lithic flake
IF 17	SF2	596812	4748729	0	1	1	n/a	n/a	Indeterminate	n/a	3-2	n/a	Isolated lithic flake
IF 18	SF2	596707	4748741	1	0	1	n/a	25 x 30 x 26	Indeterminate	n/a	3-3	n/a	Grndstn2-1
IF 19	SF2	596719	4748737	1	0	1	Bois Blanc	27 x 19	Late Archaic	n/a	3-3	2	Point 2-18
IF 20	SF2	596731	4748722	1	0	1	n/a	n/a	Euro-Canadian	n/a	3-3	6	19th century smoking pipe
IF 21	SF2	596507	4749146	1	0	1	Bois Blanc	46 x 22	Early Woodland	n/a	3-3	3	Point 1-12
IF 22	SF3	597124	4748771	0	1	1	n/a	n/a	Indeterminate	n/a	3-3	n/a	Isolated lithic flake
IF 23	SF3	596802	4749182	1	0	1	Bois Blanc	38 x 21	Indeterminate	n/a	3-3	n/a	Biface 2-5
IF 24	SF3	597087	4749190	1	0	1	Bois Blanc	36 x 22	Indeterminate	n/a	3-3	n/a	Tool 2-2
IF 25	SF3	597157	4749264	1	0	1	Bois Blanc	36 x 24	Indeterminate	n/a	3-3	4	Point 2-12
IF 26	SF3	597004	4749262	0	1	1	n/a	n/a	Indeterminate	n/a	3-3	n/a	Isolated lithic flake
IF 27	SF3	596946	4749205	0	1	1	n/a	n/a	Indeterminate	n/a	3-3	n/a	Isolated lithic flake
IF 28	SF3	596975	4749436	0	1	1	n/a	n/a	Indeterminate	n/a	3-3	n/a	Isolated lithic flake
IF 29	SF4	596368	4749536	1	0	1	Bois Blanc	38 x 32 mm	Indeterminate	n/a	3-4	n/a	Biface 1-3
IF 30	SF4	596126	4749476	0	1	1	n/a	n/a	Indeterminate	n/a	3-4	n/a	Isolated lithic flake
IF 31	SF4	596193	4749487	0	1	1	n/a	n/a	Indeterminate	n/a	3-4	n/a	Isolated lithic flake
IF 32	SF4	596284	4749660	0	1	1	n/a	n/a	Indeterminate	n/a	3-4	n/a	Isolated lithic flake
IF 33	SF4	596165	4749694	0	1	1	n/a	n/a	Indeterminate	n/a	3-4	n/a	Isolated lithic flake
IF 34	SF4	596247	4749751	1	0	1	Bois Blanc	36 x 22	Middle Woodland	n/a	3-4	3	Point 1-14
IF 35	SF4	596298	4749839	1	0	1	Bois Blanc	35 x 28	Early Woodland	n/a	3-4	3	Point 1-16
IF 36	SF4	596153	4750039	0	1	1	n/a	n/a	Indeterminate	n/a	3-4	n/a	Isolated lithic flake
IF 37	SF4	596150	4749857	0	1	1	n/a	n/a	Indeterminate	n/a	3-4	n/a	Isolated lithic flake
IF 38	SF4	596060	4749694	0	1	1	n/a	n/a	Indeterminate	n/a	3-4	n/a	Isolated lithic flake
IF 39	SF5	596591	4749651	0	1	1	n/a	n/a	Indeterminate	n/a	3-4	n/a	Isolated lithic flake
IF 40	SF5	596265	4750195	0	1	1	n/a	n/a	Indeterminate	n/a	3-4	n/a	Isolated lithic flake
IF 41	SF5	596717	4749694	0	1	1	n/a	n/a	Indeterminate	n/a	3-5	n/a	Isolated lithic flake
IF 42	SF6	596749	4749673	0	1	1	n/a	n/a	Indeterminate	n/a	3-5	n/a	Isolated lithic flake
IF 43	SF6	596767	4749716	0	1	1	n/a	n/a	Indeterminate	n/a	3-5	n/a	Isolated lithic flake
IF 44	SF6	596752	4749764	1	0	1	Bois Blanc	44 x 28	Late Archaic	n/a	3-5	2	Point 1-27
IF 45	SF6	596948	4749752	0	1	1	n/a	n/a	Indeterminate	n/a	3-5	n/a	Isolated lithic flake
IF 46	SF6	596685	4750179	1	0	1	Bois Blanc	53 x 27	Late Archaic	n/a	3-5	2	Point 1-19
IF 47	SF6	596788	4750316	0	1	1	n/a	n/a	Indeterminate	n/a	3-5	n/a	Isolated lithic flake

GREP Site #	Location	Easting	Northing	# Tools	# Lithic Flakes	Total # Artifacts	Material Type	Tool Size (in mm)	Cultural Period	Dimensions (in m)	Figure #	Plate #	Comments
IF 48	SF7	597293	4750032	1	0	1	Bois Blanc	41 x 27	Indeterminate	n/a	3-6	4	Point 1-22
IF 49	SF8	597665	4750148	1	0	1	Bois Blanc	56 x 33	Late Archaic	n/a	3-6	2	Point 1-23
IF 50	SF7	596916	4750590	1	0	1	Bois Blanc	31 x 26	Indeterminate	n/a	3-6	4	Point 1-26
IF 51	SF8	597607	4750174	1	0	1	Bois Blanc	43 x 24	Middle Woodland	n/a	3-6	3	Point 1-24
IF 52	SF8	597600	4750269	1	0	1	Bois Blanc	31 x 16	Late Archaic	n/a	3-6	2	Point 1-29
IF 53	SF8	597564	4750589	0	1	1	n/a	n/a	Indeterminate	n/a	3-6	n/a	Isolated lithic flake
IF 54	SF8	597396	4750478	0	1	1	n/a	n/a	Indeterminate	n/a	3-6	n/a	Isolated lithic flake
IF 55	SF1	596424	4748473	0	1	1	n/a	n/a	Indeterminate	n/a	3-2	n/a	Isolated lithic flake
IF 56	T36	589886	4755449	0	1	1	n/a	n/a	Indeterminate	n/a	3-8	n/a	Isolated lithic flake
IF 57	T45	590112	4753820	0	1	1	n/a	n/a	Indeterminate	n/a	3-8	n/a	Isolated lithic flake
IF 58	T23	591151	4752114	0	1	1	n/a	n/a	Indeterminate	n/a	3-9	n/a	Isolated lithic flake
IF 59	T23	591227	4751891	0	1	1	n/a	n/a	Indeterminate	n/a	3-9	n/a	Isolated lithic flake
IF 60	T23	591095	4752272	0	1	1	n/a	n/a	Indeterminate	n/a	3-9	n/a	Isolated lithic flake
IF 61	T28	591277	4752296	0	1	1	n/a	n/a	Indeterminate	n/a	3-9	n/a	Isolated lithic flake
IF 62	T20	592615	4749466	0	1	1	n/a	n/a	Indeterminate	n/a	3-10	n/a	Isolated lithic flake
IF 63	T16	594290	4749960	0	1	1	n/a	n/a	Indeterminate	n/a	3-13	n/a	Isolated lithic flake
IF 64	T12	601602	4747206	1	0	1	Bois Blanc	40 x 33	Indeterminate	n/a	3-15	5	Biface 2-7
IF 65	T12	601497	4747141	1	0	1	Bois Blanc	46 x 23	Indeterminate	n/a	3-15	n/a	Biface 2-6
IF 66	T19	606321	4749345	0	1	1	n/a	n/a	Indeterminate	n/a	3-17	n/a	Isolated lithic flake
IF 67	T40	604246	4749585	0	1	1	n/a	n/a	Indeterminate	n/a	3-17	n/a	Isolated lithic flake
IF 68	T40	604256	4749554	1	0	1	Bois Blanc	26 x 29	Indeterminate	n/a	3-17	4	Point 2-23
IF 69	T55	600236	4746268	1	0	1	Bois Blanc	44 x 25	Late Archaic	n/a	3-15	2	Point 2-22
IF 70	T55	600232	4746205	0	1	1	n/a	n/a	Indeterminate	n/a	3-15	n/a	Isolated lithic flake

Advice on Compliance with Legislation

At the close of the 2010 field season Stage 2 AA had not been completed for access roads and turbine pads for 16 turbine installations. All of these areas are slated to be assessed using a pedestrian survey methodology. The total area left to be assessed is 61 ha, or approximately 14% of the total of 420 ha that Stantec was scheduled to assess. It is anticipated that the remaining Stage 2 AA will require about 12 person days of field time to complete. It is recommended that the remaining Stage 2 and 3 assessment work for this project be completed as required under the Ontario Heritage Act and that the Ministry of Tourism and Culture provide concurrence with the recommendations made within this report by accepting it into the Ontario Public Register Archaeology Reports.

Stantec cautions, however, that it is possible that deeply buried archaeological resources, could still exist within the limits of the proposed project and that the following standard conditions will continue to apply:

- It is an offence under Sections 48 and 69 of the Ontario Heritage Act for any party other than a licensed archaeologist to make any alteration to a known archaeological site or to remove any artifact or other physical evidence of past human use or activity from the site, until such time as a licensed archaeologist has completed archaeological fieldwork on the site, submitted a report to the Minister stating that the site has no further cultural heritage value or interest, and the report has been filed in the Ontario Public Register of Archaeology Reports referred to in Section 65.1 of the Ontario Heritage Act;
- Should previously undocumented archaeological resources be discovered, they may be a new archaeological site and therefore subject discovering the archaeological resources must cease alteration of the site immediately and engage a licensed consultant archaeologist to carry out archaeological fieldwork, in compliance with Section 48 (1) of the Ontario Heritage Act; and
- The Cemeteries Act, R.S.O. 1990 c. C.4 and the Funeral, Burial and Cremation Services Act, 2002, S.O. 2002, c.33 (when proclaimed in force) require that any person discovering human remains must notify the police or coroner and the Registrar of Cemeteries at the Ministry of Consumer Services.

Stage 2 Report (Licence/PIF # P218-012-2010), Revised Report, February 2011, Received February 4, 2011

The Stage 2 archaeological assessment of a portion of the proposed project was undertaken by Golder, on behalf of Stantec, in order to meet the requirements of an environmental assessment conducted under the Renewable Energy Act, as outlined in Ontario Regulation 359/09 section 22(3). The Stage 2 Assessment was conducted from December 2nd, 2010 to December 22nd, 2010 and January 2nd, 2011 to January 3rd, 2011. This work was conducted under archaeological consulting licence P218, issued to Scott Martin, Ph.D., by the Ontario Ministry of Tourism and Culture. The Stage 2 assessment focused upon the proposed wind turbine and solar lands layout, including turbine sites, collector cable routes, access roads, construction roads, transmission lines, laydown areas and substations. A total of approximately 75 hectares was subject to Stage 2 archaeological assessment.

The remainder of the project area, consisting entirely of ploughed agricultural fields (total of approximately 102 hectares), will be assessed when weather conditions allow using the pedestrian survey method at five metre intervals. In total, 20 turbine locations, 11 access road or collector cable routes and two portions of solar panel lands still need to be assessed. This remaining work is estimated to take a crew of 6 individuals, three field days, after which time the Stage 2 assessment will be complete.

The Stage 2 archaeological assessment resulted in the identification of 55 locations, comprising 54 pre-contact Aboriginal sites and one historic Euro-Canadian site. In summary, 25 of the 55 archaeological locations identified within the study area are recommended for Stage 3 assessment. It is recommended that these sites be subject to a Stage 3 archaeological investigation to further evaluate their cultural heritage value or interest.

The following recommendations are made concerning these locations.

Sites Recommended for Stage 3 Assessment

Table 3 lists the pre-contact Aboriginal sites requiring Stage 3 assessment. Of the 54 pre-contact Aboriginal archaeological locations recorded, 25 of them are being recommended for further archaeological assessment.

Table 3: Pre-contact Aboriginal Sites Requiring Stage 3 Archaeological Assessment

Site Name	Borden Number	Cultural Affiliation	Date
Location 2	AfGw-168	pre-contact Aboriginal	indeterminate
Location 5	AfGw-169	pre-contact Aboriginal	indeterminate
Location 12	AfGw-170	pre-contact Aboriginal	c. 3780-3200 B.C.
Location 15	AfGw-171	pre-contact Aboriginal	indeterminate
Location 16	AfGw-172	pre-contact Aboriginal	indeterminate
Location 17	AfGw-173	pre-contact Aboriginal	indeterminate
Location 18	AfGw-174	pre-contact Aboriginal	indeterminate
Location 21	AfGw-175	pre-contact Aboriginal	indeterminate
Location 24	AfGw-176	pre-contact Aboriginal	indeterminate
Location 29	AfGw-177	pre-contact Aboriginal	indeterminate
Location 30	AfGw-178	pre-contact Aboriginal	indeterminate
Location 34	AfGw-179	pre-contact Aboriginal	c. 500 B.C. - A.D. 1
Location 38	AfGw-180	pre-contact Aboriginal	indeterminate
Location 39	AfGx-722	pre-contact Aboriginal	indeterminate
Location 41	AfGw-182	pre-contact Aboriginal	indeterminate
Location 44	AfGw-183	pre-contact Aboriginal	indeterminate
Location 45	AfGx-723	pre-contact Aboriginal	indeterminate
Location 46	AfGx-724	pre-contact Aboriginal	indeterminate
Location 47	AfGx-725	pre-contact Aboriginal	indeterminate

Site Name	Borden Number	Cultural Affiliation	Date
Location 48	AfGx-726	pre-contact Aboriginal	indeterminate
Location 49	AfGx-727	pre-contact Aboriginal	indeterminate
Location 50	AfGx-728	pre-contact Aboriginal	indeterminate
Location 51	AfGx-729	pre-contact Aboriginal	indeterminate
Location 52	AfGx-730	pre-contact Aboriginal	indeterminate
Location 53	AfGx-731	pre-contact Aboriginal	indeterminate

Sites Not Requiring any Further Archaeological Assessment

Table 4 lists the pre-contact Aboriginal sites not requiring Stage 3 assessment. Of the 54 pre-contact Aboriginal archaeological locations recorded, 29 of them have been sufficiently documented and require no further archaeological assessment.

Table 4: Pre-contact Aboriginal Sites Not Requiring Any Further Archaeological Assessment

Site Name	Borden Number	Cultural Affiliation	Date
Location 1	none	pre-contact Aboriginal	indeterminate
Location 3	none	pre-contact Aboriginal	indeterminate
Location 4	none	pre-contact Aboriginal	indeterminate
Location 6	none	pre-contact Aboriginal	indeterminate
Location 7	none	pre-contact Aboriginal	indeterminate
Location 8	none	pre-contact Aboriginal	indeterminate
Location 9	none	pre-contact Aboriginal	indeterminate
Location 10	none	pre-contact Aboriginal	indeterminate
Location 11	none	pre-contact Aboriginal	indeterminate
Location 13	none	pre-contact Aboriginal	indeterminate
Location 14	none	pre-contact Aboriginal	indeterminate
Location 19	none	pre-contact Aboriginal	indeterminate
Location 20	none	pre-contact Aboriginal	indeterminate
Location 22	none	pre-contact Aboriginal	indeterminate
Location 23	none	pre-contact Aboriginal	indeterminate
Location 25	none	pre-contact Aboriginal	indeterminate
Location 26	none	pre-contact Aboriginal	indeterminate
Location 27	none	pre-contact Aboriginal	indeterminate
Location 28	none	pre-contact Aboriginal	indeterminate
Location 31	none	pre-contact Aboriginal	indeterminate
Location 32	none	pre-contact Aboriginal	indeterminate
Location 33	none	pre-contact Aboriginal	indeterminate
Location 35	none	pre-contact Aboriginal	indeterminate

Site Name	Borden Number	Cultural Affiliation	Date
Location 36	none	pre-contact Aboriginal	indeterminate
Location 37	none	pre-contact Aboriginal	indeterminate
Location 42	none	pre-contact Aboriginal	indeterminate
Location 43	none	pre-contact Aboriginal	indeterminate
Location 54	none	pre-contact Aboriginal	indeterminate
Location 55	none	pre-contact Aboriginal	indeterminate

Table 5 lists the single historic Euro-Canadian site not requiring Stage 3 assessment. Of the one Historic Euro-Canadian archaeological location recorded, zero of them are being recommended for further archaeological assessment.

Table 5: Historic Euro-Canadian Sites Not Requiring Any Further Archaeological Assessment

Site Name	Borden Number	Cultural Affiliation	Date
Location 40	AfGw-181	historic Euro-Canadian	Late 19 th Century

In summary, 25 of the 55 archaeological locations identified within the study area are recommended for Stage 3 assessment since they are judged to be of cultural heritage value or interest requiring further documentation.

This assessment was undertaken in order to meet the requirements of an environmental assessment conducted under the Renewable Energy Approval (REA) process, as outlined in Ontario Regulation 359/09 section 22(3). The Ontario Ministry of Tourism and Culture is asked to review the results presented and to accept this report into the Ontario Public Register of Archaeological Reports. Additional archaeological assessment is still required and so the archaeological sites recommended for further archaeological fieldwork remain subject to Section 48(1) of the Ontario Heritage Act and may not be altered, or have artifacts removed, except by a person holding an archaeological licence.

This report is submitted to the Minister of Culture as a condition of licensing in accordance with Part VI of the Ontario Heritage Act, R.S.O. 1990, c 0.18. The report is reviewed to ensure that the licensed consultant archaeologist has met the terms and conditions of their archaeological licence, and that the archaeological fieldwork and report recommendations ensure the conservation, protection and preservation of the cultural heritage of Ontario.

Should previously undocumented archaeological resources be discovered, they may be a new archaeological site and therefore subject to Section 48(1) of the Ontario Heritage Act. The proponent or person discovering the archaeological resources must cease alteration of the site immediately and engage a licensed consultant archaeologist to carry out archaeological fieldwork, in compliance with sec. 48(1) of the Ontario Heritage Act.

The Cemeteries Act requires that any person discovering human remains must notify the police or coroner and the Registrar of Cemeteries, Ministry of Consumer Services.

Stage 2 Report (Licence/PIF # P002-222-2011), Revised Report, September 20, 2011, Received September 20, 2011

The Stage 2 AA completed by Stantec in 2011 resulted in the identification and recording of 30 archaeological sites consisting of several hundred discrete pre-contact period artifacts, including 12 formal or expedient tools (11 projectile points, or “arrowheads” and one core). One other archaeological site was discovered where the density of lithic flakes was too high to record individually. For 21 of these (Table 6-1), represented by 8 artifact clusters and 13 isolated find spots, the cultural heritage value or interest has been sufficiently documented and assessed at Stage 2, therefore, no further archaeological assessment of these is required or recommended.

Table 6-1 Archaeological Sites Not Requiring Stage 3 Assessment

GREP Site #	Location	Borden #	# Tools	# Lithic Flakes	Total # Artifacts	Cultural Period	Dimensions (in m)	Figure #	Plate #
CL 51	T41	n/a	0	5	5	Indeterminate	25 X 5	4-1	n/a
CL 52	T58	n/a	0	4	4	Indeterminate	35 x 20	4-3	n/a
CL 53	C 3	n/a	0	3	3	Indeterminate	25 x 10	4-6	n/a
CL 54	T12	n/a	0	5	5	Indeterminate	15 x 10	4-8	n/a
CL 55	T12	n/a	0	5	5	Indeterminate	20 x 6	4-8	n/a
CL 56	C 3	AfGv-128	1	1	2	Early Woodland	5 x 5	4-6	1
CL 57	T23	AfGx-901	0	6	6	Indeterminate	10 x 10	4-9	n/a
CL 58	T23	AfGx-902	0	5	5	Indeterminate	10 x 10	4-9	n/a
IF 71	T41	n/a	0	1	1	Indeterminate	n/a	4-1	n/a
IF 72	T41	n/a	0	1	1	Indeterminate	n/a	4-1	n/a
IF 73	T41	AfGx-906	1	0	1	Middle Archaic	n/a	4-1	n/a
IF 74	T65	n/a	0	1	1	Indeterminate	n/a	4-2	n/a
IF 75	T30	n/a	0	1	1	Indeterminate	n/a	4-5	n/a
IF 76	T58	AfGx-903	1	0	1	Poss. Late Archaic	n/a	4-3	1
IF 77	T58	n/a	1	1	1	Indeterminate	n/a	4-3	1
IF 78	T58	n/a	1	0	1	Indeterminate	n/a	4-3	1
IF 79	T58	AfGx-904	1	0	1	Late Archaic	n/a	4-3	1
IF 80	T58	n/a	0	1	1	Indeterminate	n/a	4-3	n/a
IF 81	T58	AfGx-905	1	0	1	Late Archaic	n/a	4-3	1
IF 82	T12	n/a	0	1	1	Indeterminate	n/a	4-3	n/a
IF 83	T12	n/a	0	1	1	Indeterminate	n/a	3-3	n/a

A Stage 3 AA (the Archaeological Site Assessment) is recommended for the remaining nine (9) archaeological sites as they have further cultural heritage value and interest that needs to be documented beyond Stage 2AA: AfGx-768; AfGx-769; AfGx-770; AfGx-771; AfGx-772; AfGv-124; AfGv-125; AfGv-127; and AfGv-229. These will be conducted according to the 2011 Standards and Guidelines for Consultant Archaeologists. For each site that was located using pedestrian survey methodology the Stage 3 AA will be composed of three elements: historical documentation, a controlled surface pick-up (CSP) of artifacts on the surface of ploughed fields and test unit excavation.

A CSP is a detailed survey of the ground surface in open fields that allows for precise recording of artifact locations and the collection of a representative sample of artifacts, including non-diagnostic artifacts. Based on the Stage 2 AA use of a grid unit CSP may need to be conducted at AfGx-768 and -769 due to their size and artifact densities. No other sites should require grid unit CSP. Dependent upon when CSP occurs, fields where visibility has decreased since the Stage 2 AA may require reploughing and weathering prior to CSP.

Test unit excavation will be required at all identified archaeological sites. The purpose of the test unit excavation is to document the extent of buried artifacts, cultural features, soil stratigraphy and structures and to recover a representative sample of artifacts from across the archaeological site. As no sites identified during the Stage 2 AA will require the use of 3 mm mesh screens all soil will be screened though 6 mm mesh. Each site identified as requiring Stage 3 AA will need to have test units excavated at 5 m intervals and additional supplementary test units excavated as per Table 6.2 below.

Archaeological sites requiring Stage 3 AA have been identified on Project components at Turbine 41, Turbine 66, Turbine 51, Turbine 58, Turbine 65, Turbines 23 and 28 (from the 2010 Stage 2 AA) and Turbine 10 (from the 2010 Stage 2 AA). Project components at Complex 3 (Turbines 59-64), Turbine 12, and Turbines 15, 49 and 50 do not contain archaeological resources requiring Stage 3 AA. In the event that the extra area to the west of the current T23/28 access road is required for the Project it will need to be ploughed, allowed to weather and then surveyed using a pedestrian survey methodology.

At present no construction activities related to Project infrastructure are planned to occur prior to completion any required Stage 3 AA. No archaeological sites were found during the assessment of Turbines 15, 49 and 50 (Figure 4-7) and their associated access road, as such, it is recommended that this area requires no further archaeological assessment.

With the large number of Aboriginal archaeological sites documented through the Stage 2 AA it is expected that the involvement of First Nations in subsequent Stage 3 and/or Stage 4 AA will increase beyond the current level of the Stage 2 AA. Ongoing Aboriginal consultation will be part of the overall Project development, for archaeological resources and for other environmental components, and is a requirement of the 2011 Standards and Guideline for Consultant Archaeologists. It is recommended that Aboriginal Engagement be carried out as required by the Standards and Guidelines and as outlined in the bulletin Engaging Aboriginal Communities in Archaeology.

Table 6-2 Stage 3 Recommendations for Archaeological Sites Identified During the Stage 2 AA

GREP Identifier	Borden #	Site Type	Cultural Heritage Value Sufficiently Documented?	Stage 3 AA Required?	Stage 3 AA Strategy Recommended
Site 46	AfGx-768	Plough-disturbed, large single component lithic scatter; recommendation to proceed to Stage 4 likely	No	Yes	-documentary research of land use and occupation, where available -replough field as necessary; conduct CSP -place grids over areas of concentrations and excavate 1 m test units at 5 m interval across grids; excavate an additional 20% of grid unit total between areas of concentration; excavate an additional 10% of initial grid total on periphery of surface scatter
Site 47	AfGx-769	Plough-disturbed, large single component lithic scatter; recommendation to proceed to Stage 4 likely	No	Yes	-documentary research of land use and occupation, where available -replough field as necessary; conduct CSP -place grids over areas of concentrations and excavate 1 m test units at 5 m interval across grids; excavate an additional 20% of grid unit total between areas of concentration; excavate an additional 10% of initial grid total on periphery of surface scatter
Site 48	AfGv-124	Small precontact site: level of cultural heritage value or interest sufficient for recommendation to proceed to Stage 4 unclear	No	Yes	-documentary research of land use and occupation, where available -replough field as necessary; conduct CSP -excavate test units in 5 m grid across site; excavate an additional 20% of grid unit total in areas of interest within the site extent
Site 49	AfGv-125	Small precontact site: level of cultural heritage value or interest sufficient for recommendation to proceed to Stage 4 unclear	No	Yes	-documentary research of land use and occupation, where available -replough field as necessary; conduct CSP -excavate test units in 5 m grid across site; excavate an additional 20% of grid unit total in areas of interest within the site extent
Site 50	AfGw-229	Small precontact site: level of cultural heritage value or interest sufficient for recommendation to proceed to Stage 4 unclear	No	Yes	-documentary research of land use and occupation, where available -replough field as necessary; conduct CSP -excavate test units in 5 m grid across site; excavate an additional 20% of grid unit total in areas of interest within the site extent
Site 51	AfGx-770	Small precontact site: level of cultural heritage value or interest sufficient for recommendation to proceed to Stage 4 unclear	No	Yes	-documentary research of land use and occupation, where available -replough field as necessary; conduct CSP -excavate test units in 5 m grid across site; excavate an additional 20% of grid unit total in areas of interest within the site extent
Site 52	AfGx-771	Small precontact site: level of cultural heritage value or interest sufficient for recommendation to proceed to Stage 4 unclear	No	Yes	-documentary research of land use and occupation, where available -replough field as necessary; conduct CSP -excavate test units in 5 m grid across site; excavate an additional 20% of grid unit total in areas of interest within the site extent

Site 53	AfGx-772	Small precontact site: level of cultural heritage value or interest sufficient for recommendation to proceed to Stage 4 unclear	No	Yes	-documentary research of land use and occupation, where available -replough field as necessary; conduct CSP -excavate test units in 5 m grid across site; excavate an additional 20% of grid unit total in areas of interest within the site extent
Site 54	AfGv-127	Small precontact site: level of cultural heritage value or interest sufficient for recommendation to proceed to Stage 4 unclear	No	Yes	-documentary research of land use and occupation, where available -replough field as necessary; conduct CSP -excavate test units in 5 m grid across site; excavate an additional 20% of grid unit total in areas of interest within the site extent

Stage 2 Report (Licence/PIF # P218-098-2010 and P218-023-2011), Revised Report, July 28, 2011, Received August 2, 2011

A Stage 1 archaeological background study was previously conducted on behalf of Samsung by Stantec for a project area located in the Geographic Townships of Dunn, Rainham, South Cayuga, North Cayuga and Walpole in Haldimand County, Ontario. This area is proposed to be the site of approximately 67 wind turbines, at least three areas of solar panels and project-related infrastructure comprising the Grand Renewable Energy Park.

The Stage 1 archaeological assessment resulted in the determination that the potential for pre-contact Aboriginal and Euro-Canadian sites was deemed to be moderate to high. As a result, Stage 2 archaeological assessment was recommended for any areas to be impacted by turbine or solar panel construction, access road corridor construction or other infrastructure construction related activities.

During the winter of 2010 and 2011, Stage 2 archaeological assessment of a portion of the proposed project area was undertaken by Golder on behalf of Stantec (Golder 2011). The winter 2010-2011 Stage 2 assessment focused upon the proposed wind turbine and solar lands layout, including turbine sites, collector cable routes, access road corridors, construction roads, transmission lines, laydown areas and substations. A total of approximately 75 hectares was subject to Stage 2 archaeological assessment, consisting of approximately 34 hectares of land that could not be ploughed and, therefore, was assessed using the test pit method at an interval of five metres as well as approximately 40.5 hectares of ploughed fields, assessed using the standard pedestrian survey method at an interval of five metres. The Stage 2 archaeological assessment conducted by Golder in winter 2010-2011 resulted in the identification of 55 locations, comprising 54 pre-contact Aboriginal sites and one historic Euro-Canadian site. In summary, 25 of the 55 archaeological locations identified within the study area in winter 2010-2011 were recommended for Stage 3 assessment to further evaluate their cultural heritage value or interest.

During the spring and summer of 2011, Stage 2 archaeological assessment of the remainder of the portion of the proposed project area to be assessed by Golder Associates Ltd. was undertaken and is the subject of this report (Figure 1). The spring and summer 2011 Stage 2 assessment focused on 22 turbine locations, 25 access road corridors or collector cable routes and three portions of solar panel lands. A total of approximately 160 hectares of ploughed agricultural fields was subject to Stage 2 archaeological assessment using the standard pedestrian survey method at an interval of five metres. Additionally, a small area of approximately 10 metres by 40 metres was

assessed using the test pit method at an interval of five metres. The Stage 2 archaeological assessment conducted by Golder in the spring and summer of 2011 resulted in the identification of a further 128 locations, all of which are pre-contact Aboriginal sites. In order to further evaluate their cultural heritage value or interest, 48 of the 128 archaeological locations identified within the study area in the spring and summer of 2011 are recommended for Stage 3 assessment.

Recommendations are made concerning these locations in the subsections below.

Sites Recommended for Stage 3 Assessment

Table 4 lists the pre-contact Aboriginal sites requiring Stage 3 assessment. Of the 128 pre-contact Aboriginal archaeological locations recorded in the spring and summer of 2011, 48 of them are being recommended for further archaeological assessment.

Table 1: Pre-contact Aboriginal Sites Requiring Stage 3 Archaeological Assessment

Site Name	Borden Number	Cultural Affiliation	Date
Location 58	AfGw-188	pre-contact Aboriginal	indeterminate
Location 59	AfGw-189	pre-contact Aboriginal	indeterminate
Location 64	AfGw-190	pre-contact Aboriginal	c. 500-100 B.C.
Location 65	AfGw-191	pre-contact Aboriginal	indeterminate
Location 66	AfGw-192	pre-contact Aboriginal	c. 8000-6910 B.C.
Location 68	AfGw-193	pre-contact Aboriginal	indeterminate
Location 69	AfGw-194	pre-contact Aboriginal	indeterminate
Location 70	AfGw-195	pre-contact Aboriginal	indeterminate
Location 71	AfGw-196	pre-contact Aboriginal	c. 1000-500 B.C.
Location 72	AfGw-197	pre-contact Aboriginal	indeterminate
Location 73	AfGw-198	pre-contact Aboriginal	c. 1800-1300 B.C.
Location 78	AfGw-199	pre-contact Aboriginal	indeterminate
Location 79	AfGw-200	pre-contact Aboriginal	c. 1800-1300 B.C.
Location 81	AfGw-201	pre-contact Aboriginal	indeterminate
Location 82	AfGw-202	pre-contact Aboriginal	c. 3780-3200 B.C.
Location 85	AfGw-203	pre-contact Aboriginal	indeterminate
Location 86	AfGw-204	pre-contact Aboriginal	indeterminate
Location 88	AfGw-206	pre-contact Aboriginal	c. 8600-8000 B.C.
Location 89	AfGw-207	pre-contact Aboriginal	indeterminate
Location 91	AfGw-208	pre-contact Aboriginal	c. 3780-3200 B.C.
Location 98	AfGw-226	pre-contact Aboriginal	indeterminate
Location 99	AfGw-227	pre-contact Aboriginal	indeterminate
Location 104	AfGw-209	pre-contact Aboriginal	indeterminate
Location 105	AfGw-210	pre-contact Aboriginal	indeterminate
Location 109	AfGw-211	pre-contact Aboriginal	c. A.D. 500-1000

Site Name	Borden Number	Cultural Affiliation	Date
Location 110	AfGw-212	pre-contact Aboriginal	indeterminate
Location 111	AfGw-213	pre-contact Aboriginal	c. A.D. 500-Contact
Location 114	AfGw-214	pre-contact Aboriginal	indeterminate
Location 115	AfGw-215	pre-contact Aboriginal	indeterminate
Location 118	AfGw-216	pre-contact Aboriginal	c. 4340-3960 B.C.
Location 119	AfGw-217	pre-contact Aboriginal	indeterminate
Location 122	AfGw-218	pre-contact Aboriginal	indeterminate
Location 123	AfGw-219	pre-contact Aboriginal	indeterminate
Location 124	AfGw-220	pre-contact Aboriginal	indeterminate
Location 125	AfGw-221	pre-contact Aboriginal	indeterminate
Location 126	AfGw-222	pre-contact Aboriginal	c. 3780-3200 B.C.
Location 127	AfGw-228	pre-contact Aboriginal	indeterminate
Location 129	AfGw-223	pre-contact Aboriginal	indeterminate
Location 131	AfGx-737	pre-contact Aboriginal	indeterminate
Location 132	AfGx-738	pre-contact Aboriginal	indeterminate
Location 137	AfGx-741	pre-contact Aboriginal	indeterminate
Location 140	AfGx-742	pre-contact Aboriginal	indeterminate
Location 152	AfGw-225	pre-contact Aboriginal	indeterminate
Location 155	AfGw-241	pre-contact Aboriginal	indeterminate
Location 157	AfGw-242	pre-contact Aboriginal	indeterminate
Location 163	AfGw-244	pre-contact Aboriginal	indeterminate
Location 165	AfGw-246	pre-contact Aboriginal	indeterminate
Location 176	AfGw-249	pre-contact Aboriginal	indeterminate

Sites Not Requiring any Further Archaeological Assessment

Table 5 lists the pre-contact Aboriginal sites not requiring Stage 3 assessment. Of the 128 pre-contact Aboriginal archaeological locations recorded in the spring and summer of 2011, 80 of them have been sufficiently documented and require no further archaeological assessment.

Table 2: Pre-contact Aboriginal Sites Not Requiring Any Further Archaeological Assessment

Site Name	Borden Number	Cultural Affiliation	Date
Location 56	none	pre-contact Aboriginal	indeterminate
Location 57	none	pre-contact Aboriginal	indeterminate
Location 60	none	pre-contact Aboriginal	indeterminate
Location 61	AfGw-230	pre-contact Aboriginal	indeterminate
Location 62	none	pre-contact Aboriginal	indeterminate
Location 63	none	pre-contact Aboriginal	indeterminate
Location 67	none	pre-contact Aboriginal	indeterminate
Location 74	none	pre-contact Aboriginal	indeterminate

Site Name	Borden Number	Cultural Affiliation	Date
Location 75	none	pre-contact Aboriginal	indeterminate
Location 76	AfGw-231	pre-contact Aboriginal	indeterminate
Location 77	AfGw-232	pre-contact Aboriginal	indeterminate
Location 80	none	pre-contact Aboriginal	indeterminate
Location 83	none	pre-contact Aboriginal	indeterminate
Location 84	none	pre-contact Aboriginal	indeterminate
Location 87	AfGw-205	pre-contact Aboriginal	c. 1000-500 B.C.
Location 90	none	pre-contact Aboriginal	indeterminate
Location 92	none	pre-contact Aboriginal	indeterminate
Location 93	none	pre-contact Aboriginal	indeterminate
Location 94	none	pre-contact Aboriginal	indeterminate
Location 95	none	pre-contact Aboriginal	indeterminate
Location 96	none	pre-contact Aboriginal	indeterminate
Location 97	none	pre-contact Aboriginal	indeterminate
Location 100	none	pre-contact Aboriginal	indeterminate
Location 101	none	pre-contact Aboriginal	indeterminate
Location 102	none	pre-contact Aboriginal	indeterminate
Location 103	none	pre-contact Aboriginal	indeterminate
Location 106	AfGw-233	pre-contact Aboriginal	indeterminate
Location 107	none	pre-contact Aboriginal	indeterminate
Location 108	AfGw-234	pre-contact Aboriginal	indeterminate
Location 112	AfGw-235	pre-contact Aboriginal	indeterminate
Location 113	AfGw-236	pre-contact Aboriginal	indeterminate
Location 116	none	pre-contact Aboriginal	indeterminate
Location 117	none	pre-contact Aboriginal	indeterminate
Location 120	AfGw-237	pre-contact Aboriginal	indeterminate
Location 121	AfGw-238	pre-contact Aboriginal	indeterminate
Location 128	none	pre-contact Aboriginal	indeterminate
Location 130	none	pre-contact Aboriginal	indeterminate
Location 133	none	pre-contact Aboriginal	indeterminate
Location 134	AfGx-739	pre-contact Aboriginal	indeterminate
Location 135	AfGx-854	pre-contact Aboriginal	indeterminate
Location 136	AfGx-740	pre-contact Aboriginal	c. 3780-3200 B.C.
Location 138	AfGx-855	pre-contact Aboriginal	indeterminate
Location 139	none	pre-contact Aboriginal	indeterminate
Location 141	none	pre-contact Aboriginal	indeterminate
Location 142	none	pre-contact Aboriginal	indeterminate
Location 143	none	pre-contact Aboriginal	indeterminate
Location 144	none	pre-contact Aboriginal	indeterminate

Site Name	Borden Number	Cultural Affiliation	Date
Location 145	none	pre-contact Aboriginal	indeterminate
Location 146	none	pre-contact Aboriginal	indeterminate
Location 147	none	pre-contact Aboriginal	indeterminate
Location 148	none	pre-contact Aboriginal	indeterminate
Location 149	AfGw-224	pre-contact Aboriginal	c. 1000-500 B.C.
Location 150	AfGw-239	pre-contact Aboriginal	indeterminate
Location 151	none	pre-contact Aboriginal	indeterminate
Location 153	AfGw-240	pre-contact Aboriginal	indeterminate
Location 154	none	pre-contact Aboriginal	indeterminate
Location 156	none	pre-contact Aboriginal	indeterminate
Location 158	AfGw-243	pre-contact Aboriginal	indeterminate
Location 159	none	pre-contact Aboriginal	indeterminate
Location 160	none	pre-contact Aboriginal	indeterminate
Location 161	none	pre-contact Aboriginal	indeterminate
Location 162	none	pre-contact Aboriginal	indeterminate
Location 164	AfGw-245	pre-contact Aboriginal	indeterminate
Location 166	none	pre-contact Aboriginal	indeterminate
Location 167	none	pre-contact Aboriginal	indeterminate
Location 168	none	pre-contact Aboriginal	indeterminate
Location 169	none	pre-contact Aboriginal	indeterminate
Location 170	none	pre-contact Aboriginal	indeterminate
Location 171	none	pre-contact Aboriginal	indeterminate
Location 172	none	pre-contact Aboriginal	indeterminate
Location 173	AfGw-248	pre-contact Aboriginal	indeterminate
Location 174	none	pre-contact Aboriginal	indeterminate
Location 175	none	pre-contact Aboriginal	indeterminate
Location 177	none	pre-contact Aboriginal	indeterminate
Location 178	none	pre-contact Aboriginal	indeterminate
Location 179	AfGw-250	pre-contact Aboriginal	indeterminate
Location 180	AfGw-251	pre-contact Aboriginal	indeterminate
Location 181	none	pre-contact Aboriginal	indeterminate
Location 182	none	pre-contact Aboriginal	indeterminate
Location 183	none	pre-contact Aboriginal	indeterminate

In summary, 48 of the 128 archaeological locations identified within the study area in the spring and summer of 2011 are recommended for Stage 3 assessment since they are judged to be of cultural heritage value or interest requiring further documentation.

The Ontario Ministry of Tourism and Culture is asked to review the results presented and to accept this report into the Ontario Public Register of Archaeological Reports. Additional

archaeological assessment is still required; hence the archaeological sites recommended for further archaeological fieldwork remain subject to Section 48(1) of the *Ontario Heritage Act* and may not be altered, or have artifacts removed, except by a person holding an archaeological licence.

This report is submitted to the Minister of Tourism and Culture as a condition of licensing in accordance with Part VI of the *Ontario Heritage Act*, R.S.O. 1990, c 0.18. The report is reviewed to ensure that it complies with the standards and guidelines that are issued by the Minister, and that the archaeological fieldwork and report recommendations ensure the conservation, protection and preservation of the cultural heritage of Ontario. When all matters relating to archaeological sites within the project area of a development proposal have been addressed to the satisfaction of the Ministry of Tourism and Culture, a letter will be issued by the ministry stating that there are no further concerns with regard to alterations to archaeological sites by the proposed development.

It is an offence under Sections 48 and 69 of the *Ontario Heritage Act* for any party other than a licensed archaeologist to make any alteration to a known archaeological site or to remove any artifact or other physical evidence of past human use or activity from the site, until such time as a licensed archaeologist has completed fieldwork on the site, submitted a report to the Minister stating that the site has no further cultural heritage value or interest, and the report has been filed in the Ontario Public Register of Archaeology Reports referred to in Section 65.1 of the *Ontario Heritage Act*.

Should previously undocumented archaeological resources be discovered, they may be a new archaeological site and therefore subject to Section 48(1) of the *Ontario Heritage Act*. The proponent or person discovering the archaeological resources must cease alteration of the site immediately and engage a licensed consultant archaeologist to carry out archaeological fieldwork, in compliance with Section 48(1) of the *Ontario Heritage Act*.

The *Cemeteries Act*, R.S.O. 1990 c. C.4 and the *Funeral, Burial and Cremation Services Act*, 2002, S.O. 2002, c. 33 (when proclaimed in force) require that any person discovering human remains must notify the police or coroner and the Registrar of Cemeteries at the Ministry of Consumer Services.

Stage 2 Report (Licence/PIF # P218-098-2010 and P218-023-2011), Addendum, September 2, 2011, Received September 6, 2011

In summary, the Stage 2 archaeological assessment of the Turbine 47 study area did not result in the identification of any archaeological resources of cultural heritage value or interest and no further archaeological assessment is recommended.

The Ontario Ministry of Tourism and Culture is asked to review the results and recommendations presented herein and accept this as an addendum to the Revised Stage 2 Archaeological Assessment Report (Report Number: 10-1136-0072-R03).

The Ministry is satisfied with these recommendations.

This letter does not waive any requirements which you may have under the Ontario *Heritage Act*. A separate letter addressing archaeological licensing obligations under the Act will be sent to the archaeologist who completed the assessment and will be copied to you.

This letter does not constitute approval of the renewable energy project. Approvals of the project may be required under other statutes and regulations. It is your responsibility to obtain any necessary approvals or licences.

Please feel free to contact me if you have questions or require additional information.

Sincerely,



Shari Prowse
Archaeology Review Officer

cc. Dr. Scott Martin, Golder Associates
Mr. Colin Varley, Stantec Consulting Ltd.
Mr. Rob Nadolny, Senior Project Manager, Stantec Consulting Ltd.

*In no way will the Ministry be liable for any harm, damages, costs, expenses, losses, claims or actions that may result: (a) if the Report(s) or its recommendations are discovered to be inaccurate, incomplete, misleading or fraudulent; or (b) from the issuance of this letter. Further measures may need to be taken in the event that additional artifacts or archaeological sites are identified or the Report(s) is otherwise found to be inaccurate, incomplete, misleading or fraudulent.

Friedl, Susanne

From: Uchiyama, Christienne
Sent: Thursday, March 17, 2011 10:54 AM
To: Hatcher, Laura (MTC)
Cc: Varley, Colin; Kozak, Mark; Nadolny, Rob; m.dawson@samsungrenewableenergy.ca
Subject: FW: Stantec FTP Confirmation - SAMSUNG GREP - HERITAGE ASSESSMENTS

Follow Up Flag: Follow up
Flag Status: Flagged

Hi Laura,

Please find below instructions for downloading the revised Heritage Assessment and Protected Properties Reports for the Samsung Grand Renewable Energy Project in Haldimand County (MTC file no. 28EA021). We trust that we have addressed all of the comments from your letter dated February 16th.

Please don't hesitate to contact me should you have any questions or concerns regarding the revised reports.

Regards,
Chris

Christienne Uchiyama

Archaeologist and Heritage Planning Consultant

200 - 2781 Lancaster Road

Ottawa ON K1B 1A7

Ph: (613) 738-0708 Ext. 3278

Fx: (613) 738-0721

Cell: (613) 327-0427

Christienne.Uchiyama@stantec.com

stantec.com

Automatic Login

FTP site link: <ftp://s0331082156:6829724@ftptmp.stantec.com>

By clicking on the link above (or pasting the link into Windows Explorer) you will be automatically logged into your FTP site.

Manual Login

FTP link: <ftp://ftptmp.stantec.com>

Login name: s0331082156

Password: 6829724

Disk Quota: 2GB

Expiry Date: 3/31/2011

The content of this email is the confidential property of Stantec and should not be copied, modified, retransmitted, or used for any purpose except with Stantec's written authorization. If you are not the intended recipient, please delete all copies and notify us immediately.

 Please consider the environment before printing this email.

Friedl, Susanne

From: de Carteret Feit, Kendra
Sent: Tuesday, August 31, 2010 8:42 AM
To: Nadolny, Rob; Kozak, Mark
Subject: FW: Grand Renewable Energy Park

Follow Up Flag: Follow up
Flag Status: Flagged

-----Original Message-----

From: Alex Beckstead [mailto:alex.beckstead@rcmp-grc.gc.ca]
Sent: Tuesday, August 31, 2010 8:39 AM
To: de Carteret Feit, Kendra
Subject: Re: Grand Renewable Energy Park

Kendra,

Sorry for the delay in my response. I have analyzed the proposed wind project and do not see any potential interference problems resulting from a wind farm in the area you have outlined. If the location of the boundaries shifts, please keep me informed.

Thank you.

Alex Beckstead
Radio Spectrum Engineer - Ingénieur du spectre radio Mobile Communication Services -
Services de communication mobile RCMP - GRC
tel.: 613-949-4519
fax.: 613-998-7528
alex.beckstead@rcmp-grc.gc.ca

>>> "de Carteret Feit, Kendra" <Kendra.Feit@stantec.com> 6/4/2010 2:51
PM >>>
Good afternoon -

Please find attached a letter and notice regarding the proposed Grand Renewable Energy Park.

Thank-you,

Kendra de Carteret Feit, on behalf of

Rob Nadolny
Senior Project Manager
Stantec

Ph: (519) 836-6050 Ext. 242
Fx: (519) 836-2493
rob.nadolny@stantec.com

stantec.com <<http://www.stantec.com>>

Friedl, Susanne

From: Nadolny, Rob
Sent: Thursday, June 10, 2010 3:47 PM
To: Kozak, Mark
Subject: FW: Grand Renewable Energy Park, Haldimand County, NEATS 24026
Attachments: NWP_App_Guide_EN.pdf

Follow Up Flag: Follow up
Flag Status: Flagged

From: EnviroOnt [mailto:EnviroOnt@tc.gc.ca]
Sent: Thursday, June 10, 2010 2:17 PM
To: Nadolny, Rob
Subject: Grand Renewable Energy Park, Haldimand County, NEATS 24026

Thank you for your letter regarding the above referenced environmental assessment. Please in future forward correspondence on this environmental assessment to the undersigned.

We have reviewed the information, and note the following:

Transport Canada is responsible for the administration of the *Navigable Waters Protection Act*, which prohibits the construction or placement of any “works” in navigable waters without first obtaining approval. If any of the related project elements or activities related may cross or affect a potentially navigable waterway, you are requested to prepare and submit an application in accordance with the requirements as outlined in the attached Application Guide. Any questions about the NWP application process should be directed to the Navigable Waters Protection Program at 1-866-821-6631 or NWPontario-PENontario@tc.gc.ca.

<<NWP_App_Guide_EN.pdf>>

Transport Canada is also responsible for the administration of the *Railway Safety Act* to ensure the safe operation of railways. The Act addresses the construction and alteration of railway works, the operation and maintenance of railway equipment and certain non-railway operations affecting railway safety. Pursuant to the Notice of *Railway Works Regulations*, the project proponent will be required to give notice of the proposed project to the following persons: the railway whose line is to be crossed, the municipality in which the crossing works are to be located and the authority having responsibility for the road in question. An approval may be required for certain railway works that depart from engineering standards set under the regulations or where an objection has been filed against the work. Any questions about the *Railway Safety Act* and the Notice of *Railway Works Regulations* should be directed to Luciano Martin, Manager of Engineering, at (416) 973-2326.

You may also wish to review the Act and Regulations by accessing the following Internet sites:

Railway Safety Act: <http://www.tc.gc.ca/acts-regulations/acts/1985s4-32/menu.htm>

Notice of Railway Works Regulations: <http://laws.justice.gc.ca/en/SOR-91-103/>

Please note that certain approvals under the *Navigable Waters Protection Act* or *Railway Safety Act* trigger the requirement for a federal environmental assessment under the Canadian Environmental Assessment Act. You may therefore wish to consider incorporating CEAA requirements into your provincial environmental assessment.

Regards,

Environmental Assessment Coordinator

Transport Canada, Ontario Region

Environment & Engineering (PHE)

4900 Yonge St., 4th Fl., Toronto, ON M2N 6A5

Email: EnviroOnt@tc.gc.ca

 Please consider the environment before printing this email.

Friedl, Susanne

From: Nadolny, Rob
Sent: Wednesday, June 16, 2010 2:30 PM
To: Kozak, Mark
Subject: FW: Grand Renewable Energy Park, Haldimand County, NEATS 24026
Attachments: Obstruction clearance Form.PDF; CARs 621.19.12 - Marking and Lighting of Wind Turbines and Windfarms.pdf

Follow Up Flag: Follow up
Flag Status: Completed

Categories: Red Category

From: EnviroOnt [mailto:EnviroOnt@tc.gc.ca]
Sent: Wednesday, June 16, 2010 2:29 PM
To: Nadolny, Rob
Cc: Aerodromes Ontario
Subject: RE: Grand Renewable Energy Park, Haldimand County, NEATS 24026

Dear Mr. Nadolny,

Further to our e-mail of June 10, 2010 (below), please be advised that obstacles such as wind turbines must be assessed for lighting and marking requirements in accordance with Canadian Aviation Regulations (CARs) 621.19.

Wind turbine and wind farm proponents should complete an Aeronautical Obstruction Clearance Form which is available on the Transport Canada Ontario Region website at www.tc.gc.ca/Ontario/eng/air/civil-aviation/aerodromes.htm, and also attached to this message. If you require further information regarding CARs, please contact Aerodromes and Air Navigation Ontario Region at 416-952-1623 or by email at aerodromes.ontario@tc.gc.ca

<<Obstruction clearance Form.PDF>> <<CARs 621.19.12 - Marking and Lighting of Wind Turbines and Windfarms.pdf>>

Regards,

Environmental Assessment Coordinator
Transport Canada, Ontario Region
Environment & Engineering (PHE)
4900 Yonge St., 4th Fl., Toronto, ON M2N 6A5
Email: EnviroOnt@tc.gc.ca

 Please consider the environment before printing this email.

From: EnviroOnt

Sent: Thursday, June 10, 2010 2:17 PM
To: 'rob.nadolny@stantec.com'
Subject: Grand Renewable Energy Park, Haldimand County, NEATS 24026

Thank you for your letter regarding the above referenced environmental assessment. Please in future forward correspondence on this environmental assessment to the undersigned.

We have reviewed the information, and note the following:

Transport Canada is responsible for the administration of the *Navigable Waters Protection Act*, which prohibits the construction or placement of any "works" in navigable waters without first obtaining approval. If any of the related project elements or activities related may cross or affect a potentially navigable waterway, you are requested to prepare and submit an application in accordance with the requirements as outlined in the attached Application Guide. Any questions about the NWPA application process should be directed to the Navigable Waters Protection Program at 1-866-821-6631 or NWPontario-PENontario@tc.gc.ca.

<< File: NWP_App_Guide_EN.pdf >>

Transport Canada is also responsible for the administration of the *Railway Safety Act* to ensure the safe operation of railways. The Act addresses the construction and alteration of railway works, the operation and maintenance of railway equipment and certain non-railway operations affecting railway safety. Pursuant to the Notice of *Railway Works Regulations*, the project proponent will be required to give notice of the proposed project to the following persons: the railway whose line is to be crossed, the municipality in which the crossing works are to be located and the authority having responsibility for the road in question. An approval may be required for certain railway works that depart from engineering standards set under the regulations or where an objection has been filed against the work. Any questions about the *Railway Safety Act* and the Notice of *Railway Works Regulations* should be directed to Luciano Martin, Manager of Engineering, at (416) 973-2326.

You may also wish to review the Act and Regulations by accessing the following Internet sites:

Railway Safety Act: <http://www.tc.gc.ca/acts-regulations/acts/1985s4-32/menu.htm>

Notice of Railway Works Regulations: <http://laws.justice.gc.ca/en/SOR-91-103/>

Please note that certain approvals under the *Navigable Waters Protection Act* or *Railway Safety Act* trigger the requirement for a federal environmental assessment under the Canadian Environmental Assessment Act. You may therefore wish to consider incorporating CEEA requirements into your provincial environmental assessment.

Regards,

Environmental Assessment Coordinator

Transport Canada, Ontario Region
Environment & Engineering (PHE)
4900 Yonge St., 4th Fl., Toronto, ON M2N 6A5
Email: EnviroOnt@tc.gc.ca

 Please consider the environment before printing this email.



AERONAUTICAL OBSTRUCTION CLEARANCE FORM

FORMULAIRE D'AUTORISATION D'OBSTACLE AÉRIEN

TO BE COMPLETED BY APPLICANT — À REMPLIR PAR LE REQUÉRANT

Operator's Name — Nom de l'opérateur <i>Samsung Renewable Energy Inc.</i>															
Operator's Address — Adresse de l'opérateur <i>55 Standish Court, Mississauga, ON</i>															
Operator's Contact — Agent de liaison de l'opérateur <i>Adam Rosso</i>		Contact's Telephone No. — N° de téléphone de liaison <i>905-285-1872</i>													
Applicant's Name — Nom du requérant <i>Samsung Renewable Energy Inc.</i>															
Address — Adresse <i>55 Standish Court</i>															
City — Ville <i>Mississauga</i>	Province <i>ON</i>	Postal — Code — postal <i>L5R 4B2</i>	Telephone No. — N° de téléphone <i>905-285-1872</i>												
Contact — Personne ressource <i>Adam Rosso</i>		Telephone No. — N° de téléphone <i>11</i>													
Nearest city / town to proposed facility — Ville la plus proche de la structure proposée <i>Dunnville, ON</i>		Geographic coordinates of structure — Coordonnées géographiques de la structure <i>see attached table</i>													
TOWERS / ANTENNAS TOURS / ANTENNES		BUILDING OR OTHER STRUCTURE BÂTIMENT OU AUTRE STRUCTURE													
		<table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th></th> <th>Feet — Pieds</th> <th>Meters — Mètres</th> </tr> </thead> <tbody> <tr> <td>A Height above ground Hauteur au-dessus du sol</td> <td></td> <td><i>100</i></td> </tr> <tr> <td>B Building height Hauteur du bâtiment</td> <td></td> <td><i>N/A</i></td> </tr> <tr> <td>C Ground elevation above sea level Hauteur du sol au-dessus du niveau de la mer</td> <td></td> <td><i>178-220</i></td> </tr> </tbody> </table>			Feet — Pieds	Meters — Mètres	A Height above ground Hauteur au-dessus du sol		<i>100</i>	B Building height Hauteur du bâtiment		<i>N/A</i>	C Ground elevation above sea level Hauteur du sol au-dessus du niveau de la mer		<i>178-220</i>
	Feet — Pieds	Meters — Mètres													
A Height above ground Hauteur au-dessus du sol		<i>100</i>													
B Building height Hauteur du bâtiment		<i>N/A</i>													
C Ground elevation above sea level Hauteur du sol au-dessus du niveau de la mer		<i>178-220</i>													
List any tall adjacent buildings and structures which may overshadow the proposed structure (Attach sketch) Faire une liste indiquant les structures et bâtiments avoisinants plus haut que le bâtiment projeté (Inclure un diagramme)															
New struc. — Nouv. struc. <input checked="" type="checkbox"/> Yes / Oui <input type="checkbox"/> No / Non	Add. to exist. struc. incl. total hght. — Ajout à un bâti. exis. incl. hauteur total	Proposed Construction — Date — de construction proposée <i>2011-2012</i>													
TYPE OF STRUCTURE (narrative description and function) — GENRE DE STRUCTURE (description narrative et fonction) <i>69 wind turbines with a hub height of 100m each. Blade length is 49m each.</i>															
Signature (of applicant) (du requérant) <i>[Signature]</i>		Date (Y-A-M-D-J) <i>2011/01/17</i>													

TRANSPORT CANADA USE ONLY — À L'USAGE DE TRANSPORTS CANADA

REGIONAL MANAGER TECHNICAL SERVICES (as required) — GESTIONNAIRE RÉGIONAL — SERVICES TECHNIQUES (si nécessaire)	
Comments — Commentaires	
(Y-A-M-D-J)	
_____ Signature	_____ Date

AERONAUTICAL ASSESSMENT — ÉVALUATION

Site acceptable — Emplacement acceptable <input type="checkbox"/> Yes / Oui <input type="checkbox"/> No / Non (if no reason) / (si non, pourquoi)	
Lighting as per TP382 required — Balisage lumineux tel que demandé au TP382 <input type="checkbox"/> Yes / Oui <input type="checkbox"/> No / Non or / ou	
Painting as per TP382 required — Balisage peint tel que demandé au TP382 <input type="checkbox"/> Yes / Oui <input type="checkbox"/> No / Non or / ou	
Temporary lighting required — Nécessité d'un balisage lumineux temporaire <input type="checkbox"/> Yes / Oui <input type="checkbox"/> No / Non (if yes type) / (si oui, de quel genre)	
Advise Transport Canada in writing 90 days before construction / Avertir Transports Canada par écrit 90 jours avant la construction <input type="checkbox"/> when construction starts / au commencement de la construction <input type="checkbox"/> and on completion / et à la fin des travaux <input type="checkbox"/> Valid to / Valide jusqu'au	
Regional Supt. Standards and Procedures: / Surintendant régional — Normes et procédures: <i>[Signature]</i>	Date (Y-A-M-D-J) <i>[Date]</i>

Turbine ID	X	Y	DATUM
1	607287	4746785	UTM NAD83, Zone 17
2	605035	4746639	UTM NAD83, Zone 17
3	606942	4746830	UTM NAD83, Zone 17
4	604861	4746993	UTM NAD83, Zone 17
5	602757	4745791	UTM NAD83, Zone 17
6	606513	4747319	UTM NAD83, Zone 17
7	608495	4747949	UTM NAD83, Zone 17
8	607477	4747512	UTM NAD83, Zone 17
9	600283	4745004	UTM NAD83, Zone 17
10	593994	4748442	UTM NAD83, Zone 17
11	603472	4748075	UTM NAD83, Zone 17
12	601479	4747111	UTM NAD83, Zone 17
13	594663	4751618	UTM NAD83, Zone 17
14	603952	4750047	UTM NAD83, Zone 17
15	608232	4749798	UTM NAD83, Zone 17
16	594379	4749955	UTM NAD83, Zone 17
17	598651	4747922	UTM NAD83, Zone 17
18	587941	4753452	UTM NAD83, Zone 17
19	606357	4749366	UTM NAD83, Zone 17
20	592562	4749469	UTM NAD83, Zone 17
21	602672	4746244	UTM NAD83, Zone 17
22	601756	4751401	UTM NAD83, Zone 17
23	591178	4751634	UTM NAD83, Zone 17
24	592285	4749800	UTM NAD83, Zone 17
25	599130	4750267	UTM NAD83, Zone 17
26	607589	4749481	UTM NAD83, Zone 17
27	598999	4748313	UTM NAD83, Zone 17
28	591339	4752273	UTM NAD83, Zone 17
29	599967	4750467	UTM NAD83, Zone 17
30	606959	4749603	UTM NAD83, Zone 17
31	601833	4751073	UTM NAD83, Zone 17
32	600555	4745188	UTM NAD83, Zone 17
33	589588	4755581	UTM NAD83, Zone 17
34	589790	4753921	UTM NAD83, Zone 17
35	602880	4749652	UTM NAD83, Zone 17
36	590002	4755767	UTM NAD83, Zone 17
37	602481	4749039	UTM NAD83, Zone 17
38	602608	4749469	UTM NAD83, Zone 17
39	603875	4749401	UTM NAD83, Zone 17
40	604239	4749614	UTM NAD83, Zone 17
41	590395	4753879	UTM NAD83, Zone 17
42	600381	4750377	UTM NAD83, Zone 17
43	588466	4752970	UTM NAD83, Zone 17
44	599489	4748483	UTM NAD83, Zone 17
45	590085	4753880	UTM NAD83, Zone 17
46	590582	4751836	UTM NAD83, Zone 17

47	604740	4750499	UTM NAD83, Zone 17
48	594126	4750504	UTM NAD83, Zone 17
49	608750	4749784	UTM NAD83, Zone 17
50	609091	4749844	UTM NAD83, Zone 17
51	601762	4745085	UTM NAD83, Zone 17
52	599708	4748016	UTM NAD83, Zone 17
53	600301	4748359	UTM NAD83, Zone 17
54	607370	4746400	UTM NAD83, Zone 17
55	600136	4746677	UTM NAD83, Zone 17
56	598686	4750284	UTM NAD83, Zone 17
57	606647	4751294	UTM NAD83, Zone 17
58	589733	4750362	UTM NAD83, Zone 17
59	614345	4748206	UTM NAD83, Zone 17
60	614974	4747470	UTM NAD83, Zone 17
61	614326	4747732	UTM NAD83, Zone 17
62	614680	4748176	UTM NAD83, Zone 17
63	614750	4747811	UTM NAD83, Zone 17
64	614705	4747338	UTM NAD83, Zone 17
65	611480	4747403	UTM NAD83, Zone 17
66	611758	4747387	UTM NAD83, Zone 17
67	612236	4747633	UTM NAD83, Zone 17
68	602131	4748909	UTM NAD83, Zone 17
69	606923	4747368	UTM NAD83, Zone 17



Transport
Canada

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Canada

Aeronautical Obstruction Clearance
Wind Turbine Coordinates Spreadsheet

Turbine information						Upon completion		
Turbine Number	LAT dd mm ss.ss	LONG -ddd mm ss.ss	Ground Elevation (Feet)	Structure Height (Feet)	Total Height (Feet)	Lighted Y/N	Painted Y/N	Construction Date
1	42 51 58.05	-79 41 11.71	620.2	493.8	1114	N	Y	2011/2012
2	42 51 54.44	-79 42 51.03	634.8	493.8	1129	Y	Y	2011/2012
3	42 51 59.68	-79 41 26.88	610.3	493.8	1105	N	Y	2011/2012
4	42 52 06.00	-79 42 58.46	643.0	493.8	1137	N	Y	2011/2012
5	42 51 28.07	-79 44 31.96	600.4	493.8	1095	Y	Y	2011/2012
6	42 52 15.74	-79 41 45.44	616.9	493.8	1111	Y	Y	2011/2012
7	42 52 35.16	-79 40 17.67	623.4	493.8	1118	Y	Y	2011/2012
8	42 52 21.51	-79 41 02.83	643.0	493.8	1137	N	Y	2011/2012
9	42 51 03.78	-79 46 21.15	590.5	493.8	1085	Y	Y	2011/2012
10	42 52 58.06	-79 50 56.43	656.2	493.8	1150	Y	Y	2011/2012
11	42 52 41.75	-79 43 58.94	646.3	493.8	1141	N	Y	2011/2012
12	42 52 11.47	-79 45 27.40	620.7	493.8	1115	N	Y	2011/2012
13	42 54 40.70	-79 50 25.01	672.6	493.8	1167	Y	Y	2011/2012
14	42 53 45.43	-79 43 36.48	653.9	493.8	1148	N	Y	2011/2012
15	42 53 35.22	-79 40 27.98	610.1	493.8	1104	N	Y	2011/2012
16	42 53 47.10	-79 50 39.73	656.2	493.8	1150	Y	Y	2011/2012
17	42 52 39.09	-79 47 31.63	643.0	493.8	1137	Y	Y	2011/2012
18	42 55 43.04	-79 55 20.39	688.4	493.8	1183	Y	Y	2011/2012
19	42 53 22.22	-79 41 50.53	623.4	493.8	1118	Y	Y	2011/2012
20	42 53 31.77	-79 51 58.45	659.4	493.8	1154	Y	Y	2011/2012
21	42 51 44.28	-79 44 34.49	607.0	493.8	1101	N	Y	2011/2012
22	42 54 30.38	-79 45 12.40	602.8	493.8	1097	Y	Y	2011/2012
23	42 54 42.75	-79 52 58.67	689.0	493.8	1183	N	Y	2011/2012
24	42 53 42.79	-79 52 11.17	656.2	493.8	1150	N	Y	2011/2012
25	42 53 54.80	-79 47 08.77	633.4	493.8	1128	N	Y	2011/2012
26	42 53 25.27	-79 40 56.54	604.7	493.8	1099	N	Y	2011/2012
27	42 52 51.60	-79 47 15.92	652.7	493.8	1147	N	Y	2011/2012
28	42 55 03.39	-79 52 51.20	676.7	493.8	1171	Y	Y	2011/2012
29	42 54 00.96	-79 46 31.87	623.4	493.8	1118	Y	Y	2011/2012
30	42 53 29.54	-79 41 24.23	606.9	493.8	1101	N	Y	2011/2012
33	42 56 51.36	-79 54 06.51	661.2	493.8	1155	N	Y	2011/2012
34	42 55 57.47	-79 53 58.56	689.0	493.8	1183	N	Y	2011/2012
35	42 53 33.15	-79 44 23.99	659.4	493.8	1154	N	Y	2011/2012
36	42 56 57.21	-79 53 48.14	672.6	493.8	1167	Y	Y	2011/2012
37	42 53 13.48	-79 44 41.98	656.2	493.8	1150	N	Y	2011/2012
38	42 53 27.35	-79 44 36.10	659.4	493.8	1154	N	Y	2011/2012
39	42 53 24.53	-79 43 40.30	646.3	493.8	1141	Y	Y	2011/2012
40	42 53 31.26	-79 43 24.11	639.8	493.8	1134	N	Y	2011/2012
41	42 55 55.85	-79 53 31.90	682.4	493.8	1177	Y	Y	2011/2012
42	42 53 57.85	-79 46 13.68	613.5	493.8	1108	N	Y	2011/2012
43	42 55 27.20	-79 54 57.51	698.7	493.8	1193	N	Y	2011/2012
44	42 52 56.88	-79 46 54.22	656.2	493.8	1150	N	Y	2011/2012
45	42 55 56.01	-79 53 45.57	685.7	493.8	1180	N	Y	2011/2012
46	42 54 49.55	-79 53 24.84	689.0	493.8	1183	N	Y	2011/2012
47	42 53 59.69	-79 43 01.44	621.5	493.8	1116	Y	Y	2011/2012
48	42 54 04.83	-79 50 49.36	670.5	493.8	1165	N	Y	2011/2012
49	42 53 34.50	-79 40 05.16	607.0	493.8	1101	N	Y	2011/2012

Turbine information						Upon completion		
Turbine Number	LAT dd mm ss.ss	LONG -ddd mm ss.ss	Ground Elevation (Feet)	Structure Height (Feet)	Total Height (Feet)	Lighted Y/N	Painted Y/N	Construction Date
50	42 53 36.27	-79 39 50.09	605.2	493.8	1100	Y	Y	2011/2012
51	42 51 05.67	-79 45 16.25	597.1	493.8	1091	Y	Y	2011/2012
52	42 52 41.64	-79 46 44.86	645.1	493.8	1139	N	Y	2011/2012
53	42 52 52.48	-79 46 18.51	643.0	493.8	1137	Y	Y	2011/2012
54	42 51 45.52	-79 41 08.31	607.0	493.8	1101	Y	Y	2011/2012
55	42 51 58.04	-79 46 26.86	611.7	493.8	1106	Y	Y	2011/2012
56	42 53 57.28	-79 47 28.92	646.3	493.8	1141	Y	Y	2011/2012
57	42 54 24.15	-79 41 36.70	596.9	493.8	1091	Y	Y	2011/2012
58	42 54 02.13	-79 54 03.13	675.9	493.8	1170	Y	Y	2011/2012
59	42 52 37.56	-79 35 59.32	596.0	493.8	1090	N	Y	2011/2012
60	42 52 16.22	-79 35 32.52	603.8	493.8	1098	Y	Y	2011/2012
61	42 52 25.06	-79 36 00.88	600.4	493.8	1095	N	Y	2011/2012
62	42 52 39.26	-79 35 44.96	597.3	493.8	1092	Y	Y	2011/2012
63	42 52 27.39	-79 35 42.14	605.7	493.8	1100	N	Y	2011/2012
64	42 52 12.09	-79 35 44.47	597.1	493.8	1091	N	Y	2011/2012
65	42 52 15.91	-79 38 06.52	620.1	493.8	1114	N	Y	2011/2012
66	42 52 15.25	-79 37 54.29	616.8	493.8	1111	N	Y	2011/2012
67	42 52 22.97	-79 37 33.05	616.5	493.8	1111	Y	Y	2011/2012
68	42 53 09.43	-79 44 57.49	656.2	493.8	1150	Y	Y	2011/2012
69	42 52 17.13	-79 41 27.35	626.6	493.8	1121	N	Y	2011/2012

From: Régis Dastous [mailto:IMCEAEX-
_O=YRH+20ORGANIZATION_OU=EXCHANGE+20ADMINISTRATIVE+20GROUP+20+28FYDIBOH
F23SPDLT+29_CN=RECIPIENTS_CN=REGIS+20DASTOUS@yrh.com]

Sent: Tuesday, August 16, 2011 1:28 PM

To: aerodromes.ontario@tc.gc.ca

Cc: Lucking, Michael

Subject: Aeronautical Obstacle Clearance Form, Grand Renewable Energy Park Project

Hi Michael,

Please find attached the latest and final version of the Samsung's Grand Renewable Energy Park in southern Ontario. There are not many changes from the last one, only 2 wind turbines have been taken out and a few others have been moved by a few meters. I include a new application form, since number of wind turbine is not the same, along with a new spreadsheet and a new 1:50k map.

As mentioned in my last week E-mail, this application is made considering only this Samsung GREP wind farm, since a grouped application with the other neighboring wind farms was not practically feasible.

Please review the proposed lighting scenario and do not hesitate to contact me if you have any question.

Best regards

Régis d'Astous

Yves R. Hamel et Associés Inc.
424 Guy, Suite 102
Montréal, Qc, Canada
H3J 1S6

Tél: +1 (514) 934-3024 Ext:237
Fax: +1 (514) 934-2245
mailto: rdastous@yrh.com



Transport Canada / Transports Canada

APPENDIX C TO CAR 621.19 - ANNEXE C RAC 621.19

TC File No./Ref No. - TC n° du dossier/N° de réf.

2011-630

AERONAUTICAL OBSTRUCTION CLEARANCE FORM

FORMULAIRE D'AUTORISATION D'OBSTACLE AÉRIEN

TO BE COMPLETED BY APPLICANT - À REMPLIR PAR LE REQUÉRANT

Operator's Name - Nom de l'opérateur Samsung Renewable Energy Inc.		
Operator's Address - Adresse de l'opérateur 55 Standish Court, Mississauga, On L5R 4B2		
Operator's Contact - Agent de liaison de l'opérateur Adam Rosso		
Contact's Telephone No. - N° de téléphone de liaison 905-285-1872	Contact's FAX No. - N° de télécopieur de liaison	Contact's Email Address - Adresse électronique de liaison a.rosso@samsungrenewableenergy.ca
Applicant's Name - Nom du requérant Régis d'Astous		Address - Adresse 424 Guy St. Suite 102
City - Ville Montréal	Province/Territory - Province/Territoire Québec	Postal - Code - postal H3J 1S6
Applicant's Telephone No. - N° de téléphone du requérant 514-934-3024	Applicant's FAX No. - N° de télécopieur du requérant 514-934-2245	Applicant's Email Address - Adresse électronique du requérant rdastous@yrh.com

Nearest city / town to proposed facility Ville la plus proche de la structure proposée Dunnville, On.	Geographic coordinates of structure - coordonnées géographiques de la structure		<input type="checkbox"/> NAD27 <input checked="" type="checkbox"/> NAD83 <input type="checkbox"/> WGS84
	N Latitude Latitude N	W Longitude Longitude O	

TOWERS / ANTENNAS TOURS / ANTENNES	BUILDING OR OTHER STRUCTURE BÂTIMENT OU AUTRE STRUCTURE	Feet - Pieds	Meters - Mètres
		A Height above ground Hauteur au-dessus du sol 494	105.5
		B Building height Hauteur du bâtiment	
		C Ground elevation above sea level Hauteur du sol au-dessus du niveau de la mer See Spreadsheet	

List any tall adjacent buildings and structures which may shield the proposed structure (Attach sketch)
Faire une liste indiquant les structures et bâtiments avoisinants plus haut que le bâtiment projeté (Inclure un diagramme)

New struc. - Nouv. struc. <input checked="" type="checkbox"/> Yes / Oui <input type="checkbox"/> No / Non	Add. to exist. struc. incl. total hght. - Ajout à un bâti. exis. incl. hauteur total	Proposed Construction - Date - de construction proposée 2011-2012
--	--	---

TYPE OF STRUCTURE (narrative description and function) - GENRE DE STRUCTURE (description narrative et fonction)
Wind farm consisting of 67 wind turbines Siemens 2.3-101, with a hub height of 100 m and a 50.5 m rotor radius, for a total structure height of 150.5 m above ground.

Signature (of applicant) (du requérant) 	Date (Y/A-M-D/J) 2011-08-16
---	---------------------------------------

TRANSPORT CANADA USE ONLY - À L'USAGE DE TRANSPORTS CANADA

AERONAUTICAL ASSESSMENT - ÉVALUATION AÉRONAUTIQUE

Site acceptable - Emplacement acceptable
 Yes / Oui No / Non (if no reason) / (si non, pourquoi) **N/A** This form does not constitute authority for construction.

Lighting as per (TP382) required - Balisage lumineux tel que demandé au (TP382)
 Yes / Oui No / Non **PLEASE LIGHT TURBINES # 6, 19, 20, 39, 53 and 68 IN ADDITION TO SUBMITTED LIGHTING PROPOSAL**

Painting as per (TP382) required - Balisage peint tel que demandé au (TP382)
 Yes / Oui No / Non

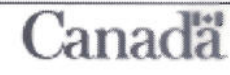
Temporary lighting required - Nécessité d'un balisage lumineux temporaire
 Yes / Oui No / Non (if yes, type) / (si oui, de quel genre)

Advise Transport Canada in writing 90 days before construction - Avertir Transports Canada par écrit 90 jours avant la construction
 when construction starts / au commencement de la construction and on completion / et à la fin des travaux Valid to / Valide jusqu'au

Civil Aviation Inspector (as required) - Inspecteur Aviation Civile (si nécessaire)
 Comments - Commentaires

 Signature _____ Date (Y/A-M-D/J) **2011-09-15**

Regional Manager Aerodrome Safety - Gestionnaire Régional Sécurité des aéroports
 Signature _____ Date (Y/A-M-D/J)



de

Friedl, Susanne

From: Nadolny, Rob
Sent: Wednesday, June 16, 2010 2:30 PM
To: Kozak, Mark
Subject: FW: Grand Renewable Energy Park, Haldimand County, NEATS 24026
Attachments: Obstruction clearance Form.PDF; CARs 621.19.12 - Marking and Lighting of Wind Turbines and Windfarms.pdf

Follow Up Flag: Follow up
Flag Status: Completed

Categories: Red Category

From: EnviroOnt [mailto:EnviroOnt@tc.gc.ca]
Sent: Wednesday, June 16, 2010 2:29 PM
To: Nadolny, Rob
Cc: Aerodromes Ontario
Subject: RE: Grand Renewable Energy Park, Haldimand County, NEATS 24026

Dear Mr. Nadolny,

Further to our e-mail of June 10, 2010 (below), please be advised that obstacles such as wind turbines must be assessed for lighting and marking requirements in accordance with Canadian Aviation Regulations (CARs) 621.19.

Wind turbine and wind farm proponents should complete an Aeronautical Obstruction Clearance Form which is available on the Transport Canada Ontario Region website at www.tc.gc.ca/Ontario/eng/air/civil-aviation/aerodromes.htm, and also attached to this message. If you require further information regarding CARs, please contact Aerodromes and Air Navigation Ontario Region at 416-952-1623 or by email at aerodromes.ontario@tc.gc.ca

<<Obstruction clearance Form.PDF>> <<CARs 621.19.12 - Marking and Lighting of Wind Turbines and Windfarms.pdf>>

Regards,

Environmental Assessment Coordinator
Transport Canada, Ontario Region
Environment & Engineering (PHE)
4900 Yonge St., 4th Fl., Toronto, ON M2N 6A5
Email: EnviroOnt@tc.gc.ca

 Please consider the environment before printing this email.

From: EnviroOnt

Sent: Thursday, June 10, 2010 2:17 PM
To: 'rob.nadolny@stantec.com'
Subject: Grand Renewable Energy Park, Haldimand County, NEATS 24026

Thank you for your letter regarding the above referenced environmental assessment. Please in future forward correspondence on this environmental assessment to the undersigned.

We have reviewed the information, and note the following:

Transport Canada is responsible for the administration of the *Navigable Waters Protection Act*, which prohibits the construction or placement of any "works" in navigable waters without first obtaining approval. If any of the related project elements or activities related may cross or affect a potentially navigable waterway, you are requested to prepare and submit an application in accordance with the requirements as outlined in the attached Application Guide. Any questions about the NWPA application process should be directed to the Navigable Waters Protection Program at 1-866-821-6631 or NWPontario-PENontario@tc.gc.ca.

<< File: NWP_App_Guide_EN.pdf >>

Transport Canada is also responsible for the administration of the *Railway Safety Act* to ensure the safe operation of railways. The Act addresses the construction and alteration of railway works, the operation and maintenance of railway equipment and certain non-railway operations affecting railway safety. Pursuant to the Notice of *Railway Works Regulations*, the project proponent will be required to give notice of the proposed project to the following persons: the railway whose line is to be crossed, the municipality in which the crossing works are to be located and the authority having responsibility for the road in question. An approval may be required for certain railway works that depart from engineering standards set under the regulations or where an objection has been filed against the work. Any questions about the *Railway Safety Act* and the Notice of *Railway Works Regulations* should be directed to Luciano Martin, Manager of Engineering, at (416) 973-2326.

You may also wish to review the Act and Regulations by accessing the following Internet sites:

Railway Safety Act: <http://www.tc.gc.ca/acts-regulations/acts/1985s4-32/menu.htm>

Notice of Railway Works Regulations: <http://laws.justice.gc.ca/en/SOR-91-103/>

Please note that certain approvals under the *Navigable Waters Protection Act* or *Railway Safety Act* trigger the requirement for a federal environmental assessment under the Canadian Environmental Assessment Act. You may therefore wish to consider incorporating CEEA requirements into your provincial environmental assessment.

Regards,

Environmental Assessment Coordinator

Transport Canada, Ontario Region
Environment & Engineering (PHE)
4900 Yonge St., 4th Fl., Toronto, ON M2N 6A5
Email: EnviroOnt@tc.gc.ca

 Please consider the environment before printing this email.

Stantec

**GRAND RENEWABLE ENERGY PARK
CONSULTATION REPORT**

Appendix H

Aboriginal Community Correspondence

Appendix H1

Correspondence with the Six Nations of the Grand River First Nation

Grand Renewable Energy Park
 Aboriginal Correspondence Summary
 Six Nations Elected Council

Date	Method of Communication	Title	First Name	Last Name	Job Title	Department	Other Community Members Included on Correspondence	All Parties Included on Correspondence	Comment(s)
June 2, 2010	Email - Sent SPK (HL) to SN	Mr.	Matt	Jamieson	Director	Economic Development	Ava Hill	SN, SPK, Stantec	- Appreciate Chief & Council's visit. - Samsung will try to communicate more often and before key announcements with SN. - Ad for GREP being placed in newspaper prior to publishing formal Notice to Engage in Project. - Ad being published end of this week. - ATTACHMENT: newspaper ad.
June 4, 2010	Email - Sent Stantec (KH) to SN	Mr.	Matt	Jamieson	Director	Economic Development	Chief Montour Ava Hill Wray Maracle Claudine VanEvery-Albert	SN, SPK, Stantec	- FAQ document didn't work out. - Attached copy of notice and draft Project Description Report to provide info to help answer questions from community. - Courtesy heads-up that Samsung has been directed by the Ontario government to engage the Confederacy Council.
June 4, 2010	Letter - sent Stantec (RN) to SN	Chief	William K.	Montour	n/a	n/a	Matt Jamieson	SN, SPK, Stantec	- Introduction to Project. - ATTACHMENTS: Notice to Engage in a Project & Notice of Public Open House, and Draft Project Description Report.
June 24, 2010	Letter - Sent Stantec (RN) to SN	Chief	William K.	Montour	n/a	n/a	Matt Jamieson	SN, SPK, Stantec	- Draft Project Description Report has been updated to include additional information related to Project setbacks and the identification of potential environmental effects. - ATTACHMENT: Draft Project Description Report (Version 2)
June 28, 2010	2 Letters - Sent SPK (HL) to SN Sent via email.	Chief	William K.	Montour	n/a	n/a	Matt Jamieson Ava Hill Claudine VanEvery-Albert	SN, SPK, Stantec	- Letter: Samsung offers to hold a Community Information Session on reserve prior to Public Open House 1 (July 8, 2010). - Letter: Samsung invites community members to participate in archaeology and natural heritage field studies.
July 1, 2010	Email - Received SN to SPK (HL)	Chief	William K.	Montour	n/a	n/a	Matt Jamieson Ava Hill Claudine VanEvery-Albert	SN, SPK	- SN would like to further discuss Community Information Session at the July 5 meeting. - SN is not saying no to Community Information Session, but July 7 doesn't work due to lack of time to promote session. - Additionally, Hydro One is holding an information session on transmission line clearing on July 7.
July 5, 2010	Meeting	Chief	William K.	Montour	n/a	n/a	Matt Jamieson Ava Hill Lonny Bomberry Phil Monture	SN, SPK, Stantec, FCPIL	- REA-related presentation on the GREP given by Samsung during the meeting.
July 5, 2010	Email - Sent SPK (AR) to SN	Mr.	Matt	Jamieson	Director	Economic Development	n/a	SN, SPK, Stantec	- Provided a copy of the GREP presentation given at today's meeting.
July 8, 2010	Public Open House	Ms.	Joanne	Thomas	Land Use Officer	Six Nations Lands and Resources	n/a	n/a	- Representative attended Public Open House.
July 13, 2010	Courier transmittal Stantec (KH) to SN	Ms.	Joanne	Thomas	Land Use Officer	Six Nations Lands and Resources	n/a	SN, Stantec	- Copy of display boards sent in courier.
July 27, 2010	Phone Conversation Stantec (KH) to SN	Ms.	Joanne	Thomas	Land Use Officer	Six Nations Lands and Resources	n/a	SN, Stantec	- Stantec asked about the process SN normally follows to have community members participate in, or monitor, the archaeology and natural heritage field work. - SN expects an archaeological monitor on site every day that the archaeologists are working. - Process for setting up field work participation for community member is unknown, JT will look into it and let Stantec know.
August 23, 2010	Phone Conversation Stantec (KH) to SN	Ms.	Joanne	Thomas	Land Use Officer	Six Nations Lands and Resources	n/a	Stantec	- Called to see if SN wanted to participate in the field programs; they're ongoing, if someone's interested we need to organize. - SN will get back to us.
August 25, 2010	Phone Conversation Stantec (KH) to SN	Ms.	Joanne	Thomas	Land Use Officer	Six Nations Lands and Resources	n/a	Stantec	- SN confirmed no participation in field programs - they aren't set up to do this. - Confirming logistics for archaeology. - Stantec requested a meeting with SN technical staff to go over Project, and to let them know about the new REA process; regulatory requirements and what they can expect from us regarding the REA process.
August 27, 2011	Voicemail - Received SN to Stantec (KH)	Ms.	Joanne	Thomas	Land Use Officer	Six Nations Lands and Resources	n/a	SN, Stantec	- SN would like to meet with Stantec re: the environmental assessment process. - Provided a couple possible dates for meeting.

Grand Renewable Energy Park
 Aboriginal Correspondence Summary
 Six Nations Elected Council

Date	Method of Communication	Title	First Name	Last Name	Job Title	Department	Other Community Members Included on Correspondence	All Parties Included on Correspondence	Comment(s)
September 10, 2010	Meeting	Ms.	Joanne	Thomas	Land Use Officer	Six Nations Lands and Resources	Phil Monture Amy Lickers Lonny Bomberry	SN, SRE, Stantec	- Stantec provided an overview of REA and the GREP. - Outlined REA requirements for Aboriginal Engagement. - SN aware of deer hunting in the project study area. - Stantec inquired about methods for engaging SN. - SN stated reports should be made available at the EcoCentre. - SN had several questions about the study and asked for details re: project location when available.
September 27, 2010	Phone conversation Stantec (KH) to SN	Ms.	Joanne	Thomas	Land Use Officer	Six Nations Lands and Resources	n/a	SN, Stantec	- Follow up re: archaeological monitor and payment processing. - Discussed project progress. - Asked if SN had any questions re: technical meeting on Sept. 10. - Stantec will forward Lot/Concession information for solar lands to SN as soon as possible - lands haven't been finalized yet.
October 5, 2010	Letter - Sent Stantec (KH) to SN	Ms.	Joanne	Thomas	Land Use Officer	Six Nations Lands and Resources	Chief Montour Matt Jamieson Amy Lickers Lonny Bomberry Paul General	SN, SPK, Stantec	- Thank you for the information sharing session on Sep 10, 2010. - Provided a brief overview of the Sep 10, 2010 technical meeting. - Samsung recognizes that the REA process represents the minimum basic regulatory requirements, and is a small component of the ongoing meaningful engagement between Six Nations and Samsung. - In accordance with O.Reg.359/09, we request that SN provide, in writing, any information that, in their community's opinion, should be considered in preparing the REA documents for the Project, and in particular, any information your community may have about any adverse impacts the Project may have on constitutionally protected aboriginal or treaty rights and any measures for mitigating those adverse impacts. - Listed Project information sent to date to help identify for us the information we have requested. However, let us know if more information is needed.
October 12, 2010	Letter - Received SN to Stantec (KH)	Chief	William K.	Montour	n/a	n/a	Matt Jamieson Lonny Bomberry Joanne Thomas	SN, Stantec, SPK, First Canadian PIL	- Thank you for letter dated October 5, 2010. Will review and respond shortly. - Asked for clarification on Stantec's apparent reporting role on the discussions occurring between SPK and SN. - Would like written confirmation that meeting minutes for discussion on July 5th captured Chief Montour's opening remarks that the discussion did not constitute consultation. - Requested copies of all meeting minutes, and further advised that should the minutes in question fail to accurately record SN's declaration, then SN will hold Stantec to account. - It is SN's position that the communications, records and correspondence that are part of these discussions are not records of 'consultations' and shall not be part of any communication by either Party to any third party as evidence of 'consultation' without consent.
November 18, 2010	Email - Received SN to Stantec (KH)	Ms.	Joanne	Thomas	Land Use Officer	Six Nations Lands and Resources	n/a	n/a	- Follow-up to request for mapping as per meeting on 2010-09-10.
November 22, 2011	Email - Sent Stantec (KH) to SN	Ms.	Joanne	Thomas	Land Use Officer	Six Nations Lands and Resources	n/a	n/a	- Asked for clarification regarding the mapping requested: solar site, wind sites or both? MEI/ORC lands, private lands or both?

Grand Renewable Energy Park
 Aboriginal Correspondence Summary
 Six Nations Elected Council

Date	Method of Communication	Title	First Name	Last Name	Job Title	Department	Other Community Members Included on Correspondence	All Parties Included on Correspondence	Comment(s)
February 2, 2011	Letter - Sent Stantec (RN) to SN	Ms.	Joanne	Thomas	Land Use Officer	Six Nations Lands and Resources	Chief Montour Lonny Bomberry	SN, SPK, Stantec	<ul style="list-style-type: none"> - Project update and information request letter. - Update provided on Project work, including status of the Natural Heritage Assessment, archaeological work, and Project layout. - We recognize that construction and operation of the GREP has the potential to affect the constitutionally protected aboriginal or treaty rights of your community. However, we do not presently have information from your community regarding how these rights may be affected by project activities. - We would welcome the opportunity to understand how aboriginal rights are exercised in the project area so that we may work together and share information on how best to mitigate any potential impacts that may be identified. - We would like to request that you provide, in writing, any information that, in your community's opinion, should be considered in preparing the REA reports for the project, and in particular, any information your community may have about any adverse impacts the GREP may have on constitutionally protected aboriginal or treaty rights and any measures for mitigating those adverse impacts. - Listed Project information sent to date to help identify for us the information we have requested. However, let us know if more information is needed. - Mapping Request from SN: Samsung would be happy to provide mapping but would like clarification regarding what mapping SN is requesting so that the appropriate information can be sent. - ATTACHMENTS: preliminary wind turbine layout map, Project Newsletter Volume 1 (December 2010).
June 7, 2011	Letter - Received SN to SPK	Chief	William K.	Montour	n/a	n/a	n/a	SN, SPK, Hon. Dalton McGuinty, Ministry of Aboriginal Affairs, Ministry of Energy and Infrastructure	<ul style="list-style-type: none"> - Stated that none of meetings to date have met SN Consultation requirements as set out in their policy statement. ' Policy statement available on their website and provided directly to project team. - Takes all matters involving their Traditional Lands seriously. - Hopes that the meeting is a step towards a time when Samsung and its partners can have meaningful consultation discussions leading to accommodation with SN.
June 13, 2011	Letter - Received SN to OEB	Mr.	Lonny	Bomberry	Director	Six Nations Lands and Resources	n/a	SN, OEB	<ul style="list-style-type: none"> - SPK sent copy of letter to OEB re: Leave to Construct process. - The REA-related portion of the letter states "As an aside, with respect to the REA process, Six Nations Council understands that the applicant has not yet filed any application to the Ministry of the Environment for a REA. Further, the applicant has not consulted to date with the Six Nations Council Lands and Resources Office concerning Six Nations' interests relevant to the potential request for a REA."
July 12, 2011	Letter - Sent Stantec (PP) to SN	Mr.	Lonny	Bomberry	Director	Six Nations Lands and Resources	Chief Montour Ms. Joanne Thomas	SN, SPK, Stantec, OEB	<ul style="list-style-type: none"> - Response to the June 13, 2011 letter to OEB re: Leave to Construct application, in particular the paragraph re: REA process. - SPK has engaged with SN regarding this project (including the transmission line) over an extended period of time. The project team has conducted numerous activities to engage the Six Nations Council; list provided. - We are very interested in working with the SN Council Lands and Resources Office, both in terms of developing mitigation measures for any adverse impacts on SN' aboriginal or treaty rights that have been identified by the community, as well as working together to engage the larger community. - We have been guided by the Policy Statement, as well as the REA requirements, to engage Six Nations in the project. - If SN has feedback regarding how to better work with the Lands and Resources office, we are happy to receive it and to work with SN to refine an approach that is acceptable to all parties. - We are available at the convenience of the SN Lands and Resources Office, both by telephone as well as in-person meetings, to discuss the project.

Grand Renewable Energy Park
 Aboriginal Correspondence Summary
 Six Nations Elected Council

Date	Method of Communication	Title	First Name	Last Name	Job Title	Department	Other Community Members Included on Correspondence	All Parties Included on Correspondence	Comment(s)
July 19, 2011	Letter - Sent Stantec (RN) to SN	Chief	William K.	Montour	n/a	n/a	Matt Jamieson	Stantec, SN	<p>-On behalf of SPK, Stantec is providing the Draft REA Reports for review and comment.</p> <p>-Notice of Public Meeting will be published in local newspapers in Haldimand County the week of July 20th. Please let us know if you would like a copy published in a newspaper within your community.</p> <p>-The Ministry of the Environment has identified your community as potentially having constitutionally protected Aboriginal or treaty rights that may be adversely impacted by the GREP.</p> <p>- We do not presently have information from your community regarding how these rights may be affected by project activities. We continue to welcome the opportunity to understand how aboriginal rights are exercised in the project area so that we may work together and share information on how best to mitigate any potential impacts that may be identified.</p> <p>- Requested any information that, in your community's opinion, should be considered in preparing the final version of the REA reports for the project, and in particular, any information your community may have about any adverse impacts the GREP may have on constitutionally protected aboriginal or treaty rights and any measures for mitigating those adverse impacts.</p> <p>- The project team welcomes comments after September 22, 2011, however only comments received by that date will be included in the Project's Consultation Report that will be submitted as part of the Project's REA application.</p> <p>- Respectfully request that the draft REA reports be made available to your community members. Given the size of the enclosed reports, we have not included an additional hard copy in an effort to conserve paper. However, we would be happy to send additional hard copies or electronic copies if needed; please let us know.</p> <p>- ATTACHMENTS: Draft REA reports package, Notice of Public Meeting.</p>
July 19, 2012	Letter - Sent Stantec (RN) to SN	Ms.	Joanne	Thomas	Land Use Officer	Six Nations Lands and Resources	Chief Montour Lonny Bomberry	Stantec, SN	<p>-On behalf of SPK, Stantec is providing the Draft REA Reports for review and comment.</p> <p>-Notice of Public Meeting will be published in local newspapers in Haldimand County the week of July 20th. Please let us know if you would like a copy published in a newspaper within your community.</p> <p>-The Ministry of the Environment has identified your community as potentially having constitutionally protected Aboriginal or treaty rights that may be adversely impacted by the GREP.</p> <p>- We do not presently have information from your community regarding how these rights may be affected by project activities. We continue to welcome the opportunity to understand how aboriginal rights are exercised in the project area so that we may work together and share information on how best to mitigate any potential impacts that may be identified.</p> <p>- Requested any information that, in your community's opinion, should be considered in preparing the final version of the REA reports for the project, and in particular, any information your community may have about any adverse impacts the GREP may have on constitutionally protected aboriginal or treaty rights and any measures for mitigating those adverse impacts.</p> <p>- The project team welcomes comments after September 22, 2011, however only comments received by that date will be included in the Project's Consultation Report that will be submitted as part of the Project's REA application.</p> <p>- Respectfully request that the draft REA reports be made available to your community members. Given the size of the enclosed reports, we have not included an additional hard copy in an effort to conserve paper. However, we would be happy to send additional hard copies or electronic copies if needed; please let us know.</p> <p>- ATTACHMENTS: Draft REA reports package, Notice of Public Meeting.</p>

Grand Renewable Energy Park
 Aboriginal Correspondence Summary
 Six Nations Elected Council

Date	Method of Communication	Title	First Name	Last Name	Job Title	Department	Other Community Members Included on Correspondence	All Parties Included on Correspondence	Comment(s)
July 28, 2011	Letter - Received SN to Stantec (PP)	Mr.	Lonny	Bomberry	Director	Six Nations Lands and Resources	Chief Montour Joanne Thomas	SN, OEB, SPK, Stantec	<ul style="list-style-type: none"> - Response to letter from Stantec dated July 12, 2011. - The July 12th letter is contradictory to SN's understanding of the state of the consultation process. -The consultation process, as per SN policy, has not yet commenced. -Noted that Stantec/Samsung are have withheld meeting minutes which have been requested by SN. - While the July 12th letter doesn not specifically assert that you have been in consultation discussions with SN, if you are intending to imply that SPK have already engaged in consultation with SN, such a conclusion would be incorrect and a misuse of the term consultation, let alone accommodation. -Provides some guiding principals from the SN Policy Statement which the Project Team have not followed. -Request that the previous letter, dated July 12th, 2011, be retracted. -SN is open and willing to initiate in consultation discussions as set out by SN policy.
September 22, 2011	Public Open House	Ms.	Joanne	Thomas	Consultation Point Person	Lands and Resources	n/a	n/a	Representative attended Public Open House.
September 23, 2011	Email - Sent Stantec (KH) to SN	Ms.	Joanne	Thomas	Land Use Officer	Lands and Resources	n/a	Stantec, SN	For your reference, attached is a pdf of the display panels that were set up around the room at the Open House on Sept. 22, 2011.

Friedl, Susanne

Subject: AD copy
Attachments: image001.jpg

From: Hagen Lee [mailto:hklee@sai.samsung.com]
Sent: June 2, 2010 1:16 PM
To: Matt Jamieson
Cc: Ava Hill; a.rosso@samsung.com; gy.yoo@samsung.com; m.henderson@samsung.com; Hearne, Kara; Prier, Peter; 이정탁
Subject: AD copy

Matt,

We appreciate the council and Chief Montour's visit to our office.

As per our discussions this morning, we will try to communicate more often and before key announcements with Six Nations.

we will be introducing our wind and solar projects in Haldimand County to the local community through Dunnville Chronicle.

I think it is scheduled to go out end of this week.

The point of the ad is to gently introduce the project before official NOC (Notice Of Commencement).

We are doing this in different locations for other projects as well.

Please find a copy of the ad attached.



Hagen Lee
Manager, Business Development &
Government Relations
T: 905.817.6496
C: 416.450.0351 (Canada)
C: 646.354.0797 (US)
E: hklee@sai.samsung.com

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Friedl, Susanne

From: Hearne, Kara
Sent: Friday, June 04, 2010 6:23 PM
To: Matt Jamieson
Cc: Ava Hill; a.rosso@samsung.com; gy.yoo@samsung.com; m.henderson@samsung.com; Prier, Peter; ???; William Montour; Claudine VanEvery-Albert; Wray Maracle; 'Hagen Lee'
Subject: RE: Samsung AD copy
Attachments: image001.jpg; Draft Project Description Report - June 2010.pdf; NTE_POH_Notice_20100601.pdf

Hi Matt,

Since the FAQ list didn't work out, we wanted to make sure that you had as much information as possible at this point about the Haldimand project. It's very early in the project planning stages, but hopefully this information will be useful to you in responding to any questions from the community.

Please find attached a copy of the draft Project Description Report and a copy of the formal notice that will appear in newspapers on Monday. You will be receiving this information by courier on Monday, but we wanted to make sure you received the information a little earlier in case you get any questions from the community over the weekend.

In terms of defining the potential benefits to the community, which seemed to be the prominent question you expect to receive from community members, one possible response could be that Samsung and Six Nations have both been working hard on developing a strong relationship over the past year. The planning of the project is in a very early stage, and throughout the planning process, Samsung and Six Nations will continue to work together and share information and ideas regarding these potential benefits. Some very good and exciting concepts are being discussed and considered at the moment, and there's always room for more ideas. Both parties acknowledge that there is still work to do and discussions to come related to potential benefits and/or accommodation.

On another note, we wanted to give you a courtesy heads-up that since our meeting earlier this week, Samsung has been directed by the provincial government to contact the Confederacy and provide them with project information, which will consist of a copy of the Project Description Report and attached notice.

Please don't hesitate to contact me should you have any questions,

Kind regards,
Kara

Kara Hearne, B.Sc.
Project Manager
Stantec
Suite 1 - 70 Southgate Drive
Guelph ON N1G 4P5
Ph: (519) 836-6050 Ext. 250
Fx: (519) 836-2493
kara.hearne@stantec.com

From: Hagen Lee [mailto:hklee@sai.samsung.com]
Sent: Thursday, June 03, 2010 9:36 AM
To: Matt Jamieson
Cc: Ava Hill; a.rosso@samsung.com; gy.yoo@samsung.com; m.henderson@samsung.com; Hearne, Kara; Prier, Peter; 이정탁; William Montour; Claudine VanEvery-Albert; Wray Maracle
Subject: RE: Samsung AD copy

Matt,

As per our discussions yesterday morning, I would suggest a FAQ list with answers. We are willing to do our best to help you create this document.



Hagen Lee
Manager, Business Development &
Government Relations
T: 905.817.6496
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C: 646.354.0797 (US)
E: hklee@sai.samsung.com

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From: Matt Jamieson [mailto:MattJamieson@sixnations.ca]
Sent: Thursday, June 03, 2010 9:27 AM
To: Hagen Lee
Cc: Ava Hill; a.rosso@samsung.com; gy.yoo@samsung.com; m.henderson@samsung.com; Hearne, Kara; Prier, Peter; 이정탁; William Montour; Claudine VanEvery-Albert; Wray Maracle
Subject: Samsung AD copy

Hagen, my comments are:

1. Community members and/or newspapers will be contacting us when this goes out because of our MOU;
2. Most certainly we will be asked what our involvement has been in this project;
 - a. Since we have no involvement what answers do we provide to ensure we are not embarrassed?

Thanks

From: Hagen Lee [mailto:hklee@sai.samsung.com]
Sent: June 2, 2010 1:16 PM
To: Matt Jamieson
Cc: Ava Hill; a.rosso@samsung.com; gy.yoo@samsung.com; m.henderson@samsung.com; Hearne, Kara; Prier, Peter; 이정탁
Subject: AD copy

Matt,

We appreciate the council and Chief Montour's visit to our office.

As per our discussions this morning, we will try to communicate more often and before key announcements with Six Nations.

we will be introducing our wind and solar projects in Haldimand County to the local community through Dunnville Chronicle.

I think it is scheduled to go out end of this week.

The point of the ad is to gently introduce the project before official NOC (Notice Of Commencement).

We are doing this in different locations for other projects as well.

Please find a copy of the ad attached.

Hagen Lee



Renewable Energy Inc.

Manager, Business Development &
Government Relations
T: 905.817.6496
C: 416.450.0351 (Canada)
C: 646.354.0797 (US)
E: hklee@sai.samsung.com

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Stantec Consulting Ltd.
Suite 1 - 70 Southgate Drive
Guelph ON N1G 4P5
Tel: (519) 836-6050
Fax: (519) 836-2493

Stantec

June 4, 2010
File: 160960577 / 161010624

Six Nations of the Grand River
1695 Chiefswood Road, PO Box 5000
Ohsweken, ON N0A 1M0

Attention Chief William K. Montour:

**Reference: Grand Renewable Energy Park
Draft Project Description and Notice to Engage/Public Open House**

Dear Chief Montour:

On behalf of Samsung Renewable Energy Inc. (Samsung), please find enclosed the Draft Project Description and Notice to Engage/Public Open House for the proposed Grand Renewable Energy Park to be located within Haldimand County, Ontario. If approved, the wind aspect of the Project would have a nameplate capacity of 140 MW and consist of approximately 63 wind turbines (depending upon the turbine make and model). The solar aspect of the Project would have a nameplate capacity of 100 MW and consist of approximately 700 acres of land. Both aspects of the Project would also include electrical collection lines, a 30 km transmission line, substation, and other ancillary facilities such as access roads.

The Draft Project Description Report provides a summary of the Project as required by Ontario Regulation 359/09 - Renewable Energy Approvals under Part V.0.1 of the Act of the *Environmental Protection Act* ("the Regulation").

The Notice to Engage/Public Open House will be published in local newspapers within Haldimand County the week of June 7th. Please let us know if you would also like a copy of the Notice to be published in a newspaper within your community.

In the event that you have any questions or concerns, please do not hesitate to contact Kara Hearne at Stantec via phone (519-836-6050) or email (kara.hearne@stantec.com). We look forward to working with you throughout the development of this renewable energy initiative.

Sincerely,

STANTEC CONSULTING LTD.

Rob Nadolny
Senior Project Manager
Tel: (519) 836-6050
Fax: (519) 836-2493
Rob.nadolny@stantec.com

Attachment: Draft Project Description and Notice to Engage/Public Open House

CC. Adam Rosso, Samsung Renewable Energy Inc.
Matt Jamieson, Six Nations of the Grand River (Economic Development)



Stantec Consulting Ltd.
Suite 1 - 70 Southgate Drive
Guelph ON N1G 4P5
Tel: (519) 836-6050
Fax: (519) 836-2493

Stantec

June 24, 2010
File: 160960577 / 161010624

Six Nations of the Grand River
1695 Chiefswood Road, PO Box 5000
Ohsweken, ON N0A 1M0

Attention Chief William K. Montour:

**Reference: Grand Renewable Energy Park
Draft Project Description – Version 2**

Dear Chief Montour:

On behalf of Samsung Renewable Energy Inc. (Samsung), please find enclosed the Draft Project Description – Version 2 for the proposed Grand Renewable Energy Park to be located within Haldimand County, Ontario. Draft Project Description Report - Version 2 has been updated to include additional information related to Project setbacks and the identification of potential environmental effects.

If approved, the wind aspect of the Project would have a nameplate capacity of 140 MW and consist of approximately 63 wind turbines (depending upon the turbine make and model). The solar aspect of the Project would have a nameplate capacity of 100 MW and consist of approximately 700 acres of land. Both aspects of the Project would also include electrical collection lines, a 30 km transmission line, substation, and other ancillary facilities such as access roads.

In the event that you have any questions or concerns, please do not hesitate to contact Kara Hearne at Stantec via phone (519-836-6050) or email (kara.hearne@stantec.com). We look forward to working with you throughout the development of this renewable energy initiative.

Sincerely,

STANTEC CONSULTING LTD.

Rob Nadolny
Senior Project Manager
Tel: (519) 836-6050
Fax: (519) 836-2493
Rob.nadolny@stantec.com

Attachment: Draft Project Description – Version 2

CC. Adam Rosso, Samsung Renewable Energy Inc.
Matt Jamieson, Six Nations of the Grand River (Economic Development)

Friedl, Susanne

Subject: FW: Six Nations follow up

From: Matt Jamieson

Sent: June 28, 2010 5:03 PM

To: 'gy.yoo@samsung.com'; 'hkle@sai.samsung.com'

Cc: William Montour; Claudine VanEvery-Albert; Ava Hill; 'jpr@firstcanadianpil.com'; 'jdd@firstcanadianpil.com'

Subject: Re: Six Nations MOU follow up

Micheal, I would like to confirm the meeting for 9:30am on July 5th. As it turns out the 5th is the best date for Chief Montour to attend.

I will distribute an agenda to all parties by the end of business tomorrow.

For the moment I am planning the meeting at our Tourism Boardroom.

Please confirm Samsung attendees.

Many thanks,

Matt Jamieson

Director of Economic Development

Six Nations Council

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Friedl, Susanne

From: Hagen Lee <hkle@sai.samsung.com>
Sent: Monday, June 28, 2010 6:29 PM
To: Matt Jamieson; William Montour
Cc: Ava Hill; Claudine VanEvery-Albert; GunYoung Yoo; Adam Rosso; Michael Henderson; leejt@samsung.com; Hearne, Kara; Prier, Peter; danielchoi@samsung.com
Subject: Samsung Letters to Six Nations
Attachments: SixNationsFieldWorkInvite062910.pdf; SixNationsOpenHouseLetter062910.pdf; image001.jpg

Dear Chief Montour,

Please find attached letters address to you on behalf of Samsung.
(One letter regarding Six Nations Community Info Session, another letter inviting up to two members of Six Nations to join the field study crew)

The originals will arrive later via ground mail.

Thank you.



Hagen Lee
Manager, Business Development &
Government Relations
T: 905.817.6496
C: 416.450.0351 (Canada)
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Friedl, Susanne

From: Hagen Lee <hklee@sai.samsung.com>
Sent: Monday, June 28, 2010 6:48 PM
To: Matt Jamieson; William Montour
Cc: Ava Hill; Claudine VanEvery-Albert; GunYoung Yoo; Adam Rosso; Michael Henderson; leejt@samsung.com; Hearne, Kara; Prier, Peter; danielchoi@samsung.com
Subject: RE: Samsung Letters to Six Nations
Attachments: 60960577_NTE_POH_Notice_20100601_CEW.pdf; image001.jpg

Notice to Engage and Public Open House Notice attached as per previous email and letters.
Thank you.



Hagen Lee
Manager, Business Development &
Government Relations
T: 905.817.6496
C: 416.450.0351 (Canada)
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E: hklee@sai.samsung.com

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From: Hagen Lee
Sent: Monday, June 28, 2010 6:19 PM
To: 'Matt Jamieson'; 'William Montour'
Cc: 'Ava Hill'; 'Claudine VanEvery-Albert'; 'GunYoung Yoo'; 'Adam Rosso'; 'Michael Henderson'; '???' (leejt@samsung.com); 'Hearne, Kara'; 'Prier, Peter'; '???' (danielchoi@samsung.com)
Subject: Samsung Letters to Six Nations

Dear Chief Montour,

Please find attached letters address to you on behalf of Samsung.
(One letter regarding Six Nations Community Info Session, another letter inviting up to two members of Six Nations to join the field study crew)

The originals will arrive later via ground mail.
Thank you.



Hagen Lee
Manager, Business Development &
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Friedl, Susanne

From: William Montour [mailto:wkmontour@rogers.com]

Sent: Thursday, July 01, 2010 6:06 PM

To: Hagen Lee

Cc: cvanevery-albert@sixnations.ca; mattjamieson@sixnations.ca; avahill@sixnations.ca

Subject:

Based on your request for a community information session prior to July 7, I would like to further discuss your offer to provide/hold a community information session at our upcoming meeting on July 5th during which we would expect to learn more information on Samsung's grand renewable energy park. By saying this, we are not saying no to the information session but we are saying lets discuss , either way the community presentation on July 7th is not possible due to the lack of time to promote the session itself and further hydro one is holding an information session on transmission line clearing on this night. Hope to see you on Monday.

Chief William Montour
Six Nations of the Grand River

Friedl, Susanne

Subject: Presentation
Attachments: GREP 6 nations 2010.7.5.ppt; image001.jpg

From: Adam Rosso [mailto:a.rosso@samsungrenewableenergy.ca]
Sent: Monday, July 05, 2010 3:09 PM
To: Matt Jamieson (mattjamieson@sixnations.ca)
Cc: 이혜근 (hagen.lee@samsung.com); Hearne, Kara
Subject: Presentation

Hello Matt;

Good talks today. I've attached the presentation we did for our group today. Hope more fruitful discussions will follow.

Thanks again;



Renewable Energy Inc.

Adam Rosso, P.Eng., M.Sc.
Manager, Business Development
C: 416.389.8942
T: 905.285.1872
E: a.rosso@samsungrenewableenergy.ca

Transmittal



Stantec

Stantec Consulting Ltd.
Suite 1 - 70 Southgate Drive
Guelph ON N1G 4P5
Tel: (519) 836-6050
Fax: (519) 836-2493

To:	Joanne Thomas	From:	Kara Hearne
Company:	Six Nations of the Grand River	<input type="checkbox"/>	For Your Information
		<input type="checkbox"/>	For Your Approval
Address:	2676 4th Line Road	<input type="checkbox"/>	For Your Review
	Ohswegen Ontario	<input type="checkbox"/>	As Requested
	N0A 1M0		

Phone: 1-519-445-2563

Date: July 13, 2010

File: 160960577 / 161010624

Delivery: Courier

Reference: July 8, 2010 Public Open House Display Boards

Hi Joanne,

As requested, please find enclosed a CD of the display boards presented at the July 8, 2010 Public Open House for the Grand Renewable Energy Park.

STANTEC CONSULTING LTD.

Kara Hearne, B.Sc.
Project Manager
Tel: (519) 836-6050
Fax: (519) 836-2493
kara.hearne@stantec.com

One Team. Infinite Solutions.



Stantec

CONTACT RECORD

NAME(S):	<u>Joanne Thomas</u> <u>Land Use Officer</u>	PROJECT NO.:	<u>160960577 / 161010624</u>
TELEPHONE:	<u>(519) 445-2563</u>	REPRESENTING:	<u>Six Nations Elected Council</u>
RE:	<u>Six Nations participation in field work</u>	DATE/TIME:	<u>August 23, 2010 / 3:00pm</u>
		RECORDED BY:	<u>Kara Hearne</u>

CALL RECEIVED

CALL PLACED

MEETING

NOTES:

- Called to ask Joanne about community members participating in field work. I told her that we had people completing the natural heritage field work now, and that if there are students that want to participate, summer vacation is ending soon so we should get them out in the field.
- Joanne said that she would have to ask Paul General about how to do this. She will talk to him and call me back tomorrow morning.



Stantec

CONTACT RECORD

NAME(S):	Joanne Thomas Land Use Officer	PROJECT NO.:	160960577 / 161010624
TELEPHONE:	(519) 445-2563	REPRESENTING:	Six Nations Elected Council
RE:	Six Nations participation in field work, archaeological monitor, and meeting with technical staff	DATE/TIME:	August 25, 2010 / 11:30pm
		RECORDED BY:	Kara Hearne

CALL RECEIVED

CALL PLACED

MEETING

NOTES:

COMMUNITY PARTICIPATION IN FIELD PROGRAMS

- Following up with Joanne about community members participating in field work. Joanne has discussed this with Paul General:
 - Elected Council cannot hire people to do this kind of work, and invoice Stantec or Samsung at a later date. Their contingency fund doesn't accommodate this.
 - They aren't well set up to be able to take advantage of this opportunity. They are thankful for the offer, but don't have the resources to know who in the community would want to participate.
 - We agreed that Samsung would proceed as though there will be no participation by Six Nations, but that if they find people, and there is still field work ongoing, and we can get organized in time, then we'll reexamine the opportunity.

ARCHAEOLOGICAL MONITOR

- Joanne asked for a week to a week and a half's notice prior to the archaeology starting. She requested that the archaeologist call her directly to notify her and make arrangements.

MEETING WITH TECHNICAL STAFF

- I mentioned that she and I had briefly discussed a meeting between technical staff when we met at the Open House.
- I explained that there is a new environmental assessment process for renewable energy projects in the province. Therefore, the information that we'll be requesting, and the reports that will be sent to them for review, will be different from ones that they've seen before for these types of



Stantec

CONTACT RECORD

projects. It may be useful to have technical staff meet to explain the new process, and share information. If Joanne can provide a couple possible dates, I can coordinate here to make sure the right people are available.

- Joanne will set up the meeting on her end, and get in touch with me via email.

Meeting Notes



Stantec

Grand Renewable Energy Park Renewable Energy Approval Technical Meeting

FILE 161010646/161010624

Date/Time: September 10, 2010 / 2:00 PM
Place: Six Nations of the Grand River, Tourism Boardroom
Attendees: Six Nations of the Grand River (Six Nations) – Joanne Thomas, Phil Monture, Amy Lickers, Lonny Bomberry
Samsung – Marnie Dawson
Stantec –Kara Hearne, Mark Kozak, Val Wyatt, Mark Pomeroy
Absent: Six Nations – Paul General
Distribution: Samsung, Stantec

Renewable Energy Approval (REA) Overview

Stantec gave a presentation that provided an overview of the REA process. Each attendee was given a hard copy of the presentation.

Stantec explained that a new regulation had come out in fall 2009. A copy of O. Reg. 359/09 was provided to Six Nations. Stantec explained that the report structure will likely be different from most reports they have reviewed before. A list of the reports that will be prepared for the REA application for the GREP was provided from Table 1 of O. Reg. 359/09.

Project Overview

Stantec provided study area maps for the project, showing the wind turbine and solar siting area, and the transmission line siting area. A high level overview of the project was provided by Samsung. A hard copy of the Project Description Report (version 2) was provided to each attendee.

REA Requirements for Aboriginal Engagement

Stantec provided an overview of the regulatory requirements that Samsung must fulfill regarding the engagement of aboriginal communities. The relevant excerpt from O. Reg. 359/09 was provided to each attendee. The overview included the formal information request that will be sent to Six Nations, and how feedback from the community will be incorporated into the impact assessment for the GREP. Stantec explained that the feedback from Six Nations will focus required reports prepared specifically for Six Nations.

Samsung and Stantec will be sending a letter in the near future with this formal request required by O. Reg. 359/09.

Discussion Regarding Potential Effects on Aboriginal or Treaty Rights

It was acknowledged by Six Nations and Samsung that it was unfortunate that Paul General, Six Nations Wildlife Officer, could not attend the meeting to provide some preliminary information regarding information that should be considered in preparing the REA reports.

Six Nations was aware of a lot of deer hunting in the area that should be considered.

Engaging the Community

Stantec asked about methods for engaging the general community in the project, and if a Community Information Session be useful.

Six Nations responded that they were unaware of an effective method for getting the community involved. It is unlikely that many people would come to a Community Information Session. Notices can be put in people's mailboxes, but it has not been an effective method to inform people.

Stantec asked if there were community newspapers that could be used for publishing notices and/or Project updates. Six Nations responded that there are two community newspapers that could be used. We should contact Karen - Best Public Relations (519) 445-2201 and she will provide us with the information needed for the community newspapers

Six Nations noted that reports should be made available at the EcoCentre. Samsung and Stantec said that this would be done.

Questions from Six Nations

Can studies be done after, or do they have to be done before submission (referring to archaeology in particular)?

Samsung and Stantec explained that the intention of the REA process is that all studies will be completed prior to submission. However, since it's a new process, the government has provided an exemption for a selection of projects from the requirement to complete the Stage 2 archaeological assessment prior to filing the application. The GREP is not included on the exemption list, and the Stage 2 archaeology will be conducted prior to filing the application. In fact, this field work has already started, and everyone was aware that the Six Nations archaeological monitor is on-site.

Are bats included in the studies?

Stantec noted that bat surveys have already been completed for the GREP, and results will be included in the REA application. However, Stantec noted that the Ministry of Natural Resources (MNR) has changed their guidelines regarding requirements for pre-construction bat surveys.

Is Samsung considering the Bald Eagles along the shoreline in the studies?

Stantec responded that yes, they are well aware of the Bald Eagles in the area, this topic was also mentioned several times by the public at our Public Open House. This species will be considered in the reports.

Stantec

September 10, 2010 / 2:00 PM
Grand Renewable Energy Park
Renewable Energy Approval Technical Meeting
Page 3 of 3

How many acres of land will be used for the solar farm? Where is it located?

Samsung responded that approximately 900 acres of land would be used; both ORC and private lands.

ACTION: *Samsung will provide Six Nations with the Lot and Concession of the preliminary solar site.*

How long until the location for the wind farm is determined?

Samsung replied that they're still talking to landowners and ORC.

Next Steps

Stantec and Samsung will send a letter formally requesting the required feedback from Six Nations.

The meeting adjourned at 3:00 PM.

The foregoing is considered to be a true and accurate record of all items discussed. If any discrepancies or inconsistencies are noted, please contact the writer immediately.

STANTEC CONSULTING LTD.

Kara Hearne, B.Sc.
Project Manager
kara.hearne@stantec.com



Stantec

CONTACT RECORD

NAME(S):	Joanne Thomas Land Use Officer	PROJECT NO.:	161010646 / 161010624
TELEPHONE:	(519) 445-2563	REPRESENTING:	Six Nations Elected Council
RE:	Follow up on archaeological monitor logistics and GREP update call	DATE/TIME:	Sep 27, 2010 / 2:00pm
		RECORDED BY:	Kara Hearne

CALL RECEIVED

CALL PLACED

MEETING

NOTES:

- Called to follow up on the logistics for the archaeological monitor – invoicing process with Progressive Management.
- Called to let Joanne know that everything has been taken care of; I have spoken with Progressive Management and they're set up, the monitor has been paid.
- Joanne thanked me for letting her know.
- Joanne asked me how the project was going. I told her it was going well, we're busy and working on the field studies. I reminded her that we are preparing the letter we talked about at the meeting; the formal request for information that is required under the REA process.
- I asked Joanne if she had any questions regarding the technical meeting we had on September 10. I told her we recognize that we provided them with a lot of information about the REA process and the project, and to give me a call if she has any questions as they're going through the material.
- She has not had the chance to go through the information yet, but will definitely give me a call if there are any questions.
- Joanne asked me if we had provided the Lot/Concession information for the solar lands to Phil Monture yet. I said no, it is on our list as an action item, and we will certainly be doing that as soon as we can. Samsung is still negotiating land leases and the location of the lands that will be used for solar aren't final yet.



Stantec

Stantec Consulting Ltd.
Suite 1 - 70 Southgate Drive
Guelph ON N1G 4P5
Tel: (519) 836-6050
Fax: (519) 836-2493

October 5, 2010
File: 161010646/161010624

Six Nations of the Grand River
2498 Chiefswood Road
Ohsweken, ON N0A 1M0

Attention: Joanne Thomas, Land Use Officer

**Reference: Grand Renewable Energy Park
Renewable Energy Approval – Information Request**

Dear Ms. Thomas,

On behalf of Samsung Renewable Energy Inc. (Samsung), I'd like to thank you and the other representatives of the Six Nations of the Grand River (Six Nations) for taking the time to meet with representatives from Samsung and Stantec Consulting Ltd. (Stantec) in an information sharing session on September 10, 2010 regarding the Grand Renewable Energy Park (the Project).

We provided an overview of the Renewable Energy Approval (REA) process, as outlined in Ontario Regulation 359/09 - Renewable Energy Approvals under Part V.0.1 of the Act of the *Environmental Protection Act* (O.Reg 359/09)). The discussion included an overview of the activities that Samsung is required to complete as part of the REA process. Samsung recognizes that the REA process represents the minimum basic regulatory requirements, and is a small component of the ongoing meaningful engagement between Six Nations and Samsung.

As outlined in subsection 17.1.4 of the O.Reg 359/09, we would like to request that you provide, in writing, any information that, in your community's opinion, should be considered in preparing the REA documents for the Project, and in particular, any information your community may have about any adverse impacts the Project may have on constitutionally protected aboriginal or treaty rights and any measures for mitigating those adverse impacts.

In accordance with the O.Reg 359/09, the information provided by your community in your written response will guide the preparation of a summary document that is specific to your community's interests in the Project. This document will be made available to your community prior to the public review period of the draft REA documents that will occur a minimum of 60 days prior to the final Public Open House for the Project.

Samsung and Stantec will communicate with you about any potential effects to your community's interests (e.g. traditional fishing and hunting areas), and about measures for mitigating these potential effects, including any measures identified by your community.

To date we have provided your community with the following information regarding the Project:

- Notice of Proposal to Engage in a Renewable Energy Project and Notice of Public Open House
- Project Description Report (version 1)
- Project Description Report (version 2)
- Display boards presented at the Public Open House on July 8, 2010
- Updated aerial photography prints of the Project study area

October 5, 2010


Page 2 of 2

We sincerely hope that this information will provide the project background you may need to help identify for us the information we have requested. However, should you require additional information about the Project, please let us know.

We look forward to continuing to work with you throughout the development of this renewable energy initiative.

Sincerely,

STANTEC CONSULTING LTD.



Kara Hearne

Environmental Planner

Tel: (519) 836-6050

Fax: (519) 836-2493

kara.hearne@stantec.com

cc. Chief William K. Montour, Six Nations of the Grand River
Matt Jamieson, Six Nations of the Grand River (Economic Development)
Amy Lickers, Six Nations of the Grand River (Economic Development)
Lonny Bomberry, Six Nations of the Grand River (Lands and Resources)
Paul General Six Nations of the Grand River (Lands and Resources)
Marnie Dawson, Samsung Renewable Energy Inc.
Hagen Lee, Samsung Renewable Energy Inc.
Adam Rosso, Samsung Renewable Energy Inc.
Rob Nadolny, Stantec Consulting Ltd.



Administration
519-445-2201
(f) 519-445-4208

October 12, 2010

RECEIVED
OCT 19 2010

Economic Development
(519) 753-1950
(f) 758-0768

Stantec Consulting Ltd.
Suite 1 – 70 Southgate Drive
Guelph, ON N1G 4P5

Attention: Kara Hearne, Environmental Planner

Health Services
445-2418
(f) 445-0368

**Re: Samsung/ Grand Renewable Energy Park (your file
161010646/161010624)**

Housing
445-2235
(f) 445-2778

Dear Ms. Hearne:

Human Resources
445-2223
(f) 445-2266

Thank you for your letter dated October 5, 2010 regarding the Samsung Renewable Energy Park. Six Nations Elected Council staff members are currently reviewing the contents of your letter and will respond shortly.

Lands/Membership
445-4613
(f) 445-2778

In the meantime, I am seeking clarification on an important matter that relates to Stantec Consulting Ltd. (Stantec) apparent reporting role on the discussions occurring between Samsung C&T Corp (Samsung) and Six Nations of the Grand River.

Lands & Resources
519-753-0665
(f) 519-753-3449

At the opening of the July 5, 2010 meeting held at Six Nations I clearly declared that all discussions that have occurred, and were about to occur, did not constitute consultation in any way. I went on to further state that any discussions were merely information gathering sessions to allow for meaningful and informed consultation in the future.

Parks & Recreation
445-4311
(f) 445-4401

Stantec was present at the July 5th meeting and appeared to be functioning in a reporting capacity. Therefore, I would like written confirmation from Stantec that my declaration was accurately captured in the record. Accordingly, I am requesting copies of all meeting minutes prepared by Stantec and further advise that should the minutes in question fail to accurately record my declaration, then Six Nations of the Grand River will hold Stantec to account.

Public Works
445-4242
(f) 445-4763

Social Services
445-0232
(f) 445-1783

Further it is Six Nations position that the communications, records and correspondence that are part of these discussions are not records of “consultations” and shall not be part of any communication by either Party to any third party as evidence of “consultation” without consent.

Welfare
445-2084
(f) 445-0133



Administration
519-445-2201
(f) 519-445-4208

October 12, 2010
Page 2 of 2

Economic Development
(519) 753-1950
(f) 758-0768

If you have any questions, please contact Matt Jamieson, Director of Economic Development at (519) 753 1950.

Health Services
445-2418
(f) 445-0368

I trust you understand my position on this important matter.

Housing
445-2235
(f) 445-2778

Sincerely,

Human Resources
445-2223
(f) 445-2266

Chief William K. Montour
Six Nations of the Grand River

Lands/Membership
445-4613
(f) 445-2778

cc: Hagen Lee, Samsung
GY Yoo, Samsung
Matt Jamieson, Six Nations
Lonny Bomberry, Six Nations
Joanne Thomas, Six Nations
Paul Robinson, First Canadian PIL

Lands & Resources
519-753-0665
(f) 519-753-3449

Parks & Recreation
445-4311
(f) 445-4401

Public Works
445-4242
(f) 445-4763

Social Services
445-0232
(f) 445-1783

Welfare
445-2084
(f) 445-0133

Friedl, Susanne

From: Joanne Thomas <jthomas@sixnations.ca>
Sent: Thursday, November 18, 2010 3:44 PM
To: Hearne, Kara
Subject: RE: Info

Categories: Red Category

Hi Kara,

I was asked to contact you in regards to the electronic mapping that SN has asked for. Also, do you have the lot, concession of where your project is located.

This is a follow-up of the last CAP meeting.

Thanks,

JT

Joanne Thomas, BA Hon.

Land Use Officer

Six Nations Lands and Resources

P ~ 1-519-445-2563

F ~ 1-519-445-0242

jthomas@sixnations.ca

This information is directed in confidence solely to the person named above and may not otherwise be distributed, copied or disclosed. Therefore, this information should be considered strictly confidential. If you received this e-mail in error, please advise me (by return e-mail or otherwise) immediately.

Friedl, Susanne

From: Hearne, Kara
Sent: Monday, November 22, 2010 1:21 PM
To: 'Joanne Thomas'
Subject: RE: Info

Hi Joanne,

Sorry it took me so long to get back to you. I hope you're doing well.

Can you please clarify the mapping that's being requested? The solar site, the wind sites, or both? And are you looking for mapping of the MEI/ORC lands only, private lands, or both?

I just want to make sure that I'm clear on the request.

Thanks!
Kara

From: Joanne Thomas [mailto:jthomas@sixnations.ca]
Sent: Thursday, November 18, 2010 3:44 PM
To: Hearne, Kara
Subject: RE: Info

Hi Kara,

I was asked to contact you in regards to the electronic mapping that SN has asked for. Also, do you have the lot, concession of where your project is located.

This is a follow-up of the last CAP meeting.

Thanks,

JT

Joanne Thomas, BA Hon.

Land Use Officer
Six Nations Lands and Resources
P ~ 1-519-445-2563
F ~ 1-519-445-0242
jthomas@sixnations.ca

This information is directed in confidence solely to the person named above and may not otherwise be distributed, copied or disclosed. Therefore, this information should be considered strictly confidential. If you received this e-mail in error, please advise me (by return e-mail or otherwise) immediately.



Stantec Consulting Ltd.
Suite 1 - 70 Southgate Drive
Guelph ON N1G 4P5
Tel: (519) 836-6050
Fax: (519) 836-2493

Stantec

February 7, 2011
File: 161010646/161010624

Six Nations of the Grand River
2498 Chiefswood Road
Ohsweken, ON N0A 1M0

**Reference: Grand Renewable Energy Park
Renewable Energy Approval – Project Update and Information Request**

Dear Ms. Thomas:

Samsung Renewable Energy Inc. (Samsung) and Pattern Energy (Pattern) are proposing to develop the Grand Renewable Energy Park (GREP), a combined wind and solar generation project, within Haldimand County, Ontario. If approved, the wind portion of the GREP would have a nameplate capacity of 140 MW and consist of approximately 69 wind turbines. The solar portion of the GREP would have a nameplate capacity of 100 MW and utilize approximately 900 acres of land. Both aspects of the GREP would also include electrical collection lines, a transmission line, substation, and other ancillary facilities such as access roads.

The GREP is subject to the Renewable Energy Approval (REA) process, as outlined in Ontario Regulation 359/09 - Renewable Energy Approvals under Part V.0.1 of the Act of the *Environmental Protection Act* (O.Reg 359/09). Stantec Consulting Ltd. (Stantec) is the primary consultant responsible for preparing the REA application for the GREP.

Project Update

Project work throughout Summer and Fall of 2010 was primarily focused on preliminary engineering work, noise assessments, landowner agreements, natural heritage background and field studies, and dialogue with the local residents, municipality, and aboriginal communities. There was also an Open House held on July 8, 2010, which you attended.

We have now completed terrestrial and aquatic field studies for the GREP, and are in the process of analyzing the results of these surveys. We have also completed much of the Stage 2 Archaeological Assessment with assistance from Six Nations monitors, and will be continuing this work when the weather permits. Currently, we are beginning the process of drafting reports, and beginning work on the assessment of potential impacts and mitigation measures for environmental features that have been identified. Please find enclosed a copy of our first Project newsletter, issued in December 2010.

The preliminary wind turbine layout for the GREP, which includes 69 wind turbines, has recently been released. We welcome your input on the layout. The map has been uploaded to the project website (www.samsungrenewableenergy.ca), and is also enclosed for your reference. This preliminary wind turbine layout has also recently been submitted to the Ministry of the Environment.

February 7, 2011
Ms. Joanne Thomas
Page 2 of 3

**Reference: Grand Renewable Energy Park
Renewable Energy Approval – Project Update and Information Request**

Information Request

We recognize that construction and operation of the GREP has the potential to affect the constitutionally protected aboriginal or treaty rights of your community. However, we do not presently have information from your community regarding how these rights may be affected by project activities. We would welcome the opportunity to understand how aboriginal rights are exercised in the project area (e.g. areas used for traditional activities by your community) so that we may work together and share information on how best to mitigate any potential impacts that may be identified.

As originally requested in a previous letter addressed to you dated October 5, 2010, and outlined in subsection 17.1.4 of O.Reg. 359/09, we would like to request that you provide, in writing, any information that, in your community's opinion, should be considered in preparing the REA reports for the project, and in particular, any information your community may have about any adverse impacts the GREP may have on constitutionally protected aboriginal or treaty rights and any measures for mitigating those adverse impacts.

To date we have provided your community with the following information regarding the Project:

- Notice of Proposal to Engage in a Renewable Energy Project and Notice of Public Open House
- Project Description Report (version 1)
- Project Description Report (version 2)
- Display boards presented at the Public Open House on July 8, 2010

We sincerely hope that this information will provide the project background you may need to help identify for us the information we have requested. However, should you require additional information about the GREP, please let us know.

Mapping Request from Six Nations

Six Nations has requested mapping and Lot/Concession information for the GREP. At the time of the initial request (September 2010), Samsung was still negotiating land leases and the location of the lands to be used for solar had not yet been finalized.

Samsung is happy to provide Six Nations with mapping for the GREP, however we ask that you clarify exactly what type of mapping and Lot/Concession information you need so we can ensure we send you the appropriate information. For example, do you need mapping of the solar site, the wind sites, or both? Our understanding from the meeting in September was that the request related to the solar lands, however we would like to clarify if you are also interested in the proposed lands for wind turbines. In addition, are you looking for mapping of the MEI lands proposed for use only, private lands, or both? And are you asking for lands that Project components have been sited on, or all optioned lands with the potential for being used?

Again, we simply want to make sure that we clearly understand what type of mapping you require so we can ensure we send the appropriate information.

February 7, 2011
Ms. Joanne Thomas
Page 3 of 3

**Reference: Grand Renewable Energy Park
Renewable Energy Approval – Project Update and Information Request**

Closure

In the event that you have any questions or concerns, please do not hesitate to contact Kara Hearne at Stantec via phone (519-836-6050) or email (kara.hearne@stantec.com). We look forward to working with you throughout the development of this renewable energy initiative.

Sincerely,

STANTEC CONSULTING LTD.



Rob Nadolny
Senior Project Manager
Tel: (519) 836-6050
Fax: (519) 836-2493
rob.nadolny@stantec.com

Attachments: GREP Newsletter – Volume 1 (December 2010)
Preliminary Wind Turbine Layout Map

cc. Chief William K. Montour, Six Nations of the Grand River
Lonny Bomberry, Six Nations of the Grand River (Lands and Resources)
Kara Hearne, Stantec
Adam Rosso, Samsung
Hagen Lee, Samsung
Marnie Dawson, Samsung
GY Yoo, Samsung



www.sixnations.ca

Administration

519-445-2201
(f) 519-445-4208

June 7, 2011

Economic Development

(519) 753-1950
(f) 758-0768

Mr. Cheol Woo Lee
Senior Executive Vice President
Samsung C&T Corporation
55 Standish Court
Mississauga, ON L5R 4B2

Health Services

445-2418
(f) 445-0368

Dear Mr. Lee,

On behalf of Six Nations of the Grand River ("Six Nations"), it was a pleasure to meet with you and your colleagues last Friday. Although our time together was short, it was nevertheless pleasant to discuss opportunities of potential interest to us both.

Housing

445-2235
(f) 445-2778

We note your continued interest in Grand River Energy Park ("GREP"). At the same time, we need to ensure that there is no misunderstanding about the nature of our position in discussions between us. Consequently, I am compelled to reiterate that none of the meetings to date have met Six Nations' requirements for consultation, as set out in our policy statement, "*Land Use Consultation & Accommodation Policy*" that since 2009 has been available on our website, and which we provided to your staff on August 31, 2010. As you no doubt have gathered, Six Nations takes all matters that involve our Traditional Lands seriously, and the proposed GREP projects that are to be located largely within the Haldimand Tract are no exception.

Human Resources

445-2223
(f) 445-2266

Lands/Membership

445-4613
(f) 445-2778

Our time together last Friday was informative, and we hope represented a first step toward a time when Samsung and its partners ("Korean Consortium") and Six Nations may be able to conduct meaningful consultation discussions leading to accommodation. Accordingly, please appreciate that from Six Nations' perspective, the Green Energy Investment Agreement effectively makes the Korean Consortium and the Province of Ontario business partners in a venture that will impact our Traditional Lands. Consequently, Six Nations will need to reach agreement on a number of issues involving both the Korean Consortium and Ontario, in the near future.

Lands & Resources

519-753-0665
(f) 519-753-3449

As I trust you appreciate, we remain open-minded and welcome the efforts that you have expended to commence meaningful business discussions. In the meantime, I look forward to speaking with you again.

Parks & Recreation

445-4311
(f) 445-4401

Yours truly,

Public Works

445-4242
(f) 445-4763

Chief William K. Montour
Six Nations of the Grand River

Social Services

445-0232
(f) 445-1783

cc. The Honourable Dalton McGuinty, Premier of Ontario
The Honourable Christopher Bentley, Ministry of Aboriginal Affairs
The Honourable Bob Chiarelli, Ministry of Infrastructure

Welfare

445-2084
(f) 445-0133



SIX NATIONS LANDS & RESOURCES

P.O. Box 5000
PHONE: 519-753-0665

OHSWEKEN, ONTARIO

CANADA N0A 1M0
FAX: 519-753-3449

June 13, 2011

**Via EMAIL: boardsec@ontarioenergyboard.ca
and RESS**

Ms. Kirsten Walli
Board Secretary
Ontario Energy Board
P.O. Box 2319, 26th Floor
2300 Yonge Street
Toronto, Ontario
M4P 1E4

Dear Ms. Walli:

**Re: Application by Grand Renewable Wind LP for
Leave to Construct Transmission Facilities
(EB-2011-0063)**

This is in response to your letters dated June 7, 2011 and May 18, 2011.

It appears from the May 18 letter that the Board may misunderstand the nature of Six Nations' interests and the reasons for requesting intervenor status. Six Nations Council will not be asking the Board to review "what might broadly be described as "environmental issues" which are covered in the REA process."

As an aside, with respect to the REA process, Six Nations Council understands that the applicant has not yet filed any application to the Minister of the Environment for a Renewable Energy Approval (REA). Further, the applicant has not consulted to date with the Six Nations Council Lands and Resources Office concerning Six Nations' interests relevant to the potential request for a REA.

Six Nations Council on behalf of the Six Nations of the Grand River confirms its request for intervenor status in this proceeding and related funding.

Six Nations' interests in this proceeding include:

- (a) potential adverse effects on Six Nations' treaty rights (Haldimand Treaty and Nanfan Treaty) outside of the Six Nations' reserve lands; and
- (b) potential adverse effects on electrical service capacity and quality to meet current or future needs on the Six Nations reserve territory.

Six Nations Council is aware of the limits of the Board's statutory mandate, as mentioned in the Board's correspondence.

Six Nations Council requests intervenor status so that at the appropriate time, it has a reasonable opportunity to make detailed submissions to the Board with respect to the Board's exercise of its statutory jurisdiction including process issues and appropriate conditions which the Board might attach to a potential decision granting the applicant leave to construct.

Thank you for your consideration on this matter.

Yours truly,

A handwritten signature in blue ink, appearing to read "Lonny Bomberry", is written over a light blue rectangular background.

Lonny Bomberry
Director, Lands & Resources
for the Six Nations Council



Stantec Consulting Ltd.
Suite 1 - 70 Southgate Drive
Guelph ON N1G 4P5
Tel: (519) 836-6050
Fax: (519) 836-2493

Stantec

July 12, 2011
File: 161010646/161010624

Lonny Bomberry, Director, Lands & Resources
Six Nations of the Grand River
2498 Chiefswood Road
Ohsweken, ON N0A 1M0

Dear Mr. Bomberry:

**Reference: Grand Renewable Energy Park
Leave to Construct Application**

Thank you for your letter dated June 13, 2011 to the Ontario Energy Board regarding the Leave to Construct application by Samsung and Pattern for the Grand Renewable Energy Park (GREP). In response to your letter, and the specific paragraph below, we offer the following additional information.

“As an aside, with respect to the REA process, Six Nations Council understands that the applicant has not yet filed any application to the Minister of the Environment for a Renewable Energy Approval (REA). Further, the applicant has not consulted to date with the Six Nations Land and Resources Office concerning Six Nations’ interests relevant to the potential request for a REA.”

Samsung and Pattern have engaged with Six Nations regarding this project (including the transmission line) over an extended period of time. The project team has conducted numerous activities to engage the Six Nations Council, including:

- Written notification to Six Nations of the initiation of the REA process prior to formal publication of the Notice of a Proposal to Engage in a Renewable Energy Project (June 2, 2010);
- Providing the draft Project Description Report (versions 1 and 2) to Six Nations (June 4 and 24, 2010);
- Invitation to Six Nations to have community members participate in natural heritage and archaeological field surveys (June 29, 2010);
- Offer to hold a Community Information Session on reserve prior to the first Public Open House (June 29, 2010);
- Meeting with Six Nations (July 5, 2010), including members of the Lands and Resources Office; meeting included a presentation on the GREP providing general project information and an overview of the REA process, and a request for feedback;
- Providing Six Nations Lands and Resources Office with a copy of the display boards presented at the first Public Open House (July 13, 2010);
- Having a Six Nations archaeological monitor present during all Stage 2 archaeological surveys (conducted in Fall 2010 and Spring 2011);
- Meeting with Six Nations Lands and Resources Office (September 10, 2010) to discuss the REA process, REA requirements for aboriginal engagement, potential effects on aboriginal or treaty rights,

July 12, 2011
Mr. Lonny Bomberry
Page 2 of 2

**Reference: Grand Renewable Energy Park
Leave to Construct Application**

methods for engaging the Six Nations community, and to receive comments and feedback from the community.

- Letter to Six Nations Lands and Resources Office (October 5, 2010) with a request as per Ontario Regulation 359/09 that Six Nations provide any information: i) that should be considered in preparing the REA documents, and ii) regarding any adverse impacts the GREP may have on constitutionally protected aboriginal or treaty rights and any measures for mitigating those adverse impacts.
- Letter to Six Nations Lands and Resources Office (February 7, 2011) that included an update on Project activities, a reiteration of the request for information originally sent in the letter dated October 5, 2010, and a preliminary wind turbine layout map.
- Various correspondence via telephone and email with the Lands and Resources Office regarding the above items.

The project team is very interested in working with the Six Nations Council Lands and Resources Office, both in terms of developing mitigation measures for any adverse impacts on Six Nations' aboriginal or treaty rights that have been identified by the community, as well as working together to engage the larger Six Nations community.

The project team has been guided by the Six Nations of the Grand River Land Use Consultation & Accommodation Policy, as well as the requirements outlined for the REA process in Ontario Regulation 359/09, to engage Six Nations in the project. If Six Nations has feedback for the project team regarding how to better work with the Lands and Resources office, we are happy to receive it and to work with Six Nations to refine an approach that is acceptable to all parties. We are available at the convenience of the Six Nations Council Lands and Resources Office, both by telephone as well as in-person meetings, to discuss the project.

Closure

In the event that you have any questions or concerns, please do not hesitate to contact Kara Hearne at Stantec via phone (519-836-6050) or email (kara.hearne@stantec.com). We look forward to working with you throughout the development of this renewable energy initiative.

Sincerely,

STANTEC CONSULTING LTD.



Peter Prier
Senior Principal
Tel: (519) 836-6050
Fax: (519) 836-2493
peter.prier@stantec.com

cc. Chief William K. Montour, Six Nations of the Grand River
Joanne Thomas, Six Nations of the Grand River (Lands and Resources)
Kirsten Walli, Ontario Energy Board
Kara Hearne, Stantec

Adam Rosso, Samsung
Hagen Lee, Samsung
Marnie Dawson, Samsung
GY Yoo, Samsung



Stantec Consulting Ltd.
70 Southgate Drive Suite 1
Guelph ON N1G 4P5
Tel: (519) 836-6050
Fax: (519) 836-2493

Stantec

July 19, 2011
File: 160960577 / 161010624

Six Nations of the Grand River First Nation
1695 Chiefswood Road, P.O. Box 5000
Ohsweken, ON N0A 1M0

Attention: Chief William K. Montour

Reference: Grand Renewable Energy Park – Release of Draft Renewable Energy Approval Reports

Dear Chief Montour:

Samsung C&T (Samsung), Pattern Energy (Pattern), and Korea Power Electric Corporation (KEPCO) (together, these companies referred to herein as “SPK”) are proposing to develop, construct, and operate a wind and solar energy project as part of the Grand Renewable Energy Park (GREP), in Haldimand County. SPK is planning to engage in this renewable energy project in respect of which the issuance of Renewable Energy Approvals (REA) is required. The proposal to engage in the project and the project itself are subject to the provisions of the *Environmental Protection Act (ACT)* Part V.0.1 and Ontario Regulation 359/09 (O. Reg. 359/09).

On behalf of SPK, Stantec is pleased to provide you with a copy of the Draft REA Reports for your review and comment. As required under O. Reg. 359/09 and the Ministry of Natural Resources (MNR) *Approval and Permitting Requirements Document (APRD) for Renewable Energy Projects*, this Draft REA Reports package includes the following draft reports:

- Project Description Report – as outlined in item 10 of Table 1 of O. Reg. 359/09;
- Natural Heritage Assessment Report – as required under sections 24, 25, 26, 27 and 28 of O. Reg. 359/09 and section 6.3 of the MNR’s Requirements Document;
- Construction Plan Report – as outlined in item 1 of Table 1 of O. Reg. 359/09 and section 6.7 of the MNR’s Requirements Document;
- Design and Operations Report – as outlined in item 4 of Table 1 of O. Reg. 359/09 and section 6.6 of the MNR’s Requirements Document;
- Decommissioning Plan Report – as outlined in item 3 of Table 1 of O. Reg. 359/09 and section 6.8 of the MNR’s Requirements Document;
- Environmental Impact Study – as required under section 38 of O. Reg. 359/09;
- Wind Turbine Specifications Report – as outlined in item 13 of Table 1 of O. Reg. 359/09;
- Archaeological and Heritage Reports - as required under sections 19, 20, 21, 22 and 23 of O.Reg. 359/09;
- Water Body and Water Assessment Report - as required under sections 29, 30 and 31 of O. Reg. 359/09. Further information related to potential effects and mitigation measures to water bodies, as required under sections 39, 40, 44, and 45 of O. Reg. 359/09 is provided in the Water Body and Water Assessment Report, Construction Plan Report and Design and Operations Report; and,

July 19, 2011
Attention Chief William K. Montour
Page 2 of 2

Reference: Grand Renewable Energy Park – Release of Draft Renewable Energy Approval Reports

- Project Summary Report – as outlined in section 17. (1)3 of O. Reg. 359/09. The Draft Project Summary Report provides a summary of the potential environmental effects including those which the Project may have on constitutionally protected Aboriginal or treaty rights.

The attached Notice of Public Meeting will be published in local newspapers within Haldimand County the week of July 20th. Please let us know if you would also like a copy of the Notice to be published in a newspaper within your community.

The MOE has identified your community as potentially having constitutionally protected aboriginal or treaty rights that may be adversely impacted by the GREP. However, we do not presently have information from your community regarding how these rights may be affected by project activities. We continue to welcome the opportunity to understand how aboriginal rights are exercised in the project area (e.g. areas used for traditional activities by your community) so that we may work together and share information on how best to mitigate any potential impacts that may be identified.

We would like to request that you provide, in writing, any information that, in your community's opinion, should be considered in preparing the final version of the REA reports for the project, and in particular, any information your community may have about any adverse impacts the GREP may have on constitutionally protected aboriginal or treaty rights and any measures for mitigating those adverse impacts. We respectfully request any information/comments you may have by no later than September 22, 2011 so that the information can be considered during project planning and preparation of the final versions of the REA reports. The project team welcomes comments after this date, however only comments received by September 22, 2011 will be included in the Project's Consultation Report that will be submitted as part of the project's REA application.

We also respectfully request that these reports be made available to your community members. Given the size of the enclosed reports, we have not included an additional hard copy in an effort to conserve paper. However, we would be happy to send additional hard copies or electronic copies if needed; please let us know.

In the event that you have any questions or concerns, please do not hesitate to contact Kara Hearne at Stantec via phone (519-836-6050) or email (kara.hearne@stantec.com). We look forward to working with you throughout the development of this renewable energy initiative.

Sincerely,

STANTEC CONSULTING LTD.



Rob Nadolny
Senior Project Manager
Tel: (519) 836-6050
Fax: (519) 836-2493
Rob.nadolny@stantec.com

cc. Mr. Matt Jamieson, Director, Economic Development, Six Nations of the Grand River First Nation

Attachment: Draft REA Reports package
Notice of Public Meeting



Stantec Consulting Ltd.
70 Southgate Drive Suite 1
Guelph ON N1G 4P5
Tel: (519) 836-6050
Fax: (519) 836-2493

Stantec

July 19, 2011
File: 160960577 / 161010624

Six Nations of the Grand Rover First Nation
2676 4th Line Road, P.O. Box 5000
Ohsweken, ON N0A 1M0

Attention: Ms. Joanne Thomas, Land Use Officer, Lands and Resources

Reference: Grand Renewable Energy Park – Release of Draft Renewable Energy Approval Reports

Dear Ms. Thomas:

Samsung C&T (Samsung), Pattern Energy (Pattern), and Korea Power Electric Corporation (KEPCO) (together, these companies referred to herein as “SPK”) are proposing to develop, construct, and operate a wind and solar energy project as part of the Grand Renewable Energy Park (GREP), in Haldimand County. SPK is planning to engage in this renewable energy project in respect of which the issuance of Renewable Energy Approvals (REA) is required. The proposal to engage in the project and the project itself are subject to the provisions of the *Environmental Protection Act (ACT)* Part V.0.1 and Ontario Regulation 359/09 (O. Reg. 359/09).

On behalf of SPK, Stantec is pleased to provide you with a copy of the Draft REA Reports for your review and comment. As required under O. Reg. 359/09 and the Ministry of Natural Resources (MNR) *Approval and Permitting Requirements Document (APRD) for Renewable Energy Projects*, this Draft REA Reports package includes the following draft reports:

- Project Description Report – as outlined in item 10 of Table 1 of O. Reg. 359/09;
- Natural Heritage Assessment Report – as required under sections 24, 25, 26, 27 and 28 of O. Reg. 359/09 and section 6.3 of the MNR’s Requirements Document;
- Construction Plan Report – as outlined in item 1 of Table 1 of O. Reg. 359/09 and section 6.7 of the MNR’s Requirements Document;
- Design and Operations Report – as outlined in item 4 of Table 1 of O. Reg. 359/09 and section 6.6 of the MNR’s Requirements Document;
- Decommissioning Plan Report – as outlined in item 3 of Table 1 of O. Reg. 359/09 and section 6.8 of the MNR’s Requirements Document;
- Environmental Impact Study – as required under section 38 of O. Reg. 359/09;
- Wind Turbine Specifications Report – as outlined in item 13 of Table 1 of O. Reg. 359/09;
- Archaeological and Heritage Reports - as required under sections 19, 20, 21, 22 and 23 of O.Reg. 359/09;
- Water Body and Water Assessment Report - as required under sections 29, 30 and 31 of O. Reg. 359/09. Further information related to potential effects and mitigation measures to water bodies, as required under sections 39, 40, 44, and 45 of O. Reg. 359/09 is provided in the Water Body and Water Assessment Report, Construction Plan Report and Design and Operations Report; and,
- Project Summary Report – as outlined in section 17. (1)3 of O. Reg. 359/09. The Draft Project Summary Report provides a summary of the potential environmental effects including those which the Project may have on constitutionally protected Aboriginal or treaty rights.

July 19, 2011

Attention: Ms. Joanne Thomas, Land Use Officer, Lands and Resources

Page 2 of 2

Reference: Grand Renewable Energy Park – Release of Draft Renewable Energy Approval Reports

The attached Notice of Public Meeting will be published in local newspapers within Haldimand County the week of July 20th. Please let us know if you would also like a copy of the Notice to be published in a newspaper within your community.

The MOE has identified your community as potentially having constitutionally protected aboriginal or treaty rights that may be adversely impacted by the GREP. However, we do not presently have information from your community regarding how these rights may be affected by project activities. We continue to welcome the opportunity to understand how aboriginal rights are exercised in the project area (e.g. areas used for traditional activities by your community) so that we may work together and share information on how best to mitigate any potential impacts that may be identified.

We would like to request that you provide, in writing, any information that, in your community's opinion, should be considered in preparing the final version of the REA reports for the project, and in particular, any information your community may have about any adverse impacts the GREP may have on constitutionally protected aboriginal or treaty rights and any measures for mitigating those adverse impacts. We respectfully request any information/comments you may have by no later than September 22, 2011 so that the information can be considered during project planning and preparation of the final versions of the REA reports. The project team welcomes comments after this date, however only comments received by September 22, 2011 will be included in the Project's Consultation Report that will be submitted as part of the project's REA application.

We also respectfully request that these reports be made available to your community members. In our meeting on September 10, 2010, it was noted that reports should be sent to the EcoCentre to be made available to the community. Given the size of the enclosed reports, we have not included an additional hard copy in an effort to conserve paper. However, we would be happy to send additional hard copies or electronic copies if needed; please let us know.

In the event that you have any questions or concerns, please do not hesitate to contact Kara Hearne at Stantec via phone (519-836-6050) or email (kara.hearne@stantec.com). We look forward to working with you throughout the development of this renewable energy initiative.

Sincerely,

STANTEC CONSULTING LTD.



Rob Nadolny

Senior Project Manager

Tel: (519) 836-6050

Fax: (519) 836-2493

Rob.nadolny@stantec.com

cc. Chief William K. Montour, Six Nations of the Grand River First Nation
Mr. Lonny Bomberry, Director, Lands and Resources, Six Nations of the Grand River First Nation

Attachment: Draft REA Reports package
Notice of Public Meeting



July 28, 2011

Stantec Consulting Ltd.
Suite 1 – 70 Southdale Drive
Guelph ON N1G 4P5

Attention: Mr. Peter Prier, Senior Principal

Dear Sirs;

Re: Grand Renewable Energy Park – Leave to Construct Application

We are in receipt of your letter of July 12, 2011, although I must say that its contents contradict the minutes of previous meetings that your firm attended with senior staff at Six Nations. Our letter to Kara Hearne of Stantec Consulting Ltd. ("Stantec") dated October 12, 2010 was clear on what we understood to be the state of the consultation process.

Between March 8th and August 31, 2010, representatives from Six Nations met with Samsung on four occasions. Stantec attended three of these meetings, primarily as a non-participating advisor to Samsung. At the July 5th meeting it was observed that Stantec was taking notes, which prompted Chief Montour to ask that copies of minutes taken be provided to Six Nations, indicating clearly that all meetings to date did not constitute the commencement of consultation discussions. At prior and subsequent meetings we insisted the same. Despite assurances that we would be copied, no minutes were ever provided to us, prompting Chief Montour's letter of October 12, 2010 (copy enclosed).

It is worth noting that at the August 31, 2010 meeting at First Canadian's offices in Toronto, representatives attending from Samsung and Stantec were asked if they had seen a copy of Six Nations' document "*Six Nations of the Grand River Land Use Consultation & Accommodation Policy*". The unanimous response was that no-one had previously seen the document, prompting distribution of copies to Samsung's Gy Yoo, Hagen Lee, and Marnie Dawson, and to Kara Hearne of your office. Since the August 31st meeting was the last held with senior representatives of Six Nations, we find surprising the assertion that Stantec's GREP "*project team has been guided by the Six Nations of the Grand River Land Use Consultation and Accommodation Policy*" despite being previously unaware of its existence.

It is Six Nations' position now and has at all times been that the consultation process has not yet commenced. All meetings, regardless of your apparent unwillingness to share minutes with us, have been to discuss in general terms an outline of the GREP project and the framework for consultation. With respect to the former, the only meaningful information

provided to Six Nations during the term of the one-year MOU that expired January 22, 2011 was a PPT presentation made to the public a few days after the July 5th meeting in Ohsweken.

While your July 12th letter does not specifically assert that you have been in consultation discussions with Six Nations, if you are intending to imply that Samsung and Pattern have already engaged in consultation with Six Nations, such a conclusion would be incorrect and a misuse of the term *consultation*, let alone *accommodation*.

Had Stantec or Samsung read the document "*Six Nations of the Grand River Land Use Consultation & Accommodation Policy*" during the past nineteen months, you would have seen that there are a number of guiding principles embodied in the policy that are based on the United Nations Declaration on the Rights of Indigenous Peoples, to which Canada is a signatory. Some of these key provisions include but are not limited to:


- commencing consultation at the onset of a project, prior to decisions being made;
- full disclosure including detailed reports on the project and the property;
- proactive, holistic, and strategic decision-making in support of joint planning;
- decisions to be made by consensus, wherever possible;
- financial resources to support Six Nations for consultation and accommodation;
- accommodation for Six Nations' reasonable concerns prior to commencement;
- jointly accepted dispute resolution process;

In light of the few requirements set out above that are but a sub-set of our policy, it is at best difficult to see how Stantec's efforts were "*guided by the Six Nations of the Grand River Land Use Consultation and Accommodation Policy*". Instead, we are left to conclude that you are mistaken, and to voice our strong objection to the conclusions set out in your letter of July 12th and the interpretation that it is an attempt to re-write history.

In conclusion, upon closer inspection I believe you will find support for our objection to your recent letter, which was copied to the Ontario Energy Board. The fair and appropriate thing to do would be for you to retract your letter and notify the OEB to that effect.

In the meantime, we welcome and encourage you to initiate consultation discussions in accordance with the terms set out in the policy statement titled "*Six Nations of the Grand River Land Use Consultation and Accommodation Policy*". We also ask again that minutes of all previous meetings with Six Nations be provided for our review. Thank you in advance for your co-operation.

Yours truly,



Lonny C. Bomberry
Director, Lands & Resources

cc. Kirsten Walli, Ontario Energy Board
Marnie Dawson, Samsung
Hagen Lee, Samsung
GY Yoo, Samsung
Kara Hearne, Stantec

Friedl, Susanne

From: Hearne, Kara
Sent: Thursday, September 22, 2011 8:35 AM
To: Joanne Thomas (jthomas@sixnations.ca)
Subject: GREP: tonight's open house

Hi Joanne,

It turns out I will be attending tonight's open house at the Cayuga Kinsmen Community Centre (5-8pm), so if you come out just ask for me at the front desk (or search for me in the crowd!). Hope to see you there!

Regards,
Kara

Kara Hearne

Project Manager - Assessment, Permitting & Compliance

Stantec

70 Southgate Drive Suite 1

Guelph ON N1G 4P5

Ph: (519) 836-6050 Ext. 250

Fx: (519) 836-2493

kara.hearne@stantec.com

stantec.com

The content of this email is the confidential property of Stantec and should not be copied, modified, retransmitted, or used for any purpose except with Stantec's written authorization. If you are not the intended recipient, please delete all copies and notify us immediately.

 Please consider the environment before printing this email.

Friedl, Susanne

From: Hearne, Kara
Sent: Friday, September 23, 2011 11:08 AM
To: Joanne Thomas (jthomas@sixnations.ca)
Subject: GREP: open house display boards
Attachments: Samsung - Open House #2 display boards.pdf

Hi Joanne,

It was great to see you again last night, I'm happy you made it out to the open house and we had a chance to talk. For your reference, attached is a pdf of the display panels that we had set up around the room last night.

Have a great weekend,
Kara

Kara Hearne
Project Manager - Assessment, Permitting & Compliance
Stantec
70 Southgate Drive Suite 1
Guelph ON N1G 4P5
Ph: (519) 836-6050 Ext. 250
Fx: (519) 836-2493
kara.hearne@stantec.com
stantec.com

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 Please consider the environment before printing this email.

Appendix H2

Correspondence with the Haudenosaunee Confederacy Council



Stantec Consulting Ltd.
Suite 1 - 70 Southgate Drive
Guelph ON N1G 4P5
Tel: (519) 836-6050
Fax: (519) 836-2493

Stantec

June 7, 2010
File: 160960577 / 161010624

Six Nations of the Grand River Haudenosaunee Confederacy Council
RR #2
Ohsweken, ON N0A 1M0

Attention Chief Allen MacNaughton:

**Reference: Grand Renewable Energy Park
Draft Project Description and Notice to Engage/Public Open House**

Dear Chief MacNaughton:

On behalf of Samsung Renewable Energy Inc. (Samsung), please find enclosed the Draft Project Description and Notice to Engage/Public Open House for the proposed Grand Renewable Energy Park to be located within Haldimand County, Ontario. If approved, the wind aspect of the Project would have a nameplate capacity of 140 MW and consist of approximately 63 wind turbines (depending upon the turbine make and model). The solar aspect of the Project would have a nameplate capacity of 100 MW and consist of approximately 700 acres of land. Both aspects of the Project would also include electrical collection lines, a 30 km transmission line, substation, and other ancillary facilities such as access roads.

The Draft Project Description Report provides a summary of the Project as required by Ontario Regulation 359/09 - Renewable Energy Approvals under Part V.0.1 of the Act of the *Environmental Protection Act* ("the Regulation").

The Notice to Engage/Public Open House will be published in local newspapers within Haldimand County the week of June 7th. Please let us know if you would also like a copy of the Notice to be published in a newspaper within your community.

In the event that you have any questions or concerns, please do not hesitate to contact Kara Hearne at Stantec via phone (519-836-6050) or email (kara.hearne@stantec.com). We look forward to working with you throughout the development of this renewable energy initiative.

Sincerely,

STANTEC CONSULTING LTD.

Rob Nadolny
Senior Project Manager
Tel: (519) 836-6050
Fax: (519) 836-2493
Rob.nadolny@stantec.com

Attachment: Draft Project Description and Notice to Engage/Public Open House

CC. Adam Rosso, Samsung Renewable Energy Inc.
Hazel Hill, Haudenosaunee Development Institute



Stantec Consulting Ltd.
Suite 1 - 70 Southgate Drive
Guelph ON N1G 4P5
Tel: (519) 836-6050
Fax: (519) 836-2493

Stantec

June 24, 2010
File: 160960577 / 161010624

Six Nations of the Grand River Haudenosaunee Confederacy Council
RR #2
Ohsweken, ON N0A 1M0

Attention Chief Allen MacNaughton:

**Reference: Grand Renewable Energy Park
Draft Project Description – Version 2**

Dear Chief MacNaughton:

On behalf of Samsung Renewable Energy Inc. (Samsung), please find enclosed the Draft Project Description – Version 2 for the proposed Grand Renewable Energy Park to be located within Haldimand County, Ontario. Draft Project Description Report - Version 2 has been updated to include additional information related to Project setbacks and the identification of potential environmental effects.

If approved, the wind aspect of the Project would have a nameplate capacity of 140 MW and consist of approximately 63 wind turbines (depending upon the turbine make and model). The solar aspect of the Project would have a nameplate capacity of 100 MW and consist of approximately 700 acres of land. Both aspects of the Project would also include electrical collection lines, a 30 km transmission line, substation, and other ancillary facilities such as access roads.

In the event that you have any questions or concerns, please do not hesitate to contact Kara Hearne at Stantec via phone (519-836-6050) or email (kara.hearne@stantec.com). We look forward to working with you throughout the development of this renewable energy initiative.

Sincerely,

STANTEC CONSULTING LTD.

Rob Nadolny
Senior Project Manager
Tel: (519) 836-6050
Fax: (519) 836-2493
Rob.nadolny@stantec.com

Attachment: Draft Project Description – Version 2

CC. Adam Rosso, Samsung Renewable Energy Inc.
Hazel Hill, Haudenosaunee Development Institute



SAMSUNG C&T

July 26, 2010
File: 160960577/161010624

Haudenosaunee Development Institute
Six Nations of the Grand River Territory
Suite 417-16 Sunrise Court P.O. Box 714
Ohsweken, ON N0A 1M0

Attention Hazel Hill, Interim Director:

**Reference: Grand Renewable Energy Park
Request to meet with Haudenosaunee Confederacy**

Dear Ms. Hill:

On behalf of Samsung Renewable Energy Inc. (Samsung), I would like to request an introductory meeting with representatives of the Haudenosaunee Confederacy to discuss an engagement protocol between Samsung and the Haudenosaunee Confederacy with respect to the Renewable Energy Approval (REA) process for the Grand Renewable Energy Park (the Project). We would be pleased to meet with the Royanne at a location and time of their convenience.

As you are aware, we have met with representatives of the Six Nations Elected Council to discuss issues such as engagement and accommodation and would appreciate the opportunity to hear the Haudenosaunee Confederacy views on the REA process and other matters of significant interest to the Haudenosaunee Confederacy and the community in general.

Your efforts in facilitating this meeting are much appreciated. In the event that you have any questions, or to discuss the logistics and appropriate protocols for the meeting please contact Kara Hearne at Stantec via phone (519-836-6050) or email (kara.hearne@stantec.com). We look forward to working with you throughout the development of this renewable energy initiative.

Sincerely,

SAMSUNG RENEWABLE ENERGY INC.

G. Y. You

CC. Kara Hearne, Stantec

Friedl, Susanne

From: HDI <hdi2@bellnet.ca>
Sent: Thursday, August 12, 2010 1:32 PM
To: Hearne, Kara
Cc: Aaron Detlor; Brian Doolittle; Ron Thomas; Blake Bomberry; Al Day; Rick Hill
Subject: 030-007 Grand Renewable Energy Park
Attachments: 030-007 Samsung o-g Aug 12, 2010.pdf; HDI Application Process.zip; ATT2273391.txt

Dear Ms. Hearne:

Please see the attached. Original to follow by regular post.

Thanks,

Hazel E. Hill

Friedl, Susanne

From: HDI <hdi2@bellnet.ca>
Sent: Thursday, August 12, 2010 1:58 PM
To: Hearne, Kara
Cc: Hazel E Hill
Subject: Fwd: 030-007 Grand Renewable Energy Park
Attachments: 030-007 Samsung Incoming August 9, 2010.pdf; ATT2273348.htm; 030-007 Samsung o-g Aug 12, 2010.pdf; ATT2273349.htm; HDI Application Process.zip; ATT2273350.htm

Hi Kara.

Sorry, I forgot to attach the original from Samsung as well.

thanks,

Hazel

Friedl, Susanne

From: Hearne, Kara
Sent: Friday, August 13, 2010 3:31 PM
To: 'HDI'
Subject: RE: 030-007 Grand Renewable Energy Park

Hi Hazel,

Your response is received with thanks.

Have a great weekend!
Kara

From: HDI [mailto:hdi2@bellnet.ca]
Sent: Thursday, August 12, 2010 1:58 PM
To: Hearne, Kara
Cc: Hazel E Hill
Subject: Fwd: 030-007 Grand Renewable Energy Park

Hi Kara.

Sorry, I forgot to attach the original from Samsung as well.

thanks,

Hazel



Stantec Consulting Ltd.
Suite 1 - 70 Southgate Drive
Guelph ON N1G 4P5
Tel: (519) 836-6050
Fax: (519) 836-2493

Stantec

January 7, 2011
File: 161010646/161010624

Chief Allen MacNaughton
RR#2, P.O. Box 449
Ohsweken, ON N0A 1M0

**Reference: Grand Renewable Energy Park
Renewable Energy Approval – Project Update and Information Request**

Dear Chief MacNaughton:

Samsung Renewable Energy Inc. (Samsung) and Pattern Energy (Pattern) are proposing to develop the Grand Renewable Energy Park (GREP), a combined wind and solar generation project, within Haldimand County, Ontario. If approved, the wind portion of the GREP would have a nameplate capacity of 140 MW and consist of approximately 69 wind turbines. The solar portion of the GREP would have a nameplate capacity of 100 MW and utilize approximately 900 acres of land. Both aspects of the GREP would also include electrical collection lines, a transmission line, substation, and other ancillary facilities such as access roads.

The GREP is subject to the Renewable Energy Approval (REA) process, as outlined in Ontario Regulation 359/09 - Renewable Energy Approvals under Part V.0.1 of the Act of the *Environmental Protection Act* (O.Reg 359/09). Stantec Consulting Ltd. (Stantec) is the primary consultant responsible for preparing the REA application for the GREP.

Project Update

Project work throughout Summer and Fall of 2010 was primarily focused on preliminary engineering work, noise assessments, landowner agreements, natural heritage background and field studies, and dialogue with the local residents, municipality, and aboriginal communities. There was also an Open House held on July 8, 2010, to which you were invited.

We have now completed terrestrial and aquatic field studies for the GREP, and are in the process of analyzing the results of these surveys. We have also completed much of the Stage 2 Archaeological Assessment with assistance from Six Nations monitors, and will be continuing this work when the weather permits. Currently, we are beginning the process of drafting reports, and beginning work on the assessment of potential impacts and mitigation measures for environmental features that have been identified. Please find enclosed a copy of our first Project newsletter, issued in December 2010.

The preliminary wind turbine layout for the GREP, which includes 69 wind turbines, has recently been released. We welcome your input on the layout. The map has been uploaded to the project website (www.samsungrenewableenergy.ca), and is also enclosed for your reference. This preliminary wind turbine layout has also recently been submitted to the Ministry of the Environment.

Information Request

We recognize that construction and operation of the GREP has the potential to affect the constitutionally protected aboriginal or treaty rights of your community. However, we do not presently have information from your community regarding how these rights may be affected by project activities, and we would welcome the

January 7, 2011
Chief Allen MacNaughton
Page 2 of 2

**Reference: Grand Renewable Energy Park
Renewable Energy Approval – Project Update and Information Request**

opportunity to understand how aboriginal rights are exercised in the project area (e.g. areas used for traditional activities by your community) so that we may work together and share information on how best to mitigate any potential impacts that may be identified.

As outlined in subsection 17.1.4 of O.Reg. 359/09, we would like to request that you provide, in writing, any information that, in your community's opinion, should be considered in preparing the REA reports for the project, and in particular, any information your community may have about any adverse impacts the GREP may have on constitutionally protected aboriginal or treaty rights and any measures for mitigating those adverse impacts.

Enclosed is a copy of the draft Project Description Report (Version 2) that has been prepared for the GREP. We have attempted to send this project material to you previously, but have not received confirmation from Canada Post that you received the documents. We sincerely hope that this information will provide the project background you may need to help identify for us the information we have requested. However, should you require additional information about the GREP, please let us know.

Closure

Samsung and Pattern continue to be very interested in meeting with the Haudenosaunee Confederacy Chiefs Council, and are available to meet at a location and time of your convenience.

In the event that you have any questions or concerns, please do not hesitate to contact Kara Hearne at Stantec via phone (519-836-6050) or email (kara.hearne@stantec.com). We look forward to working with you throughout the development of this renewable energy initiative.

Sincerely,

STANTEC CONSULTING LTD.



Rob Nadolny
Senior Project Manager
Tel: (519) 836-6050
Fax: (519) 836-2493
rob.nadolny@stantec.com

Attachments: GREP Newsletter – Volume 1 (December 2010)
Preliminary Wind Turbine Layout Map
Draft Project Description Report (Version 2)

cc. Kara Hearne, Stantec
Hazel Hill, Interim Director, Haudenosaunee Development Institute
Adam Rosso, Samsung
Hagen Lee, Samsung
Marnie Dawson, Samsung
GY Yoo, Samsung

January 20, 2011

Haudenosaunee Development Institute
Six Nations of the Grand River Territory
Suite 417-16 Sunrise Court, P.O. Box 714
Ohsweken, ON N0A 1M0

Attention: Hazel Hill, Interim Director

Reference: Grand Renewable Energy Park

Dear Ms. Hill:

As you are aware, Samsung Renewable Energy Inc. (Samsung) and Pattern Energy (Pattern) are proposing to develop the Grand Renewable Energy Park (GREP), a combined wind and solar generation project, within Haldimand County, Ontario.

We continue to be committed to discussing the GREP with the Haudenosaunee Confederacy Chiefs Council (HCCC) through the Haudenosaunee Development Institute (HDI).

While we are not prepared to complete the HDI application form or to pay the application fee, we are amenable to considering capacity funding so that the HCCC can participate in the discussions in a meaningful way. Therefore, we are prepared to consider and review an application from the HDI for capacity funding in order to facilitate the HCCC's participation in the Renewable Energy Approval (REA) process. If the intent of the application fee is for capacity funding to assist the HCCC in the review of the Project, please confirm this intent as Samsung would then be agreeable to paying the application fee.

We would still appreciate the opportunity to meet with the HCCC, to share information regarding the GREP and to ensure that we have a good understanding of the community's interests. We are available to meet with the HCCC at a location and time of their convenience.

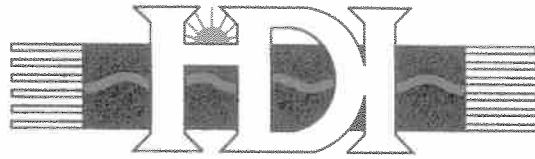
In the event that you have any questions, please contact Kara Hearne at Stantec via phone (519-836-6050) or email (kara.hearne@stantec.com). We look forward to working with you throughout the development of this renewable energy initiative.

Sincerely,

SAMSUNG RENEWABLE ENERGY INC.

Michael (GY) Yoo
General Manager

cc. Kara Hearne, Stantec
Chief Allen MacNaughton
Hagen Lee, Samsung
Marnie Dawson, Samsung
Adam Rosso, Samsung



RECEIVED
FEB 15 2011

Haudenosaunee Development Institute

February 10, 2011

Mr. Michael Yoo
General Manager
Samsung C&T
Samsung Renewable Energy Inc
55 Standish Court
Mississauga, Ontario
L5R 4B2

Dear Mr. Yoo:

Re: Grand Renewable Energy Park ('GREP')
Our File No: 030-007

Thank you for your most recent correspondence of January 20, 2011.

The Haudenosaunee remain committed to discussing the GREP with representatives of Samsung Renewable Energy Inc. and are available to address any questions or concerns that you may have with respect to our application process. I can confirm that the HDI application fee is used to assist the Haudenosaunee in the review of development projects.

As you are aware, the Haudenosaunee have been in contact with several levels of the Federal and Provincial Crown in an attempt to help organize and establish a meaningful engagement process that upholds the honour of the Crown with respect to its obligations to consultation, accommodation and reconciliation.

In August 2010 we received correspondence from the Ministry of Infrastructure who advised of its intent to grant Samsung a license to enter upon lands in what it describes as 'specifically related to the South Cayuga Land Bank'. Can you please advise as to the status of this license?

Prior to our meeting we would also like an update from you and/or the Province of Ontario with respect to the consultation accommodation and reconciliation undertakings that have been completed to date.

OUR LAND, OUR LAW, OUR PEOPLE, OUR FUTURE

For your ease of reference, we can advise that the Six Nations Elected Band Council has no authority to undertake any commitments on behalf of the Haudenosaunee people further to the treaty relationship that is currently maintained by way of the Haudenosaunee Confederacy Chiefs Council.

On July 26, 2010 you advised that you were amenable to a meeting with the HDI and we would be pleased to meet. Please contact me at your convenience to arrange a time when you would be available to meet with us.

Yours truly,



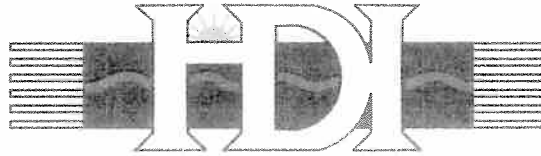
Hazel E. Hill
Interim Director
/heh

cc: Honorable Chris Bentley
Minister of Aboriginal Affairs

Honorable Brad Duguid
Minister of Energy

Honorable Bob Chiarelli
Minister of Infrastructure

Kara Hearne, Stantec ✓



RECEIVED

JUL 14 2009

Haudenosaunee Development Institute

July 11, 2011

Mr. Michael Yoo, General Manager
Samsung C&T
Samsung Renewabe Energy Inc
55 Standish Court
Mississauga, ON
L5R 4B2

Dear Mr. Yoo:

Re: Grand Renewable Energy Park ('GREP')
Our File No.: 030-007

To date we are awaiting a response to ours of February 10, 2011. As you are aware, we have a specific policy with respect to engagement and in particular with respect to Renewable Energy Act ('REA') projects.

This project is of significant concern as the proposed project area sits directly within areas of Haudenosaunee jurisdiction. We would once again invite Samsung to undertake a meaningful engagement process which will satisfy our regulatory process at the same time satisfy any obligations you may have under the Ontario REA process.

We are hereby providing you with notice that the HDI Archaeology representative will be attending and monitoring your proposed site to ensure compliance with all applicable regulatory standards pertaining to archaeology.

Yours truly,

Hazel E. Hill
Interim Director

cc: Honorable Chris Bentley
Minister of Aboriginal Affairs

Honorable Brad Duguid
Minister of Energy

Honorable Bob Chiarelli
Minister of Infrastructure

Kara Hearne
Stantec

OUR LAND, OUR LAW, OUR PEOPLE, OUR FUTURE



Stantec Consulting Ltd.
70 Southgate Drive Suite 1
Guelph ON N1G 4P5
Tel: (519) 836-6050
Fax: (519) 836-2493

Stantec

July 19, 2011
File: 160960577 / 161010624

Six Nations of the Grand River Haudenosaunee Confederacy Council
R.R. #2, P.O. Box 449
Ohsweken, ON N0A 1M0

Attention: Chief Allen MacNaughton

Reference: Grand Renewable Energy Park – Release of Draft Renewable Energy Approval Reports

Dear Chief MacNaughton:

Samsung C&T (Samsung), Pattern Energy (Pattern), and Korea Power Electric Corporation (KEPCO) (together, these companies referred to herein as “SPK”) are proposing to develop, construct, and operate a wind and solar energy project as part of the Grand Renewable Energy Park (GREP), in Haldimand County. SPK is planning to engage in this renewable energy project in respect of which the issuance of Renewable Energy Approvals (REA) is required. The proposal to engage in the project and the project itself are subject to the provisions of the *Environmental Protection Act (ACT)* Part V.0.1 and Ontario Regulation 359/09 (O. Reg. 359/09).

On behalf of SPK, Stantec is pleased to provide you with a copy of the Draft REA Reports for your review and comment. As required under O. Reg. 359/09 and the Ministry of Natural Resources (MNR) *Approval and Permitting Requirements Document (APRD) for Renewable Energy Projects*, this Draft REA Reports package includes the following draft reports:

- Project Description Report – as outlined in item 10 of Table 1 of O. Reg. 359/09;
- Natural Heritage Assessment Report – as required under sections 24, 25, 26, 27 and 28 of O. Reg. 359/09 and section 6.3 of the MNR’s Requirements Document;
- Construction Plan Report – as outlined in item 1 of Table 1 of O. Reg. 359/09 and section 6.7 of the MNR’s Requirements Document;
- Design and Operations Report – as outlined in item 4 of Table 1 of O. Reg. 359/09 and section 6.6 of the MNR’s Requirements Document;
- Decommissioning Plan Report – as outlined in item 3 of Table 1 of O. Reg. 359/09 and section 6.8 of the MNR’s Requirements Document;
- Environmental Impact Study – as required under section 38 of O. Reg. 359/09;
- Wind Turbine Specifications Report – as outlined in item 13 of Table 1 of O. Reg. 359/09;
- Archaeological and Heritage Reports - as required under sections 19, 20, 21, 22 and 23 of O.Reg. 359/09;
- Water Body and Water Assessment Report - as required under sections 29, 30 and 31 of O. Reg. 359/09. Further information related to potential effects and mitigation measures to water bodies, as required under sections 39, 40, 44, and 45 of O. Reg. 359/09 is provided in the Water Body and Water Assessment Report, Construction Plan Report and Design and Operations Report; and,

July 19, 2011

Attention: Chief Allen MacNaughton

Page 2 of 2

Reference: Grand Renewable Energy Park – Release of Draft Renewable Energy Approval Reports

- Project Summary Report – as outlined in section 17. (1)3 of O. Reg. 359/09. The Draft Project Summary Report provides a summary of the potential environmental effects including those which the Project may have on constitutionally protected Aboriginal or treaty rights.

The attached Notice of Public Meeting will be published in local newspapers within Haldimand County the week of July 20th. Please let us know if you would also like a copy of the Notice to be published in a newspaper within your community.

The MOE has identified your community as potentially having constitutionally protected aboriginal or treaty rights that may be adversely impacted by the GREP. However, we do not presently have information from your community regarding how these rights may be affected by project activities. We continue to welcome the opportunity to understand how aboriginal rights are exercised in the project area (e.g. areas used for traditional activities by your community) so that we may work together and share information on how best to mitigate any potential impacts that may be identified.

We would like to request that you provide, in writing, any information that, in your community's opinion, should be considered in preparing the final version of the REA reports for the project, and in particular, any information your community may have about any adverse impacts the GREP may have on constitutionally protected aboriginal or treaty rights and any measures for mitigating those adverse impacts. We respectfully request any information/comments you may have by no later than September 22, 2011 so that the information can be considered during project planning and preparation of the final versions of the REA reports. The project team welcomes comments after this date, however only comments received by September 22, 2011 will be included in the Project's Consultation Report that will be submitted as part of the project's REA application.

We also respectfully request that these reports be made available to your community members. Given the size of the enclosed reports, we have not included an additional hard copy in an effort to conserve paper. However, we would be happy to send additional hard copies or electronic copies if needed; please let us know.

In the event that you have any questions or concerns, please do not hesitate to contact Kara Hearne at Stantec via phone (519-836-6050) or email (kara.hearne@stantec.com). We look forward to working with you throughout the development of this renewable energy initiative.

Sincerely,

STANTEC CONSULTING LTD.



Rob Nadolny

Senior Project Manager

Tel: (519) 836-6050

Fax: (519) 836-2493

Rob.nadolny@stantec.com

Attachment: Draft REA Reports package
Notice of Public Meeting



Stantec Consulting Ltd.
70 Southgate Drive Suite 1
Guelph ON N1G 4P5
Tel: (519) 836-6050
Fax: (519) 836-2493

Stantec

July 19, 2011
File: 160960577 / 161010624

Haudenosaunee Development Institute
16 Sunrise Court, Suite 417, P.O. Box 714
Ohsweken, ON N0A 1M0

Attention: Ms. Hazel Hill, Interim Director

Reference: Grand Renewable Energy Park – Release of Draft Renewable Energy Approval Reports

Dear Ms. Hill:

Samsung C&T (Samsung), Pattern Energy (Pattern), and Korea Power Electric Corporation (KEPCO) (together, these companies referred to herein as “SPK”) are proposing to develop, construct, and operate a wind and solar energy project as part of the Grand Renewable Energy Park (GREP), in Haldimand County. SPK is planning to engage in this renewable energy project in respect of which the issuance of Renewable Energy Approvals (REA) is required. The proposal to engage in the project and the project itself are subject to the provisions of the *Environmental Protection Act (ACT)* Part V.0.1 and Ontario Regulation 359/09 (O. Reg. 359/09).

On behalf of SPK, Stantec is pleased to provide you with a copy of the Draft REA Reports for your review and comment. As required under O. Reg. 359/09 and the Ministry of Natural Resources (MNR) *Approval and Permitting Requirements Document (APRD) for Renewable Energy Projects*, this Draft REA Reports package includes the following draft reports:

- Project Description Report – as outlined in item 10 of Table 1 of O. Reg. 359/09;
- Natural Heritage Assessment Report – as required under sections 24, 25, 26, 27 and 28 of O. Reg. 359/09 and section 6.3 of the MNR’s Requirements Document;
- Construction Plan Report – as outlined in item 1 of Table 1 of O. Reg. 359/09 and section 6.7 of the MNR’s Requirements Document;
- Design and Operations Report – as outlined in item 4 of Table 1 of O. Reg. 359/09 and section 6.6 of the MNR’s Requirements Document;
- Decommissioning Plan Report – as outlined in item 3 of Table 1 of O. Reg. 359/09 and section 6.8 of the MNR’s Requirements Document;
- Environmental Impact Study – as required under section 38 of O. Reg. 359/09;
- Wind Turbine Specifications Report – as outlined in item 13 of Table 1 of O. Reg. 359/09;
- Archaeological and Heritage Reports - as required under sections 19, 20, 21, 22 and 23 of O.Reg. 359/09;
- Water Body and Water Assessment Report - as required under sections 29, 30 and 31 of O. Reg. 359/09. Further information related to potential effects and mitigation measures to water bodies, as required under sections 39, 40, 44, and 45 of O. Reg. 359/09 is provided in the Water Body and Water Assessment Report, Construction Plan Report and Design and Operations Report; and,
- Project Summary Report – as outlined in section 17. (1)3 of O. Reg. 359/09. The Draft Project Summary Report provides a summary of the potential environmental effects including those which the Project may have on constitutionally protected Aboriginal or treaty rights.

July 19, 2011

Attention: Ms. Hazel Hill, Interim Director

Page 2 of 2

Reference: Grand Renewable Energy Park – Release of Draft Renewable Energy Approval Reports

The attached Notice of Public Meeting will be published in local newspapers within Haldimand County the week of July 20th. Please let us know if you would also like a copy of the Notice to be published in a newspaper within your community.

The MOE has identified your community as potentially having constitutionally protected aboriginal or treaty rights that may be adversely impacted by the GREP. However, we do not presently have information from your community regarding how these rights may be affected by project activities. We continue to welcome the opportunity to understand how aboriginal rights are exercised in the project area (e.g. areas used for traditional activities by your community) so that we may work together and share information on how best to mitigate any potential impacts that may be identified.

We would like to request that you provide, in writing, any information that, in your community's opinion, should be considered in preparing the final version of the REA reports for the project, and in particular, any information your community may have about any adverse impacts the GREP may have on constitutionally protected aboriginal or treaty rights and any measures for mitigating those adverse impacts. We respectfully request any information/comments you may have by no later than September 22, 2011 so that the information can be considered during project planning and preparation of the final versions of the REA reports. The project team welcomes comments after this date, however only comments received by September 22, 2011 will be included in the Project's Consultation Report that will be submitted as part of the project's REA application.

We also respectfully request that these reports be made available to your community members. Given the size of the enclosed reports, we have not included an additional hard copy in an effort to conserve paper. However, we would be happy to send additional hard copies or electronic copies if needed; please let us know.

In the event that you have any questions or concerns, please do not hesitate to contact Kara Hearne at Stantec via phone (519-836-6050) or email (kara.hearne@stantec.com). We look forward to working with you throughout the development of this renewable energy initiative.

Sincerely,

STANTEC CONSULTING LTD.



Rob Nadolny

Senior Project Manager

Tel: (519) 836-6050

Fax: (519) 836-2493

Rob.nadolny@stantec.com

cc. Chief Allen MacNaughton, Six Nations of the Grand River Haudenosaunee Confederacy Council

Attachment: Draft REA Reports package
Notice of Public Meeting

Friedl, Susanne

From: Hearne, Kara
Sent: Friday, July 22, 2011 3:34 PM
To: 'HDI'
Subject: Grand Renewable Energy Park

Good afternoon Hazel,

I would like to confirm that Samsung Renewable Energy has received your letter dated July 11, 2011. Samsung would be very pleased to meet with HDI regarding the Grand Renewable Energy Park.

I will be coordinating the meeting on behalf of Samsung. I am away on vacation next week but will touch base with you when I return so that we can coordinate and identify some potential meeting dates.

Have a great weekend.

Best regards,
Kara

Kara Hearne, B.Sc.
Project Manager - Assessment, Permitting & Compliance
Stantec
Suite 1 - 70 Southgate Drive
Guelph ON N1G 4P5
Ph: (519) 836-6050 Ext. 250
Fx: (519) 836-2493
kara.hearne@stantec.com
stantec.com

The content of this email is the confidential property of Stantec and should not be copied, modified, retransmitted, or used for any purpose except with Stantec's written authorization. If you are not the intended recipient, please delete all copies and notify us immediately.

 Please consider the environment before printing this email.



Haudenosaunee Development Institute

July 25, 2011

SENT BY EMAIL TO: nadolny@stantec.com

Rob Nadolny
Senior Project Manager
Stantec Consulting Ltd.
70 Southgate Drive Suite 1
Guelph, ON N1G 4P5

**Re: Grand Renewable Energy Park
Release of Draft Renewable Energy Approval Reports
Our File No: 030-007 Samsung**

Dear Mr. Nadolny:

I wish to confirm receipt of your letter of July 19, 2011, and the attached Draft Renewable Energy Approval Reports received in this office on July 20, 2011.

As you may be aware, we have attempted to initiate an engagement process with Samsung on a number of occasions, most recently, on July 11, 2011 when we sent Mr. Michael Yoo, General Manger for Samsung C&T ('Samsung') correspondence requesting a response to ours of February 10, 2011 regarding engagement on the Grand Renewable Energy Park ('Project').

To date we have not had a meaningful response to our attempts to ensure that Samsung undertakes any delegated procedural and or technical consultation in good faith.

While we are in receipt of email correspondence of July 22, 2011 from Ms. Kara Hearne (Stantec Project Manager), we do not have any indication that Stantec has been provided with the authority to act on behalf of Samsung (or the Province of Ontario) with respect to any procedural and/or technical engagement process. It would be of assistance if you could provide us with any documentation indicating your scope of authority with respect to this matter.

It would be of assistance if Samsung would provide us with any correspondence or documentation indicating that there has been a delegation of any procedural or technical aspects involved in upholding the Honour of the Crown and copies of any assessment of Haudenosaunee rights and interest which may have been undertaken by the Province of Ontario, Samsung and/or Stantec.

OUR LAND, OUR LAW, OUR PEOPLE, OUR FUTURE

Further, please advise whether the Project will be reviewed under the Renewable Energy Approval (REA) process. As it currently stands, we would take the position that Samsung (and/or Stantec on Samsung's behalf) have not the obligations required by the REA process.

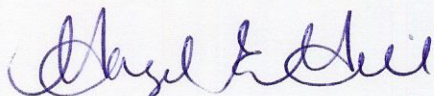
Our most recent concern deals with archaeology that may be progressing in relation to the Project, and in particular, the failure of Samsung and/or Stantec to ensure that authorized Haudenosaunee monitors are in place to supervise. We understand that Samsung and/or Stantec may be retaining private individuals to perform monitoring activities. The present monitors have not been authorized to undertake activities by way of any duly authorized Haudenosaunee body and in particular, they have not been authorized by the Haudenosaunee Development Institute, and therefore, are not qualified to ensure that Haudenosaunee policies and procedures are being respected.

We look forward to more discussions and input with respect to the process that has been undertaken to date with respect to archaeology monitoring, as there are serious questions to be addressed on behalf of the Six Nations community with respect to transparency and accountability.

We would also like to receive any "lists of aboriginal communities" that may have been provided to Samsung and/or Stantec by the Province of Ontario with respect any of the Project's regulatory obligations.

We look forward to hearing from you on these matters.

Sincerely,



Hazel E. Hill
Interim Director



Stantec Consulting Ltd.
70 Southgate Drive Suite 1
Guelph ON N1G 4P5
Tel: (519) 836-6050
Fax: (519) 836-2493

Stantec

September 2, 2011
File: 161010646/161010624

Haudenosaunee Development Institute
Six Nations of the Grand River Territory
Suite 417-16 Sunrise Court, P.O. Box 714
Ohsweken, ON N0A 1M0

Attention: Hazel Hill, Interim Director

Dear Ms. Hill:

Reference: Grand Renewable Energy Park

Thank you for your letter dated July 25, 2011 regarding the Grand Renewable Energy Park (GREP).

In your letter, you requested clarification regarding the role of Stantec Consulting Ltd. (Stantec) in terms of our ability to act on behalf of the project proponent, Samsung Renewable Energy (Samsung). Stantec was retained by Samsung to fulfill the regulatory requirements of the Renewable Energy Approval (REA) process, including requirements outlined in Section 17 of Ontario Regulation 359/09 (the REA Regulation) regarding consultation with Aboriginal communities. As requested, we have attached the list of Aboriginal communities we received from the Ministry of the Environment for the GREP.

Samsung would be pleased to attend a meeting with HDI regarding the GREP. As per the email correspondence sent on July 22, 2011 by Kara Hearne, Stantec is acting in an administrative capacity to schedule and coordinate the proposed meeting on behalf of Samsung representatives. Should you wish to meet with Samsung, please contact Kara directly for scheduling.

Through the use of archaeological monitors during Stage 2 and 3 Archaeological surveys, Samsung has sincerely attempted to respect the interests of the Six Nations community. They have undergone significant effort to ensure that Six Nations monitors have been involved in the assessments. In doing so, multiple archaeological monitors from the community have been employed to work on both Stage 2 and 3 assessments. Samsung and the project team would be happy to further discuss the use of archaeological monitors for the ongoing archaeological work during the meeting referred to above.

Yours Sincerely,

STANTEC CONSULTING LTD.

Rob Nadolny
Senior Project Manager
Tel: (519) 836-6050
Fax: (519) 836-2493
rob.nadolny@stantec.com

Attachment: Ministry of the Environment list of Aboriginal Communities

cc. Chief Allen MacNaughton, Haudenosaunee Confederacy Council
GY Yoo, Samsung
Adam Rosso, Samsung
Hagen Lee, Samsung

Ministry of the Environment

Environmental Assessment and
Approvals Branch

2 St. Clair Avenue West
Floor 12A
Toronto ON M4V 1L5
Tel.: 416 314-8001
Fax: 416 314-8452

Ministère de l'Environnement

Direction des évaluations et des
autorisations environnementales

2, avenue St. Clair Ouest
Étage 12A
Toronto ON M4V 1L5
Tél. : 416 314-8001
Télééc. : 416 314-8452



September 23, 2010

MOE File #: WC-10-WSF-0049

Mr. Adam Rosso
Samsung Renewable Energy Inc.
55 Standish Court
Mississauga ON L5R 4B2

Dear Mr. Rosso:

RE: Director's Aboriginal Communities List - Grand Renewable Energy Park

The Ontario Ministry of the Environment (Ministry) has reviewed the information provided in the *Draft of the Project Description Report (PDR)* received for the *Grand Renewable Energy Park*. The Ministry has reviewed the anticipated environmental effects of the project (as described in the PDR) relative to its current understanding of the interests of aboriginal communities in the area.

In accordance with section 14 of Ontario Regulation 359/09 "Renewable Energy Approvals under Part V.0.1 of the Act" (O. Reg. 359/09) made under the *Environmental Protection Act*, please find below the list of aboriginal communities who, in the opinion of the Director:

i) have or may have constitutionally protected aboriginal or treaty rights that may be adversely impacted by the project (s.14(b)(i)):

Aboriginal Community
Common Name:
Reserve Name:
Contact Information:
Six Nations of the Grand River Six Nations (Part) 40 PO BOX 5000 Ohsweken ON N0A 1M0 Phone (519) 445-2201 Fax (519) 445-4208
Six Nations of the Grand River Haudenosaunee Confederacy Council RR2 Oshwken ON NOA 1MO Phone (519) 755-2769

Mississaugas of the Credit First Nation Mississaugas of the New Credit New Credit (Part) 40A RR 6 Hagersville ON N0A 1H0 Phone (905) 768-1133 Fax (905) 768-1225
Oneida Nation of the Thames Oneida 41 RR 2 Southwold ON N0L 2G0 Phone (519) 652-3244 Fax (519) 652-9287
Wahta Mohawks Wahta Mohawk Territory PO BOX 260 Bala ON P0C 1A0 Phone (705) 762-2354 Fax (705) 762-5744
Mohawks of the Bay of Quinte Tyendinaga Mohawks Tyendinaga Mohawk Territory RR 1 Deseronto ON K0K 1X0 Phone (613) 396-3424 Fax (613) 396-3627
Mohawks of Akwesasne Akwesasne (Part) 59 PO BOX 579 Cornwall ON K6H 5T3 Phone (613) 575-2250 Fax (613) 575-2181

OR

ii) otherwise may be interested in any negative environmental effects of the project (s.14(b)(ii)):

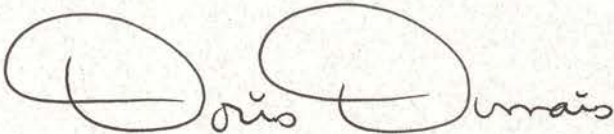
Aboriginal Community Common Name: Reserve Name: Contact Information:
Grand River Métis Council 76 Buttonwood Drive Kitchener ON N2M 4R1

Métis Nation of Ontario
Consultation Unit
500 Old St. Patrick St, Unit 3
Ottawa ON K1N 9G4

NOTE: None of the foregoing should be taken to imply approval of this project or the contents of the PDR. This letter only addresses the requirement of the Director to provide a list of aboriginal communities to you as required pursuant to section 14 of O. Reg. 359/09. You should also be aware that information upon which the above list of aboriginal communities is based is subject to change. Aboriginal communities can make assertions at any time, and other developments, for example the discovery of Aboriginal archaeological resources, can occur that may require additional aboriginal communities to be notified. Should this happen, the Ministry will contact you. Similarly, if you receive any feedback from any aboriginal communities not included in this list, as part of your consultation, the Ministry would appreciate being notified.

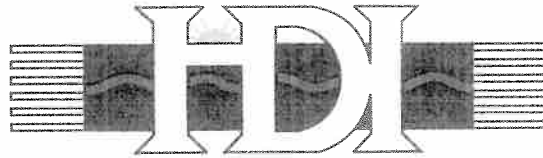
Please contact Narren Santos at (416) 314-8442 should you have any questions or require additional information.

Sincerely,



Doris Dumais
Director
Environmental Assessment Approvals Branch
Ministry of Environment

cc: Mansoor Mahmood, Renewable Energy Team, Ministry of the Environment
Joe de Laronde, Aboriginal Affairs Branch, Ministry of the Environment



RECEIVED

SEP * 6 2011

Haudenosaunee Development Institute

September 13, 2011

Mr. Michael Yoo, General Manager
Samsung C&T
Samsung Renewabe Energy Inc
55 Standish Court
Mississauga, ON
L5R 4B2

Re: Grand Renewable Energy Park ('GREP')
Our File No.: 030-007

We are in receipt of correspondence dated September 2, 2011 from Mr. Rob Nadolny of Stantec Consulting Ltd., indicating that Samsung is prepared to meet to discuss an engagement process for the GREP. Mr. Nadolny indicates that Samsung has delegated Stantec to "fulfill its regulatory requirements of the Renewable Energy Approval ('REA') process, including requirements outlined in Section 17 of Ontario Regulation 359/09 (the REA Regulation) regarding consultation with Aboriginal communities."

We can advise that we have been attempting to engage Samsung in a good faith meaningful process since at least September 2009 by way of correspondence to Mr. Hagen Lee. To date we have not had a favourable response to our simple request to enter into a good faith and binding engagement process.

We can advise that the current process fails to set out an approach which honours the Supreme Court of Canada's distinction between procedural and/or technical consultation and substantive consultation. Where the *prima facie* assessment has occurred, we agree that technical and/or procedural aspects of consultation may be delegated to third parties, however this necessarily implies that the substantive aspect of consultation must be undertaken by the Crown actor, in this case the Ministry of Energy and Infrastructure ('MEI').

We have received no indication and/or notice that MEI has delegated any procedural or technical aspects of consultation with respect to the asserted rights of the Haudenosaunee. We have also received no policy procedures, standards or guidelines that would deal with the delegation and which would guide HDI throughout the technical or procedural consultation process. We have also received no policy procedure, guidelines or standards that would assist or guide HDI of understanding how MEI is going to determine how and when procedural and/or technical consultation is adequate or sufficient.

OUR LAND, OUR LAW, OUR PEOPLE, OUR FUTURE

The approach taken to date leaves the HDI (and third party proponents) in the situation where they are left to somehow uphold the Honour of the Crown without Crown participation of any kind.

The Supreme Court of Canada has also stated that the obligation to accommodate rests solely with the Crown and cannot be delegated.

Upon review of this file, it would appear that you and/or your consultants are oblivious to the historical facts and obligations of the Crown in relation to Haudenosaunee rights and interest in that are of land which the GREP is infringing upon. What part of its our frickin land don't you understand?

One could conclude that Stantec, Samsung and/or the Province of Ontario in right of the Crown is attempting to unilaterally dictate where and how engagement will occur on the GREP. This approach, from our perspective, runs contrary to the *United Nations Declaration on the Rights of Indigenous People* which very clearly states at Articles 32, paragraph 2 that the Province of Ontario must respect the right of the Haudenosaunee to determine which body will undertake the process of granting free prior and informed consent.

Article 32

1. Indigenous peoples have the right to determine and develop priorities and strategies for the development or use of their lands or territories and other resources.
2. **States shall consult and cooperate in good faith with the indigenous peoples concerned through their own representative institutions in order to obtain their free and informed consent prior to the approval of any project affecting their lands or territories and other resources, particularly in connection with the development, utilization or exploitation of mineral, water or other resources.**
3. States shall provide effective mechanisms for just and fair redress for any such activities, and appropriate measures shall be taken to mitigate adverse environmental, economic, social, cultural or spiritual impact.

The September 2, 2011 correspondence from Mr. Nadolny appears to ignore the fact that the HDI has consistently advised of its process for engagement which includes making an application and providing an application fee so that we may begin the process of hiring consultants to review the numerous binders and reports that have been submitted without consideration of the fact that the HDI does not have the necessary resources to undertake any meaningful review of the GREP. We can again advise that the application fee will provide us with the opportunity to retain the necessary experts to commence the technical review of the project and consult internally to determine substantive rights and interests.

Once again we would ask if Samsung is prepared to enter into a good faith and meaningful engagement process by way of the HDI Engagement process, which has once again been attached for your ease of reference.

We look forward to hearing from you.

Yours truly,

A handwritten signature in cursive script, appearing to read "Hazel E. Hill".

Hazel E. Hill
Interim Director

cc: Haudenosaunee Confederacy Chiefs Council
Ministry of Energy & Infrastructure
Ontario Energy Board
Ministry of Aboriginal Affairs
Stantec



Stantec Consulting Ltd.
Suite 1 - 70 Southgate Drive
Guelph ON N1G 4P5
Tel: (519) 836-6050
Fax: (519) 836-2493

Stantec

June 7, 2010
File: 160960577 / 161010624

Six Nations of the Grand River Haudenosaunee Confederacy Council
RR #2
Ohsweken, ON N0A 1M0

Attention Chief Allen MacNaughton:

**Reference: Grand Renewable Energy Park
Draft Project Description and Notice to Engage/Public Open House**

Dear Chief MacNaughton:

On behalf of Samsung Renewable Energy Inc. (Samsung), please find enclosed the Draft Project Description and Notice to Engage/Public Open House for the proposed Grand Renewable Energy Park to be located within Haldimand County, Ontario. If approved, the wind aspect of the Project would have a nameplate capacity of 140 MW and consist of approximately 63 wind turbines (depending upon the turbine make and model). The solar aspect of the Project would have a nameplate capacity of 100 MW and consist of approximately 700 acres of land. Both aspects of the Project would also include electrical collection lines, a 30 km transmission line, substation, and other ancillary facilities such as access roads.

The Draft Project Description Report provides a summary of the Project as required by Ontario Regulation 359/09 - Renewable Energy Approvals under Part V.0.1 of the Act of the *Environmental Protection Act* ("the Regulation").

The Notice to Engage/Public Open House will be published in local newspapers within Haldimand County the week of June 7th. Please let us know if you would also like a copy of the Notice to be published in a newspaper within your community.

In the event that you have any questions or concerns, please do not hesitate to contact Kara Hearne at Stantec via phone (519-836-6050) or email (kara.hearne@stantec.com). We look forward to working with you throughout the development of this renewable energy initiative.

Sincerely,

STANTEC CONSULTING LTD.

Rob Nadolny
Senior Project Manager
Tel: (519) 836-6050
Fax: (519) 836-2493
Rob.nadolny@stantec.com

Attachment: Draft Project Description and Notice to Engage/Public Open House

CC. Adam Rosso, Samsung Renewable Energy Inc.
Hazel Hill, Haudenosaunee Development Institute



Stantec Consulting Ltd.
Suite 1 - 70 Southgate Drive
Guelph ON N1G 4P5
Tel: (519) 836-6050
Fax: (519) 836-2493

Stantec

June 24, 2010
File: 160960577 / 161010624

Six Nations of the Grand River Haudenosaunee Confederacy Council
RR #2
Ohsweken, ON N0A 1M0

Attention Chief Allen MacNaughton:

**Reference: Grand Renewable Energy Park
Draft Project Description – Version 2**

Dear Chief MacNaughton:

On behalf of Samsung Renewable Energy Inc. (Samsung), please find enclosed the Draft Project Description – Version 2 for the proposed Grand Renewable Energy Park to be located within Haldimand County, Ontario. Draft Project Description Report - Version 2 has been updated to include additional information related to Project setbacks and the identification of potential environmental effects.

If approved, the wind aspect of the Project would have a nameplate capacity of 140 MW and consist of approximately 63 wind turbines (depending upon the turbine make and model). The solar aspect of the Project would have a nameplate capacity of 100 MW and consist of approximately 700 acres of land. Both aspects of the Project would also include electrical collection lines, a 30 km transmission line, substation, and other ancillary facilities such as access roads.

In the event that you have any questions or concerns, please do not hesitate to contact Kara Hearne at Stantec via phone (519-836-6050) or email (kara.hearne@stantec.com). We look forward to working with you throughout the development of this renewable energy initiative.

Sincerely,

STANTEC CONSULTING LTD.

Rob Nadolny
Senior Project Manager
Tel: (519) 836-6050
Fax: (519) 836-2493
Rob.nadolny@stantec.com

Attachment: Draft Project Description – Version 2

CC. Adam Rosso, Samsung Renewable Energy Inc.
Hazel Hill, Haudenosaunee Development Institute



SAMSUNG C&T

July 26, 2010
File: 160960577/161010624

Haudenosaunee Development Institute
Six Nations of the Grand River Territory
Suite 417-16 Sunrise Court P.O. Box 714
Ohsweken, ON N0A 1M0

Attention Hazel Hill, Interim Director:

**Reference: Grand Renewable Energy Park
Request to meet with Haudenosaunee Confederacy**

Dear Ms. Hill:

On behalf of Samsung Renewable Energy Inc. (Samsung), I would like to request an introductory meeting with representatives of the Haudenosaunee Confederacy to discuss an engagement protocol between Samsung and the Haudenosaunee Confederacy with respect to the Renewable Energy Approval (REA) process for the Grand Renewable Energy Park (the Project). We would be pleased to meet with the Royanne at a location and time of their convenience.

As you are aware, we have met with representatives of the Six Nations Elected Council to discuss issues such as engagement and accommodation and would appreciate the opportunity to hear the Haudenosaunee Confederacy views on the REA process and other matters of significant interest to the Haudenosaunee Confederacy and the community in general.

Your efforts in facilitating this meeting are much appreciated. In the event that you have any questions, or to discuss the logistics and appropriate protocols for the meeting please contact Kara Hearne at Stantec via phone (519-836-6050) or email (kara.hearne@stantec.com). We look forward to working with you throughout the development of this renewable energy initiative.

Sincerely,

SAMSUNG RENEWABLE ENERGY INC.

G. Y. You

CC. Kara Hearne, Stantec

Friedl, Susanne

From: HDI <hdi2@bellnet.ca>
Sent: Thursday, August 12, 2010 1:32 PM
To: Hearne, Kara
Cc: Aaron Detlor; Brian Doolittle; Ron Thomas; Blake Bomberry; Al Day; Rick Hill
Subject: 030-007 Grand Renewable Energy Park
Attachments: 030-007 Samsung o-g Aug 12, 2010.pdf; HDI Application Process.zip; ATT2273391.txt

Dear Ms. Hearne:

Please see the attached. Original to follow by regular post.

Thanks,

Hazel E. Hill

Friedl, Susanne

From: HDI <hdi2@bellnet.ca>
Sent: Thursday, August 12, 2010 1:58 PM
To: Hearne, Kara
Cc: Hazel E Hill
Subject: Fwd: 030-007 Grand Renewable Energy Park
Attachments: 030-007 Samsung Incoming August 9, 2010.pdf; ATT2273348.htm; 030-007 Samsung o-g Aug 12, 2010.pdf; ATT2273349.htm; HDI Application Process.zip; ATT2273350.htm

Hi Kara.

Sorry, I forgot to attach the original from Samsung as well.

thanks,

Hazel

Friedl, Susanne

From: Hearne, Kara
Sent: Friday, August 13, 2010 3:31 PM
To: 'HDI'
Subject: RE: 030-007 Grand Renewable Energy Park

Hi Hazel,

Your response is received with thanks.

Have a great weekend!
Kara

From: HDI [mailto:hdi2@bellnet.ca]
Sent: Thursday, August 12, 2010 1:58 PM
To: Hearne, Kara
Cc: Hazel E Hill
Subject: Fwd: 030-007 Grand Renewable Energy Park

Hi Kara.

Sorry, I forgot to attach the original from Samsung as well.

thanks,

Hazel



Stantec Consulting Ltd.
Suite 1 - 70 Southgate Drive
Guelph ON N1G 4P5
Tel: (519) 836-6050
Fax: (519) 836-2493

Stantec

January 7, 2011
File: 161010646/161010624

Chief Allen MacNaughton
RR#2, P.O. Box 449
Ohsweken, ON N0A 1M0

**Reference: Grand Renewable Energy Park
Renewable Energy Approval – Project Update and Information Request**

Dear Chief MacNaughton:

Samsung Renewable Energy Inc. (Samsung) and Pattern Energy (Pattern) are proposing to develop the Grand Renewable Energy Park (GREP), a combined wind and solar generation project, within Haldimand County, Ontario. If approved, the wind portion of the GREP would have a nameplate capacity of 140 MW and consist of approximately 69 wind turbines. The solar portion of the GREP would have a nameplate capacity of 100 MW and utilize approximately 900 acres of land. Both aspects of the GREP would also include electrical collection lines, a transmission line, substation, and other ancillary facilities such as access roads.

The GREP is subject to the Renewable Energy Approval (REA) process, as outlined in Ontario Regulation 359/09 - Renewable Energy Approvals under Part V.0.1 of the Act of the *Environmental Protection Act* (O.Reg 359/09). Stantec Consulting Ltd. (Stantec) is the primary consultant responsible for preparing the REA application for the GREP.

Project Update

Project work throughout Summer and Fall of 2010 was primarily focused on preliminary engineering work, noise assessments, landowner agreements, natural heritage background and field studies, and dialogue with the local residents, municipality, and aboriginal communities. There was also an Open House held on July 8, 2010, to which you were invited.

We have now completed terrestrial and aquatic field studies for the GREP, and are in the process of analyzing the results of these surveys. We have also completed much of the Stage 2 Archaeological Assessment with assistance from Six Nations monitors, and will be continuing this work when the weather permits. Currently, we are beginning the process of drafting reports, and beginning work on the assessment of potential impacts and mitigation measures for environmental features that have been identified. Please find enclosed a copy of our first Project newsletter, issued in December 2010.

The preliminary wind turbine layout for the GREP, which includes 69 wind turbines, has recently been released. We welcome your input on the layout. The map has been uploaded to the project website (www.samsungrenewableenergy.ca), and is also enclosed for your reference. This preliminary wind turbine layout has also recently been submitted to the Ministry of the Environment.

Information Request

We recognize that construction and operation of the GREP has the potential to affect the constitutionally protected aboriginal or treaty rights of your community. However, we do not presently have information from your community regarding how these rights may be affected by project activities, and we would welcome the

January 7, 2011
Chief Allen MacNaughton
Page 2 of 2

**Reference: Grand Renewable Energy Park
Renewable Energy Approval – Project Update and Information Request**

opportunity to understand how aboriginal rights are exercised in the project area (e.g. areas used for traditional activities by your community) so that we may work together and share information on how best to mitigate any potential impacts that may be identified.

As outlined in subsection 17.1.4 of O.Reg. 359/09, we would like to request that you provide, in writing, any information that, in your community's opinion, should be considered in preparing the REA reports for the project, and in particular, any information your community may have about any adverse impacts the GREP may have on constitutionally protected aboriginal or treaty rights and any measures for mitigating those adverse impacts.

Enclosed is a copy of the draft Project Description Report (Version 2) that has been prepared for the GREP. We have attempted to send this project material to you previously, but have not received confirmation from Canada Post that you received the documents. We sincerely hope that this information will provide the project background you may need to help identify for us the information we have requested. However, should you require additional information about the GREP, please let us know.

Closure

Samsung and Pattern continue to be very interested in meeting with the Haudenosaunee Confederacy Chiefs Council, and are available to meet at a location and time of your convenience.

In the event that you have any questions or concerns, please do not hesitate to contact Kara Hearne at Stantec via phone (519-836-6050) or email (kara.hearne@stantec.com). We look forward to working with you throughout the development of this renewable energy initiative.

Sincerely,

STANTEC CONSULTING LTD.



Rob Nadolny
Senior Project Manager
Tel: (519) 836-6050
Fax: (519) 836-2493
rob.nadolny@stantec.com

Attachments: GREP Newsletter – Volume 1 (December 2010)
Preliminary Wind Turbine Layout Map
Draft Project Description Report (Version 2)

cc. Kara Hearne, Stantec
Hazel Hill, Interim Director, Haudenosaunee Development Institute
Adam Rosso, Samsung
Hagen Lee, Samsung
Marnie Dawson, Samsung
GY Yoo, Samsung

January 20, 2011

Haudenosaunee Development Institute
Six Nations of the Grand River Territory
Suite 417-16 Sunrise Court, P.O. Box 714
Ohsweken, ON N0A 1M0

Attention: Hazel Hill, Interim Director

Reference: Grand Renewable Energy Park

Dear Ms. Hill:

As you are aware, Samsung Renewable Energy Inc. (Samsung) and Pattern Energy (Pattern) are proposing to develop the Grand Renewable Energy Park (GREP), a combined wind and solar generation project, within Haldimand County, Ontario.

We continue to be committed to discussing the GREP with the Haudenosaunee Confederacy Chiefs Council (HCCC) through the Haudenosaunee Development Institute (HDI).

While we are not prepared to complete the HDI application form or to pay the application fee, we are amenable to considering capacity funding so that the HCCC can participate in the discussions in a meaningful way. Therefore, we are prepared to consider and review an application from the HDI for capacity funding in order to facilitate the HCCC's participation in the Renewable Energy Approval (REA) process. If the intent of the application fee is for capacity funding to assist the HCCC in the review of the Project, please confirm this intent as Samsung would then be agreeable to paying the application fee.

We would still appreciate the opportunity to meet with the HCCC, to share information regarding the GREP and to ensure that we have a good understanding of the community's interests. We are available to meet with the HCCC at a location and time of their convenience.

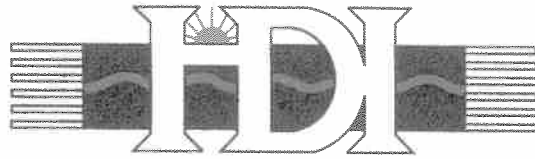
In the event that you have any questions, please contact Kara Hearne at Stantec via phone (519-836-6050) or email (kara.hearne@stantec.com). We look forward to working with you throughout the development of this renewable energy initiative.

Sincerely,

SAMSUNG RENEWABLE ENERGY INC.

Michael (GY) Yoo
General Manager

cc. Kara Hearne, Stantec
Chief Allen MacNaughton
Hagen Lee, Samsung
Marnie Dawson, Samsung
Adam Rosso, Samsung



RECEIVED
FEB 15 2011

Haudenosaunee Development Institute

February 10, 2011

Mr. Michael Yoo
General Manager
Samsung C&T
Samsung Renewable Energy Inc
55 Standish Court
Mississauga, Ontario
L5R 4B2

Dear Mr. Yoo:

Re: Grand Renewable Energy Park ('GREP')
Our File No: 030-007

Thank you for your most recent correspondence of January 20, 2011.

The Haudenosaunee remain committed to discussing the GREP with representatives of Samsung Renewable Energy Inc. and are available to address any questions or concerns that you may have with respect to our application process. I can confirm that the HDI application fee is used to assist the Haudenosaunee in the review of development projects.

As you are aware, the Haudenosaunee have been in contact with several levels of the Federal and Provincial Crown in an attempt to help organize and establish a meaningful engagement process that upholds the honour of the Crown with respect to its obligations to consultation, accommodation and reconciliation.

In August 2010 we received correspondence from the Ministry of Infrastructure who advised of its intent to grant Samsung a license to enter upon lands in what it describes as 'specifically related to the South Cayuga Land Bank'. Can you please advise as to the status of this license?

Prior to our meeting we would also like an update from you and/or the Province of Ontario with respect to the consultation accommodation and reconciliation undertakings that have been completed to date.

OUR LAND, OUR LAW, OUR PEOPLE, OUR FUTURE

For your ease of reference, we can advise that the Six Nations Elected Band Council has no authority to undertake any commitments on behalf of the Haudenosaunee people further to the treaty relationship that is currently maintained by way of the Haudenosaunee Confederacy Chiefs Council.

On July 26, 2010 you advised that you were amenable to a meeting with the HDI and we would be pleased to meet. Please contact me at your convenience to arrange a time when you would be available to meet with us.

Yours truly,



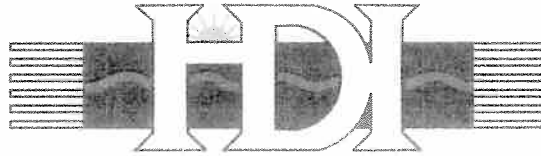
Hazel E. Hill
Interim Director
/heh

cc: Honorable Chris Bentley
Minister of Aboriginal Affairs

Honorable Brad Duguid
Minister of Energy

Honorable Bob Chiarelli
Minister of Infrastructure

Kara Hearne, Stantec ✓



RECEIVED

JUL 14 2009

Haudenosaunee Development Institute

July 11, 2011

Mr. Michael Yoo, General Manager
Samsung C&T
Samsung Renewabe Energy Inc
55 Standish Court
Mississauga, ON
L5R 4B2

Dear Mr. Yoo:

Re: Grand Renewable Energy Park ('GREP')
Our File No.: 030-007

To date we are awaiting a response to ours of February 10, 2011. As you are aware, we have a specific policy with respect to engagement and in particular with respect to Renewable Energy Act ('REA') projects.

This project is of significant concern as the proposed project area sits directly within areas of Haudenosaunee jurisdiction. We would once again invite Samsung to undertake a meaningful engagement process which will satisfy our regulatory process at the same time satisfy any obligations you may have under the Ontario REA process.

We are hereby providing you with notice that the HDI Archaeology representative will be attending and monitoring your proposed site to ensure compliance with all applicable regulatory standards pertaining to archaeology.

Yours truly,

Hazel E. Hill
Interim Director

cc: Honorable Chris Bentley
Minister of Aboriginal Affairs

Honorable Brad Duguid
Minister of Energy

Honorable Bob Chiarelli
Minister of Infrastructure

Kara Hearne
Stantec

OUR LAND, OUR LAW, OUR PEOPLE, OUR FUTURE



Stantec Consulting Ltd.
70 Southgate Drive Suite 1
Guelph ON N1G 4P5
Tel: (519) 836-6050
Fax: (519) 836-2493

Stantec

July 19, 2011
File: 160960577 / 161010624

Six Nations of the Grand River Haudenosaunee Confederacy Council
R.R. #2, P.O. Box 449
Ohsweken, ON N0A 1M0

Attention: Chief Allen MacNaughton

Reference: Grand Renewable Energy Park – Release of Draft Renewable Energy Approval Reports

Dear Chief MacNaughton:

Samsung C&T (Samsung), Pattern Energy (Pattern), and Korea Power Electric Corporation (KEPCO) (together, these companies referred to herein as “SPK”) are proposing to develop, construct, and operate a wind and solar energy project as part of the Grand Renewable Energy Park (GREP), in Haldimand County. SPK is planning to engage in this renewable energy project in respect of which the issuance of Renewable Energy Approvals (REA) is required. The proposal to engage in the project and the project itself are subject to the provisions of the *Environmental Protection Act (ACT)* Part V.0.1 and Ontario Regulation 359/09 (O. Reg. 359/09).

On behalf of SPK, Stantec is pleased to provide you with a copy of the Draft REA Reports for your review and comment. As required under O. Reg. 359/09 and the Ministry of Natural Resources (MNR) *Approval and Permitting Requirements Document (APRD) for Renewable Energy Projects*, this Draft REA Reports package includes the following draft reports:

- Project Description Report – as outlined in item 10 of Table 1 of O. Reg. 359/09;
- Natural Heritage Assessment Report – as required under sections 24, 25, 26, 27 and 28 of O. Reg. 359/09 and section 6.3 of the MNR’s Requirements Document;
- Construction Plan Report – as outlined in item 1 of Table 1 of O. Reg. 359/09 and section 6.7 of the MNR’s Requirements Document;
- Design and Operations Report – as outlined in item 4 of Table 1 of O. Reg. 359/09 and section 6.6 of the MNR’s Requirements Document;
- Decommissioning Plan Report – as outlined in item 3 of Table 1 of O. Reg. 359/09 and section 6.8 of the MNR’s Requirements Document;
- Environmental Impact Study – as required under section 38 of O. Reg. 359/09;
- Wind Turbine Specifications Report – as outlined in item 13 of Table 1 of O. Reg. 359/09;
- Archaeological and Heritage Reports - as required under sections 19, 20, 21, 22 and 23 of O.Reg. 359/09;
- Water Body and Water Assessment Report - as required under sections 29, 30 and 31 of O. Reg. 359/09. Further information related to potential effects and mitigation measures to water bodies, as required under sections 39, 40, 44, and 45 of O. Reg. 359/09 is provided in the Water Body and Water Assessment Report, Construction Plan Report and Design and Operations Report; and,

July 19, 2011

Attention: Chief Allen MacNaughton

Page 2 of 2

Reference: Grand Renewable Energy Park – Release of Draft Renewable Energy Approval Reports

- Project Summary Report – as outlined in section 17. (1)3 of O. Reg. 359/09. The Draft Project Summary Report provides a summary of the potential environmental effects including those which the Project may have on constitutionally protected Aboriginal or treaty rights.

The attached Notice of Public Meeting will be published in local newspapers within Haldimand County the week of July 20th. Please let us know if you would also like a copy of the Notice to be published in a newspaper within your community.

The MOE has identified your community as potentially having constitutionally protected aboriginal or treaty rights that may be adversely impacted by the GREP. However, we do not presently have information from your community regarding how these rights may be affected by project activities. We continue to welcome the opportunity to understand how aboriginal rights are exercised in the project area (e.g. areas used for traditional activities by your community) so that we may work together and share information on how best to mitigate any potential impacts that may be identified.

We would like to request that you provide, in writing, any information that, in your community's opinion, should be considered in preparing the final version of the REA reports for the project, and in particular, any information your community may have about any adverse impacts the GREP may have on constitutionally protected aboriginal or treaty rights and any measures for mitigating those adverse impacts. We respectfully request any information/comments you may have by no later than September 22, 2011 so that the information can be considered during project planning and preparation of the final versions of the REA reports. The project team welcomes comments after this date, however only comments received by September 22, 2011 will be included in the Project's Consultation Report that will be submitted as part of the project's REA application.

We also respectfully request that these reports be made available to your community members. Given the size of the enclosed reports, we have not included an additional hard copy in an effort to conserve paper. However, we would be happy to send additional hard copies or electronic copies if needed; please let us know.

In the event that you have any questions or concerns, please do not hesitate to contact Kara Hearne at Stantec via phone (519-836-6050) or email (kara.hearne@stantec.com). We look forward to working with you throughout the development of this renewable energy initiative.

Sincerely,

STANTEC CONSULTING LTD.



Rob Nadolny

Senior Project Manager

Tel: (519) 836-6050

Fax: (519) 836-2493

Rob.nadolny@stantec.com

Attachment: Draft REA Reports package
Notice of Public Meeting



Stantec Consulting Ltd.
70 Southgate Drive Suite 1
Guelph ON N1G 4P5
Tel: (519) 836-6050
Fax: (519) 836-2493

Stantec

July 19, 2011
File: 160960577 / 161010624

Haudenosaunee Development Institute
16 Sunrise Court, Suite 417, P.O. Box 714
Ohsweken, ON N0A 1M0

Attention: Ms. Hazel Hill, Interim Director

Reference: Grand Renewable Energy Park – Release of Draft Renewable Energy Approval Reports

Dear Ms. Hill:

Samsung C&T (Samsung), Pattern Energy (Pattern), and Korea Power Electric Corporation (KEPCO) (together, these companies referred to herein as “SPK”) are proposing to develop, construct, and operate a wind and solar energy project as part of the Grand Renewable Energy Park (GREP), in Haldimand County. SPK is planning to engage in this renewable energy project in respect of which the issuance of Renewable Energy Approvals (REA) is required. The proposal to engage in the project and the project itself are subject to the provisions of the *Environmental Protection Act (ACT)* Part V.0.1 and Ontario Regulation 359/09 (O. Reg. 359/09).

On behalf of SPK, Stantec is pleased to provide you with a copy of the Draft REA Reports for your review and comment. As required under O. Reg. 359/09 and the Ministry of Natural Resources (MNR) *Approval and Permitting Requirements Document (APRD) for Renewable Energy Projects*, this Draft REA Reports package includes the following draft reports:

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- Design and Operations Report – as outlined in item 4 of Table 1 of O. Reg. 359/09 and section 6.6 of the MNR’s Requirements Document;
- Decommissioning Plan Report – as outlined in item 3 of Table 1 of O. Reg. 359/09 and section 6.8 of the MNR’s Requirements Document;
- Environmental Impact Study – as required under section 38 of O. Reg. 359/09;
- Wind Turbine Specifications Report – as outlined in item 13 of Table 1 of O. Reg. 359/09;
- Archaeological and Heritage Reports - as required under sections 19, 20, 21, 22 and 23 of O.Reg. 359/09;
- Water Body and Water Assessment Report - as required under sections 29, 30 and 31 of O. Reg. 359/09. Further information related to potential effects and mitigation measures to water bodies, as required under sections 39, 40, 44, and 45 of O. Reg. 359/09 is provided in the Water Body and Water Assessment Report, Construction Plan Report and Design and Operations Report; and,
- Project Summary Report – as outlined in section 17. (1)3 of O. Reg. 359/09. The Draft Project Summary Report provides a summary of the potential environmental effects including those which the Project may have on constitutionally protected Aboriginal or treaty rights.

July 19, 2011

Attention: Ms. Hazel Hill, Interim Director

Page 2 of 2

Reference: Grand Renewable Energy Park – Release of Draft Renewable Energy Approval Reports

The attached Notice of Public Meeting will be published in local newspapers within Haldimand County the week of July 20th. Please let us know if you would also like a copy of the Notice to be published in a newspaper within your community.

The MOE has identified your community as potentially having constitutionally protected aboriginal or treaty rights that may be adversely impacted by the GREP. However, we do not presently have information from your community regarding how these rights may be affected by project activities. We continue to welcome the opportunity to understand how aboriginal rights are exercised in the project area (e.g. areas used for traditional activities by your community) so that we may work together and share information on how best to mitigate any potential impacts that may be identified.

We would like to request that you provide, in writing, any information that, in your community's opinion, should be considered in preparing the final version of the REA reports for the project, and in particular, any information your community may have about any adverse impacts the GREP may have on constitutionally protected aboriginal or treaty rights and any measures for mitigating those adverse impacts. We respectfully request any information/comments you may have by no later than September 22, 2011 so that the information can be considered during project planning and preparation of the final versions of the REA reports. The project team welcomes comments after this date, however only comments received by September 22, 2011 will be included in the Project's Consultation Report that will be submitted as part of the project's REA application.

We also respectfully request that these reports be made available to your community members. Given the size of the enclosed reports, we have not included an additional hard copy in an effort to conserve paper. However, we would be happy to send additional hard copies or electronic copies if needed; please let us know.

In the event that you have any questions or concerns, please do not hesitate to contact Kara Hearne at Stantec via phone (519-836-6050) or email (kara.hearne@stantec.com). We look forward to working with you throughout the development of this renewable energy initiative.

Sincerely,

STANTEC CONSULTING LTD.



Rob Nadolny

Senior Project Manager

Tel: (519) 836-6050

Fax: (519) 836-2493

Rob.nadolny@stantec.com

cc. Chief Allen MacNaughton, Six Nations of the Grand River Haudenosaunee Confederacy Council

Attachment: Draft REA Reports package
Notice of Public Meeting

Friedl, Susanne

From: Hearne, Kara
Sent: Friday, July 22, 2011 3:34 PM
To: 'HDI'
Subject: Grand Renewable Energy Park

Good afternoon Hazel,

I would like to confirm that Samsung Renewable Energy has received your letter dated July 11, 2011. Samsung would be very pleased to meet with HDI regarding the Grand Renewable Energy Park.

I will be coordinating the meeting on behalf of Samsung. I am away on vacation next week but will touch base with you when I return so that we can coordinate and identify some potential meeting dates.

Have a great weekend.

Best regards,
Kara

Kara Hearne, B.Sc.
Project Manager - Assessment, Permitting & Compliance
Stantec
Suite 1 - 70 Southgate Drive
Guelph ON N1G 4P5
Ph: (519) 836-6050 Ext. 250
Fx: (519) 836-2493
kara.hearne@stantec.com
stantec.com

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 Please consider the environment before printing this email.



Haudenosaunee Development Institute

July 25, 2011

SENT BY EMAIL TO: nadolny@stantec.com

Rob Nadolny
Senior Project Manager
Stantec Consulting Ltd.
70 Southgate Drive Suite 1
Guelph, ON N1G 4P5

**Re: Grand Renewable Energy Park
Release of Draft Renewable Energy Approval Reports
Our File No: 030-007 Samsung**

Dear Mr. Nadolny:

I wish to confirm receipt of your letter of July 19, 2011, and the attached Draft Renewable Energy Approval Reports received in this office on July 20, 2011.

As you may be aware, we have attempted to initiate an engagement process with Samsung on a number of occasions, most recently, on July 11, 2011 when we sent Mr. Michael Yoo, General Manger for Samsung C&T ('Samsung') correspondence requesting a response to ours of February 10, 2011 regarding engagement on the Grand Renewable Energy Park ('Project').

To date we have not had a meaningful response to our attempts to ensure that Samsung undertakes any delegated procedural and or technical consultation in good faith.

While we are in receipt of email correspondence of July 22, 2011 from Ms. Kara Hearne (Stantec Project Manager), we do not have any indication that Stantec has been provided with the authority to act on behalf of Samsung (or the Province of Ontario) with respect to any procedural and/or technical engagement process. It would be of assistance if you could provide us with any documentation indicating your scope of authority with respect to this matter.

It would be of assistance if Samsung would provide us with any correspondence or documentation indicating that there has been a delegation of any procedural or technical aspects involved in upholding the Honour of the Crown and copies of any assessment of Haudenosaunee rights and interest which may have been undertaken by the Province of Ontario, Samsung and/or Stantec.

OUR LAND, OUR LAW, OUR PEOPLE, OUR FUTURE

Further, please advise whether the Project will be reviewed under the Renewable Energy Approval (REA) process. As it currently stands, we would take the position that Samsung (and/or Stantec on Samsung's behalf) have not the obligations required by the REA process.

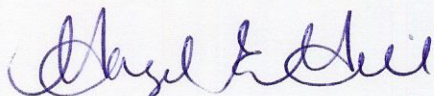
Our most recent concern deals with archaeology that may be progressing in relation to the Project, and in particular, the failure of Samsung and/or Stantec to ensure that authorized Haudenosaunee monitors are in place to supervise. We understand that Samsung and/or Stantec may be retaining private individuals to perform monitoring activities. The present monitors have not been authorized to undertake activities by way of any duly authorized Haudenosaunee body and in particular, they have not been authorized by the Haudenosaunee Development Institute, and therefore, are not qualified to ensure that Haudenosaunee policies and procedures are being respected.

We look forward to more discussions and input with respect to the process that has been undertaken to date with respect to archaeology monitoring, as there are serious questions to be addressed on behalf of the Six Nations community with respect to transparency and accountability.

We would also like to receive any "lists of aboriginal communities" that may have been provided to Samsung and/or Stantec by the Province of Ontario with respect any of the Project's regulatory obligations.

We look forward to hearing from you on these matters.

Sincerely,



Hazel E. Hill
Interim Director



Stantec Consulting Ltd.
70 Southgate Drive Suite 1
Guelph ON N1G 4P5
Tel: (519) 836-6050
Fax: (519) 836-2493

Stantec

September 2, 2011
File: 161010646/161010624

Haudenosaunee Development Institute
Six Nations of the Grand River Territory
Suite 417-16 Sunrise Court, P.O. Box 714
Ohsweken, ON N0A 1M0

Attention: Hazel Hill, Interim Director

Dear Ms. Hill:

Reference: Grand Renewable Energy Park

Thank you for your letter dated July 25, 2011 regarding the Grand Renewable Energy Park (GREP).

In your letter, you requested clarification regarding the role of Stantec Consulting Ltd. (Stantec) in terms of our ability to act on behalf of the project proponent, Samsung Renewable Energy (Samsung). Stantec was retained by Samsung to fulfill the regulatory requirements of the Renewable Energy Approval (REA) process, including requirements outlined in Section 17 of Ontario Regulation 359/09 (the REA Regulation) regarding consultation with Aboriginal communities. As requested, we have attached the list of Aboriginal communities we received from the Ministry of the Environment for the GREP.

Samsung would be pleased to attend a meeting with HDI regarding the GREP. As per the email correspondence sent on July 22, 2011 by Kara Hearne, Stantec is acting in an administrative capacity to schedule and coordinate the proposed meeting on behalf of Samsung representatives. Should you wish to meet with Samsung, please contact Kara directly for scheduling.

Through the use of archaeological monitors during Stage 2 and 3 Archaeological surveys, Samsung has sincerely attempted to respect the interests of the Six Nations community. They have undergone significant effort to ensure that Six Nations monitors have been involved in the assessments. In doing so, multiple archaeological monitors from the community have been employed to work on both Stage 2 and 3 assessments. Samsung and the project team would be happy to further discuss the use of archaeological monitors for the ongoing archaeological work during the meeting referred to above.

Yours Sincerely,

STANTEC CONSULTING LTD.

Rob Nadolny
Senior Project Manager
Tel: (519) 836-6050
Fax: (519) 836-2493
rob.nadolny@stantec.com

Attachment: Ministry of the Environment list of Aboriginal Communities

cc. Chief Allen MacNaughton, Haudenosaunee Confederacy Council
GY Yoo, Samsung
Adam Rosso, Samsung
Hagen Lee, Samsung

Ministry of the Environment

Environmental Assessment and
Approvals Branch

2 St. Clair Avenue West
Floor 12A
Toronto ON M4V 1L5
Tel.: 416 314-8001
Fax: 416 314-8452

Ministère de l'Environnement

Direction des évaluations et des
autorisations environnementales

2, avenue St. Clair Ouest
Étage 12A
Toronto ON M4V 1L5
Tél. : 416 314-8001
Télééc. : 416 314-8452



September 23, 2010

MOE File #: WC-10-WSF-0049

Mr. Adam Rosso
Samsung Renewable Energy Inc.
55 Standish Court
Mississauga ON L5R 4B2

Dear Mr. Rosso:

RE: Director's Aboriginal Communities List - Grand Renewable Energy Park

The Ontario Ministry of the Environment (Ministry) has reviewed the information provided in the *Draft of the Project Description Report (PDR)* received for the *Grand Renewable Energy Park*. The Ministry has reviewed the anticipated environmental effects of the project (as described in the PDR) relative to its current understanding of the interests of aboriginal communities in the area.

In accordance with section 14 of Ontario Regulation 359/09 "Renewable Energy Approvals under Part V.0.1 of the Act" (O. Reg. 359/09) made under the *Environmental Protection Act*, please find below the list of aboriginal communities who, in the opinion of the Director:

i) have or may have constitutionally protected aboriginal or treaty rights that may be adversely impacted by the project (s.14(b)(i)):

Aboriginal Community
Common Name:
Reserve Name:
Contact Information:
Six Nations of the Grand River Six Nations (Part) 40 PO BOX 5000 Ohsweken ON N0A 1M0 Phone (519) 445-2201 Fax (519) 445-4208
Six Nations of the Grand River Haudenosaunee Confederacy Council RR2 Oshwken ON NOA 1MO Phone (519) 755-2769

Mississaugas of the Credit First Nation Mississaugas of the New Credit New Credit (Part) 40A RR 6 Hagersville ON N0A 1H0 Phone (905) 768-1133 Fax (905) 768-1225
Oneida Nation of the Thames Oneida 41 RR 2 Southwold ON N0L 2G0 Phone (519) 652-3244 Fax (519) 652-9287
Wahta Mohawks Wahta Mohawk Territory PO BOX 260 Bala ON P0C 1A0 Phone (705) 762-2354 Fax (705) 762-5744
Mohawks of the Bay of Quinte Tyendinaga Mohawks Tyendinaga Mohawk Territory RR 1 Deseronto ON K0K 1X0 Phone (613) 396-3424 Fax (613) 396-3627
Mohawks of Akwesasne Akwesasne (Part) 59 PO BOX 579 Cornwall ON K6H 5T3 Phone (613) 575-2250 Fax (613) 575-2181

OR

ii) otherwise may be interested in any negative environmental effects of the project (s.14(b)(ii)):

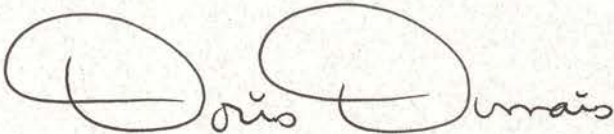
Aboriginal Community Common Name: Reserve Name: Contact Information:
Grand River Métis Council 76 Buttonwood Drive Kitchener ON N2M 4R1

Métis Nation of Ontario
Consultation Unit
500 Old St. Patrick St, Unit 3
Ottawa ON K1N 9G4

NOTE: None of the foregoing should be taken to imply approval of this project or the contents of the PDR. This letter only addresses the requirement of the Director to provide a list of aboriginal communities to you as required pursuant to section 14 of O. Reg. 359/09. You should also be aware that information upon which the above list of aboriginal communities is based is subject to change. Aboriginal communities can make assertions at any time, and other developments, for example the discovery of Aboriginal archaeological resources, can occur that may require additional aboriginal communities to be notified. Should this happen, the Ministry will contact you. Similarly, if you receive any feedback from any aboriginal communities not included in this list, as part of your consultation, the Ministry would appreciate being notified.

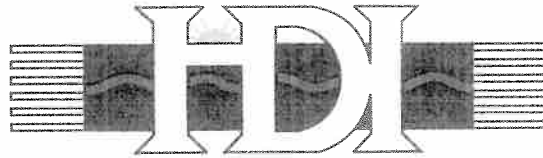
Please contact Narren Santos at (416) 314-8442 should you have any questions or require additional information.

Sincerely,



Doris Dumais
Director
Environmental Assessment Approvals Branch
Ministry of Environment

cc: Mansoor Mahmood, Renewable Energy Team, Ministry of the Environment
Joe de Laronde, Aboriginal Affairs Branch, Ministry of the Environment



RECEIVED
SEP * 6 2011

Haudenosaunee Development Institute

September 13, 2011

Mr. Michael Yoo, General Manager
Samsung C&T
Samsung Renewabe Energy Inc
55 Standish Court
Mississauga, ON
L5R 4B2

Re: Grand Renewable Energy Park ('GREP')
Our File No.: 030-007

We are in receipt of correspondence dated September 2, 2011 from Mr. Rob Nadolny of Stantec Consulting Ltd., indicating that Samsung is prepared to meet to discuss an engagement process for the GREP. Mr. Nadolny indicates that Samsung has delegated Stantec to "fulfill its regulatory requirements of the Renewable Energy Approval ('REA') process, including requirements outlined in Section 17 of Ontario Regulation 359/09 (the REA Regulation) regarding consultation with Aboriginal communities."

We can advise that we have been attempting to engage Samsung in a good faith meaningful process since at least September 2009 by way of correspondence to Mr. Hagen Lee. To date we have not had a favourable response to our simple request to enter into a good faith and binding engagement process.

We can advise that the current process fails to set out an approach which honours the Supreme Court of Canada's distinction between procedural and/or technical consultation and substantive consultation. Where the *prima facie* assessment has occurred, we agree that technical and/or procedural aspects of consultation may be delegated to third parties, however this necessarily implies that the substantive aspect of consultation must be undertaken by the Crown actor, in this case the Ministry of Energy and Infrastructure ('MEI').

We have received no indication and/or notice that MEI has delegated any procedural or technical aspects of consultation with respect to the asserted rights of the Haudenosaunee. We have also received no policy procedures, standards or guidelines that would deal with the delegation and which would guide HDI throughout the technical or procedural consultation process. We have also received no policy procedure, guidelines or standards that would assist or guide HDI of understanding how MEI is going to determine how and when procedural and/or technical consultation is adequate or sufficient.

OUR LAND, OUR LAW, OUR PEOPLE, OUR FUTURE

The approach taken to date leaves the HDI (and third party proponents) in the situation where they are left to somehow uphold the Honour of the Crown without Crown participation of any kind.

The Supreme Court of Canada has also stated that the obligation to accommodate rests solely with the Crown and cannot be delegated.

Upon review of this file, it would appear that you and/or your consultants are oblivious to the historical facts and obligations of the Crown in relation to Haudenosaunee rights and interest in that are of land which the GREP is infringing upon. What part of its our frickin land don't you understand?

One could conclude that Stantec, Samsung and/or the Province of Ontario in right of the Crown is attempting to unilaterally dictate where and how engagement will occur on the GREP. This approach, from our perspective, runs contrary to the *United Nations Declaration on the Rights of Indigenous People* which very clearly states at Articles 32, paragraph 2 that the Province of Ontario must respect the right of the Haudenosaunee to determine which body will undertake the process of granting free prior and informed consent.

Article 32

1. Indigenous peoples have the right to determine and develop priorities and strategies for the development or use of their lands or territories and other resources.
2. **States shall consult and cooperate in good faith with the indigenous peoples concerned through their own representative institutions in order to obtain their free and informed consent prior to the approval of any project affecting their lands or territories and other resources, particularly in connection with the development, utilization or exploitation of mineral, water or other resources.**
3. States shall provide effective mechanisms for just and fair redress for any such activities, and appropriate measures shall be taken to mitigate adverse environmental, economic, social, cultural or spiritual impact.

The September 2, 2011 correspondence from Mr. Nadolny appears to ignore the fact that the HDI has consistently advised of its process for engagement which includes making an application and providing an application fee so that we may begin the process of hiring consultants to review the numerous binders and reports that have been submitted without consideration of the fact that the HDI does not have the necessary resources to undertake any meaningful review of the GREP. We can again advise that the application fee will provide us with the opportunity to retain the necessary experts to commence the technical review of the project and consult internally to determine substantive rights and interests.

Once again we would ask if Samsung is prepared to enter into a good faith and meaningful engagement process by way of the HDI Engagement process, which has once again been attached for your ease of reference.

We look forward to hearing from you.

Yours truly,

A handwritten signature in cursive script, appearing to read "Hazel E. Hill".

Hazel E. Hill
Interim Director

cc: Haudenosaunee Confederacy Chiefs Council
Ministry of Energy & Infrastructure
Ontario Energy Board
Ministry of Aboriginal Affairs
Stantec

Appendix H3

Correspondence with the Mississaugas of the New Credit First Nation



Stantec

CONTACT RECORD

NAME(S):	Margaret Sault Director of Lands, Membership, and Research	PROJECT NO.:	160960577 / 161010624
TELEPHONE:	(905) 768-0100	REPRESENTING:	Mississaugas of the New Credit First Nation
RE:	GREP: Introductory Meeting	DATE/TIME:	May 20, 2010 / 9:30 am
		RECORDED BY:	Kara Hearne

CALL RECEIVED

CALL PLACED

MEETING

NOTES:

- I called Margaret to set up an introductory meeting with Samsung and the Mississaugas of the New Credit to share information about Samsung, the project, and possible interests in the project.
- Margaret Sault is the first point of contact for setting up this meeting.
- The Mississaugas of the New Credit have been waiting to hear from Samsung; Council is very interested in meeting.
- A first meeting with Chief and Council will include them providing an overview of their history, introductions, and talk about some of the factors that they'll be looking at.
- Margaret provided some possible dates for the meeting; her and I will coordinate with other's schedules.

Friedl, Susanne

Subject: FW: Meeting - MNCFN and Samsung

From: Hearne, Kara
Sent: Thursday, May 27, 2010 11:24 AM
To: 'Margaret Sault'
Subject: RE: Meeting - MNCFN and Samsung

Hi Margaret,

We'll officially book June 16 at 1:30 pm for the meeting with MNCFN and Samsung, thank you very much for your reply. There will be 4 representatives from Samsung, and 2 from Stantec, attending the meeting. Would you like us to draft an agenda for the meeting, and send it to you for comments?

Regards,
Kara



Stantec

Stantec Consulting Ltd.
Suite 1 - 70 Southgate Drive
Guelph ON N1G 4P5
Tel: (519) 836-6050
Fax: (519) 836-2493

June 4, 2010
File: 160960577 / 161010624

Mississaugas of the New Credit First Nation
8545 Townline Road, RR #1
Hagersville, ON N0A 1H0

Attention Chief M. Bryan LaForme:

**Reference: Grand Renewable Energy Park
Draft Project Description and Notice to Engage/Public Open House**

Dear Chief LaForme:

On behalf of Samsung Renewable Energy Inc. (Samsung), please find enclosed the Draft Project Description and Notice to Engage/Public Open House for the proposed Grand Renewable Energy Park to be located within Haldimand County, Ontario. If approved, the wind aspect of the Project would have a nameplate capacity of 140 MW and consist of approximately 63 wind turbines (depending upon the turbine make and model). The solar aspect of the Project would have a nameplate capacity of 100 MW and consist of approximately 700 acres of land. Both aspects of the Project would also include electrical collection lines, a 30 km transmission line, substation, and other ancillary facilities such as access roads.

The Draft Project Description Report provides a summary of the Project as required by Ontario Regulation 359/09 - Renewable Energy Approvals under Part V.0.1 of the Act of the *Environmental Protection Act* ("the Regulation").

The Notice to Engage/Public Open House will be published in local newspapers within Haldimand County the week of June 7th. Please let us know if you would also like a copy of the Notice to be published in a newspaper within your community.

In the event that you have any questions or concerns, please do not hesitate to contact Kara Hearne at Stantec via phone (519-836-6050) or email (kara.hearne@stantec.com). We look forward to working with you throughout the development of this renewable energy initiative and look forward to meeting with you on June 16, 2010.

Sincerely,

STANTEC CONSULTING LTD.

Rob Nadolny
Senior Project Manager
Tel: (519) 836-6050
Fax: (519) 836-2493
Rob.nadolny@stantec.com

Attachment: Draft Project Description and Notice to Engage/Public Open House

CC. Adam Rosso, Samsung Renewable Energy Inc.
CC. Margaret Sault, Mississaugas of the New Credit First Nation

Meeting Notes



Stantec

Grand Renewable Energy Park

FILE 160960577

Date/Time: June 16, 2010 / 1:30 PM
Place: Mississaugas of the New Credit First Nation Reserve
Attendees: Mississaugas of the New Credit First Nation (MNCFN) – Chief M. Bryan LaForme, Stace LaForme, Clynt King, Jason Haskett, Margaret Sault
Willms & Shier LLP – Juli Abouchar
Samsung – Hagen Lee, Adam Rosso, Mike Henderson
Stantec – Peter Prier, Kara Hearne
Distribution: Samsung, Stantec

Item:

Action:

Overview of MNCFN History and Lands

Attendees watched a video called “Sacred Trust” which provided an overview of MNCFN history and land claims. MNCFN provided Samsung and Stantec each a copy of the video.

MNCFN provided a map of their traditional lands, an information booklet called “Mississaugas of the New Credit Past & Present”, and an information booklet called “Toronto Purchase Specific Claim: Arriving at an Agreement”.

MNCFN provided an overview of the Toronto Purchase land claim, which has recently been settled.

MNCFN provided an overview of the history of the land, including land surrenders, and how MNCFN came to be on their current reserve.

Duty to Consult and Accommodate

MNCFN is hoping to develop a consultation protocol (or can be called a letter of intent or memorandum of understanding) that will outline how MNCFN will participate in the project and what the potential benefits to the community are.

MNCFN provided a handout “List of factors (but not limited to) for consideration in Protocol Agreement with the MNCFN”. The handout identified a list of items regarding which the MNCFN would want to consult/engage. It also contained a list of items that could be contained in an agreement.

Samsung asked if the MNCFN could provide any information on how they perceive Samsung should manage relationships with First Nations, given that the project is located in the Haldimand Tract. MNCFN explained that they expect to be involved in consultation and agreements, and any revenue sharing. Willms & Shier clarified that engagement of the MNCFN is a parallel but separate process to engagement of Six Nations.

MNCFN noted that the government does not provide capacity funding for aboriginal communities to participate in consultation.

Willms & Shier noted that the Renewable Energy Approval requirements are very basic. Samsung was asked if they would enter into a protocol where MNCFN can participate and get capacity.

Project Overview

Stantec provided study area maps for the project, showing the wind turbine and solar siting area, and the transmission line siting area. A high level overview of the project was provided by Samsung.

MNCFN had questions about Samsung providing access to the land for hunting wild turkey. Samsung answered that for the solar farm, no access will be permitted – by law, solar farms must be fenced and no public access permitted for safety reasons.

MNCFN asked if there were opportunities to have manufacturing on First Nation land. Samsung answered that the manufacturing plants will be located in areas that make most sense economically, and there are approximately 30 municipalities in discussions for locating the plants. Another Samsung team is responsible for these decisions.

Samsung noted that there will be many jobs available locally during construction and operation. There was a general discussion regarding the types of jobs that would be available, requirements for solar installers, and yearly numbers of graduating post-secondary students from reserve.

MNCFN mentioned that TransCanada had provided them, for their Career Fair, a list of the potential jobs available, and listed the skill sets required to obtain these jobs. A similar list from Samsung would be very helpful to the MNCFN; they can provide students with this information to prepare them for positions that will soon be available.

Next Steps

A letter of intent / memorandum of understanding should be prepared and agreed upon soon to be able to begin consultation on the project.

ACTION: *Samsung to draft expectations for the consultation process, and benefits to the community, and provide to MNCFN.*

The meeting adjourned at 3:30 PM.

The foregoing is considered to be a true and accurate record of all items discussed. If any discrepancies or inconsistencies are noted, please contact the writer immediately.

STANTEC CONSULTING LTD.

Kara Hearne, B.Sc.
Project Manager
kara.hearne@stantec.com

Friedl, Susanne

From: Margaret Sault <Margaret.Sault@newcreditfirstnation.com>
Sent: Thursday, June 17, 2010 4:30 PM
To: Hearne, Kara
Subject: meeting on June 16 with Mississaugas of the Credit
Attachments: Samsung letter_330937 (1).DOC

Hi Kara: It was nice to meet you and your colleagues. I feel it was a good meeting with introductions being made and discussing items of mutual concern. attached is a letter of request from New Credit.

Margaret Sault



Stantec Consulting Ltd.
Suite 1 - 70 Southgate Drive
Guelph ON N1G 4P5
Tel: (519) 836-6050
Fax: (519) 836-2493

Stantec

June 24, 2010
File: 160960577 / 161010624

Mississaugas of the New Credit First Nation
8545 Townline Road, RR #1
Hagersville, ON N0A 1H0

Attention Chief M. Bryan LaForme:

**Reference: Grand Renewable Energy Park
Draft Project Description – Version 2**

Dear Chief LaForme:

On behalf of Samsung Renewable Energy Inc. (Samsung), please find enclosed the Draft Project Description – Version 2 for the proposed Grand Renewable Energy Park to be located within Haldimand County, Ontario. Draft Project Description Report - Version 2 has been updated to include additional information related to Project setbacks and the identification of potential environmental effects.

If approved, the wind aspect of the Project would have a nameplate capacity of 140 MW and consist of approximately 63 wind turbines (depending upon the turbine make and model). The solar aspect of the Project would have a nameplate capacity of 100 MW and consist of approximately 700 acres of land. Both aspects of the Project would also include electrical collection lines, a 30 km transmission line, substation, and other ancillary facilities such as access roads.

In the event that you have any questions or concerns, please do not hesitate to contact Kara Hearne at Stantec via phone (519-836-6050) or email (kara.hearne@stantec.com). We look forward to working with you throughout the development of this renewable energy initiative.

Sincerely,

STANTEC CONSULTING LTD.

Rob Nadolny
Senior Project Manager
Tel: (519) 836-6050
Fax: (519) 836-2493
Rob.nadolny@stantec.com

Attachment: Draft Project Description – Version 2

CC. Adam Rosso, Samsung Renewable Energy Inc.
CC. Margaret Sault, Mississaugas of the New Credit First Nation

Friedl, Susanne

From: Hagen Lee <hklee@sai.samsung.com>
Sent: Monday, June 28, 2010 6:46 PM
To: bryanlaforme@newcreditfirstnation.com
Cc: GunYoung Yoo; Adam Rosso; Hearne, Kara; Ing, Pearl (MEI); Zohrab Mawani; Michael Henderson; danielchoi@samsung.com; sangwun.lee@samsung.com
Subject: Samsung Letter to Mississaugas of New Credit
Attachments: MNCFNPublicInfoSessionLetter062910.pdf; MNCFNFieldwordInvite062910.pdf; 60960577_NTE_POH_Notice_20100601_CEW.pdf; image001.jpg

Dear Chief M. Bryan LaForme,

Please find attached letters addressed to you on behalf of Samsung.

(One letter regarding Mississaugas of the New Credit First Nation Community Info Session, another letter inviting up to two members of Mississaugas of the New Credit First Nation to join the field study crew, and Notice to Engage Public Open House Notice)

Hard copies will arrive via ground mail.

I wanted to CC members of your council, but did not receive business cards at our last meeting.

Thank you.



Hagen Lee
Manager, Business Development &
Government Relations
T: 905.817.6496
C: 416.450.0351 (Canada)
C: 646.354.0797 (US)
E: hklee@sai.samsung.com

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Friedl, Susanne

From: Margaret Sault <Margaret.Sault@newcreditfirstnation.com>
Sent: Friday, July 02, 2010 8:29 AM
To: Hagen Lee; Bryan LaForme
Cc: Hearne, Kara; Prier, Peter; GunYoung Yoo; Adam Rosso; Michael Henderson; leejt@samsung.com; sangwun.lee@samsung.com; danielchoi@samsung.com; Zohrab Mawani
Subject: RE: info session Samsung
Attachments: image001.jpg

The Chief is away, but that is too soon and I am away for 2 months, so we will have to look at another time. Thanks

From: Hagen Lee [mailto:hklee@sai.samsung.com]
Sent: Wednesday, June 30, 2010 5:17 PM
To: Bryan LaForme; Margaret Sault
Cc: Hearne, Kara; Prier, Peter; GunYoung Yoo; Adam Rosso; Michael Henderson; leejt@samsung.com; sangwun.lee@samsung.com; danielchoi@samsung.com; Zohrab Mawani
Subject: info session Samsung

Good afternoon Chief LaForme,

Could you please advise if you would like us to hold a Community Information Session on reserve prior to our July 8 Public Open House? We need to start planning immediately if you would like us to hold this event.

Thank you.



Hagen Lee
Manager, Business Development &
Government Relations
T: 905.817.6496
C: 416.450.0351 (Canada)
C: 646.354.0797 (US)
E: hklee@sai.samsung.com

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Stantec

CONTACT RECORD

NAME(S):	<u>Carolyn King</u>	PROJECT NO.:	<u>160960577 / 161010624</u>
		REPRESENTING:	<u>MNCFN</u>
TELEPHONE:	<u>(905) 768-0100</u>	DATE/TIME:	<u>05 July 2010 / 11:30am</u>
RE:	<u>Field work opportunity</u>	RECORDED BY:	<u>Kara Hearne</u>

CALL RECEIVED

CALL PLACED

MEETING

NOTES:

- Left voicemail.
- Carolyn is working at Margaret Sault's office; Margaret is away on leave.
- Looking to gather some information to give Council regarding letters sent regarding the July 8 meeting and the other letter to have 2 people working.
- Wondering how long the work would be for and what kind of qualifications are we looking for.



Stantec

CONTACT RECORD

NAME(S):	<u>Carolyn King</u>	PROJECT NO.:	<u>160960577 / 161010624</u>
		REPRESENTING:	<u>MNCFN</u>
TELEPHONE:	<u>(905) 768-0100</u>	DATE/TIME:	<u>06 July 2010 / 4:30pm</u>
RE:	<u>Field work opportunity</u>	RECORDED BY:	<u>Kara Hearne</u>

CALL RECEIVED

CALL PLACED

MEETING

NOTES:

- Carolyn asked if the opportunity to do site work is still available. I told her that the opportunity is definitely still available.
- I explained that the work would be accompanying the field crews for the Stage II archaeology surveys, and terrestrial/aquatic surveys.
- The timelines for when these surveys will be done are not finalized yet; we expect the archaeology would be done late July / early August, and the natural heritage studies in late August.
- Carolyn asked how long the work would be for. I told her that it's likely to be a couple days to a week of work.
- Carolyn said that they have students who did not get summer employment yet that may be interested, and asked if there was an age limit for the workers.
- I asked her if it would be possible for the workers to possibly be employed by Stantec on an hourly basis; this may be the easiest way in terms of insurance, agreements, etc. Carolyn didn't see a problem with that.
- I will check to see if Stantec has an age limit on hiring, and get back to Carolyn.

Friedl, Susanne

Subject: FW: Public Open House: follow up with Mississaugas of the New Credit

From: Hearne, Kara [mailto:kara.hearne@stantec.com]
Sent: Wednesday, July 14, 2010 9:45 AM
To: Margaret Sault
Cc: Bryan LaForme; Hagen Lee; Adam Rosso; GunYoung Yoo; Prier, Peter
Subject: Public Open House: follow up with Mississaugas of the New Credit

Hi Carolyn,

I want to thank you again for coming to our first Public Open House for the Grand Renewable Energy Park last Thursday evening. Again, I'm so sorry that I missed the chance to meet you in person!

I have loaded the display boards that were presented at the Public Open House to an FTP site for your convenience (instructions below). Please let me know if you have any technical difficulties accessing the files.

Please let me know if you have any questions, and if you could let me know when your email address is once it's set up and working, it would be much appreciated.

Kind regards,
Kara

Instructions for accessing FTP site:

Automatic Login

FTP site link: <ftp://s0727062322:8167997@ftptmp.stantec.com>

By clicking on the link above (or pasting the link into Windows Explorer) you will be automatically logged into your FTP site.

Manual Login

FTP link: <ftp://ftptmp.stantec.com>

Login name: s0727062322

Password: 8167997

Disk Quota: 2GB

Expiry Date: 7/27/2010

Kara Hearne, B.Sc.

Project Manager

Stantec

Suite 1 - 70 Southgate Drive

Guelph ON N1G 4P5

Ph: (519) 836-6050 Ext. 250

Fx: (519) 836-2493

kara.hearne@stantec.com

stantec.com

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July 26, 2010

Ms. Caroline King
Director of Lands, Membership and Research (Acting)
Mississaugas of the New Credit First Nation
468 New Credit Road
RR 6 Hagersville, Ontario
NOA 1H0

Dear Ms. King:

Thank you for meeting with us in June. We appreciate you taking the time to explain the Mississaugas of the New Credit First Nation's (MNCFN) interest in Grand River Renewable Energy Project (the Project) and giving us a preliminary indication of your expectations moving forward. This letter is in response to your correspondence of June 17, 2010 requesting how we envision the engagement process unfolding as well as our collective expectations of this process. We have prepared a draft framework that we hope will form a starting point for discussions. In addition, we have provided some context as to how we envision Stantec's role within the context of the Renewable Energy Approval (REA) process.

We have also attached, as requested in your letter, a list of studies that will be undertaken for the Project.

Renewable Energy Approval Process

Commercial scale wind power projects in Ontario require approval in accordance with Ontario Regulation 359/09 (Renewable Energy Approvals under Part V.0.1) of the *Environmental Protection Act*. Samsung Renewable Energy Inc. (Samsung) will fulfill all regulatory requirements with respect to engagement with the Mississaugas of the New Credit First Nation. This includes at a minimum the following notices and activities:

- Notice of the proposal to engage in a renewable energy project;
- Provision of a Draft Project Description Report;
- A request to the community to identify in writing any information the community has, that in its opinion, should be considered in preparation of the REA reports, and in particular, on constitutionally protected aboriginal or treaty rights and any measures for mitigating those adverse impacts;
- Any information Samsung has regarding any adverse impacts the project may have on constitutionally protected aboriginal or treaty rights that the community may have identified as being adversely impacted by the project and measures for mitigating those impacts (see above);
- A summary of each report prepared for the REA process related to information identified by the First Nation as being of interest;
- Notices of Public Open Houses; and,
- Any other notices, newsletters or other information disclosed to the general public for the Project.

Samsung recognizes that the REA process represents the minimum basic regulatory requirements. Ongoing meaningful engagement between the MNCFN and Samsung is valuable.

Consultation with the MNCFN is also valuable. The purpose of the Draft Protocol is to define Samsung's proposed method for engaging with the MNCFN. We welcome your comments and input on the Protocol.

Draft MNCFN Engagement Protocol

Objectives of Protocol

The objectives of the Protocol are to:

- Establish a basis for effective, proactive and ongoing participation in project development;
- Establish an effective communications process to allow the free flow of information;
- Increase understanding of the Project;
- Ensure responses to any concerns raised about the project development; and,
- Build a strong foundation for long-term good neighbour relations.

Mechanisms for Involvement

Samsung and MNCFN will define the individual(s) that will be responsible for all engagement with the MNCFN community for the duration of Project development and to ensure implementation of this Protocol. The Protocol will be implemented on two levels:

1. Technical and REA Process Discussions
 - Samsung – A Stantec representative will lead discussions with an MNCFN representative specific to technical and REA process issues. This individual will provide background information on the project and REA process, provide opportunities for the MNCFN to be involved in technical studies, meet with the MNCFN representative when required, and ensure all communications, expectations and commitments are recorded.
 - MNCFN –MNCFN technical representatives would provide information to the proponent on potential adverse impacts to constitutionally protected aboriginal or treaty rights as required as part of the REA process. Information would also be shared with Samsung related to any information the community has that, in the opinion of the MNCFN, should be considered during preparation of the REA Reports. Also a MNCFN representative would work with Stantec to ensure that the logistics of the technical aspects of the engagement process are completed.
2. Commitments
 - Samsung – A Samsung representative, assisted by Stantec, would be a senior manager who would be responsible for discussions and implementations of any commitments related to capacity building and community benefits and meets with the appropriate MNCFN representative as appropriate, and ensure all communications, expectations and commitments are met.
 - MNCFN – The Chief and/or additional appointed designates would ensure that the community's needs are met and represented throughout the engagement

process. The MNCFN representatives would provide information regarding the interest of the MNCFN in the Project, provide feedback on requirements for capacity building and benefits to the community, and outline potential engagement strategies that would be effective for the community.

We trust the above will form the basis of a long term meaningful and mutually beneficial partnership between the MNCFN and Samsung. Please contact Kara Hearne of Stantec directly via phone (519-836-6050) or email (kara.hearne@stantec.com) should you have questions or comments. We would also like to meet with you again in the near future so please let us know of a time and location that is convenient for you.

Yours sincerely

A handwritten signature in black ink, appearing to read "G. Y. You". The signature is written in a cursive style with a large loop at the end.

Attachment: List of Studies to be undertaken for the Project
List of reports to be completed

Technical studies to be undertaken for the project include:

- Stage 2 Archaeology – Scheduled for late August and September.
- Natural Heritage field surveys including:
 - Ecological Landscape Classification; and,
 - Botanical surveys; and,
 - Significant Wildlife Habitat.

These studies will be conducted in September over the course of five days.

Below is a table taken from the O.Reg 359/09 identifying the reports that will be generated for this project as part of the REA application to the MOE:

Item	Column 1	Column 2	Column 3
	Name of document	Requirements	Renewable energy project
1.	Construction plan report	Set out a description of the following in respect of the renewable energy project: <ol style="list-style-type: none"> 1. Details of any construction or installation activities. 2. The location and timing of any construction or installation activities for the duration of the construction or installation. 3. Any negative environmental effects that may result from construction or installation activities within a 300 metre radius of the activities. 4. Mitigation measures in respect of any negative environmental effects mentioned in paragraph 3. 	Any renewable energy project, other than a project in respect of a Class 2 wind facility.
2.	Consultation report	Set out information relating to consultations conducted in respect of the renewable energy project, including the following: <ol style="list-style-type: none"> 1. A summary of communication with any members of the public, aboriginal communities, municipalities, local roads boards and Local Services Boards regarding the project. 2. Evidence that the information required to be distributed to aboriginal communities under subsection 17 (1) was distributed. 3. Any information provided by an aboriginal community in response to a request made under paragraph 4 of subsection 17 (1). 4. Evidence that a consultation form was distributed in accordance with subsection 18 (1). 5. The consultation form distributed under subsection 18 (1), if any part of it has been completed by a municipality, local roads board or Local Services Board. 6. A description of whether and how, <ol style="list-style-type: none"> i. comments from members of the public, aboriginal communities, municipalities, local roads boards and Local Services Boards were considered by the person who is engaging in the project, ii. the documents that were made available under subsection 16 (5) were amended after the final public meeting was held, and iii. the proposal to engage in the project was altered in response to comments mentioned in subparagraph i. 	Any renewable energy project, other than a project in respect of a Class 2 wind facility.
3.	Decommissioning plan report	Set out a description of plans for the decommissioning of the renewable energy generation facility, including the following: <ol style="list-style-type: none"> 1. Procedures for dismantling or demolishing the facility. 2. Activities related to the restoration of any land and water negatively affected by the facility. 3. Procedures for managing excess materials and waste. 	Any renewable energy project, other than a project in respect of a Class 2 wind facility.
4.	Design and operations report	<ol style="list-style-type: none"> 1. Set out a site plan of the project location at which the renewable energy project will be engaged in, including, 	Any renewable energy project, other than a project in

Item	Column 1	Column 2	Column 3
	Name of document	Requirements	Renewable energy project
		<ul style="list-style-type: none"> i. one or more maps or diagrams of, <ul style="list-style-type: none"> A. all buildings, structures, roads, utility corridors, rights of way and easements required in respect of the renewable energy generation facility and situated within 300 metres of the facility, B. any ground water and surface water supplies used at the facility, C. any things from which contaminants are discharged into the air, D. any works for the collection, transmission, treatment and disposal of sewage, E. any areas where waste, biomass, source separated organics and farm material are stored, handled, processed or disposed of, F. the project location in relation to any of the following within 125 metres: properties described in Column 1 of the Table to section 19, heritage resources, archaeological resources, the portion of the Oak Ridges Moraine Conservation Plan Area that is subject to the Oak Ridges Moraine Conservation Plan, the area of the Niagara Escarpment Plan, the Protected Countryside, the Lake Simcoe watershed, and G. any noise receptors or odour receptors that may be negatively affected by the use or operation of the facility, ii. a description of each item diagrammed under subparagraph i, and iii. one or more maps or diagrams of land contours, surface water drainage and any of the following, if they have been identified in complying with this Regulation: properties described in Column 1 of the Table to section 19, heritage resources, archaeological resources, water bodies, significant or provincially significant natural features and any other natural features identified in the Protected Countryside or in the portion of the Oak Ridges Moraine Conservation Plan Area that is subject to the Oak Ridges Moraine Plan. <p>2. Set out conceptual plans, specifications and descriptions related to the design of the renewable energy generation facility, including a description of,</p> <ul style="list-style-type: none"> i. any works for the collection, transmission, treatment and disposal of sewage, including details of any sediment control features and storm water management facilities, ii. any things from which contaminants are discharged into the air, and iii. any systems, facilities and equipment for receiving, handling, storing and processing any waste, biomass, source separated organics, farm material and biogas. <p>3. Set out conceptual plans, specifications and descriptions related to the operation of the renewable energy generation facility, including,</p> <ul style="list-style-type: none"> i. in respect of any water takings, <ul style="list-style-type: none"> A. a description of the time period and duration of water takings expected to be associated with the operation of the facility, B. a description of the expected water takings, including rates, amounts and an assessment of the availability of water to meet the expected demand, and C. an assessment of and documentation showing the potential for the facility to interfere with existing uses of the water expected to be taken, 	<p>respect of a Class 2 wind facility.</p>

Item	Column 1	Column 2	Column 3
	Name of document	Requirements	Renewable energy project
		<ul style="list-style-type: none"> ii. a description of the expected quantity of sewage produced and the expected quality of that sewage at the project location and the manner in which it will be disposed of, including details of any sediment control features and storm water management facilities, iii. a description of any expected concentration of air contaminants discharged from the facility, iv. in respect of any biomass, source separated organics and farm material at the facility, <ul style="list-style-type: none"> A. the maximum daily quantity that will be accepted, B. the estimated annual average quantity that will be accepted, C. the estimated average time that it will remain at the facility, and D. the estimated average rate at which it will be used, and v. in respect of any waste generated as a result of processes at the project location, the management and disposal of such waste, including, <ul style="list-style-type: none"> A. the expected types of waste to be generated, B. the estimated maximum daily quantity of waste to be generated, by type, C. processes for the storage of waste, and D. processes for final disposal of waste. 4. Include an environmental effects monitoring plan in respect of any negative environmental effects that may result from engaging in the renewable energy project, setting out, <ul style="list-style-type: none"> i. performance objectives in respect of the negative environmental effects, ii. mitigation measures to assist in achieving the performance objectives mentioned in subparagraph i, iii. a program for monitoring negative environmental effects for the duration of the time that the project is engaged in, including a contingency plan to be implemented if any mitigation measures fail. 5. Include a response plan setting out a description of the actions to be taken while engaging in the renewable energy project to inform the public, aboriginal communities and municipalities, local roads boards and Local Services Boards with respect to the project, including, <ul style="list-style-type: none"> i. measures to provide information regarding the activities occurring at the project location, including emergencies, ii. means by which persons responsible for engaging in the project may be contacted, and iii. means by which correspondence directed to the persons responsible for engaging in the project will be recorded and addressed. 6. If the project location is in the Lake Simcoe watershed, a description of whether the project requires alteration of the shore of Lake Simcoe, the shore of a fresh water estuary of a stream connected to Lake Simcoe or other lakes or any permanent or intermittent stream and, <ul style="list-style-type: none"> i. how the project may impact any shoreline, including the ecological functions of the shoreline, and ii. how the project will be engaged in to, <ul style="list-style-type: none"> A. maintain the natural contour of the shoreline through the implementation of natural shoreline treatments, such as planting of natural vegetation and bioengineering, and B. use a vegetative riparian area, unless the project location is used for agricultural purposes and will continue to be used for such purposes. 	

Item	Column 1	Column 2	Column 3
	Name of document	Requirements	Renewable energy project
8.	Noise study report	Report to be prepared in accordance with Appendix A of the publication of the Ministry of the Environment entitled, "Basic Comprehensive Certificates of Approval (Air) – User Guide", dated April 2004, as amended from time to time and available from the Ministry.	A renewable energy project in respect of one of the following facilities: <ol style="list-style-type: none"> 1. A Class 3 anaerobic digestion facility. 2. Class 1 thermal treatment facility, if the generating unit of the facility is located anywhere other than at a farm operation. 3. A Class 3 thermal treatment facility. 4. A biogas facility. 5. A biofuel facility. 6. A Class 3 solar facility.
10.	Project description report	Set out a description of the following in respect of the renewable energy project: <ol style="list-style-type: none"> 1. Any energy sources to be used to generate electricity at the renewable energy generation facility. 2. The facilities, equipment or technology that will be used to convert the renewable energy source or any other energy source to electricity. 3. If applicable, the class of the renewable energy generation facility. 4. The activities that will be engaged in as part of the renewable energy project. 5. The name plate capacity of the renewable energy generation facility. 6. The ownership of the land on which the project location is to be situated 7. Any negative environmental effects that may result from engaging in the project. 8. An unbound, well marked, legible and reproducible map that is an appropriate size to fit on a 215 millimetre by 280 millimetre page, showing the project location and the land within 300 metres of the project location. 	Any renewable energy project.
13.	Wind turbine specifications report	Provide specifications of each wind turbine, including make, model, name plate capacity, hub height above grade, rotational speeds and acoustic emissions data, including the sound power level and frequency spectrum, in terms of octave-band sound power levels.	A renewable energy project in respect of a Class 3, 4 or 5 wind facility.



Stantec

CONTACT RECORD

NAME(S):	Jason Haskett Director, Economic Development	PROJECT NO.:	160960577 / 161010624
TELEPHONE:		REPRESENTING:	MNCFN
RE:	Response to MNCFN	DATE/TIME:	Aug 6, 2010 / am
		RECORDED BY:	Hagen Lee, Samsung

CALL RECEIVED

CALL PLACED

MEETING

NOTES:

- Hagen received a call from Jason, representing the MNCFN.
- Jason wanted to get updates since he was not aware of any follow up since our first meeting.
- Hagen told him that we had been in contact with his colleagues.
- Hagen provided a summary of all communications since the introductory meeting, including letters and the attendance of Carolyn King at the Public Open House for the Project.



Stantec

CONTACT RECORD

NAME(S):	<u>Carolyn King</u>	PROJECT NO.:	<u>160960577 / 161010624</u>
	<u></u>	REPRESENTING:	<u>MNCFN</u>
TELEPHONE:	<u>(905) 768-0100</u>	DATE/TIME:	<u>Aug 23, 2010 / 4:10pm</u>
RE:	<u>MNCFN participation in field work</u>	RECORDED BY:	<u>Kara Hearne</u>

CALL RECEIVED

CALL PLACED

MEETING

NOTES:

- Left voicemail, asked Carolyn to call me back.
- Wanted to discuss the opportunity that had been extended for community members to participate in the field programs for the Samsung project. We currently have aquatic and terrestrial staff out in the field, would like to make sure that if there's still interest that the community has the opportunity to participate.



Stantec

CONTACT RECORD

NAME(S):	<u>Carolyn King</u>	PROJECT NO.:	<u>160960577 / 161010624</u>
		REPRESENTING:	<u>MNCFN</u>
TELEPHONE:	<u>(905) 768-0100</u>	DATE/TIME:	<u>Sep 01, 2010 / 1:45pm</u>
RE:	<u>MNCFN participation in field work, technical meeting</u>	RECORDED BY:	<u>Kara Hearne</u>

CALL RECEIVED

CALL PLACED

MEETING

NOTES:

COMMUNITY PARTICIPATION IN FIELD PROGRAMS

- Following up with Carolyn about community members participating in field work. There is definite interest in the community. MNCFN will provide us with the names and contact information of people that are interested, we will have to hire them directly.
- MNCFN does have an Employment and Training office, who will provide us with the names and help us get in touch with the interested community members. Carolyn will send me an email with the contact name and information for that office.

CONTACT PERSON

- Margaret Sault is returning next Tuesday.

LETTER FROM SAMSUNG

- I wanted to verify that Carolyn received the letter we sent them. She said they probably did, but wasn't sure.
- I mentioned that Jason Haskett had been in touch with Samsung looking for a project update. I asked her to share our response letter with him; please make sure he knows that we have written.

MEETING WITH TECHNICAL STAFF

- I asked if there was any interest in setting up a meeting with technical staff.
- I explained that there is a new environmental assessment process for renewable energy projects in the province. It might be useful to meet with the people that will be reviewing the reports we send.



Stantec

CONTACT RECORD

- Carolyn will discuss with others, including Margaret, the possibility of a meeting and someone will let me know.



Stantec

CONTACT RECORD

NAME(S):	<u>Margaret Sault</u>	PROJECT NO.:	<u>160960577 / 161010624</u>
		REPRESENTING:	<u>MNCFN</u>
TELEPHONE:	<u>(905) 768-0100</u>	DATE/TIME:	<u>Sep 21, 2010 / 3:45pm</u>
RE:	<u>Letter from Samsung, MNCFN participation in field work, technical meeting</u>	RECORDED BY:	<u>Kara Hearne</u>

CALL RECEIVED

CALL PLACED

MEETING

NOTES:

LETTER FROM SAMSUNG

- I wanted to verify that the MNCFN received the letter we sent them. Margaret checked the file, couldn't find it. I told her I would send it to her by email today.

COMMUNITY PARTICIPATION IN FIELD PROGRAMS

- Mentioned that Carolyn was going to email me the information for the Employment and Training office, who would provide me with the names of interested community members.
- Margaret was unsure if the MNCFN was going to accept the offer. Council has hired a consulting firm, who has recommended that the MNCFN do not participate in the field work. The recommendation is that if MNCFN participates in the field work prior to signing a formal agreement with the proponent, it's "putting the cart before the horse". However, Margaret thought that it was a great opportunity for the community, so she's in a difficult position.
- I said that the offer was certainly not intended to put her in a difficult situation; we thought it would be a great opportunity for someone who was interested in participating. Field work is ongoing now, so if someone wants to participate, we should get the logistics organized.
- We agreed that she would discuss it internally and let me know what they decide.

MEETING WITH TECHNICAL STAFF

- I explained that there is a new environmental assessment process for renewable energy projects in the province, and offered to meet with the people that will be reviewing the reports to give them some information on the REA process and the project.



Stantec

CONTACT RECORD

- Margaret said that Carolyn King had been hired to review the reports, and that Margaret would be reviewing as well. They're always looking to learn more, and would like to have the meeting. She will check schedules and send me some possible dates.

Friedl, Susanne

From: Hearne, Kara
Sent: Tuesday, September 21, 2010 4:16 PM
To: 'Margaret.Sault@newcreditfirstnation.com'
Subject: Grand Renewable Energy Park - letter from Samsung
Attachments: SREltrToMNCFN072610.pdf

Hi Margaret,

Thanks very much for taking the time to speak with me this afternoon about Samsung's Grand Renewable Energy Park.

As promised, attached is a copy of the letter that was sent mid-summer.

I look forward to hearing from you regarding community participation in the field programs, and potential dates for a technical meeting to share information about the Renewable Energy Approval process and the Project.

Kind regards,
Kara

Kara Hearne, B.Sc.
Project Manager
Stantec
Suite 1 - 70 Southgate Drive
Guelph ON N1G 4P5
Ph: (519) 836-6050 Ext. 250
Fx: (519) 836-2493
kara.hearne@stantec.com
stantec.COM

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Stantec Consulting Ltd.
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Guelph ON N1G 4P5
Tel: (519) 836-6050
Fax: (519) 836-2493

Stantec

January 18, 2011

File: 161010646/161010624

Margaret Sault, Director
Lands, Membership and Research
Mississaugas of the New Credit First Nation
468 New Credit Road, R.R.#6
Hagersville, ON N0A 1H0

**Reference: Grand Renewable Energy Park
Renewable Energy Approval – Project Update and Information Request**

Dear Ms. Sault:

Samsung Renewable Energy Inc. (Samsung) and Pattern Energy (Pattern) are proposing to develop the Grand Renewable Energy Park (GREP), a combined wind and solar generation project, within Haldimand County, Ontario. If approved, the wind portion of the GREP would have a nameplate capacity of 140 MW and consist of approximately 69 wind turbines. The solar portion of the GREP would have a nameplate capacity of 100 MW and utilize approximately 900 acres of land. Both aspects of the GREP would also include electrical collection lines, a transmission line, substation, and other ancillary facilities such as access roads.

The GREP is subject to the Renewable Energy Approval (REA) process, as outlined in Ontario Regulation 359/09 - Renewable Energy Approvals under Part V.0.1 of the Act of the *Environmental Protection Act* (O.Reg 359/09). Stantec Consulting Ltd. (Stantec) is the primary consultant responsible for preparing the REA application for the GREP.

Project Update

Project work throughout Summer and Fall of 2010 was primarily focused on preliminary engineering work, noise assessments, landowner agreements, natural heritage background and field studies, and dialogue with the local residents, municipality, and aboriginal communities. There was also an Open House held on July 8, 2010, attended by Ms. Carolyn King who represented your department at that time.

We have now completed terrestrial and aquatic field studies for the GREP, and are in the process of analyzing the results of these surveys. We have also completed much of the Stage 2 Archaeological Assessment, and will be continuing this work when the weather permits. Currently, we are beginning the process of drafting reports, and beginning work on the assessment of potential impacts and mitigation measures for environmental features that have been identified. Please find enclosed a copy of our first Project newsletter, issued in December 2010.

January 18, 2011
Ms. Margaret Sault
Page 2 of 3

**Reference: Grand Renewable Energy Park
Renewable Energy Approval – Project Update and Information Request**

The preliminary wind turbine layout for the GREP, which includes 69 wind turbines, has recently been released. We welcome your input on the layout. The map has been uploaded to the project website (www.samsungrenewableenergy.ca), and is also enclosed for your reference. This preliminary wind turbine layout has also recently been submitted to the Ministry of the Environment.

Information Request

We recognize that construction and operation of the GREP has the potential to affect the constitutionally protected aboriginal or treaty rights of your community. However, we do not presently have information from your community regarding how these rights may be affected by project activities. We would welcome the opportunity to understand how aboriginal rights are exercised in the project area (e.g. areas used for traditional activities by your community) so that we may work together and share information on how best to mitigate any potential impacts that may be identified.

As outlined in subsection 17.1.4 of O.Reg. 359/09, we would like to request that you provide, in writing, any information that, in your community's opinion, should be considered in preparing the REA reports for the project, and in particular, any information your community may have about any adverse impacts the GREP may have on constitutionally protected aboriginal or treaty rights and any measures for mitigating those adverse impacts.

To date we have provided your community with the following information regarding the Project:

- Notice of Proposal to Engage in a Renewable Energy Project and Notice of Public Open House
- Project Description Report (version 1)
- Project Description Report (version 2)
- Display boards presented at the Public Open House on July 8, 2010

We sincerely hope that this information will provide the project background you may need to help identify for us the information we have requested. However, should you require additional information about the GREP, please let us know.

Closure

Samsung has previously offered to participate in a meeting with technical staff who may review the REA reports on behalf of the community. This opportunity is still available, and we would be pleased to meet on reserve with technical staff to discuss the new REA process and Project materials that have been sent to date.

January 18, 2011
Ms. Margaret Sault
Page 3 of 3

**Reference: Grand Renewable Energy Park
Renewable Energy Approval – Project Update and Information Request**

In the event that you have any questions or concerns, please do not hesitate to contact Kara Hearne at Stantec via phone (519-836-6050) or email (kara.hearne@stantec.com). We look forward to working with you throughout the development of this renewable energy initiative.

Sincerely,

STANTEC CONSULTING LTD.



Rob Nadolny
Senior Project Manager
Tel: (519) 836-6050
Fax: (519) 836-2493
rob.nadolny@stantec.com

Attachments: GREP Newsletter – Volume 1 (December 2010)
Preliminary Wind Turbine Layout Map

cc. Chief M. Bryan LaForme, Mississaugas of the New Credit First Nation
Kara Hearne, Stantec
Adam Rosso, Samsung
Hagen Lee, Samsung
Marnie Dawson, Samsung
GY Yoo, Samsung



SAMSUNG C&T

161010646/161010624
Samsung Renewable Energy

February 07, 2011
File: 161010646/161010624

Mississaugas of the New Credit First Nation
2789 Mississauga Road, RR #6
Hagersville, ON N0A 1H0

Attention: Chief M. Bryan LaForme

Reference: Grand Renewable Energy Park

Dear Chief LaForme:

Samsung Renewable Energy Inc. (Samsung) has recently provided an update and information request regarding the Grand Renewable Energy Park (the Project) to the Mississaugas of the New Credit First Nation, in a letter from Stantec Consulting Ltd. (Stantec) dated January 18, 2011.

We would be very pleased to meet with yourself and Council to discuss the Project, ways to engage the community, and any potential impacts your community has identified that the Project may have on constitutionally protected aboriginal or treaty rights, and any measures for mitigating those adverse impacts. Samsung would be happy to meet on reserve at Chief and Council's convenience.

We would also like to know if the Mississaugas of the New Credit have any feedback on the letter from Samsung dated July 26, 2010 and re-sent on September 21, 2010 via email from Stantec. The letter is attached for your reference.

In the event that you have any questions, please do not hesitate to contact Kara Hearne at Stantec via phone (519-836-6050) or email (kara.hearne@stantec.com). We look forward to working with you throughout the development of this renewable energy initiative.

Sincerely,

SAMSUNG RENEWABLE ENERGY INC.



Michael G.Y. Yoo

cc. Margaret Sault, Lands, Membership and Research Department, Mississaugas of the New Credit
Kara Hearne, Stantec
Adam Rosso, Samsung
Hagen Lee, Samsung
Marnie Dawson, Samsung



Stantec Consulting Ltd.
70 Southgate Drive Suite 1
Guelph ON N1G 4P5
Tel: (519) 836-6050
Fax: (519) 836-2493

Stantec

July 19, 2011
File: 160960577 / 161010624

Mississaugas of the New Credit First Nation
2789 Mississauga Road, R.R. #6
Hagersville, ON N0A 1H0

Attention: Chief M. Bryan LaForme

Reference: Grand Renewable Energy Park – Release of Draft Renewable Energy Approval Reports

Dear Chief LaForme:

Samsung C&T (Samsung), Pattern Energy (Pattern), and Korea Power Electric Corporation (KEPCO) (together, these companies referred to herein as “SPK”) are proposing to develop, construct, and operate a wind and solar energy project as part of the Grand Renewable Energy Park (GREP), in Haldimand County. SPK is planning to engage in this renewable energy project in respect of which the issuance of Renewable Energy Approvals (REA) is required. The proposal to engage in the project and the project itself are subject to the provisions of the *Environmental Protection Act (ACT)* Part V.0.1 and Ontario Regulation 359/09 (O. Reg. 359/09).

On behalf of SPK, Stantec is pleased to provide you with a copy of the Draft REA Reports for your review and comment. As required under O. Reg. 359/09 and the Ministry of Natural Resources (MNR) *Approval and Permitting Requirements Document (APRD) for Renewable Energy Projects*, this Draft REA Reports package includes the following draft reports:

- Project Description Report – as outlined in item 10 of Table 1 of O. Reg. 359/09;
- Natural Heritage Assessment Report – as required under sections 24, 25, 26, 27 and 28 of O. Reg. 359/09 and section 6.3 of the MNR’s Requirements Document;
- Construction Plan Report – as outlined in item 1 of Table 1 of O. Reg. 359/09 and section 6.7 of the MNR’s Requirements Document;
- Design and Operations Report – as outlined in item 4 of Table 1 of O. Reg. 359/09 and section 6.6 of the MNR’s Requirements Document;
- Decommissioning Plan Report – as outlined in item 3 of Table 1 of O. Reg. 359/09 and section 6.8 of the MNR’s Requirements Document;
- Environmental Impact Study – as required under section 38 of O. Reg. 359/09;
- Wind Turbine Specifications Report – as outlined in item 13 of Table 1 of O. Reg. 359/09;
- Archaeological and Heritage Reports - as required under sections 19, 20, 21, 22 and 23 of O.Reg. 359/09;
- Water Body and Water Assessment Report - as required under sections 29, 30 and 31 of O. Reg. 359/09. Further information related to potential effects and mitigation measures to water bodies, as required under sections 39, 40, 44, and 45 of O. Reg. 359/09 is provided in the Water Body and Water Assessment Report, Construction Plan Report and Design and Operations Report; and,
- Project Summary Report – as outlined in section 17. (1)3 of O. Reg. 359/09. The Draft Project Summary Report provides a summary of the potential environmental effects including those which the Project may have on constitutionally protected Aboriginal or treaty rights.

July 19, 2011
Attention: Chief M. Bryan LaForme
Page 2 of 2

Reference: Grand Renewable Energy Park – Release of Draft Renewable Energy Approval Reports

The attached Notice of Public Meeting will be published in local newspapers within Haldimand County the week of July 20th. Please let us know if you would also like a copy of the Notice to be published in a newspaper within your community.

The MOE has identified your community as potentially having constitutionally protected aboriginal or treaty rights that may be adversely impacted by the GREP. However, we do not presently have information from your community regarding how these rights may be affected by project activities. We continue to welcome the opportunity to understand how aboriginal rights are exercised in the project area (e.g. areas used for traditional activities by your community) so that we may work together and share information on how best to mitigate any potential impacts that may be identified.

We would like to request that you provide, in writing, any information that, in your community's opinion, should be considered in preparing the final version of the REA reports for the project, and in particular, any information your community may have about any adverse impacts the GREP may have on constitutionally protected aboriginal or treaty rights and any measures for mitigating those adverse impacts. We respectfully request any information/comments you may have by no later than September 22, 2011 so that the information can be considered during project planning and preparation of the final versions of the REA reports. The project team welcomes comments after this date, however only comments received by September 22, 2011 will be included in the Project's Consultation Report that will be submitted as part of the project's REA application.

We also respectfully request that these reports be made available to your community members. Given the size of the enclosed reports, we have not included an additional hard copy in an effort to conserve paper. However, we would be happy to send additional hard copies or electronic copies if needed; please let us know.

In the event that you have any questions or concerns, please do not hesitate to contact Kara Hearne at Stantec via phone (519-836-6050) or email (kara.hearne@stantec.com). We look forward to working with you throughout the development of this renewable energy initiative.

Sincerely,

STANTEC CONSULTING LTD.



Rob Nadolny
Senior Project Manager
Tel: (519) 836-6050
Fax: (519) 836-2493
Rob.nadolny@stantec.com

cc. Ms. Margaret Sault, Director, Lands, Membership and Research Department, Mississaugas of the New Credit First nation

Attachment: Draft REA Reports package
Notice of Public Meeting



Stantec

CONTACT RECORD

NAME(S):	<u>Carolyn King</u>	PROJECT NO.:	<u>160960577 / 161010624</u>
		REPRESENTING:	<u>MNCFN</u>
TELEPHONE:	<u>905-768-7632</u>	DATE/TIME:	<u>September 15, 2011, 10:17am.</u>
RE:	<u>Follow-up on Project status and Possible Meeting</u>	RECORDED BY:	<u>Kara Hearne</u>

CALL RECEIVED

CALL PLACED

MEETING

NOTES:

- Voicemail left on September 15, 2011.
- MS wanted CK to make contact to follow-up on where Samsung was in the Project schedule.
- CK wants to see what was happening with the company and if there is still a possibility to meet.
- Also wants to see if KH is still on the team for this Project.
- CK is back in the office on Friday afternoon.



Stantec

CONTACT RECORD

NAME(S):	<u>Carolyn King</u>	PROJECT NO.:	<u>160960577 / 161010624</u>
		REPRESENTING:	<u>MNCFN</u>
TELEPHONE:	<u>905-768-7632</u>	DATE/TIME:	<u>September 21, 2011, 10:15am.</u>
RE:	<u>Follow-up on Project status and Possible Meeting</u>	RECORDED BY:	<u>Kara Hearne</u>

CALL RECEIVED

CALL PLACED

MEETING

NOTES:

- KH asked CK what type of meeting she was looking at (technical or Chief and Council)?
- Agreed that 1st meeting should be technical meeting.
- Then another meeting can be arranged with Chief and Council.
- Arrange meeting for anytime in the daytime. The meeting will be with MS and CK.
- On the 3rd Monday of the month, plan to meet with Chief and Council. This is the best time to meet with Chief and Council. Will arrange after the technical meeting.
- CK will likely come to POH. KH told CK to ask for PP.
- CK is away next week, between October 4 and 7 (Tuesday to Friday) is the only time CK is available to meet.
- KH will check with the team and try to arrange something by the end of the day Thursday (CK is not in the office on Friday).
- Contact: Carolyn.king@newcreditfirstnation.com

Friedl, Susanne

From: Hearne, Kara
Sent: Wednesday, September 21, 2011 4:10 PM
To: 'Carolyn King'
Subject: RE: GREP - technical meeting

Great news! Let's say Wednesday, October 12 at 1:00pm. Let me know if that works for you, and where the meeting will be held.

We're going to try to send a maximum of 5 people so we're not overloading your boardroom! Does that sound like an ok number? I can cut more if needed.

Cheers,
Kara

-----Original Message-----

From: Carolyn King [mailto:Carolyn.King@newcreditfirstnation.com]
Sent: Wednesday, September 21, 2011 3:32 PM
To: Hearne, Kara
Subject: RE: GREP - technical meeting

KARA. yes, the next week will work . I talked with Margaret, she is available for that week.

Carolyn King
Geomatics Environmental Technician
Mississaugas of the New Credit First Nation Council Lands, Research & Membership Dept.
Consultation & Outreach Office - Old Council Hse.
2789 Mississauga Rd. RR 6
Hagersville, ON
NOA 1H0
T: 905-768-7632
F: 905-768-1225

From: Hearne, Kara [kara.hearne@stantec.com]
Sent: Wednesday, September 21, 2011 3:01 PM
To: Carolyn King
Subject: GREP - technical meeting

Hi Carolyn,

It was nice speaking with you today, hope you're having a good day at the Caring Together event this afternoon. Hopefully there's no bees there!

I have realized that I forgot when talking to you that the week of Oct 4-7 is an annual wind energy conference; almost everyone from the project team will be away that week. My apologies - is there any way to move the technical meeting to the following week (Tues Oct 11 to Fri Oct 14)? The REA application will have been submitted to the MOE by that point, but that just means that the meeting won't be captured in the REA Consultation Report.

I'm back in the office tomorrow afternoon; I'll give you a call and see if you're in the office. If I don't catch you, have a lovely vacation and we'll touch base when you get back to pick a date/time to meet.

Kind regards,

Kara

Kara Hearne
Project Manager - Assessment, Permitting & Compliance Stantec
70 Southgate Drive Suite 1
Guelph ON N1G 4P5
Ph: (519) 836-6050 Ext. 250
Fx: (519) 836-2493
kara.hearne@stantec.com<mailto:kara.hearne@stantec.com>
stantec.com<<http://www.stantec.com>>

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ü Please consider the environment before printing this email.

Friedl, Susanne

From: Hearne, Kara
Sent: Friday, September 23, 2011 11:07 AM
To: Margaret.Sault@newcreditfirstnation.com; Carolyn King
(carolyn.king@newcreditfirstnation.com)
Subject: GREP: open house display boards
Attachments: Samsung - Open House #2 display boards.pdf

Hi Carolyn and Margaret,

It was great to see you last night, I'm happy you made it out to the open house! As promised, attached is a pdf of the display panels that we had set up around the room last night.

We look forward to seeing you on October 12 (1pm). Can you let me know where on reserve we should meet you?

Have a great weekend,
Kara

Kara Hearne
Project Manager - Assessment, Permitting & Compliance
Stantec
70 Southgate Drive Suite 1
Guelph ON N1G 4P5
Ph: (519) 836-6050 Ext. 250
Fx: (519) 836-2493
kara.hearne@stantec.com
stantec.com

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CONTACT RECORD

NAME(S):	<u>Margaret Sault</u> Director of Lands, Membership, and Research	PROJECT NO.:	<u>160960577 / 161010624</u>
TELEPHONE:	<u>(905) 768-0100</u>	REPRESENTING:	<u>Mississaugas of the New Credit First Nation</u>
RE:	<u>GREP: Introductory Meeting</u>	DATE/TIME:	<u>May 20, 2010 / 9:30 am</u>
		RECORDED BY:	<u>Kara Hearne</u>

CALL RECEIVED

CALL PLACED

MEETING

NOTES:

- I called Margaret to set up an introductory meeting with Samsung and the Mississaugas of the New Credit to share information about Samsung, the project, and possible interests in the project.
- Margaret Sault is the first point of contact for setting up this meeting.
- The Mississaugas of the New Credit have been waiting to hear from Samsung; Council is very interested in meeting.
- A first meeting with Chief and Council will include them providing an overview of their history, introductions, and talk about some of the factors that they'll be looking at.
- Margaret provided some possible dates for the meeting; her and I will coordinate with other's schedules.

Friedl, Susanne

Subject: FW: Meeting - MNCFN and Samsung

From: Hearne, Kara
Sent: Thursday, May 27, 2010 11:24 AM
To: 'Margaret Sault'
Subject: RE: Meeting - MNCFN and Samsung

Hi Margaret,

We'll officially book June 16 at 1:30 pm for the meeting with MNCFN and Samsung, thank you very much for your reply. There will be 4 representatives from Samsung, and 2 from Stantec, attending the meeting. Would you like us to draft an agenda for the meeting, and send it to you for comments?

Regards,
Kara



Stantec

Stantec Consulting Ltd.
Suite 1 - 70 Southgate Drive
Guelph ON N1G 4P5
Tel: (519) 836-6050
Fax: (519) 836-2493

June 4, 2010
File: 160960577 / 161010624

Mississaugas of the New Credit First Nation
8545 Townline Road, RR #1
Hagersville, ON N0A 1H0

Attention Chief M. Bryan LaForme:

**Reference: Grand Renewable Energy Park
Draft Project Description and Notice to Engage/Public Open House**

Dear Chief LaForme:

On behalf of Samsung Renewable Energy Inc. (Samsung), please find enclosed the Draft Project Description and Notice to Engage/Public Open House for the proposed Grand Renewable Energy Park to be located within Haldimand County, Ontario. If approved, the wind aspect of the Project would have a nameplate capacity of 140 MW and consist of approximately 63 wind turbines (depending upon the turbine make and model). The solar aspect of the Project would have a nameplate capacity of 100 MW and consist of approximately 700 acres of land. Both aspects of the Project would also include electrical collection lines, a 30 km transmission line, substation, and other ancillary facilities such as access roads.

The Draft Project Description Report provides a summary of the Project as required by Ontario Regulation 359/09 - Renewable Energy Approvals under Part V.0.1 of the Act of the *Environmental Protection Act* ("the Regulation").

The Notice to Engage/Public Open House will be published in local newspapers within Haldimand County the week of June 7th. Please let us know if you would also like a copy of the Notice to be published in a newspaper within your community.

In the event that you have any questions or concerns, please do not hesitate to contact Kara Hearne at Stantec via phone (519-836-6050) or email (kara.hearne@stantec.com). We look forward to working with you throughout the development of this renewable energy initiative and look forward to meeting with you on June 16, 2010.

Sincerely,

STANTEC CONSULTING LTD.

Rob Nadolny
Senior Project Manager
Tel: (519) 836-6050
Fax: (519) 836-2493
Rob.nadolny@stantec.com

Attachment: Draft Project Description and Notice to Engage/Public Open House

CC. Adam Rosso, Samsung Renewable Energy Inc.
CC. Margaret Sault, Mississaugas of the New Credit First Nation

Meeting Notes



Stantec

Grand Renewable Energy Park

FILE 160960577

Date/Time: June 16, 2010 / 1:30 PM
Place: Mississaugas of the New Credit First Nation Reserve
Attendees: Mississaugas of the New Credit First Nation (MNCFN) – Chief M. Bryan LaForme, Stace LaForme, Clynt King, Jason Haskett, Margaret Sault
Willms & Shier LLP – Juli Abouchar
Samsung – Hagen Lee, Adam Rosso, Mike Henderson
Stantec – Peter Prier, Kara Hearne
Distribution: Samsung, Stantec

Item:

Action:

Overview of MNCFN History and Lands

Attendees watched a video called “Sacred Trust” which provided an overview of MNCFN history and land claims. MNCFN provided Samsung and Stantec each a copy of the video.

MNCFN provided a map of their traditional lands, an information booklet called “Mississaugas of the New Credit Past & Present”, and an information booklet called “Toronto Purchase Specific Claim: Arriving at an Agreement”.

MNCFN provided an overview of the Toronto Purchase land claim, which has recently been settled.

MNCFN provided an overview of the history of the land, including land surrenders, and how MNCFN came to be on their current reserve.

Duty to Consult and Accommodate

MNCFN is hoping to develop a consultation protocol (or can be called a letter of intent or memorandum of understanding) that will outline how MNCFN will participate in the project and what the potential benefits to the community are.

MNCFN provided a handout “List of factors (but not limited to) for consideration in Protocol Agreement with the MNCFN”. The handout identified a list of items regarding which the MNCFN would want to consult/engage. It also contained a list of items that could be contained in an agreement.

Samsung asked if the MNCFN could provide any information on how they perceive Samsung should manage relationships with First Nations, given that the project is located in the Haldimand Tract. MNCFN explained that they expect to be involved in consultation and agreements, and any revenue sharing. Willms & Shier clarified that engagement of the MNCFN is a parallel but separate process to engagement of Six Nations.

MNCFN noted that the government does not provide capacity funding for aboriginal communities to participate in consultation.

Willms & Shier noted that the Renewable Energy Approval requirements are very basic. Samsung was asked if they would enter into a protocol where MNCFN can participate and get capacity.

Project Overview

Stantec provided study area maps for the project, showing the wind turbine and solar siting area, and the transmission line siting area. A high level overview of the project was provided by Samsung.

MNCFN had questions about Samsung providing access to the land for hunting wild turkey. Samsung answered that for the solar farm, no access will be permitted – by law, solar farms must be fenced and no public access permitted for safety reasons.

MNCFN asked if there were opportunities to have manufacturing on First Nation land. Samsung answered that the manufacturing plants will be located in areas that make most sense economically, and there are approximately 30 municipalities in discussions for locating the plants. Another Samsung team is responsible for these decisions.

Samsung noted that there will be many jobs available locally during construction and operation. There was a general discussion regarding the types of jobs that would be available, requirements for solar installers, and yearly numbers of graduating post-secondary students from reserve.

MNCFN mentioned that TransCanada had provided them, for their Career Fair, a list of the potential jobs available, and listed the skill sets required to obtain these jobs. A similar list from Samsung would be very helpful to the MNCFN; they can provide students with this information to prepare them for positions that will soon be available.

Next Steps

A letter of intent / memorandum of understanding should be prepared and agreed upon soon to be able to begin consultation on the project.

ACTION: *Samsung to draft expectations for the consultation process, and benefits to the community, and provide to MNCFN.*

The meeting adjourned at 3:30 PM.

The foregoing is considered to be a true and accurate record of all items discussed. If any discrepancies or inconsistencies are noted, please contact the writer immediately.

STANTEC CONSULTING LTD.

Kara Hearne, B.Sc.
Project Manager
kara.hearne@stantec.com

Friedl, Susanne

From: Margaret Sault <Margaret.Sault@newcreditfirstnation.com>
Sent: Thursday, June 17, 2010 4:30 PM
To: Hearne, Kara
Subject: meeting on June 16 with Mississaugas of the Credit
Attachments: Samsung letter_330937 (1).DOC

Hi Kara: It was nice to meet you and your colleagues. I feel it was a good meeting with introductions being made and discussing items of mutual concern. attached is a letter of request from New Credit.

Margaret Sault



Stantec Consulting Ltd.
Suite 1 - 70 Southgate Drive
Guelph ON N1G 4P5
Tel: (519) 836-6050
Fax: (519) 836-2493

Stantec

June 24, 2010
File: 160960577 / 161010624

Mississaugas of the New Credit First Nation
8545 Townline Road, RR #1
Hagersville, ON N0A 1H0

Attention Chief M. Bryan LaForme:

**Reference: Grand Renewable Energy Park
Draft Project Description – Version 2**

Dear Chief LaForme:

On behalf of Samsung Renewable Energy Inc. (Samsung), please find enclosed the Draft Project Description – Version 2 for the proposed Grand Renewable Energy Park to be located within Haldimand County, Ontario. Draft Project Description Report - Version 2 has been updated to include additional information related to Project setbacks and the identification of potential environmental effects.

If approved, the wind aspect of the Project would have a nameplate capacity of 140 MW and consist of approximately 63 wind turbines (depending upon the turbine make and model). The solar aspect of the Project would have a nameplate capacity of 100 MW and consist of approximately 700 acres of land. Both aspects of the Project would also include electrical collection lines, a 30 km transmission line, substation, and other ancillary facilities such as access roads.

In the event that you have any questions or concerns, please do not hesitate to contact Kara Hearne at Stantec via phone (519-836-6050) or email (kara.hearne@stantec.com). We look forward to working with you throughout the development of this renewable energy initiative.

Sincerely,

STANTEC CONSULTING LTD.

Rob Nadolny
Senior Project Manager
Tel: (519) 836-6050
Fax: (519) 836-2493
Rob.nadolny@stantec.com

Attachment: Draft Project Description – Version 2

CC. Adam Rosso, Samsung Renewable Energy Inc.
CC. Margaret Sault, Mississaugas of the New Credit First Nation

Friedl, Susanne

From: Hagen Lee <hklee@sai.samsung.com>
Sent: Monday, June 28, 2010 6:46 PM
To: bryanlaforme@newcreditfirstnation.com
Cc: GunYoung Yoo; Adam Rosso; Hearne, Kara; Ing, Pearl (MEI); Zohrab Mawani; Michael Henderson; danielchoi@samsung.com; sangwun.lee@samsung.com
Subject: Samsung Letter to Mississaugas of New Credit
Attachments: MNCFNPublicInfoSessionLetter062910.pdf; MNCFNFieldwordInvite062910.pdf; 60960577_NTE_POH_Notice_20100601_CEW.pdf; image001.jpg

Dear Chief M. Bryan LaForme,

Please find attached letters addressed to you on behalf of Samsung.

(One letter regarding Mississaugas of the New Credit First Nation Community Info Session, another letter inviting up to two members of Mississaugas of the New Credit First Nation to join the field study crew, and Notice to Engage Public Open House Notice)

Hard copies will arrive via ground mail.

I wanted to CC members of your council, but did not receive business cards at our last meeting.

Thank you.



Hagen Lee
Manager, Business Development &
Government Relations
T: 905.817.6496
C: 416.450.0351 (Canada)
C: 646.354.0797 (US)
E: hklee@sai.samsung.com

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Friedl, Susanne

From: Margaret Sault <Margaret.Sault@newcreditfirstnation.com>
Sent: Friday, July 02, 2010 8:29 AM
To: Hagen Lee; Bryan LaForme
Cc: Hearne, Kara; Prier, Peter; GunYoung Yoo; Adam Rosso; Michael Henderson; leejt@samsung.com; sangwun.lee@samsung.com; danielchoi@samsung.com; Zohrab Mawani
Subject: RE: info session Samsung
Attachments: image001.jpg

The Chief is away, but that is too soon and I am away for 2 months, so we will have to look at another time. Thanks

From: Hagen Lee [mailto:hklee@sai.samsung.com]
Sent: Wednesday, June 30, 2010 5:17 PM
To: Bryan LaForme; Margaret Sault
Cc: Hearne, Kara; Prier, Peter; GunYoung Yoo; Adam Rosso; Michael Henderson; leejt@samsung.com; sangwun.lee@samsung.com; danielchoi@samsung.com; Zohrab Mawani
Subject: info session Samsung

Good afternoon Chief LaForme,

Could you please advise if you would like us to hold a Community Information Session on reserve prior to our July 8 Public Open House? We need to start planning immediately if you would like us to hold this event.

Thank you.



Hagen Lee
Manager, Business Development &
Government Relations
T: 905.817.6496
C: 416.450.0351 (Canada)
C: 646.354.0797 (US)
E: hklee@sai.samsung.com

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CONTACT RECORD

NAME(S):	<u>Carolyn King</u>	PROJECT NO.:	<u>160960577 / 161010624</u>
		REPRESENTING:	<u>MNCFN</u>
TELEPHONE:	<u>(905) 768-0100</u>	DATE/TIME:	<u>05 July 2010 / 11:30am</u>
RE:	<u>Field work opportunity</u>	RECORDED BY:	<u>Kara Hearne</u>

CALL RECEIVED

CALL PLACED

MEETING

NOTES:

- Left voicemail.
- Carolyn is working at Margaret Sault's office; Margaret is away on leave.
- Looking to gather some information to give Council regarding letters sent regarding the July 8 meeting and the other letter to have 2 people working.
- Wondering how long the work would be for and what kind of qualifications are we looking for.



Stantec

CONTACT RECORD

NAME(S):	<u>Carolyn King</u>	PROJECT NO.:	<u>160960577 / 161010624</u>
		REPRESENTING:	<u>MNCFN</u>
TELEPHONE:	<u>(905) 768-0100</u>	DATE/TIME:	<u>06 July 2010 / 4:30pm</u>
RE:	<u>Field work opportunity</u>	RECORDED BY:	<u>Kara Hearne</u>

CALL RECEIVED

CALL PLACED

MEETING

NOTES:

- Carolyn asked if the opportunity to do site work is still available. I told her that the opportunity is definitely still available.
- I explained that the work would be accompanying the field crews for the Stage II archaeology surveys, and terrestrial/aquatic surveys.
- The timelines for when these surveys will be done are not finalized yet; we expect the archaeology would be done late July / early August, and the natural heritage studies in late August.
- Carolyn asked how long the work would be for. I told her that it's likely to be a couple days to a week of work.
- Carolyn said that they have students who did not get summer employment yet that may be interested, and asked if there was an age limit for the workers.
- I asked her if it would be possible for the workers to possibly be employed by Stantec on an hourly basis; this may be the easiest way in terms of insurance, agreements, etc. Carolyn didn't see a problem with that.
- I will check to see if Stantec has an age limit on hiring, and get back to Carolyn.

Friedl, Susanne

Subject: FW: Public Open House: follow up with Mississaugas of the New Credit

From: Hearne, Kara [mailto:kara.hearne@stantec.com]
Sent: Wednesday, July 14, 2010 9:45 AM
To: Margaret Sault
Cc: Bryan LaForme; Hagen Lee; Adam Rosso; GunYoung Yoo; Prier, Peter
Subject: Public Open House: follow up with Mississaugas of the New Credit

Hi Carolyn,

I want to thank you again for coming to our first Public Open House for the Grand Renewable Energy Park last Thursday evening. Again, I'm so sorry that I missed the chance to meet you in person!

I have loaded the display boards that were presented at the Public Open House to an FTP site for your convenience (instructions below). Please let me know if you have any technical difficulties accessing the files.

Please let me know if you have any questions, and if you could let me know when your email address is once it's set up and working, it would be much appreciated.

Kind regards,
Kara

Instructions for accessing FTP site:

Automatic Login

FTP site link: <ftp://s0727062322:8167997@ftptmp.stantec.com>

By clicking on the link above (or pasting the link into Windows Explorer) you will be automatically logged into your FTP site.

Manual Login

FTP link: <ftp://ftptmp.stantec.com>

Login name: s0727062322

Password: 8167997

Disk Quota: 2GB

Expiry Date: 7/27/2010

Kara Hearne, B.Sc.

Project Manager

Stantec

Suite 1 - 70 Southgate Drive

Guelph ON N1G 4P5

Ph: (519) 836-6050 Ext. 250

Fx: (519) 836-2493

kara.hearne@stantec.com

stantec.com

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July 26, 2010

Ms. Caroline King
Director of Lands, Membership and Research (Acting)
Mississaugas of the New Credit First Nation
468 New Credit Road
RR 6 Hagersville, Ontario
NOA 1H0

Dear Ms. King:

Thank you for meeting with us in June. We appreciate you taking the time to explain the Mississaugas of the New Credit First Nation's (MNCFN) interest in Grand River Renewable Energy Project (the Project) and giving us a preliminary indication of your expectations moving forward. This letter is in response to your correspondence of June 17, 2010 requesting how we envision the engagement process unfolding as well as our collective expectations of this process. We have prepared a draft framework that we hope will form a starting point for discussions. In addition, we have provided some context as to how we envision Stantec's role within the context of the Renewable Energy Approval (REA) process.

We have also attached, as requested in your letter, a list of studies that will be undertaken for the Project.

Renewable Energy Approval Process

Commercial scale wind power projects in Ontario require approval in accordance with Ontario Regulation 359/09 (Renewable Energy Approvals under Part V.0.1) of the *Environmental Protection Act*. Samsung Renewable Energy Inc. (Samsung) will fulfill all regulatory requirements with respect to engagement with the Mississaugas of the New Credit First Nation. This includes at a minimum the following notices and activities:

- Notice of the proposal to engage in a renewable energy project;
- Provision of a Draft Project Description Report;
- A request to the community to identify in writing any information the community has, that in its opinion, should be considered in preparation of the REA reports, and in particular, on constitutionally protected aboriginal or treaty rights and any measures for mitigating those adverse impacts;
- Any information Samsung has regarding any adverse impacts the project may have on constitutionally protected aboriginal or treaty rights that the community may have identified as being adversely impacted by the project and measures for mitigating those impacts(see above);
- A summary of each report prepared for the REA process related to information identified by the First Nation as being of interest;
- Notices of Public Open Houses; and,
- Any other notices, newsletters or other information disclosed to the general public for the Project.

Samsung recognizes that the REA process represents the minimum basic regulatory requirements. Ongoing meaningful engagement between the MNCFN and Samsung is valuable.

Consultation with the MNCFN is also valuable. The purpose of the Draft Protocol is to define Samsung's proposed method for engaging with the MNCFN. We welcome your comments and input on the Protocol.

Draft MNCFN Engagement Protocol

Objectives of Protocol

The objectives of the Protocol are to:

- Establish a basis for effective, proactive and ongoing participation in project development;
- Establish an effective communications process to allow the free flow of information;
- Increase understanding of the Project;
- Ensure responses to any concerns raised about the project development; and,
- Build a strong foundation for long-term good neighbour relations.

Mechanisms for Involvement

Samsung and MNCFN will define the individual(s) that will be responsible for all engagement with the MNCFN community for the duration of Project development and to ensure implementation of this Protocol. The Protocol will be implemented on two levels:

1. Technical and REA Process Discussions
 - Samsung – A Stantec representative will lead discussions with an MNCFN representative specific to technical and REA process issues. This individual will provide background information on the project and REA process, provide opportunities for the MNCFN to be involved in technical studies, meet with the MNCFN representative when required, and ensure all communications, expectations and commitments are recorded.
 - MNCFN –MNCFN technical representatives would provide information to the proponent on potential adverse impacts to constitutionally protected aboriginal or treaty rights as required as part of the REA process. Information would also be shared with Samsung related to any information the community has that, in the opinion of the MNCFN, should be considered during preparation of the REA Reports. Also a MNCFN representative would work with Stantec to ensure that the logistics of the technical aspects of the engagement process are completed.
2. Commitments
 - Samsung – A Samsung representative, assisted by Stantec, would be a senior manager who would be responsible for discussions and implementations of any commitments related to capacity building and community benefits and meets with the appropriate MNCFN representative as appropriate, and ensure all communications, expectations and commitments are met.
 - MNCFN – The Chief and/or additional appointed designates would ensure that the community's needs are met and represented throughout the engagement

process. The MNCFN representatives would provide information regarding the interest of the MNCFN in the Project, provide feedback on requirements for capacity building and benefits to the community, and outline potential engagement strategies that would be effective for the community.

We trust the above will form the basis of a long term meaningful and mutually beneficial partnership between the MNCFN and Samsung. Please contact Kara Hearne of Stantec directly via phone (519-836-6050) or email (kara.hearne@stantec.com) should you have questions or comments. We would also like to meet with you again in the near future so please let us know of a time and location that is convenient for you.

Yours sincerely

A handwritten signature in black ink, appearing to read "G. Y. You". The signature is stylized with a large loop at the end.

Attachment: List of Studies to be undertaken for the Project
List of reports to be completed

Technical studies to be undertaken for the project include:

- Stage 2 Archaeology – Scheduled for late August and September.
- Natural Heritage field surveys including:
 - Ecological Landscape Classification; and,
 - Botanical surveys; and,
 - Significant Wildlife Habitat.

These studies will be conducted in September over the course of five days.

Below is a table taken from the O.Reg 359/09 identifying the reports that will be generated for this project as part of the REA application to the MOE:

Item	Column 1	Column 2	Column 3
	Name of document	Requirements	Renewable energy project
1.	Construction plan report	Set out a description of the following in respect of the renewable energy project: <ol style="list-style-type: none"> 1. Details of any construction or installation activities. 2. The location and timing of any construction or installation activities for the duration of the construction or installation. 3. Any negative environmental effects that may result from construction or installation activities within a 300 metre radius of the activities. 4. Mitigation measures in respect of any negative environmental effects mentioned in paragraph 3. 	Any renewable energy project, other than a project in respect of a Class 2 wind facility.
2.	Consultation report	Set out information relating to consultations conducted in respect of the renewable energy project, including the following: <ol style="list-style-type: none"> 1. A summary of communication with any members of the public, aboriginal communities, municipalities, local roads boards and Local Services Boards regarding the project. 2. Evidence that the information required to be distributed to aboriginal communities under subsection 17 (1) was distributed. 3. Any information provided by an aboriginal community in response to a request made under paragraph 4 of subsection 17 (1). 4. Evidence that a consultation form was distributed in accordance with subsection 18 (1). 5. The consultation form distributed under subsection 18 (1), if any part of it has been completed by a municipality, local roads board or Local Services Board. 6. A description of whether and how, <ol style="list-style-type: none"> i. comments from members of the public, aboriginal communities, municipalities, local roads boards and Local Services Boards were considered by the person who is engaging in the project, ii. the documents that were made available under subsection 16 (5) were amended after the final public meeting was held, and iii. the proposal to engage in the project was altered in response to comments mentioned in subparagraph i. 	Any renewable energy project, other than a project in respect of a Class 2 wind facility.
3.	Decommissioning plan report	Set out a description of plans for the decommissioning of the renewable energy generation facility, including the following: <ol style="list-style-type: none"> 1. Procedures for dismantling or demolishing the facility. 2. Activities related to the restoration of any land and water negatively affected by the facility. 3. Procedures for managing excess materials and waste. 	Any renewable energy project, other than a project in respect of a Class 2 wind facility.
4.	Design and operations report	<ol style="list-style-type: none"> 1. Set out a site plan of the project location at which the renewable energy project will be engaged in, including, 	Any renewable energy project, other than a project in

Item	Column 1	Column 2	Column 3
	Name of document	Requirements	Renewable energy project
		<ul style="list-style-type: none"> i. one or more maps or diagrams of, <ul style="list-style-type: none"> A. all buildings, structures, roads, utility corridors, rights of way and easements required in respect of the renewable energy generation facility and situated within 300 metres of the facility, B. any ground water and surface water supplies used at the facility, C. any things from which contaminants are discharged into the air, D. any works for the collection, transmission, treatment and disposal of sewage, E. any areas where waste, biomass, source separated organics and farm material are stored, handled, processed or disposed of, F. the project location in relation to any of the following within 125 metres: properties described in Column 1 of the Table to section 19, heritage resources, archaeological resources, the portion of the Oak Ridges Moraine Conservation Plan Area that is subject to the Oak Ridges Moraine Conservation Plan, the area of the Niagara Escarpment Plan, the Protected Countryside, the Lake Simcoe watershed, and G. any noise receptors or odour receptors that may be negatively affected by the use or operation of the facility, ii. a description of each item diagrammed under subparagraph i, and iii. one or more maps or diagrams of land contours, surface water drainage and any of the following, if they have been identified in complying with this Regulation: properties described in Column 1 of the Table to section 19, heritage resources, archaeological resources, water bodies, significant or provincially significant natural features and any other natural features identified in the Protected Countryside or in the portion of the Oak Ridges Moraine Conservation Plan Area that is subject to the Oak Ridges Moraine Plan. <p>2. Set out conceptual plans, specifications and descriptions related to the design of the renewable energy generation facility, including a description of,</p> <ul style="list-style-type: none"> i. any works for the collection, transmission, treatment and disposal of sewage, including details of any sediment control features and storm water management facilities, ii. any things from which contaminants are discharged into the air, and iii. any systems, facilities and equipment for receiving, handling, storing and processing any waste, biomass, source separated organics, farm material and biogas. <p>3. Set out conceptual plans, specifications and descriptions related to the operation of the renewable energy generation facility, including,</p> <ul style="list-style-type: none"> i. in respect of any water takings, <ul style="list-style-type: none"> A. a description of the time period and duration of water takings expected to be associated with the operation of the facility, B. a description of the expected water takings, including rates, amounts and an assessment of the availability of water to meet the expected demand, and C. an assessment of and documentation showing the potential for the facility to interfere with existing uses of the water expected to be taken, 	<p>respect of a Class 2 wind facility.</p>

Item	Column 1	Column 2	Column 3
	Name of document	Requirements	Renewable energy project
		<ul style="list-style-type: none"> ii. a description of the expected quantity of sewage produced and the expected quality of that sewage at the project location and the manner in which it will be disposed of, including details of any sediment control features and storm water management facilities, iii. a description of any expected concentration of air contaminants discharged from the facility, iv. in respect of any biomass, source separated organics and farm material at the facility, <ul style="list-style-type: none"> A. the maximum daily quantity that will be accepted, B. the estimated annual average quantity that will be accepted, C. the estimated average time that it will remain at the facility, and D. the estimated average rate at which it will be used, and v. in respect of any waste generated as a result of processes at the project location, the management and disposal of such waste, including, <ul style="list-style-type: none"> A. the expected types of waste to be generated, B. the estimated maximum daily quantity of waste to be generated, by type, C. processes for the storage of waste, and D. processes for final disposal of waste. 4. Include an environmental effects monitoring plan in respect of any negative environmental effects that may result from engaging in the renewable energy project, setting out, <ul style="list-style-type: none"> i. performance objectives in respect of the negative environmental effects, ii. mitigation measures to assist in achieving the performance objectives mentioned in subparagraph i, iii. a program for monitoring negative environmental effects for the duration of the time that the project is engaged in, including a contingency plan to be implemented if any mitigation measures fail. 5. Include a response plan setting out a description of the actions to be taken while engaging in the renewable energy project to inform the public, aboriginal communities and municipalities, local roads boards and Local Services Boards with respect to the project, including, <ul style="list-style-type: none"> i. measures to provide information regarding the activities occurring at the project location, including emergencies, ii. means by which persons responsible for engaging in the project may be contacted, and iii. means by which correspondence directed to the persons responsible for engaging in the project will be recorded and addressed. 6. If the project location is in the Lake Simcoe watershed, a description of whether the project requires alteration of the shore of Lake Simcoe, the shore of a fresh water estuary of a stream connected to Lake Simcoe or other lakes or any permanent or intermittent stream and, <ul style="list-style-type: none"> i. how the project may impact any shoreline, including the ecological functions of the shoreline, and ii. how the project will be engaged in to, <ul style="list-style-type: none"> A. maintain the natural contour of the shoreline through the implementation of natural shoreline treatments, such as planting of natural vegetation and bioengineering, and B. use a vegetative riparian area, unless the project location is used for agricultural purposes and will continue to be used for such purposes. 	

Item	Column 1	Column 2	Column 3
	Name of document	Requirements	Renewable energy project
8.	Noise study report	Report to be prepared in accordance with Appendix A of the publication of the Ministry of the Environment entitled, "Basic Comprehensive Certificates of Approval (Air) – User Guide", dated April 2004, as amended from time to time and available from the Ministry.	A renewable energy project in respect of one of the following facilities: 1. A Class 3 anaerobic digestion facility. 2. Class 1 thermal treatment facility, if the generating unit of the facility is located anywhere other than at a farm operation. 3. A Class 3 thermal treatment facility. 4. A biogas facility. 5. A biofuel facility. 6. A Class 3 solar facility.
10.	Project description report	Set out a description of the following in respect of the renewable energy project: 1. Any energy sources to be used to generate electricity at the renewable energy generation facility. 2. The facilities, equipment or technology that will be used to convert the renewable energy source or any other energy source to electricity. 3. If applicable, the class of the renewable energy generation facility. 4. The activities that will be engaged in as part of the renewable energy project. 5. The name plate capacity of the renewable energy generation facility. 6. The ownership of the land on which the project location is to be situated 7. Any negative environmental effects that may result from engaging in the project. 8. An unbound, well marked, legible and reproducible map that is an appropriate size to fit on a 215 millimetre by 280 millimetre page, showing the project location and the land within 300 metres of the project location.	Any renewable energy project.
13.	Wind turbine specifications report	Provide specifications of each wind turbine, including make, model, name plate capacity, hub height above grade, rotational speeds and acoustic emissions data, including the sound power level and frequency spectrum, in terms of octave-band sound power levels.	A renewable energy project in respect of a Class 3, 4 or 5 wind facility.



Stantec

CONTACT RECORD

NAME(S):	Jason Haskett Director, Economic Development	PROJECT NO.:	160960577 / 161010624
TELEPHONE:		REPRESENTING:	MNCFN
RE:	Response to MNCFN	DATE/TIME:	Aug 6, 2010 / am
		RECORDED BY:	Hagen Lee, Samsung

CALL RECEIVED

CALL PLACED

MEETING

NOTES:

- Hagen received a call from Jason, representing the MNCFN.
- Jason wanted to get updates since he was not aware of any follow up since our first meeting.
- Hagen told him that we had been in contact with his colleagues.
- Hagen provided a summary of all communications since the introductory meeting, including letters and the attendance of Carolyn King at the Public Open House for the Project.



Stantec

CONTACT RECORD

NAME(S):	<u>Carolyn King</u>	PROJECT NO.:	<u>160960577 / 161010624</u>
	<u></u>	REPRESENTING:	<u>MNCFN</u>
TELEPHONE:	<u>(905) 768-0100</u>	DATE/TIME:	<u>Aug 23, 2010 / 4:10pm</u>
RE:	<u>MNCFN participation in field work</u>	RECORDED BY:	<u>Kara Hearne</u>

CALL RECEIVED

CALL PLACED

MEETING

NOTES:

- Left voicemail, asked Carolyn to call me back.
- Wanted to discuss the opportunity that had been extended for community members to participate in the field programs for the Samsung project. We currently have aquatic and terrestrial staff out in the field, would like to make sure that if there's still interest that the community has the opportunity to participate.



Stantec

CONTACT RECORD

NAME(S):	<u>Carolyn King</u>	PROJECT NO.:	<u>160960577 / 161010624</u>
		REPRESENTING:	<u>MNCFN</u>
TELEPHONE:	<u>(905) 768-0100</u>	DATE/TIME:	<u>Sep 01, 2010 / 1:45pm</u>
RE:	<u>MNCFN participation in field work, technical meeting</u>	RECORDED BY:	<u>Kara Hearne</u>

CALL RECEIVED

CALL PLACED

MEETING

NOTES:

COMMUNITY PARTICIPATION IN FIELD PROGRAMS

- Following up with Carolyn about community members participating in field work. There is definite interest in the community. MNCFN will provide us with the names and contact information of people that are interested, we will have to hire them directly.
- MNCFN does have an Employment and Training office, who will provide us with the names and help us get in touch with the interested community members. Carolyn will send me an email with the contact name and information for that office.

CONTACT PERSON

- Margaret Sault is returning next Tuesday.

LETTER FROM SAMSUNG

- I wanted to verify that Carolyn received the letter we sent them. She said they probably did, but wasn't sure.
- I mentioned that Jason Haskett had been in touch with Samsung looking for a project update. I asked her to share our response letter with him; please make sure he knows that we have written.

MEETING WITH TECHNICAL STAFF

- I asked if there was any interest in setting up a meeting with technical staff.
- I explained that there is a new environmental assessment process for renewable energy projects in the province. It might be useful to meet with the people that will be reviewing the reports we send.



Stantec

CONTACT RECORD

- Carolyn will discuss with others, including Margaret, the possibility of a meeting and someone will let me know.



Stantec

CONTACT RECORD

NAME(S):	<u>Margaret Sault</u>	PROJECT NO.:	<u>160960577 / 161010624</u>
		REPRESENTING:	<u>MNCFN</u>
TELEPHONE:	<u>(905) 768-0100</u>	DATE/TIME:	<u>Sep 21, 2010 / 3:45pm</u>
RE:	<u>Letter from Samsung, MNCFN participation in field work, technical meeting</u>	RECORDED BY:	<u>Kara Hearne</u>

CALL RECEIVED

CALL PLACED

MEETING

NOTES:

LETTER FROM SAMSUNG

- I wanted to verify that the MNCFN received the letter we sent them. Margaret checked the file, couldn't find it. I told her I would send it to her by email today.

COMMUNITY PARTICIPATION IN FIELD PROGRAMS

- Mentioned that Carolyn was going to email me the information for the Employment and Training office, who would provide me with the names of interested community members.
- Margaret was unsure if the MNCFN was going to accept the offer. Council has hired a consulting firm, who has recommended that the MNCFN do not participate in the field work. The recommendation is that if MNCFN participates in the field work prior to signing a formal agreement with the proponent, it's "putting the cart before the horse". However, Margaret thought that it was a great opportunity for the community, so she's in a difficult position.
- I said that the offer was certainly not intended to put her in a difficult situation; we thought it would be a great opportunity for someone who was interested in participating. Field work is ongoing now, so if someone wants to participate, we should get the logistics organized.
- We agreed that she would discuss it internally and let me know what they decide.

MEETING WITH TECHNICAL STAFF

- I explained that there is a new environmental assessment process for renewable energy projects in the province, and offered to meet with the people that will be reviewing the reports to give them some information on the REA process and the project.



Stantec

CONTACT RECORD

- Margaret said that Carolyn King had been hired to review the reports, and that Margaret would be reviewing as well. They're always looking to learn more, and would like to have the meeting. She will check schedules and send me some possible dates.

Friedl, Susanne

From: Hearne, Kara
Sent: Tuesday, September 21, 2010 4:16 PM
To: 'Margaret.Sault@newcreditfirstnation.com'
Subject: Grand Renewable Energy Park - letter from Samsung
Attachments: SREltrToMNCFN072610.pdf

Hi Margaret,

Thanks very much for taking the time to speak with me this afternoon about Samsung's Grand Renewable Energy Park.

As promised, attached is a copy of the letter that was sent mid-summer.

I look forward to hearing from you regarding community participation in the field programs, and potential dates for a technical meeting to share information about the Renewable Energy Approval process and the Project.

Kind regards,
Kara

Kara Hearne, B.Sc.
Project Manager
Stantec
Suite 1 - 70 Southgate Drive
Guelph ON N1G 4P5
Ph: (519) 836-6050 Ext. 250
Fx: (519) 836-2493
kara.hearne@stantec.com
stantec.COM

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Fax: (519) 836-2493

Stantec

January 18, 2011

File: 161010646/161010624

Margaret Sault, Director
Lands, Membership and Research
Mississaugas of the New Credit First Nation
468 New Credit Road, R.R.#6
Hagersville, ON N0A 1H0

**Reference: Grand Renewable Energy Park
Renewable Energy Approval – Project Update and Information Request**

Dear Ms. Sault:

Samsung Renewable Energy Inc. (Samsung) and Pattern Energy (Pattern) are proposing to develop the Grand Renewable Energy Park (GREP), a combined wind and solar generation project, within Haldimand County, Ontario. If approved, the wind portion of the GREP would have a nameplate capacity of 140 MW and consist of approximately 69 wind turbines. The solar portion of the GREP would have a nameplate capacity of 100 MW and utilize approximately 900 acres of land. Both aspects of the GREP would also include electrical collection lines, a transmission line, substation, and other ancillary facilities such as access roads.

The GREP is subject to the Renewable Energy Approval (REA) process, as outlined in Ontario Regulation 359/09 - Renewable Energy Approvals under Part V.0.1 of the Act of the *Environmental Protection Act* (O.Reg 359/09). Stantec Consulting Ltd. (Stantec) is the primary consultant responsible for preparing the REA application for the GREP.

Project Update

Project work throughout Summer and Fall of 2010 was primarily focused on preliminary engineering work, noise assessments, landowner agreements, natural heritage background and field studies, and dialogue with the local residents, municipality, and aboriginal communities. There was also an Open House held on July 8, 2010, attended by Ms. Carolyn King who represented your department at that time.

We have now completed terrestrial and aquatic field studies for the GREP, and are in the process of analyzing the results of these surveys. We have also completed much of the Stage 2 Archaeological Assessment, and will be continuing this work when the weather permits. Currently, we are beginning the process of drafting reports, and beginning work on the assessment of potential impacts and mitigation measures for environmental features that have been identified. Please find enclosed a copy of our first Project newsletter, issued in December 2010.

January 18, 2011
Ms. Margaret Sault
Page 2 of 3

**Reference: Grand Renewable Energy Park
Renewable Energy Approval – Project Update and Information Request**

The preliminary wind turbine layout for the GREP, which includes 69 wind turbines, has recently been released. We welcome your input on the layout. The map has been uploaded to the project website (www.samsungrenewableenergy.ca), and is also enclosed for your reference. This preliminary wind turbine layout has also recently been submitted to the Ministry of the Environment.

Information Request

We recognize that construction and operation of the GREP has the potential to affect the constitutionally protected aboriginal or treaty rights of your community. However, we do not presently have information from your community regarding how these rights may be affected by project activities. We would welcome the opportunity to understand how aboriginal rights are exercised in the project area (e.g. areas used for traditional activities by your community) so that we may work together and share information on how best to mitigate any potential impacts that may be identified.

As outlined in subsection 17.1.4 of O.Reg. 359/09, we would like to request that you provide, in writing, any information that, in your community's opinion, should be considered in preparing the REA reports for the project, and in particular, any information your community may have about any adverse impacts the GREP may have on constitutionally protected aboriginal or treaty rights and any measures for mitigating those adverse impacts.

To date we have provided your community with the following information regarding the Project:

- Notice of Proposal to Engage in a Renewable Energy Project and Notice of Public Open House
- Project Description Report (version 1)
- Project Description Report (version 2)
- Display boards presented at the Public Open House on July 8, 2010

We sincerely hope that this information will provide the project background you may need to help identify for us the information we have requested. However, should you require additional information about the GREP, please let us know.

Closure

Samsung has previously offered to participate in a meeting with technical staff who may review the REA reports on behalf of the community. This opportunity is still available, and we would be pleased to meet on reserve with technical staff to discuss the new REA process and Project materials that have been sent to date.

January 18, 2011
Ms. Margaret Sault
Page 3 of 3

**Reference: Grand Renewable Energy Park
Renewable Energy Approval – Project Update and Information Request**

In the event that you have any questions or concerns, please do not hesitate to contact Kara Hearne at Stantec via phone (519-836-6050) or email (kara.hearne@stantec.com). We look forward to working with you throughout the development of this renewable energy initiative.

Sincerely,

STANTEC CONSULTING LTD.



Rob Nadolny
Senior Project Manager
Tel: (519) 836-6050
Fax: (519) 836-2493
rob.nadolny@stantec.com

Attachments: GREP Newsletter – Volume 1 (December 2010)
Preliminary Wind Turbine Layout Map

cc. Chief M. Bryan LaForme, Mississaugas of the New Credit First Nation
Kara Hearne, Stantec
Adam Rosso, Samsung
Hagen Lee, Samsung
Marnie Dawson, Samsung
GY Yoo, Samsung



SAMSUNG C&T

161010646/161010624
February 07, 2011
File: 161010646/161010624

February 07, 2011
File: 161010646/161010624

Mississaugas of the New Credit First Nation
2789 Mississauga Road, RR #6
Hagersville, ON N0A 1H0

Attention: Chief M. Bryan LaForme

Reference: Grand Renewable Energy Park

Dear Chief LaForme:

Samsung Renewable Energy Inc. (Samsung) has recently provided an update and information request regarding the Grand Renewable Energy Park (the Project) to the Mississaugas of the New Credit First Nation, in a letter from Stantec Consulting Ltd. (Stantec) dated January 18, 2011.

We would be very pleased to meet with yourself and Council to discuss the Project, ways to engage the community, and any potential impacts your community has identified that the Project may have on constitutionally protected aboriginal or treaty rights, and any measures for mitigating those adverse impacts. Samsung would be happy to meet on reserve at Chief and Council's convenience.

We would also like to know if the Mississaugas of the New Credit have any feedback on the letter from Samsung dated July 26, 2010 and re-sent on September 21, 2010 via email from Stantec. The letter is attached for your reference.

In the event that you have any questions, please do not hesitate to contact Kara Hearne at Stantec via phone (519-836-6050) or email (kara.hearne@stantec.com). We look forward to working with you throughout the development of this renewable energy initiative.

Sincerely,

SAMSUNG RENEWABLE ENERGY INC.



Michael G.Y. Yoo

cc. Margaret Sault, Lands, Membership and Research Department, Mississaugas of the New Credit
Kara Hearne, Stantec
Adam Rosso, Samsung
Hagen Lee, Samsung
Marnie Dawson, Samsung



Stantec Consulting Ltd.
70 Southgate Drive Suite 1
Guelph ON N1G 4P5
Tel: (519) 836-6050
Fax: (519) 836-2493

Stantec

July 19, 2011
File: 160960577 / 161010624

Mississaugas of the New Credit First Nation
2789 Mississauga Road, R.R. #6
Hagersville, ON N0A 1H0

Attention: Chief M. Bryan LaForme

Reference: Grand Renewable Energy Park – Release of Draft Renewable Energy Approval Reports

Dear Chief LaForme:

Samsung C&T (Samsung), Pattern Energy (Pattern), and Korea Power Electric Corporation (KEPCO) (together, these companies referred to herein as “SPK”) are proposing to develop, construct, and operate a wind and solar energy project as part of the Grand Renewable Energy Park (GREP), in Haldimand County. SPK is planning to engage in this renewable energy project in respect of which the issuance of Renewable Energy Approvals (REA) is required. The proposal to engage in the project and the project itself are subject to the provisions of the *Environmental Protection Act (ACT)* Part V.0.1 and Ontario Regulation 359/09 (O. Reg. 359/09).

On behalf of SPK, Stantec is pleased to provide you with a copy of the Draft REA Reports for your review and comment. As required under O. Reg. 359/09 and the Ministry of Natural Resources (MNR) *Approval and Permitting Requirements Document (APRD) for Renewable Energy Projects*, this Draft REA Reports package includes the following draft reports:

- Project Description Report – as outlined in item 10 of Table 1 of O. Reg. 359/09;
- Natural Heritage Assessment Report – as required under sections 24, 25, 26, 27 and 28 of O. Reg. 359/09 and section 6.3 of the MNR’s Requirements Document;
- Construction Plan Report – as outlined in item 1 of Table 1 of O. Reg. 359/09 and section 6.7 of the MNR’s Requirements Document;
- Design and Operations Report – as outlined in item 4 of Table 1 of O. Reg. 359/09 and section 6.6 of the MNR’s Requirements Document;
- Decommissioning Plan Report – as outlined in item 3 of Table 1 of O. Reg. 359/09 and section 6.8 of the MNR’s Requirements Document;
- Environmental Impact Study – as required under section 38 of O. Reg. 359/09;
- Wind Turbine Specifications Report – as outlined in item 13 of Table 1 of O. Reg. 359/09;
- Archaeological and Heritage Reports - as required under sections 19, 20, 21, 22 and 23 of O.Reg. 359/09;
- Water Body and Water Assessment Report - as required under sections 29, 30 and 31 of O. Reg. 359/09. Further information related to potential effects and mitigation measures to water bodies, as required under sections 39, 40, 44, and 45 of O. Reg. 359/09 is provided in the Water Body and Water Assessment Report, Construction Plan Report and Design and Operations Report; and,
- Project Summary Report – as outlined in section 17. (1)3 of O. Reg. 359/09. The Draft Project Summary Report provides a summary of the potential environmental effects including those which the Project may have on constitutionally protected Aboriginal or treaty rights.

July 19, 2011
Attention: Chief M. Bryan LaForme
Page 2 of 2

Reference: Grand Renewable Energy Park – Release of Draft Renewable Energy Approval Reports

The attached Notice of Public Meeting will be published in local newspapers within Haldimand County the week of July 20th. Please let us know if you would also like a copy of the Notice to be published in a newspaper within your community.

The MOE has identified your community as potentially having constitutionally protected aboriginal or treaty rights that may be adversely impacted by the GREP. However, we do not presently have information from your community regarding how these rights may be affected by project activities. We continue to welcome the opportunity to understand how aboriginal rights are exercised in the project area (e.g. areas used for traditional activities by your community) so that we may work together and share information on how best to mitigate any potential impacts that may be identified.

We would like to request that you provide, in writing, any information that, in your community's opinion, should be considered in preparing the final version of the REA reports for the project, and in particular, any information your community may have about any adverse impacts the GREP may have on constitutionally protected aboriginal or treaty rights and any measures for mitigating those adverse impacts. We respectfully request any information/comments you may have by no later than September 22, 2011 so that the information can be considered during project planning and preparation of the final versions of the REA reports. The project team welcomes comments after this date, however only comments received by September 22, 2011 will be included in the Project's Consultation Report that will be submitted as part of the project's REA application.

We also respectfully request that these reports be made available to your community members. Given the size of the enclosed reports, we have not included an additional hard copy in an effort to conserve paper. However, we would be happy to send additional hard copies or electronic copies if needed; please let us know.

In the event that you have any questions or concerns, please do not hesitate to contact Kara Hearne at Stantec via phone (519-836-6050) or email (kara.hearne@stantec.com). We look forward to working with you throughout the development of this renewable energy initiative.

Sincerely,

STANTEC CONSULTING LTD.



Rob Nadolny
Senior Project Manager
Tel: (519) 836-6050
Fax: (519) 836-2493
Rob.nadolny@stantec.com

cc. Ms. Margaret Sault, Director, Lands, Membership and Research Department, Mississaugas of the New Credit First nation

Attachment: Draft REA Reports package
Notice of Public Meeting



Stantec

CONTACT RECORD

NAME(S):	<u>Carolyn King</u>	PROJECT NO.:	<u>160960577 / 161010624</u>
		REPRESENTING:	<u>MNCFN</u>
TELEPHONE:	<u>905-768-7632</u>	DATE/TIME:	<u>September 15, 2011, 10:17am.</u>
RE:	<u>Follow-up on Project status and Possible Meeting</u>	RECORDED BY:	<u>Kara Hearne</u>

CALL RECEIVED

CALL PLACED

MEETING

NOTES:

- Voicemail left on September 15, 2011.
- MS wanted CK to make contact to follow-up on where Samsung was in the Project schedule.
- CK wants to see what was happening with the company and if there is still a possibility to meet.
- Also wants to see if KH is still on the team for this Project.
- CK is back in the office on Friday afternoon.



Stantec

CONTACT RECORD

NAME(S):	<u>Carolyn King</u>	PROJECT NO.:	<u>160960577 / 161010624</u>
		REPRESENTING:	<u>MNCFN</u>
TELEPHONE:	<u>905-768-7632</u>	DATE/TIME:	<u>September 21, 2011, 10:15am.</u>
RE:	<u>Follow-up on Project status and Possible Meeting</u>	RECORDED BY:	<u>Kara Hearne</u>

CALL RECEIVED

CALL PLACED

MEETING

NOTES:

- KH asked CK what type of meeting she was looking at (technical or Chief and Council)?
- Agreed that 1st meeting should be technical meeting.
- Then another meeting can be arranged with Chief and Council.
- Arrange meeting for anytime in the daytime. The meeting will be with MS and CK.
- On the 3rd Monday of the month, plan to meet with Chief and Council. This is the best time to meet with Chief and Council. Will arrange after the technical meeting.
- CK will likely come to POH. KH told CK to ask for PP.
- CK is away next week, between October 4 and 7 (Tuesday to Friday) is the only time CK is available to meet.
- KH will check with the team and try to arrange something by the end of the day Thursday (CK is not in the office on Friday).
- Contact: Carolyn.king@newcreditfirstnation.com

Friedl, Susanne

From: Hearne, Kara
Sent: Wednesday, September 21, 2011 4:10 PM
To: 'Carolyn King'
Subject: RE: GREP - technical meeting

Great news! Let's say Wednesday, October 12 at 1:00pm. Let me know if that works for you, and where the meeting will be held.

We're going to try to send a maximum of 5 people so we're not overloading your boardroom! Does that sound like an ok number? I can cut more if needed.

Cheers,
Kara

-----Original Message-----

From: Carolyn King [mailto:Carolyn.King@newcreditfirstnation.com]
Sent: Wednesday, September 21, 2011 3:32 PM
To: Hearne, Kara
Subject: RE: GREP - technical meeting

KARA. yes, the next week will work . I talked with Margaret, she is available for that week.

Carolyn King
Geomatics Environmental Technician
Mississaugas of the New Credit First Nation Council Lands, Research & Membership Dept.
Consultation & Outreach Office - Old Council Hse.
2789 Mississauga Rd. RR 6
Hagersville, ON
NOA 1H0
T: 905-768-7632
F: 905-768-1225

From: Hearne, Kara [kara.hearne@stantec.com]
Sent: Wednesday, September 21, 2011 3:01 PM
To: Carolyn King
Subject: GREP - technical meeting

Hi Carolyn,

It was nice speaking with you today, hope you're having a good day at the Caring Together event this afternoon. Hopefully there's no bees there!

I have realized that I forgot when talking to you that the week of Oct 4-7 is an annual wind energy conference; almost everyone from the project team will be away that week. My apologies - is there any way to move the technical meeting to the following week (Tues Oct 11 to Fri Oct 14)? The REA application will have been submitted to the MOE by that point, but that just means that the meeting won't be captured in the REA Consultation Report.

I'm back in the office tomorrow afternoon; I'll give you a call and see if you're in the office. If I don't catch you, have a lovely vacation and we'll touch base when you get back to pick a date/time to meet.

Kind regards,

Kara

Kara Hearne
Project Manager - Assessment, Permitting & Compliance Stantec
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Friedl, Susanne

From: Hearne, Kara
Sent: Friday, September 23, 2011 11:07 AM
To: Margaret.Sault@newcreditfirstnation.com; Carolyn King
(carolyn.king@newcreditfirstnation.com)
Subject: GREP: open house display boards
Attachments: Samsung - Open House #2 display boards.pdf

Hi Carolyn and Margaret,

It was great to see you last night, I'm happy you made it out to the open house! As promised, attached is a pdf of the display panels that we had set up around the room last night.

We look forward to seeing you on October 12 (1pm). Can you let me know where on reserve we should meet you?

Have a great weekend,
Kara

Kara Hearne
Project Manager - Assessment, Permitting & Compliance
Stantec
70 Southgate Drive Suite 1
Guelph ON N1G 4P5
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Appendix H4

Correspondence with the Métis Nation of Ontario

Grand Renewable Energy Park
 Aboriginal Correspondence Summary
 Metis Nation of Ontario

Date	Method of Communication	Title	First Name	Last Name	Job Title	Department	Other Community Members Included on Correspondence	All Parties Included on Correspondence	Comment(s)
May 20, 2010	Voicemail - Sent Stantec (KH) to MNO	Ms.	Melanie	Paradis	Director	Lands, Resources and Consultation	n/a	MNO, Stantec	- Working on a wind and solar project in southern Ontario, wanted to provide some pre-disclosure information regarding the project.
June 4, 2010	Phone Conversation Stantec (KH) to MNO	Mr.	James	Wagar	Consultation Assessment Coordinator	Lands, Resources and Consultation	n/a	MNO, Stantec	- Stantec provided general overview of GREP. - Notice to Engage in Project being published on 2010-06-07. - Notice and draft Project Description Report will arrive in courier to President Lipinski (cc. to Melanie Paradis) on 2010-06-07. - The MNO will review and will be in touch.
June 4, 2010	Letter - Sent Stantec (RN) to MNO	President	Gary	Lipinski	n/a	n/a	Melanie Paradis	MNO, SPK, Stantec	- Introduction to Project. - ATTACHMENTS: Notice to Engage in a Project & Notice of Public Open House, and Draft Project Description Report.
June 24, 2010	Letter - Sent Stantec (RN) to MNO	President	Gary	Lipinski	n/a	n/a	Melanie Paradis	MNO, SPK, Stantec	- Draft Project Description Report has been updated to include additional information related to Project setbacks and the identification of potential environmental effects. - ATTACHMENT: Draft Project Description Report (Version 2)
June 29, 2010	Phone Conversation Stantec (KH) to MNO	Mr.	James	Wagar	Consultation Assessment Coordinator	Lands, Resources and Consultation	n/a	MNO, Stantec	- The MNO has an interest in the Project, although they understand the sensitivity of the Project location with respect to First Nations interests. - Will try to respond by end of next week; are likely to propose a small meeting to determine how to engage the Metis community. - Would like to develop a brief written understanding of how the MNO will be engaged on the Project.
August 4, 2010	Phone Conversation MNO to Stantec (KH)	Mr.	James	Wagar	Consultation Assessment Coordinator	Lands, Resources and Consultation	n/a	MNO, Stantec	- MNO has reviewed GREP materials sent by Stantec. - Asked about project location re: Six Nations; Stantec confirmed that GREP is in Haldimand Tract, not on reserve. - MNO asked about agricultural lands being used for GREP. Stantec explained Canada Land Inventory Classification System. - MNO would like to have an introductory meeting; they are busy in August, perhaps September. - MNO will send email with a couple date options for the meeting.
September 21, 2010	Phone Conversation Stantec (KH) to MNO	Mr.	James	Wagar	Consultation Assessment Coordinator	Lands, Resources and Consultation	n/a	MNO, Stantec	- Stantec explained that meeting may end up being postponed; SRE has a new REA manager, may need a bit of time to get familiar with GREP. - MNO provided potential dates and list of attendees. - MNO will send an email with potential dates and draft of budget for meeting.

Grand Renewable Energy Park
 Aboriginal Correspondence Summary
 Metis Nation of Ontario

Date	Method of Communication	Title	First Name	Last Name	Job Title	Department	Other Community Members Included on Correspondence	All Parties Included on Correspondence	Comment(s)
November 22, 2010	Phone Conversation Stantec (KH) to MNO	Mr.	James	Wagar	Consultation Assessment Coordinator	Lands, Resources and Consultation	n/a	MNO, Stantec	<ul style="list-style-type: none"> - Samsung would be pleased to meet with the MNO community to discuss the GREP, and project materials that have been sent out to date. - Noted that Samsung representatives attending an introductory meeting would be prepared to share information relating to the GREP, but would not at this time be discussing potential economic development opportunities. - At this time Samsung is not prepared to provide funding for MNO attendance at the meeting. Samsung is prepared to arrange a conference call option for those community members that may be unable to travel under these circumstances. - The Aboriginal community list received from the MOE identifies the MNO as potentially having an interest in the environmental effects of the GREP, but does not identify the MNO as one of the communities that have or may have constitutionally protected aboriginal or treaty rights that may be adversely impacted by the GREP. - MNO requested a copy of the MOE Aboriginal communities list.
December 1, 2010	Email - Sent Stantec (KH) to MNO	Mr.	James	Wagar	Consultation Assessment Coordinator	Lands, Resources and Consultation	n/a	MNO, Stantec, SPK	<ul style="list-style-type: none"> - Email documenting phone call on 2010-11-22. - Attached MOE Aboriginal communities list, as requested by the MNO.
January 18, 2011	Letter - Sent Stantec (RN) to MNO	Mr.	James	Wagar	Consultation Assessment Coordinator	Lands, Resources and Consultation	President Gary Lipinski	MNO, Stantec, SPK	<ul style="list-style-type: none"> - Project update and information request letter. - Update provided on Project work, including status of the Natural Heritage Assessment, archaeological work, and Project layout. - Request any information that should be considered in preparing the REA reports for the Project, and any information the community may have about any adverse impacts the GREP may have on constitutionally protected aboriginal or treaty rights and any measures for mitigating those adverse impacts. - Listed Project information sent to date to help identify for us the information we have requested. However, let us know if more information is needed. - ATTACHMENTS: preliminary wind turbine layout map, Project Newsletter Volume 1 (December 2010).

Grand Renewable Energy Park
 Aboriginal Correspondence Summary
 Metis Nation of Ontario

Date	Method of Communication	Title	First Name	Last Name	Job Title	Department	Other Community Members Included on Correspondence	All Parties Included on Correspondence	Comment(s)
July 19, 2011	Letter - Sent Stantec (RN) to MNO	Mr.	James	Wagar	Consultation Assessment Coordinator	Lands, Resources and Consultation	President Gary Lipinski	Stantec, MNO	<p>-On behalf of SPK, Stantec is providing the Draft REA Reports for review and comment.</p> <p>-Notice of Public Meeting will be published in local newspapers in Haldimand County the week of July 20th. Please let us know if you would like a copy published in a newspaper within your community.</p> <p>-The Ministry of the Environment has identified your community as potentially having constitutionally protected Aboriginal or treaty rights that may be adversely impacted by the GREP.</p> <p>- We do not presently have information from your community regarding how these rights may be affected by project activities. We continue to welcome the opportunity to understand how aboriginal rights are exercised in the project area so that we may work together and share information on how best to mitigate any potential impacts that may be identified.</p> <p>- Requested any information that, in your community's opinion, should be considered in preparing the final version of the REA reports for the project, and in particular, any information your community may have about any adverse impacts the GREP may have on constitutionally protected aboriginal or treaty rights and any measures for mitigating those adverse impacts.</p> <p>- The project team welcomes comments after September 22, 2011, however only comments received by that date will be included in the Project's Consultation Report that will be submitted as part of the Project's REA application.</p> <p>- Respectfully request that the draft REA reports be made available to your community members. Given the size of the enclosed reports, we have not included an additional hard copy in an effort to conserve paper. However, we would be happy to send additional hard copies or electronic copies if needed; please let us know.</p> <p>- ATTACHMENTS: Draft REA reports package, Notice of Public Meeting.</p>



Stantec

CONTACT RECORD

NAME(S):	Melanie Paradis Director of Lands, Resources and Consultation	PROJECT NO.:	160960577 / 161010624
TELEPHONE:	416-977-9881	REPRESENTING:	Métis Nation of Ontario
RE:	Pre-disclosure project notification	DATE/TIME:	Th May 20 2010 / ~2:00pm
		RECORDED BY:	Kara Hearne

CALL RECEIVED

CALL PLACED

MEETING

NOTES:

- Left voicemail.
- We're working on a new, large, wind and solar project in southern Ontario.
- Notice to Engage in the project has not yet been published.
- Want to provide some pre-disclosure information regarding the project.



Stantec

Stantec Consulting Ltd.
Suite 1 - 70 Southgate Drive
Guelph ON N1G 4P5
Tel: (519) 836-6050
Fax: (519) 836-2493

June 4, 2010
File: 160960577 / 161010624

Métis Nation of Ontario
500 Old Patrick St., Unit D
Ottawa, ON K1N 9G4

Attention President Gary Lipinski:

**Reference: Grand Renewable Energy Park
Draft Project Description and Notice to Engage/Public Open House**

Dear President Lipinski:

On behalf of Samsung Renewable Energy Inc. (Samsung), please find enclosed the Draft Project Description and Notice to Engage/Public Open House for the proposed Grand Renewable Energy Park to be located within Haldimand County, Ontario. If approved, the wind aspect of the Project would have a nameplate capacity of 140 MW and consist of approximately 63 wind turbines (depending upon the turbine make and model). The solar aspect of the Project would have a nameplate capacity of 100 MW and consist of approximately 700 acres of land. Both aspects of the Project would also include electrical collection lines, a 30 km transmission line, substation, and other ancillary facilities such as access roads.

The Draft Project Description Report provides a summary of the Project as required by Ontario Regulation 359/09 - Renewable Energy Approvals under Part V.0.1 of the Act of the *Environmental Protection Act* ("the Regulation").

The Notice to Engage/Public Open House will be published in local newspapers within Haldimand County the week of June 7th. Please let us know if you would also like a copy of the Notice to be published in a newspaper within your community.

In the event that you have any questions or concerns, please do not hesitate to contact Kara Hearne at Stantec via phone (519-836-6050) or email (kara.hearne@stantec.com). We look forward to working with you throughout the development of this renewable energy initiative.

Sincerely,

STANTEC CONSULTING LTD.

Rob Nadolny
Senior Project Manager
Tel: (519) 836-6050
Fax: (519) 836-2493
Rob.nadolny@stantec.com

Attachment: Draft Project Description and Notice to Engage/Public Open House

CC. Adam Rosso, Samsung Renewable Energy Inc.
Melanie Paradis, Métis Nation of Ontario (Lands, Resources and Consultation Branch)



Stantec Consulting Ltd.
Suite 1 - 70 Southgate Drive
Guelph ON N1G 4P5
Tel: (519) 836-6050
Fax: (519) 836-2493

Stantec

June 24, 2010
File: 160960577 / 161010624

Métis Nation of Ontario
500 Old Patrick St., Unit D
Ottawa, ON K1N 9G4

Attention President Gary Lipinski:

**Reference: Grand Renewable Energy Park
Draft Project Description – Version 2**

Dear President Lipinski:

On behalf of Samsung Renewable Energy Inc. (Samsung), please find enclosed the Draft Project Description – Version 2 for the proposed Grand Renewable Energy Park to be located within Haldimand County, Ontario. Draft Project Description Report - Version 2 has been updated to include additional information related to Project setbacks and the identification of potential environmental effects.

If approved, the wind aspect of the Project would have a nameplate capacity of 140 MW and consist of approximately 63 wind turbines (depending upon the turbine make and model). The solar aspect of the Project would have a nameplate capacity of 100 MW and consist of approximately 700 acres of land. Both aspects of the Project would also include electrical collection lines, a 30 km transmission line, substation, and other ancillary facilities such as access roads.

In the event that you have any questions or concerns, please do not hesitate to contact Kara Hearne at Stantec via phone (519-836-6050) or email (kara.hearne@stantec.com). We look forward to working with you throughout the development of this renewable energy initiative.

Sincerely,

STANTEC CONSULTING LTD.

Rob Nadolny
Senior Project Manager
Tel: (519) 836-6050
Fax: (519) 836-2493
Rob.nadolny@stantec.com

Attachment: Draft Project Description – Version 2

CC. Adam Rosso, Samsung Renewable Energy Inc.
Melanie Paradis, Métis Nation of Ontario (Lands, Resources and Consultation Branch)



Stantec

CONTACT RECORD

NAME(S):	James Wagar Consultation Assessment Coordinator - Lands, Resources and Consultation Branch	PROJECT NO.:	160960577 / 161010624
TELEPHONE:	416-977-9881	REPRESENTING:	Métis Nation of Ontario
RE:	Grand Renewable Energy Park	DATE/TIME:	T Jun 29 2010 / 2:45-3:00pm
		RECORDED BY:	Kara Hearne

CALL RECEIVED

CALL PLACED

MEETING

NOTES:

- James received our Draft Project Description Report – Version 2.
- The MNO understands the sensitivity of the project because of First Nations and where it is located.
- Because of the size of the project, the MNO definitely has an interest in the project. Also, because Samsung will have other projects in the province in the future, it is a good time to start building a relationship.
- Because of the sensitivity of the project due to First Nations interests, the MNO will likely recommend a small initial meeting to determine how to meet with the Metis community, what issues to address throughout the engagement process (e.g. economic development), and how their comments will be addressed in the EA.
- They will want to draw up some kind of very brief, written understanding on how they'll be engaged in the project – this is not foreseen as being as extensive as a Memorandum of Understanding. There is not a signed Consultation Protocol for Region 9, so this is necessary for everyone's protection. It would include factors such as the number of meetings, and expenses for mileage and report review.
- James asked about the timeline for the project. I responded that this project will be on an accelerated timeline. The first open house is next week. James doesn't think that the MNO will be able to attend the open house.
- James verified that initially, a community information session is not what's envisioned. A small meeting, with perhaps one representative from each community council and one rep from the LRC Branch may be more appropriate. This group can decide how to engage the community.
- James will try to get a response to Stantec by the end of next week.



Stantec

CONTACT RECORD

NAME(S):	James Wagar Consultation Assessment Coordinator - Lands, Resources and Consultation Branch	PROJECT NO.:	160960577 / 161010624
TELEPHONE:	416-977-9881	REPRESENTING:	Métis Nation of Ontario
RE:	Grand Renewable Energy Park	DATE/TIME:	W Aug 4 2010 / 2:30pm
		RECORDED BY:	Kara Hearne

CALL RECEIVED

CALL PLACED

MEETING

NOTES:

- James has read through the Draft Project Description Report – Version 2.
- The MNO definitely wants to know more about the Project.
- James knows that the Public Open House happened awhile ago, but hopes we understand that their community has different interests and timelines.
- James noted that there is no mention of the Six Nations in the PDR, it doesn't say that the Project is on reserve. I explained that the Project is within the Haldimand Tract, an area with an active land claim, but is not on reserve lands.
- James asked about the agricultural mapping in the PDR, and noted that it was strange that the entire Project area is not considered prime agricultural land since it's so close to Lake Erie. I explained the Canada Land Inventory Classification System, and that portions of the solar project would be on Class 3 agricultural land.
- The MNO will be very busy with their Annual General Assembly until the end of August, would like to meet sometime after August 25.
- James will send me a couple of options for meeting dates.
- The MNO may ask that the meeting be held near the Project area instead of at Stantec's Guelph office, they will let me know and we can discuss later.
- The meeting would likely be attended by 1-2 representatives from each community council (2 councils currently interested), the regional councillor, James, and another MNO representative.
- Once the meeting is set up, James and I will talk about the meeting agenda over email.

Friedl, Susanne

From: James Wagar <JamesW@metisnation.org>
Sent: Tuesday, October 05, 2010 9:37 AM
To: Hearne, Kara
Subject: RE: MNO & Samsung Meeting

Thank you Kara

Miigwetch - Merci - Thank You

James W. Wagar

Consultation Assessment Coordinator
Lands, Resources and Consultation
Métis Nation of Ontario
75 Sherbourne St., Suite 222
Toronto, Ontario M5A 2P9

Toll Free: 888.466.6684
Tel: 416.977.9881 ext.107
Cell: 905.447.6612
Fax: 416.977.9911

JamesW@metisnation.org

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From: Hearne, Kara [mailto:kara.hearne@stantec.com]
Sent: October 5, 2010 9:25 AM
To: James Wagar
Subject: RE: MNO & Samsung Meeting

Hi James,
I'm checking into it, and will get back to you as soon as I can. I appreciate your patience.

Take care,
Kara

From: James Wagar [mailto:JamesW@metisnation.org]
Sent: Thursday, September 30, 2010 10:08 AM
To: James Wagar; Hearne, Kara
Subject: RE: MNO & Samsung Meeting

Hello Kara,

I am just touching base to see what the progress is in setting up a meeting between the Region 9 Consultation Committee and Samsung to discuss the Grand Renewable Energy Park project.

Miigwetch - Merci - Thank You

James W. Wagar

Consultation Assessment Coordinator
Lands, Resources and Consultation
Métis Nation of Ontario
75 Sherbourne St., Suite 222
Toronto, Ontario M5A 2P9

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JamesW@metisnation.org

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From: James Wagar
Sent: September 21, 2010 4:56 PM
To: 'Hearne, Kara'
Subject: MNO & Samsung Meeting

Thanks Kara,

The following represents the days in which the community is available to meet with you on the Samsung project.

October 5, 8, 11, 12, 15, 18, 19, 20, 22, 25, 26, 27, and 29th. It might be best to provide me with a number of days that would work for the team, just in case.

Attached represents a draft budget of the expenses incurred by the community participants whom are volunteering their time.

If you have any questions please let me know. I look forward to seeing you soon!

Miigwetch - Merci - Thank You

James W. Wagar

Consultation Assessment Coordinator
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JamesW@metisnation.org

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Friedl, Susanne

From: Hearne, Kara
Sent: Wednesday, December 01, 2010 2:18 PM
To: 'James Wagar'
Cc: 'Marnie Dawson'; 'Hagen Lee'; Adam Rosso
Subject: Grand Renewable Energy Park
Attachments: Aboriginal List - Sept 23 2010.pdf

Hi James,

This email is to document our phone conversation on November 22, 2010.

As discussed, Samsung would be pleased to meet with you and members of the MNO community to discuss the Grand Renewable Energy Park (GREP), and project materials that have been sent out to date. It should be noted that Samsung representatives attending an introductory meeting would be prepared to share information relating to the GREP, but would not at this time be discussing potential economic development opportunities.

Representatives from Samsung and Stantec would be happy to meet at a location of your choice. However, at this time Samsung is not prepared to provide funding for MNO attendance at the meeting. We are prepared to arrange a conference call option for those community members that may be unable to travel under these circumstances.

As requested, the Aboriginal Communities List for the GREP received from the Ministry of the Environment is attached for your continued reference.

We look forward to working with you on this renewable energy initiative.

Best regards,
Kara

Kara Hearne, B.Sc.
Project Manager
Stantec
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Stantec

January 18, 2011
File: 161010646/161010624

James Wagar, Consultation Assessment Coordinator
Lands, Resources and Consultation
Métis Nation of Ontario
75 Sherbourne St., Suite 222
Toronto, Ontario M5A 2P9

**Reference: Grand Renewable Energy Park
Renewable Energy Approval – Project Update and Information Request**

Dear Mr. Wagar,

Samsung Renewable Energy Inc. (Samsung) and Pattern Energy (Pattern) are proposing to develop the Grand Renewable Energy Park (GREP), a combined wind and solar generation project, within Haldimand County, Ontario. If approved, the wind portion of the GREP would have a nameplate capacity of 140 MW and consist of approximately 69 wind turbines. The solar portion of the GREP would have a nameplate capacity of 100 MW and utilize approximately 900 acres of land. Both aspects of the GREP would also include electrical collection lines, a transmission line, substation, and other ancillary facilities such as access roads.

The GREP is subject to the Renewable Energy Approval (REA) process, as outlined in Ontario Regulation 359/09 - Renewable Energy Approvals under Part V.0.1 of the Act of the *Environmental Protection Act* (O.Reg 359/09). Stantec Consulting Ltd. (Stantec) is the primary consultant responsible for preparing the REA application for the GREP.

Project Update

Project work throughout Summer and Fall of 2010 was primarily focused on preliminary engineering work, noise assessments, landowner agreements, natural heritage background and field studies, and dialogue with the local residents, municipality, and aboriginal communities. There was also an Open House held on July 8, 2010, to which you were invited.

We have now completed terrestrial and aquatic field studies for the GREP, and are in the process of analyzing the results of these surveys. We have also completed much of the Stage 2 Archaeological Assessment, and will be continuing this work when the weather permits. Currently, we are beginning the process of drafting reports, and beginning work on the assessment of potential impacts and mitigation measures for environmental features that have been identified. Please find enclosed a copy of our first Project newsletter, issued in December 2010.

The preliminary wind turbine layout for the GREP, which includes 69 wind turbines, has recently been released. We welcome your input on the layout. The map has been uploaded to the project website (www.samsungrenewableenergy.ca), and is also enclosed for your reference. This preliminary wind turbine layout has also recently been submitted to the Ministry of the Environment.

January 18, 2011
Mr. James Wagar
Page 2 of 2

**Reference: Grand Renewable Energy Park
Renewable Energy Approval – Project Update and Information Request**

Information Request

As outlined in subsection 17.1.4 of O.Reg. 359/09, we would like to request that you provide, in writing, any information that, in your community's opinion, should be considered in preparing the REA reports for the project, and in particular, any information your community may have about any adverse impacts the GREP may have on constitutionally protected aboriginal or treaty rights and any measures for mitigating those adverse impacts. We would also welcome the opportunity to understand any interest your community may have in the potential environmental effects of the GREP.

To date we have provided your community with the following information regarding the Project:

- Notice of Proposal to Engage in a Renewable Energy Project and Notice of Public Open House
- Project Description Report (version 1)
- Project Description Report (version 2)

We sincerely hope that this information will provide the project background you may need to help identify for us the information we have requested. Should you require additional information about the GREP, please let us know.

Closure

In the event that you have any questions or concerns, please do not hesitate to contact Kara Hearne at Stantec via phone (519-836-6050) or email (kara.hearne@stantec.com). We look forward to working with you throughout the development of this renewable energy initiative.

Sincerely,

STANTEC CONSULTING LTD.



Rob Nadolny
Senior Project Manager
Tel: (519) 836-6050
Fax: (519) 836-2493
rob.nadolny@stantec.com

Attachments: GREP Newsletter – Volume 1 (December 2010)
Preliminary Wind Turbine Layout Map

cc. President Gary Lipinski, Métis Nation of Ontario
Kara Hearne, Stantec
Adam Rosso, Samsung
Hagen Lee, Samsung
Marnie Dawson, Samsung
GY Yoo, Samsung



Stantec Consulting Ltd.
70 Southgate Drive Suite 1
Guelph ON N1G 4P5
Tel: (519) 836-6050
Fax: (519) 836-2493

Stantec

July 19, 2011
File: 160960577 / 161010624

Métis Nation of Ontario
222-75 Sherbourne Street
Toronto, ON M5A 2P9

Attention: Mr. James Wagar, Consultation Assessment Coordinator, Lands, Resources and Consultation Branch

Reference: Grand Renewable Energy Park – Release of Draft Renewable Energy Approval Reports

Dear Mr. Wagar:

Samsung C&T (Samsung), Pattern Energy (Pattern), and Korea Power Electric Corporation (KEPCO) (together, these companies referred to herein as “SPK”) are proposing to develop, construct, and operate a wind and solar energy project as part of the Grand Renewable Energy Park (GREP), in Haldimand County. SPK is planning to engage in this renewable energy project in respect of which the issuance of Renewable Energy Approvals (REA) is required. The proposal to engage in the project and the project itself are subject to the provisions of the *Environmental Protection Act (ACT)* Part V.0.1 and Ontario Regulation 359/09 (O. Reg. 359/09).

On behalf of SPK, Stantec is pleased to provide you with a copy of the Draft REA Reports for your review and comment. As required under O. Reg. 359/09 and the Ministry of Natural Resources (MNR) *Approval and Permitting Requirements Document (APRD) for Renewable Energy Projects*, this Draft REA Reports package includes the following draft reports:

- Project Description Report – as outlined in item 10 of Table 1 of O. Reg. 359/09;
- Natural Heritage Assessment Report – as required under sections 24, 25, 26, 27 and 28 of O. Reg. 359/09 and section 6.3 of the MNR’s Requirements Document;
- Construction Plan Report – as outlined in item 1 of Table 1 of O. Reg. 359/09 and section 6.7 of the MNR’s Requirements Document;
- Design and Operations Report – as outlined in item 4 of Table 1 of O. Reg. 359/09 and section 6.6 of the MNR’s Requirements Document;
- Decommissioning Plan Report – as outlined in item 3 of Table 1 of O. Reg. 359/09 and section 6.8 of the MNR’s Requirements Document;
- Environmental Impact Study – as required under section 38 of O. Reg. 359/09;
- Wind Turbine Specifications Report – as outlined in item 13 of Table 1 of O. Reg. 359/09;
- Archaeological and Heritage Reports - as required under sections 19, 20, 21, 22 and 23 of O.Reg. 359/09;
- Water Body and Water Assessment Report - as required under sections 29, 30 and 31 of O. Reg. 359/09. Further information related to potential effects and mitigation measures to water bodies, as required under sections 39, 40, 44, and 45 of O. Reg. 359/09 is provided in the Water Body and Water Assessment Report, Construction Plan Report and Design and Operations Report; and,

July 19, 2011

Mr. James Wagar, Consultation Assessment Coordinator, Lands, Resources and Consultation Branch

Page 2 of 2

Reference: Grand Renewable Energy Park – Release of Draft Renewable Energy Approval Reports

- Project Summary Report – as outlined in section 17. (1)3 of O. Reg. 359/09. The Draft Project Summary Report provides a summary of the potential environmental effects including those which the Project may have on constitutionally protected Aboriginal or treaty rights.

The attached Notice of Public Meeting will be published in local newspapers within Haldimand County the week of July 20th. Please let us know if you would also like a copy of the Notice to be published in a newspaper within your community.

The MOE has identified your community as potentially having constitutionally protected aboriginal or treaty rights that may be adversely impacted by the GREP. However, we do not presently have information from your community regarding how these rights may be affected by project activities. We continue to welcome the opportunity to understand how aboriginal rights are exercised in the project area (e.g. areas used for traditional activities by your community) so that we may work together and share information on how best to mitigate any potential impacts that may be identified.

We would like to request that you provide, in writing, any information that, in your community's opinion, should be considered in preparing the final version of the REA reports for the project, and in particular, any information your community may have about any adverse impacts the GREP may have on constitutionally protected aboriginal or treaty rights and any measures for mitigating those adverse impacts. We respectfully request any information/comments you may have by no later than September 22, 2011 so that the information can be considered during project planning and preparation of the final versions of the REA reports. The project team welcomes comments after this date, however only comments received by September 22, 2011 will be included in the Project's Consultation Report that will be submitted as part of the project's REA application.

We also respectfully request that these reports be made available to your community members. Given the size of the enclosed reports, we have not included an additional hard copy in an effort to conserve paper. However, we would be happy to send additional hard copies or electronic copies if needed; please let us know.

In the event that you have any questions or concerns, please do not hesitate to contact Kara Hearne at Stantec via phone (519-836-6050) or email (kara.hearne@stantec.com). We look forward to working with you throughout the development of this renewable energy initiative.

Sincerely,

STANTEC CONSULTING LTD.



Rob Nadolny

Senior Project Manager

Tel: (519) 836-6050

Fax: (519) 836-2493

Rob.nadolny@stantec.com

cc. President Gary Lipinski, Métis Nation of Ontario

Attachment: Draft REA Reports package
Notice of Public Meeting

Appendix H5

Correspondence with the Wahta Mohawks

Grand Renewable Energy Park
 Aboriginal Correspondence Summary
 Wahta Mohawks

Date	Method of Communication	Title	First Name	Last Name	Job Title	Department	Other Community Members Included on Correspondence	All Parties Included on Correspondence	Comment(s)
November 15, 2010	Letter - Sent Stantec (RN) to WM	Chief	Blaine	Commandant	n/a	n/a	n/a	WM, SPK, Stantec	<ul style="list-style-type: none"> - Introductory letter with Project overview. - In accordance with O.Reg.359/09, the Ministry of the Environment has recently provided the list of Aboriginal communities that may have interests in the Project; your community was included on this list. - We noted that your community was not included on the correspondence and information circulated regarding the Project prior to receiving this list from the MOE and therefore wanted to send you the Project information sent to date. - Requested an introductory meeting with community representatives. - Offered to hold a Community Information Session to introduce Project to general community. - ATTACHMENTS: Draft Project Description Report (v2), Notice to Engage and Notice of Public Open House, and a copy of the Public Open House #1 display boards.
June 10, 2011	Letter - Sent Stantec (RN) to WM	Chief	Blaine	Commandant	n/a	n/a	n/a	WM, SPK, Stantec	<ul style="list-style-type: none"> - Project update and information request letter. - Update provided on Project work, including status of the Natural Heritage Assessment, archaeological work, and Project layout. - Request any information that should be considered in preparing the REA reports for the Project, and any information the community may have about any adverse impacts the GREP may have on constitutionally protected aboriginal or treaty rights and any measures for mitigating those adverse impacts. - Listed Project information sent to date to help identify for us the information we have requested. However, let us know if more information is needed. - ATTACHMENTS: preliminary wind turbine layout map, Project Newsletter Volume 1 (December 2010).
July 19, 2011	Letter - Sent Stantec (RN) to WM	Chief	Blaine	Commandant	n/a	n/a	n/a	WM, Stantec	<ul style="list-style-type: none"> -On behalf of SPK, Stantec is providing the Draft REA Reports for review and comment. -Notice of Public Meeting will be published in local newspapers in Haldimand County the week of July 20th. Please let us know if you would like a copy published in a newspaper within your community. -The Ministry of the Environment has identified your community as potentially having constitutionally protected Aboriginal or treaty rights that may be adversely impacted by the GREP. - We do not presently have information from your community regarding how these rights may be affected by project activities. We continue to welcome the opportunity to understand how aboriginal rights are exercised in the project area so that we may work together and share information on how best to mitigate any potential impacts that may be identified. - Requested any information that, in your community's opinion, should be considered in preparing the final version of the REA reports for the project, and in particular, any information your community may have about any adverse impacts the GREP may have on constitutionally protected aboriginal or treaty rights and any measures for mitigating those adverse impacts. - The project team welcomes comments after September 22, 2011, however only comments received by that date will be included in the Project's Consultation Report that will be submitted as part of the Project's REA application. - Respectfully request that the draft REA reports be made available to your community members. Given the size of the enclosed reports, we have not included an additional hard copy in an effort to conserve paper. However, we would be happy to send additional hard copies or electronic copies if needed; please let us know. - ATTACHMENTS: Draft REA reports package, Notice of Public Meeting.



Stantec

Stantec Consulting Ltd.
Suite 1 - 70 Southgate Drive
Guelph ON N1G 4P5
Tel: (519) 836-6050
Fax: (519) 836-2493

November 15, 2010
File: 161010646/161010624

Wahta Mohawks
PO Box 260
2664 Muskoka Rd. 38
Bala ON P0C 1A0
Phone (705) 762-2354

Attention: Chief Blaine Commandant

**Reference: Grand Renewable Energy Park
Notification of Project, Project Description Report and Public Open House Display
Panels**

Dear Chief Commandant:

On behalf of Samsung Renewable Energy Inc. (Samsung) and Pattern Energy (Pattern), please find enclosed the Draft Project Description Report and Notice to Engage & Notice of Public Open House for the proposed Grand Renewable Energy Park (the Project), a combined wind and solar generation project, to be located within Haldimand County, Ontario. If approved, the wind aspect of the Project would have a nameplate capacity of 140 MW and consist of approximately 63 wind turbines (depending upon the turbine make and model). The solar aspect of the Project would have a nameplate capacity of 100 MW and consist of approximately 900 acres of land. Both aspects of the Project would also include electrical collection lines, a 30 km transmission line, substation, and other ancillary facilities such as access roads.

The Draft Project Description Report provides a summary of the Project as required by Ontario Regulation 359/09 - Renewable Energy Approvals under Part V.0.1 of the Act of the *Environmental Protection Act* (the Regulation).

In accordance with subsection 14.(1)(b) of the Regulation, the Ontario Ministry of the Environment (MOE) is required to provide the proponent with a list of aboriginal communities who have or may have constitutionally protected aboriginal or treaty rights that may be adversely impacted by the project, or otherwise may be interested in any negative environmental effects of the project. We have recently been provided with this list from the MOE, which identifies your community as having potential interest in the Project. We noted that your community was not included on the correspondence and information circulated regarding the Project prior to receiving this list from the MOE and therefore wanted to send you the Project information sent to date.

The Notice to Engage & Notice of Public Open House was published in local newspapers within Haldimand County the week of June 7, 2010. A copy of this notice is attached for your information. A Public Open House was held on July 8, 2010 in Cayuga, Ontario. Attached is a copy of the information display panels presented at that Open House.

We would be happy to meet with your community representatives to discuss the Project and enclosed Project materials. Please let us know if you would like to have this introductory meeting, and if you would prefer to have the meeting on reserve, or alternatively require capacity for representatives to attend the meeting at another location.

November 15, 2010

Page 2 of 2

In addition, we would like to extend an offer to hold a Community Information Session to introduce the Project to the general community. We would be pleased to present display materials and to have Samsung and Stantec representatives available to answer questions from the community, and to receive any information about the study area that members of the community may wish to share so that it can be considered during the Renewable Energy Approval (REA) process.

In the event that you have any questions or concerns, or would like to schedule an introductory meeting and/or Community Information Session, please do not hesitate to contact Kara Hearne at Stantec via phone (519-836-6050) or email (kara.hearne@stantec.com). We look forward to working with you throughout the development of this renewable energy initiative.

Sincerely,

STANTEC CONSULTING LTD.



Rob Nadolny

Senior Project Manager

Tel: (519) 836-6050

Fax: (519) 836-2493

rob.nadolny@stantec.com

Attachments: Notice to Engage & Notice of Public Open House
Draft Project Description Report (version 2)
Public Open House #1 Display Panels

cc. Adam Rosso, Samsung Renewable Energy Inc.
Hagen Lee, Samsung Renewable Energy Inc.
Kara Hearne, Stantec



Stantec Consulting Ltd.
Suite 1 - 70 Southgate Drive
Guelph ON N1G 4P5
Tel: (519) 836-6050
Fax: (519) 836-2493

Stantec

June 10, 2011
File: 161010646/161010624

Wahta Mohawks
2664 Muskoka Rd. 38,
PO Box 260
Bala ON P0C 1A0

**Reference: Grand Renewable Energy Park
Renewable Energy Approval – Project Update and Information Request**

Dear Chief Blaine Commandant:

Samsung Renewable Energy Inc. (Samsung) and Pattern Energy (Pattern) are proposing to develop the Grand Renewable Energy Park (GREP), a combined wind and solar generation project, within Haldimand County, Ontario. If approved, the wind portion of the GREP would have a nameplate capacity of 140 MW and consist of approximately 69 wind turbines. The solar portion of the GREP would have a nameplate capacity of 100 MW and utilize approximately 900 acres of land. Both aspects of the GREP would also include electrical collection lines, a transmission line, substation, and other ancillary facilities such as access roads.

The GREP is subject to the Renewable Energy Approval (REA) process, as outlined in Ontario Regulation 359/09 - Renewable Energy Approvals under Part V.0.1 of the Act of the *Environmental Protection Act* (O.Reg 359/09). Stantec Consulting Ltd. (Stantec) is the primary consultant responsible for preparing the REA application for the GREP.

Project Update

Project work throughout Summer and Fall of 2010 and Winter of 2011 has been primarily focused on preliminary engineering work, noise assessments, landowner agreements, natural heritage background and field studies, and dialogue with the local residents, municipality, Ministry of Natural Resources (MNR) and Aboriginal communities. There was also an Open House held on July 8, 2010; the display boards presented at the Public Open House were sent to you on November 15, 2010.

We are now addressing MNR comments on the GREP's Natural Heritage Assessment, completing further field studies for the GREP, and are in the process of analyzing the results of these surveys. We have also completed much of the Stage 2 Archaeological Assessment, and are now continuing this work. Currently, we are drafting reports and working on the assessment of potential impacts and mitigation measures for environmental features that have been identified. Please find enclosed a copy of our first Project newsletter, issued in December 2010.

The preliminary wind turbine layout for the GREP, which includes 69 wind turbines, is also enclosed and we welcome your input on the layout. The map has also been uploaded to the project website (www.samsungrenewableenergy.ca). This preliminary wind turbine layout has been submitted to the Ontario Ministry of the Environment (MOE) as part of the crystallization process.

Information Request

The MOE has identified your community as potentially having constitutionally protected aboriginal or treaty rights that may be adversely impacted by the GREP. However, we do not presently have information from

June 10, 2010

**Reference: Grand Renewable Energy Park
Renewable Energy Approval – Project Update and Information Request**

your community regarding how these rights may be affected by project activities. We would welcome the opportunity to understand how aboriginal rights are exercised in the project area (e.g. areas used for traditional activities by your community) so that we may work together and share information on how best to mitigate any potential impacts that may be identified.

As outlined in subsection 17.1.4 of O.Reg. 359/09, we would like to request that you provide, in writing, any information that, in your community's opinion, should be considered in preparing the REA reports for the project, and in particular, any information your community may have about any adverse impacts the GREP may have on constitutionally protected aboriginal or treaty rights and any measures for mitigating those adverse impacts.

In addition to the enclosed materials, to date we have provided your community with the following information regarding the Project:

- Notice of Proposal to Engage in a Renewable Energy Project and Notice of Public Open House
- Draft Project Description Report (version 2)
- Display boards presented at the Public Open House on July 8, 2010

We sincerely hope that this information will provide the project background you may need to help identify for us the information we have requested. However, should you require additional information about the GREP, please let us know.

Closure

In the event that you have any questions or concerns, please do not hesitate to contact Kara Hearne at Stantec via phone (519-836-6050) or email (kara.hearne@stantec.com). We look forward to working with you throughout the development of this renewable energy initiative.

Sincerely,

STANTEC CONSULTING LTD.



Rob Nadolny
Senior Project Manager
Tel: (519) 836-6050
Fax: (519) 836-2493
rob.nadolny@stantec.com

Attachments: GREP Newsletter – Volume 1 (December 2010)
Preliminary Wind Turbine Layout Map

cc. Kara Hearne, Stantec
Adam Rosso, Samsung
Hagen Lee, Samsung
Marnie Dawson, Samsung
GY Yoo, Samsung



NEWSLETTER



Newsletter Overview

- Message from Samsung
- Holiday Wish
- Project Update
- Layout

Dear Neighbours,

Samsung Renewable Energy Inc. and Pattern Energy are excited to be publishing our first project newsletter for our Grand Renewable Energy Park Project. We are excited about the progress of the Grand Renewable Energy Park and are looking forward to spending more time in your community.

Over the past couple of months we have been very busy ensuring we meet our manufacturing commitments with the Ontario Government. To that end, we are very pleased to mention that on December 1 and 2, 2010, CS Wind Corp. and Siemens announced the opening of a turbine tower plant and turbine blade plant in both Windsor and Tillsonburg, respectively.

We wish everyone a safe and happy holiday season, filled with laughter and fond memories.

Sincerely,

Adam Rosso
Project Developer



Seasons Greetings

Source: 1330.photobucket.com

Project Update

A lot has happened on the Grand Renewable Energy Park (GREP) since our Open House on July 8, 2010. The field work for the Natural Heritage studies are complete and we are currently in the process of completing our Stage 2 Archaeological Assessment. We have completed most of our pre-engineering work for our preliminary turbine layout and as well as our noise assessment. At the time of writing this newsletter, our consultant (Stantec Consulting Inc.) is diligently working on the required reports for our renewable energy approval (REA) submission. The required reports for our REA submission include:

- Natural Heritage Report
- Construction Report
- Decommissioning Report
- Design & Operations Report
- Project Description Report
- Specifications Report

- Consultation Report

The reports listed above, with the exception of the consultation report, will be provided to the public for a 60 day review prior to our next open house for GREP. We anticipate these reports will be available for review in the first quarter of 2011.

Layout

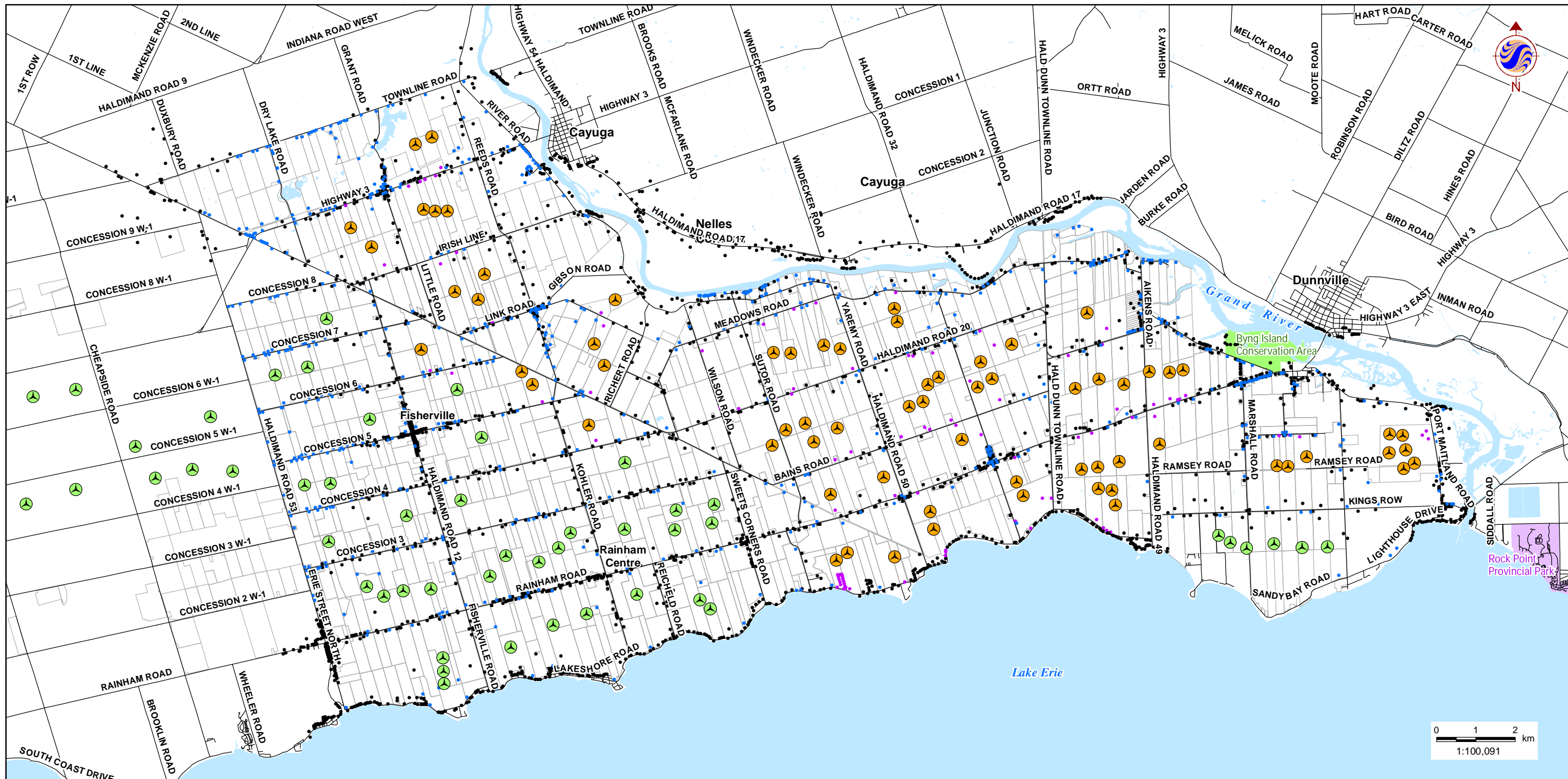
Samsung and Pattern are pleased to release our preliminary wind turbine layout to the public. A map has been uploaded to our website which indicates proposed turbine locations, participating lands and adjacent projects.

We will continue to keep you updated as we move through the REA process.

You can also check our project website at

www.samsungrenewableenergy.ca















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December 2010
160960577

Legend

- | | | | |
|---|-------------------------|---|-------------------------------|
|  | Samsung GREP Turbine |  | Noise Receptor |
|  | Other Proponent Turbine |  | Participant |
|  | Road |  | Receptor |
|  | Property Boundary | | Vacant Lot Surrogate Receptor |
|  | Conservation Area | | |
|  | Provincial Park | | |
|  | Waterbody | | |

Notes

1. Coordinate System: UTM NAD 83 - Zone 17.
2. Data Sources: Ontario Ministry of Natural Resources © Queens Printer Ontario, 2009; © Samsung, 2010; © NextEra, 2010; © Zephyr North, 2010.

Client/Project
SAMSUNG C&T
GRAND RENEWABLE ENERGY PARK

Figure No.
DRAFT

Title
**PRELIMINARY LAYOUT
MAP**



Stantec



Stantec Consulting Ltd.
70 Southgate Drive Suite 1
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Stantec

July 19, 2011
File: 160960577 / 161010624

Wahta Mohawks
2664 Muskoka Road 38, P.O. Box 260
Bala, ON P0C 1A0

Attention: Chief Blaine Commandant

Reference: Grand Renewable Energy Park – Release of Draft Renewable Energy Approval Reports

Dear Chief Commandant:

Samsung C&T (Samsung), Pattern Energy (Pattern), and Korea Power Electric Corporation (KEPCO) (together, these companies referred to herein as “SPK”) are proposing to develop, construct, and operate a wind and solar energy project as part of the Grand Renewable Energy Park (GREP), in Haldimand County. SPK is planning to engage in this renewable energy project in respect of which the issuance of Renewable Energy Approvals (REA) is required. The proposal to engage in the project and the project itself are subject to the provisions of the *Environmental Protection Act (ACT)* Part V.0.1 and Ontario Regulation 359/09 (O. Reg. 359/09).

On behalf of SPK, Stantec is pleased to provide you with a copy of the Draft REA Reports for your review and comment. As required under O. Reg. 359/09 and the Ministry of Natural Resources (MNR) *Approval and Permitting Requirements Document (APRD) for Renewable Energy Projects*, this Draft REA Reports package includes the following draft reports:

- Project Description Report – as outlined in item 10 of Table 1 of O. Reg. 359/09;
- Natural Heritage Assessment Report – as required under sections 24, 25, 26, 27 and 28 of O. Reg. 359/09 and section 6.3 of the MNR’s Requirements Document;
- Construction Plan Report – as outlined in item 1 of Table 1 of O. Reg. 359/09 and section 6.7 of the MNR’s Requirements Document;
- Design and Operations Report – as outlined in item 4 of Table 1 of O. Reg. 359/09 and section 6.6 of the MNR’s Requirements Document;
- Decommissioning Plan Report – as outlined in item 3 of Table 1 of O. Reg. 359/09 and section 6.8 of the MNR’s Requirements Document;
- Environmental Impact Study – as required under section 38 of O. Reg. 359/09;
- Wind Turbine Specifications Report – as outlined in item 13 of Table 1 of O. Reg. 359/09;
- Archaeological and Heritage Reports - as required under sections 19, 20, 21, 22 and 23 of O.Reg. 359/09;
- Water Body and Water Assessment Report - as required under sections 29, 30 and 31 of O. Reg. 359/09. Further information related to potential effects and mitigation measures to water bodies, as required under sections 39, 40, 44, and 45 of O. Reg. 359/09 is provided in the Water Body and Water Assessment Report, Construction Plan Report and Design and Operations Report; and,
- Project Summary Report – as outlined in section 17. (1)3 of O. Reg. 359/09. The Draft Project Summary Report provides a summary of the potential environmental effects including those which the Project may have on constitutionally protected Aboriginal or treaty rights.

July 19, 2011
Attention Chief Blaine Commandant
Page 2 of 2

Reference: Grand Renewable Energy Park – Release of Draft Renewable Energy Approval Reports

The attached Notice of Public Meeting will be published in local newspapers within Haldimand County the week of July 20th. Please let us know if you would also like a copy of the Notice to be published in a newspaper within your community.

The MOE has identified your community as potentially having constitutionally protected aboriginal or treaty rights that may be adversely impacted by the GREP. However, we do not presently have information from your community regarding how these rights may be affected by project activities. We continue to welcome the opportunity to understand how aboriginal rights are exercised in the project area (e.g. areas used for traditional activities by your community) so that we may work together and share information on how best to mitigate any potential impacts that may be identified.

We would like to request that you provide, in writing, any information that, in your community's opinion, should be considered in preparing the final version of the REA reports for the project, and in particular, any information your community may have about any adverse impacts the GREP may have on constitutionally protected aboriginal or treaty rights and any measures for mitigating those adverse impacts. We respectfully request any information/comments you may have by no later than September 22, 2011 so that the information can be considered during project planning and preparation of the final versions of the REA reports. The project team welcomes comments after this date, however only comments received by September 22, 2011 will be included in the Project's Consultation Report that will be submitted as part of the project's REA application.

We also respectfully request that these reports be made available to your community members. Given the size of the enclosed reports, we have not included an additional hard copy in an effort to conserve paper. However, we would be happy to send additional hard copies or electronic copies if needed; please let us know.

In the event that you have any questions or concerns, please do not hesitate to contact Kara Hearne at Stantec via phone (519-836-6050) or email (kara.hearne@stantec.com). We look forward to working with you throughout the development of this renewable energy initiative.

Sincerely,

STANTEC CONSULTING LTD.



Rob Nadolny
Senior Project Manager
Tel: (519) 836-6050
Fax: (519) 836-2493
Rob.nadolny@stantec.com

Attachment: Draft REA Reports package
Notice of Public Meeting

Appendix H6

Correspondence with the Mohawks of Akwesasne

Grand Renewable Energy Park
 Aboriginal Correspondence Summary
 Mohawks of Akwesasne

Date	Method of Communication	Title	First Name	Last Name	Job Title	Department	Other Community Members Included on Correspondence	All Parties Included on Correspondence	Comment(s)
November 15, 2010	Letter - Sent Stantec (RN) to MA	Mohawk Council of Akwesasne	n/a	n/a	n/a	n/a	n/a	MA, SPK, Stantec	<ul style="list-style-type: none"> - Introductory letter with Project overview. - In accordance with O.Reg.359/09, the Ministry of the Environment has recently provided the list of Aboriginal communities that may have interests in the Project; your community was included on this list. - We noted that your community was not included on the correspondence and information circulated regarding the Project prior to receiving this list from the MOE and therefore wanted to send you the Project information sent to date. - Requested an introductory meeting with community representatives. - Offered to hold a Community Information Session to introduce Project to general community. - ATTACHMENTS: Draft Project Description Report (v2), Notice to Engage and Notice of Public Open House, and a copy of the Public Open House #1 display boards.
June 10, 2011	Letter - Sent Stantec (RN) to MA	Mohawk Council of the Akwesasne	n/a	n/a	n/a	n/a	n/a	MA, SPK, Stantec	<ul style="list-style-type: none"> - Project update and information request letter. - Update provided on Project work, including status of the Natural Heritage Assessment, archaeological work, and Project layout. - Request any information that should be considered in preparing the REA reports for the Project, and any information the community may have about any adverse impacts the GREP may have on constitutionally protected aboriginal or treaty rights and any measures for mitigating those adverse impacts. - Listed Project information sent to date to help identify for us the information we have requested. However, let us know if more information is needed. - ATTACHMENTS: preliminary wind turbine layout map, Project Newsletter Volume 1 (December 2010).
July 19, 2011	Letter - Sent Stantec (RN) to MA	Mohawk Council of the Akwesasne	n/a	n/a	n/a	n/a	n/a	MA, Stantec	<ul style="list-style-type: none"> -On behalf of SPK, Stantec is providing the Draft REA Reports for review and comment. -Notice of Public Meeting will be published in local newspapers in Haldimand County the week of July 20th. Please let us know if you would like a copy published in a newspaper within your community. -The Ministry of the Environment has identified your community as potentially having constitutionally protected Aboriginal or treaty rights that may be adversely impacted by the GREP. - We do not presently have information from your community regarding how these rights may be affected by project activities. We continue to welcome the opportunity to understand how aboriginal rights are exercised in the project area so that we may work together and share information on how best to mitigate any potential impacts that may be identified. - Requested any information that, in your community's opinion, should be considered in preparing the final version of the REA reports for the project, and in particular, any information your community may have about any adverse impacts the GREP may have on constitutionally protected aboriginal or treaty rights and any measures for mitigating those adverse impacts. - The project team welcomes comments after September 22, 2011, however only comments received by that date will be included in the Project's Consultation Report that will be submitted as part of the Project's REA application. - Respectfully request that the draft REA reports be made available to your community members. Given the size of the enclosed reports, we have not included an additional hard copy in an effort to conserve paper. However, we would be happy to send additional hard copies or electronic copies if needed; please let us know. - ATTACHMENTS: Draft REA reports package, Notice of Public Meeting.



Stantec

Stantec Consulting Ltd.
Suite 1 - 70 Southgate Drive
Guelph ON N1G 4P5
Tel: (519) 836-6050
Fax: (519) 836-2493

November 15, 2010
File: 161010646/161010624

Mohawks of Akwesasne
PO Box 579
Cornwall ON K6H 5T3
Phone (613) 575-2250

Attention: Mohawk Council of Akwesasne

**Reference: Grand Renewable Energy Park
Notification of Project, Project Description Report and Public Open House Display
Panels**

On behalf of Samsung Renewable Energy Inc. (Samsung) and Pattern Energy (Pattern), please find enclosed the Draft Project Description Report and Notice to Engage & Notice of Public Open House for the proposed Grand Renewable Energy Park (the Project), a combined wind and solar generation project, to be located within Haldimand County, Ontario. If approved, the wind aspect of the Project would have a nameplate capacity of 140 MW and consist of approximately 63 wind turbines (depending upon the turbine make and model). The solar aspect of the Project would have a nameplate capacity of 100 MW and consist of approximately 900 acres of land. Both aspects of the Project would also include electrical collection lines, a 30 km transmission line, substation, and other ancillary facilities such as access roads.

The Draft Project Description Report provides a summary of the Project as required by Ontario Regulation 359/09 - Renewable Energy Approvals under Part V.0.1 of the Act of the *Environmental Protection Act* (the Regulation).

In accordance with subsection 14.(1)(b) of the Regulation, the Ontario Ministry of the Environment (MOE) is required to provide the proponent with a list of aboriginal communities who have or may have constitutionally protected aboriginal or treaty rights that may be adversely impacted by the project, or otherwise may be interested in any negative environmental effects of the project. We have recently been provided with this list from the MOE, which identifies your community as having potential interest in the Project. We noted that your community was not included on the correspondence and information circulated regarding the Project prior to receiving this list from the MOE and therefore wanted to send you the Project information sent to date.

The Notice to Engage & Notice of Public Open House was published in local newspapers within Haldimand County the week of June 7, 2010. A copy of this notice is attached for your information. A Public Open House was held on July 8, 2010 in Cayuga, Ontario. Attached is a copy of the information display panels presented at that Open House.

We would be happy to meet with your community representatives to discuss the Project and enclosed Project materials. Please let us know if you would like to have this introductory meeting, and if you would prefer to have the meeting on reserve, or alternatively require capacity for representatives to attend the meeting at another location.

November 15, 2010

Page 2 of 2

In addition, we would like to extend an offer to hold a Community Information Session to introduce the Project to the general community. We would be pleased to present display materials and to have Samsung and Stantec representatives available to answer questions from the community, and to receive any information about the study area that members of the community may wish to share so that it can be considered during the Renewable Energy Approval (REA) process.

In the event that you have any questions or concerns, or would like to schedule an introductory meeting and/or Community Information Session, please do not hesitate to contact Kara Hearne at Stantec via phone (519-836-6050) or email (kara.hearne@stantec.com). We look forward to working with you throughout the development of this renewable energy initiative.

Sincerely,

STANTEC CONSULTING LTD.



Rob Nadolny

Senior Project Manager

Tel: (519) 836-6050

Fax: (519) 836-2493

rob.nadolny@stantec.com

Attachments: Notice to Engage & Notice of Public Open House
Draft Project Description Report (version 2)
Public Open House #1 Display Panels

cc. Adam Rosso, Samsung Renewable Energy Inc.
Hagen Lee, Samsung Renewable Energy Inc.
Kara Hearne, Stantec



Stantec Consulting Ltd.
Suite 1 - 70 Southgate Drive
Guelph ON N1G 4P5
Tel: (519) 836-6050
Fax: (519) 836-2493

Stantec

June 10, 2011
File: 161010646/161010624

Mohawks of Akwesasne
75 Boundary Road
Cornwall ON K6H 6K8

**Reference: Grand Renewable Energy Park
Renewable Energy Approval – Project Update and Information Request**

Dear Mohawk Council of Akwesasne:

Samsung Renewable Energy Inc. (Samsung) and Pattern Energy (Pattern) are proposing to develop the Grand Renewable Energy Park (GREP), a combined wind and solar generation project, within Haldimand County, Ontario. If approved, the wind portion of the GREP would have a nameplate capacity of 140 MW and consist of approximately 69 wind turbines. The solar portion of the GREP would have a nameplate capacity of 100 MW and utilize approximately 900 acres of land. Both aspects of the GREP would also include electrical collection lines, a transmission line, substation, and other ancillary facilities such as access roads.

The GREP is subject to the Renewable Energy Approval (REA) process, as outlined in Ontario Regulation 359/09 - Renewable Energy Approvals under Part V.0.1 of the Act of the *Environmental Protection Act* (O.Reg 359/09). Stantec Consulting Ltd. (Stantec) is the primary consultant responsible for preparing the REA application for the GREP.

Project Update

Project work throughout Summer and Fall of 2010 and Winter of 2011 has been primarily focused on preliminary engineering work, noise assessments, landowner agreements, natural heritage background and field studies, and dialogue with the local residents, municipality, Ministry of Natural Resources (MNR) and Aboriginal communities. There was also an Open House held on July 8, 2010; the display boards presented at the Public Open House were sent to you on November 15, 2010.

We are now addressing MNR comments on the GREP's Natural Heritage Assessment, completing further field studies for the GREP, and are in the process of analyzing the results of these surveys. We have also completed much of the Stage 2 Archaeological Assessment, and are now continuing this work. Currently, we are drafting reports and working on the assessment of potential impacts and mitigation measures for environmental features that have been identified. Please find enclosed a copy of our first Project newsletter, issued in December 2010.

The preliminary wind turbine layout for the GREP, which includes 69 wind turbines, is also enclosed and we welcome your input on the layout. The map has also been uploaded to the project website (www.samsungrenewableenergy.ca). This preliminary wind turbine layout has been submitted to the Ontario Ministry of the Environment (MOE) as part of the crystallization process.

Information Request

The MOE has identified your community as potentially having constitutionally protected aboriginal or treaty rights that may be adversely impacted by the GREP. However, we do not presently have information from your community regarding how these rights may be affected by project activities. We would welcome the

June 10, 2010

**Reference: Grand Renewable Energy Park
Renewable Energy Approval – Project Update and Information Request**

opportunity to understand how aboriginal rights are exercised in the project area (e.g. areas used for traditional activities by your community) so that we may work together and share information on how best to mitigate any potential impacts that may be identified.

As outlined in subsection 17.1.4 of O.Reg. 359/09, we would like to request that you provide, in writing, any information that, in your community's opinion, should be considered in preparing the REA reports for the project, and in particular, any information your community may have about any adverse impacts the GREP may have on constitutionally protected aboriginal or treaty rights and any measures for mitigating those adverse impacts.

In addition to the enclosed materials, to date we have provided your community with the following information regarding the Project:

- Notice of Proposal to Engage in a Renewable Energy Project and Notice of Public Open House
- Draft Project Description Report (version 2)
- Display boards presented at the Public Open House on July 8, 2010

We sincerely hope that this information will provide the project background you may need to help identify for us the information we have requested. However, should you require additional information about the GREP, please let us know.

Closure

In the event that you have any questions or concerns, please do not hesitate to contact Kara Hearne at Stantec via phone (519-836-6050) or email (kara.hearne@stantec.com). We look forward to working with you throughout the development of this renewable energy initiative.

Sincerely,

STANTEC CONSULTING LTD.



Rob Nadolny
Senior Project Manager
Tel: (519) 836-6050
Fax: (519) 836-2493
rob.nadolny@stantec.com

Attachments: GREP Newsletter – Volume 1 (December 2010)
Preliminary Wind Turbine Layout Map

cc. Kara Hearne, Stantec
Adam Rosso, Samsung
Hagen Lee, Samsung
Marnie Dawson, Samsung
GY Yoo, Samsung



NEWSLETTER



Newsletter Overview

- Message from Samsung
- Holiday Wish
- Project Update
- Layout

Dear Neighbours,

Samsung Renewable Energy Inc. and Pattern Energy are excited to be publishing our first project newsletter for our Grand Renewable Energy Park Project. We are excited about the progress of the Grand Renewable Energy Park and are looking forward to spending more time in your community.

Over the past couple of months we have been very busy ensuring we meet our manufacturing commitments with the Ontario Government. To that end, we are very pleased to mention that on December 1 and 2, 2010, CS Wind Corp. and Siemens announced the opening of a turbine tower plant and turbine blade plant in both Windsor and Tillsonburg, respectively.

We wish everyone a safe and happy holiday season, filled with laughter and fond memories.

Sincerely,

Adam Rosso
Project Developer



Seasons Greetings

Source: 1330.photobucket.com

Project Update

A lot has happened on the Grand Renewable Energy Park (GREP) since our Open House on July 8, 2010. The field work for the Natural Heritage studies are complete and we are currently in the process of completing our Stage 2 Archaeological Assessment. We have completed most of our pre-engineering work for our preliminary turbine layout and as well as our noise assessment. At the time of writing this newsletter, our consultant (Stantec Consulting Inc.) is diligently working on the required reports for our renewable energy approval (REA) submission. The required reports for our REA submission include:

- Natural Heritage Report
- Construction Report
- Decommissioning Report
- Design & Operations Report
- Project Description Report
- Specifications Report

- Consultation Report

The reports listed above, with the exception of the consultation report, will be provided to the public for a 60 day review prior to our next open house for GREP. We anticipate these reports will be available for review in the first quarter of 2011.

Layout

Samsung and Pattern are pleased to release our preliminary wind turbine layout to the public. A map has been uploaded to our website which indicates proposed turbine locations, participating lands and adjacent projects.

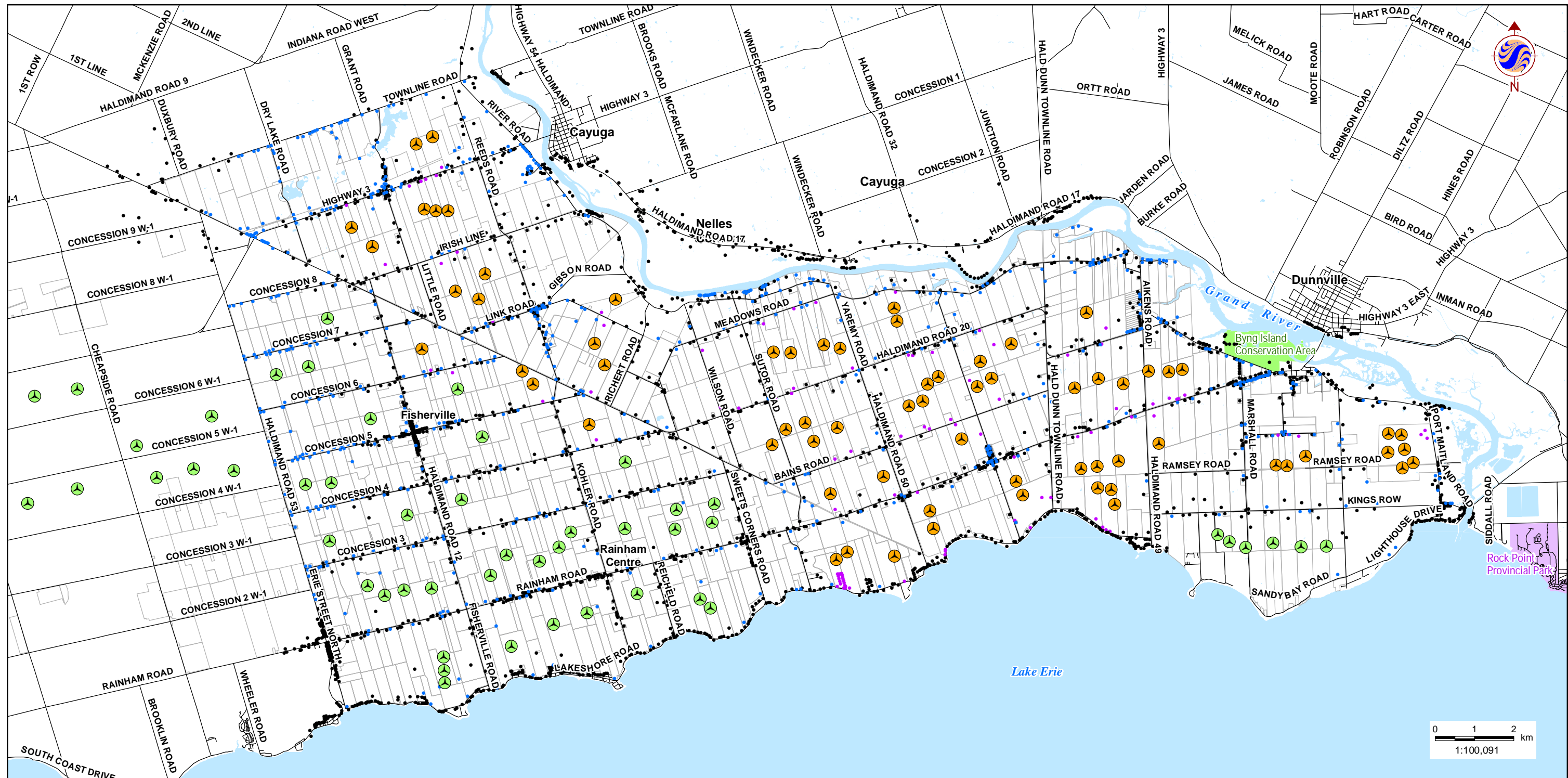
We will continue to keep you updated as we move through the REA process.

You can also check our project website at

www.samsungrenewableenergy.ca



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December 2010
160960577

Legend

- Samsung GREP Turbine
- Other Proponent Turbine
- Road
- Property Boundary
- Conservation Area
- Provincial Park
- Waterbody
- Noise Receptor**
- Participant
- Receptor
- Vacant Lot Surrogate Receptor

Notes

1. Coordinate System: UTM NAD 83 - Zone 17.
2. Data Sources: Ontario Ministry of Natural Resources © Queens Printer Ontario, 2009; © Samsung, 2010; © NextEra, 2010; © Zephyr North, 2010.

Client/Project
SAMSUNG C&T
GRAND RENEWABLE ENERGY PARK

Figure No.
DRAFT

Title
**PRELIMINARY LAYOUT
MAP**



Stantec



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70 Southgate Drive Suite 1
Guelph ON N1G 4P5
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Stantec

July 19, 2011
File: 160960577 / 161010624

Mohawks of Akwesasne
P.O. Box 579
Cornwall, ON K6H 5T3

Attention: Mohawk Council of Akwesasne

Reference: Grand Renewable Energy Park – Release of Draft Renewable Energy Approval Reports

Samsung C&T (Samsung), Pattern Energy (Pattern), and Korea Power Electric Corporation (KEPCO) (together, these companies referred to herein as “SPK”) are proposing to develop, construct, and operate a wind and solar energy project as part of the Grand Renewable Energy Park (GREP), in Haldimand County. SPK is planning to engage in this renewable energy project in respect of which the issuance of Renewable Energy Approvals (REA) is required. The proposal to engage in the project and the project itself are subject to the provisions of the *Environmental Protection Act (ACT)* Part V.0.1 and Ontario Regulation 359/09 (O. Reg. 359/09).

On behalf of SPK, Stantec is pleased to provide you with a copy of the Draft REA Reports for your review and comment. As required under O. Reg. 359/09 and the Ministry of Natural Resources (MNR) *Approval and Permitting Requirements Document (APRD) for Renewable Energy Projects*, this Draft REA Reports package includes the following draft reports:

- Project Description Report – as outlined in item 10 of Table 1 of O. Reg. 359/09;
- Natural Heritage Assessment Report – as required under sections 24, 25, 26, 27 and 28 of O. Reg. 359/09 and section 6.3 of the MNR’s Requirements Document;
- Construction Plan Report – as outlined in item 1 of Table 1 of O. Reg. 359/09 and section 6.7 of the MNR’s Requirements Document;
- Design and Operations Report – as outlined in item 4 of Table 1 of O. Reg. 359/09 and section 6.6 of the MNR’s Requirements Document;
- Decommissioning Plan Report – as outlined in item 3 of Table 1 of O. Reg. 359/09 and section 6.8 of the MNR’s Requirements Document;
- Environmental Impact Study – as required under section 38 of O. Reg. 359/09;
- Wind Turbine Specifications Report – as outlined in item 13 of Table 1 of O. Reg. 359/09;
- Archaeological and Heritage Reports - as required under sections 19, 20, 21, 22 and 23 of O.Reg. 359/09;
- Water Body and Water Assessment Report - as required under sections 29, 30 and 31 of O. Reg. 359/09. Further information related to potential effects and mitigation measures to water bodies, as required under sections 39, 40, 44, and 45 of O. Reg. 359/09 is provided in the Water Body and Water Assessment Report, Construction Plan Report and Design and Operations Report; and,

July 19, 2011

Attention: Mohawk Council of Akwesasne

Page 2 of 2

Reference: Grand Renewable Energy Park – Release of Draft Renewable Energy Approval Reports

- Project Summary Report – as outlined in section 17. (1)3 of O. Reg. 359/09. The Draft Project Summary Report provides a summary of the potential environmental effects including those which the Project may have on constitutionally protected Aboriginal or treaty rights.

The attached Notice of Public Meeting will be published in local newspapers within Haldimand County the week of July 20th. Please let us know if you would also like a copy of the Notice to be published in a newspaper within your community.

The MOE has identified your community as potentially having constitutionally protected aboriginal or treaty rights that may be adversely impacted by the GREP. However, we do not presently have information from your community regarding how these rights may be affected by project activities. We continue to welcome the opportunity to understand how aboriginal rights are exercised in the project area (e.g. areas used for traditional activities by your community) so that we may work together and share information on how best to mitigate any potential impacts that may be identified.

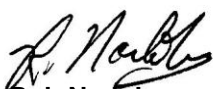
We would like to request that you provide, in writing, any information that, in your community's opinion, should be considered in preparing the final version of the REA reports for the project, and in particular, any information your community may have about any adverse impacts the GREP may have on constitutionally protected aboriginal or treaty rights and any measures for mitigating those adverse impacts. We respectfully request any information/comments you may have by no later than September 22, 2011 so that the information can be considered during project planning and preparation of the final versions of the REA reports. The project team welcomes comments after this date, however only comments received by September 22, 2011 will be included in the Project's Consultation Report that will be submitted as part of the project's REA application.

We also respectfully request that these reports be made available to your community members. Given the size of the enclosed reports, we have not included an additional hard copy in an effort to conserve paper. However, we would be happy to send additional hard copies or electronic copies if needed; please let us know.

In the event that you have any questions or concerns, please do not hesitate to contact Kara Hearne at Stantec via phone (519-836-6050) or email (kara.hearne@stantec.com). We look forward to working with you throughout the development of this renewable energy initiative.

Sincerely,

STANTEC CONSULTING LTD.



Rob Nadolny

Senior Project Manager

Tel: (519) 836-6050

Fax: (519) 836-2493

Rob.nadolny@stantec.com

Attachment: Draft REA Reports package
Notice of Public Meeting

Appendix H7

Correspondence with the Mohawks of the Bay of Quinte

Grand Renewable Energy Park
 Aboriginal Correspondence Summary
 Mohawks of the Bay of Quinte

Date	Method of Communication	Title	First Name	Last Name	Job Title	Department	Other Community Members Included on Correspondence	All Parties Included on Correspondence	Comment(s)
November 15, 2010	Letter - Sent Stantec (RN) to MBQ	Chief	R. Donald	Maracle	n/a	n/a	n/a	MBQ, SPK, Stantec	<ul style="list-style-type: none"> - Introductory letter with Project overview. - In accordance with O.Reg.359/09, the Ministry of the Environment has recently provided the list of Aboriginal communities that may have interests in the Project; your community was included on this list. - We noted that your community was not included on the correspondence and information circulated regarding the Project prior to receiving this list from the MOE and therefore wanted to send you the Project information sent to date. - Requested an introductory meeting with community representatives. - Offered to hold a Community Information Session to introduce Project to general community. - ATTACHMENTS: Draft Project Description Report (v2), Notice to Engage and Notice of Public Open House, and a copy of the Public Open House #1 display boards.
June 10, 2011	Letter - Sent Stantec (RN) to MBQ	Chief	R. Donald	Maracle	n/a	n/a	n/a	MBQ, SPK, Stantec	<ul style="list-style-type: none"> - Project update and information request letter. - Update provided on Project work, including status of the Natural Heritage Assessment, archaeological work, and Project layout. - Request any information that should be considered in preparing the REA reports for the Project, and any information the community may have about any adverse impacts the GREP may have on constitutionally protected aboriginal or treaty rights and any measures for mitigating those adverse impacts. - Listed Project information sent to date to help identify for us the information we have requested. However, let us know if more information is needed. - ATTACHMENTS: preliminary wind turbine layout map, Project Newsletter Volume 1 (December 2010).
July 19, 2011	Letter - Sent Stantec (RN) to MBQ	Chief	R. Donald	Maracle	n/a	n/a	n/a	MBQ, Stantec	<ul style="list-style-type: none"> -On behalf of SPK, Stantec is providing the Draft REA Reports for review and comment. -Notice of Public Meeting will be published in local newspapers in Haldimand County the week of July 20th. Please let us know if you would like a copy published in a newspaper within your community. -The Ministry of the Environment has identified your community as potentially having constitutionally protected Aboriginal or treaty rights that may be adversely impacted by the GREP. - We do not presently have information from your community regarding how these rights may be affected by project activities. We continue to welcome the opportunity to understand how aboriginal rights are exercised in the project area so that we may work together and share information on how best to mitigate any potential impacts that may be identified. - Requested any information that, in your community's opinion, should be considered in preparing the final version of the REA reports for the project, and in particular, any information your community may have about any adverse impacts the GREP may have on constitutionally protected aboriginal or treaty rights and any measures for mitigating those adverse impacts. - The project team welcomes comments after September 22, 2011, however only comments received by that date will be included in the Project's Consultation Report that will be submitted as part of the Project's REA application. - Respectfully request that the draft REA reports be made available to your community members. Given the size of the enclosed reports, we have not included an additional hard copy in an effort to conserve paper. However, we would be happy to send additional hard copies or electronic copies if needed; please let us know. - ATTACHMENTS: Draft REA reports package, Notice of Public Meeting.



Stantec Consulting Ltd.
Suite 1 - 70 Southgate Drive
Guelph ON N1G 4P5
Tel: (519) 836-6050
Fax: (519) 836-2493

Stantec

November 15, 2010
File: 161010646/161010624

Mohawks of the Bay of Quinte
13 Old York Rd,
Tyendinaga Mohawk Territory ON K0K 1X0
Phone (613) 396-3424

Attention: Chief R. Donald Maracle

**Reference: Grand Renewable Energy Park
Notification of Project, Project Description Report and Public Open House Display
Panels**

Dear Chief Maracle:

On behalf of Samsung Renewable Energy Inc. (Samsung) and Pattern Energy (Pattern), please find enclosed the Draft Project Description Report and Notice to Engage & Notice of Public Open House for the proposed Grand Renewable Energy Park (the Project), a combined wind and solar generation project, to be located within Haldimand County, Ontario. If approved, the wind aspect of the Project would have a nameplate capacity of 140 MW and consist of approximately 63 wind turbines (depending upon the turbine make and model). The solar aspect of the Project would have a nameplate capacity of 100 MW and consist of approximately 900 acres of land. Both aspects of the Project would also include electrical collection lines, a 30 km transmission line, substation, and other ancillary facilities such as access roads.

The Draft Project Description Report provides a summary of the Project as required by Ontario Regulation 359/09 - Renewable Energy Approvals under Part V.0.1 of the Act of the *Environmental Protection Act* (the Regulation).

In accordance with subsection 14.(1)(b) of the Regulation, the Ontario Ministry of the Environment (MOE) is required to provide the proponent with a list of aboriginal communities who have or may have constitutionally protected aboriginal or treaty rights that may be adversely impacted by the project, or otherwise may be interested in any negative environmental effects of the project. We have recently been provided with this list from the MOE, which identifies your community as having potential interest in the Project. We noted that your community was not included on the correspondence and information circulated regarding the Project prior to receiving this list from the MOE and therefore wanted to send you the Project information sent to date.

The Notice to Engage & Notice of Public Open House was published in local newspapers within Haldimand County the week of June 7, 2010. A copy of this notice is attached for your information. A Public Open House was held on July 8, 2010 in Cayuga, Ontario. Attached is a copy of the information display panels presented at that Open House.

We would be happy to meet with your community representatives to discuss the Project and enclosed Project materials. Please let us know if you would like to have this introductory meeting, and if you would prefer to have the meeting on reserve, or alternatively require capacity for representatives to attend the meeting at another location.

November 15, 2010

Page 2 of 2

In addition, we would like to extend an offer to hold a Community Information Session to introduce the Project to the general community. We would be pleased to present display materials and to have Samsung and Stantec representatives available to answer questions from the community, and to receive any information about the study area that members of the community may wish to share so that it can be considered during the Renewable Energy Approval (REA) process.

In the event that you have any questions or concerns, or would like to schedule an introductory meeting and/or Community Information Session, please do not hesitate to contact Kara Hearne at Stantec via phone (519-836-6050) or email (kara.hearne@stantec.com). We look forward to working with you throughout the development of this renewable energy initiative.

Sincerely,

STANTEC CONSULTING LTD.



Rob Nadolny

Senior Project Manager

Tel: (519) 836-6050

Fax: (519) 836-2493

rob.nadolny@stantec.com

Attachments: Notice to Engage & Notice of Public Open House
Draft Project Description Report (version 2)
Public Open House #1 Display Panels

cc. Adam Rosso, Samsung Renewable Energy Inc.
Hagen Lee, Samsung Renewable Energy Inc.
Kara Hearne, Stantec



Stantec Consulting Ltd.
Suite 1 - 70 Southgate Drive
Guelph ON N1G 4P5
Tel: (519) 836-6050
Fax: (519) 836-2493

Stantec

June 10, 2011
File: 161010646/161010624

Mohawks of the Bay of Quinte
13 Old York Rd.
Tyendinaga Mohawk Territory ON K0K 1X0

**Reference: Grand Renewable Energy Park
Renewable Energy Approval – Project Update and Information Request**

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Preliminary Wind Turbine Layout Map

cc. Kara Hearne, Stantec
Adam Rosso, Samsung
Hagen Lee, Samsung
Marnie Dawson, Samsung
GY Yoo, Samsung



NEWSLETTER



Newsletter Overview

- Message from Samsung
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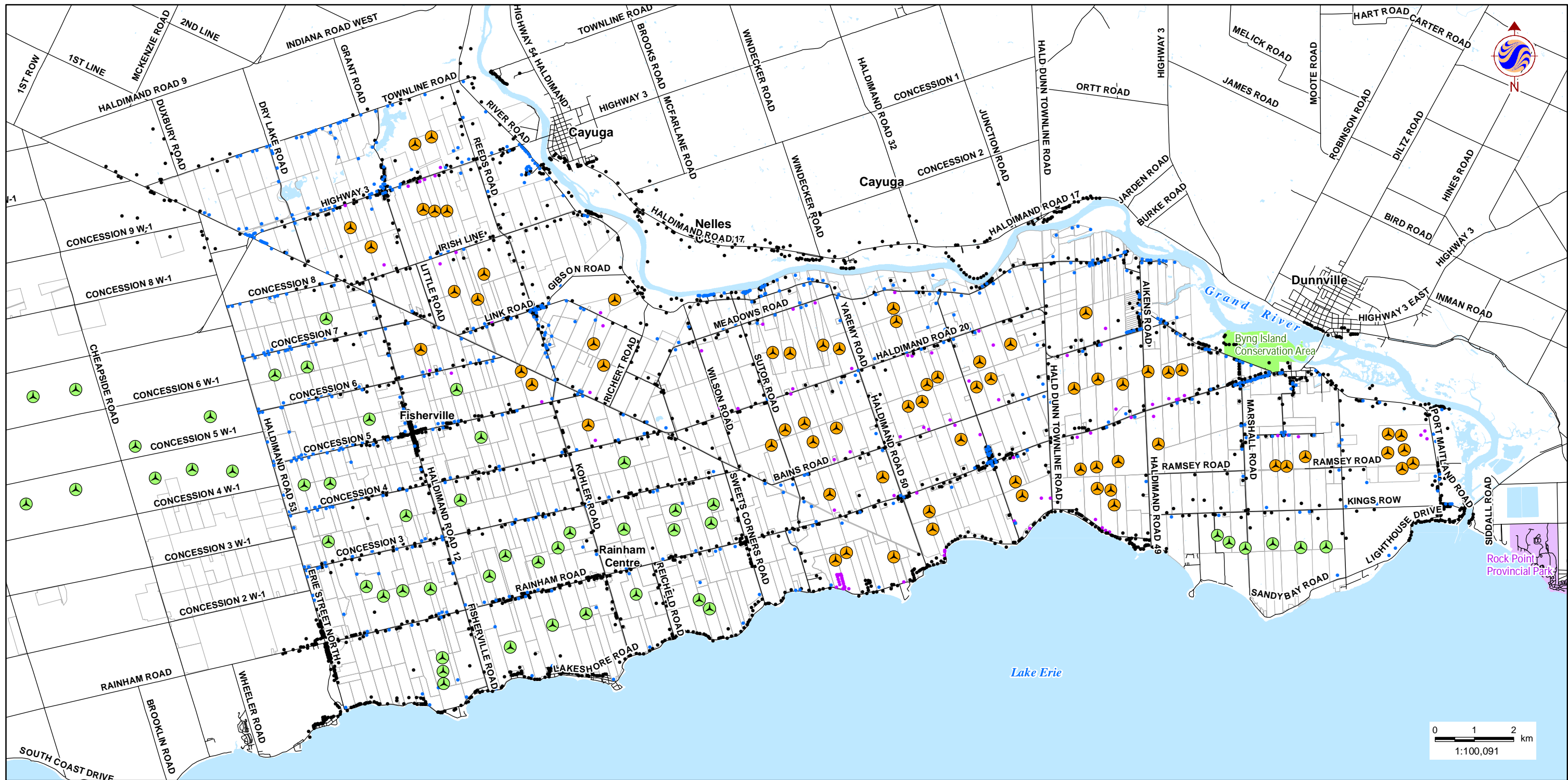
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







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December 2010
160960577

Legend

- | | | | |
|---|-------------------------|---|-------------------------------|
|  | Samsung GREP Turbine |  | Noise Receptor |
|  | Other Proponent Turbine |  | Participant |
|  | Road |  | Receptor |
|  | Property Boundary | | Vacant Lot Surrogate Receptor |
|  | Conservation Area | | |
|  | Provincial Park | | |
|  | Waterbody | | |

Notes

1. Coordinate System: UTM NAD 83 - Zone 17.
2. Data Sources: Ontario Ministry of Natural Resources © Queens Printer Ontario, 2009; © Samsung, 2010; © NextEra, 2010; © Zephyr North, 2010.

Client/Project
SAMSUNG C&T
GRAND RENEWABLE ENERGY PARK

Figure No.
DRAFT

Title
**PRELIMINARY LAYOUT
MAP**



Stantec



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Stantec

July 19, 2011
File: 160960577 / 161010624

Mohawks of the Bay of Quinte
13 Old York Road
Tyendinaga Mohawk Territory K0K 1X0

Attention: Chief R. Donald Maracle

Reference: Grand Renewable Energy Park – Release of Draft Renewable Energy Approval Reports

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- Natural Heritage Assessment Report – as required under sections 24, 25, 26, 27 and 28 of O. Reg. 359/09 and section 6.3 of the MNR’s Requirements Document;
- Construction Plan Report – as outlined in item 1 of Table 1 of O. Reg. 359/09 and section 6.7 of the MNR’s Requirements Document;
- Design and Operations Report – as outlined in item 4 of Table 1 of O. Reg. 359/09 and section 6.6 of the MNR’s Requirements Document;
- Decommissioning Plan Report – as outlined in item 3 of Table 1 of O. Reg. 359/09 and section 6.8 of the MNR’s Requirements Document;
- Environmental Impact Study – as required under section 38 of O. Reg. 359/09;
- Wind Turbine Specifications Report – as outlined in item 13 of Table 1 of O. Reg. 359/09;
- Archaeological and Heritage Reports - as required under sections 19, 20, 21, 22 and 23 of O.Reg. 359/09;
- Water Body and Water Assessment Report - as required under sections 29, 30 and 31 of O. Reg. 359/09. Further information related to potential effects and mitigation measures to water bodies, as required under sections 39, 40, 44, and 45 of O. Reg. 359/09 is provided in the Water Body and Water Assessment Report, Construction Plan Report and Design and Operations Report; and,

July 19, 2011

Attention: Chief R. Donald Maracle

Page 2 of 2

Reference: Grand Renewable Energy Park – Release of Draft Renewable Energy Approval Reports

- Project Summary Report – as outlined in section 17. (1)3 of O. Reg. 359/09. The Draft Project Summary Report provides a summary of the potential environmental effects including those which the Project may have on constitutionally protected Aboriginal or treaty rights.

The attached Notice of Public Meeting will be published in local newspapers within Haldimand County the week of July 20th. Please let us know if you would also like a copy of the Notice to be published in a newspaper within your community.

The MOE has identified your community as potentially having constitutionally protected aboriginal or treaty rights that may be adversely impacted by the GREP. However, we do not presently have information from your community regarding how these rights may be affected by project activities. We continue to welcome the opportunity to understand how aboriginal rights are exercised in the project area (e.g. areas used for traditional activities by your community) so that we may work together and share information on how best to mitigate any potential impacts that may be identified.

We would like to request that you provide, in writing, any information that, in your community's opinion, should be considered in preparing the final version of the REA reports for the project, and in particular, any information your community may have about any adverse impacts the GREP may have on constitutionally protected aboriginal or treaty rights and any measures for mitigating those adverse impacts. We respectfully request any information/comments you may have by no later than September 22, 2011 so that the information can be considered during project planning and preparation of the final versions of the REA reports. The project team welcomes comments after this date, however only comments received by September 22, 2011 will be included in the Project's Consultation Report that will be submitted as part of the project's REA application.

We also respectfully request that these reports be made available to your community members. Given the size of the enclosed reports, we have not included an additional hard copy in an effort to conserve paper. However, we would be happy to send additional hard copies or electronic copies if needed; please let us know.

In the event that you have any questions or concerns, please do not hesitate to contact Kara Hearne at Stantec via phone (519-836-6050) or email (kara.hearne@stantec.com). We look forward to working with you throughout the development of this renewable energy initiative.

Sincerely,

STANTEC CONSULTING LTD.



Rob Nadolny

Senior Project Manager

Tel: (519) 836-6050

Fax: (519) 836-2493

Rob.nadolny@stantec.com

Attachment: Draft REA Reports package
Notice of Public Meeting

Appendix H8

Correspondence with the Oneida Nation of the Thames

Grand Renewable Energy Park
 Aboriginal Correspondence Summary
 Oneida

Date	Method of Communication	Title	First Name	Last Name	Job Title	Department	Other Community Members Included on Correspondence	All Parties Included on Correspondence	Comment(s)
November 15, 2010	Letter - Sent Stantec (RN) to Oneida	Chief	Joel	Abram	n/a	n/a	n/a	Oneida, SPK, Stantec	<ul style="list-style-type: none"> - Introductory letter with Project overview. - In accordance with O.Reg.359/09, the Ministry of the Environment has recently provided the list of Aboriginal communities that may have interests in the Project; your community was included on this list. - We noted that your community was not included on the correspondence and information circulated regarding the Project prior to receiving this list from the MOE and therefore wanted to send you the Project information sent to date. - Requested an introductory meeting with community representatives. - Offered to hold a Community Information Session to introduce Project to general community. - ATTACHMENTS: Draft Project Description Report (v2), Notice to Engage and Notice of Public Open House, and a copy of the Public Open House #1 display boards.
June 10, 2011	Letter - Sent Stantec (RN) to Oneida	Chief	Joel	Abram	n/a	n/a	n/a	Oneida, SPK, Stantec	<ul style="list-style-type: none"> - Project update and information request letter. - Update provided on Project work, including status of the Natural Heritage Assessment, archaeological work, and Project layout. - Request any information that should be considered in preparing the REA reports for the Project, and any information the community may have about any adverse impacts the GREP may have on constitutionally protected aboriginal or treaty rights and any measures for mitigating those adverse impacts. - Listed Project information sent to date to help identify for us the information we have requested. However, let us know if more information is needed. - ATTACHMENTS: preliminary wind turbine layout map, Project Newsletter Volume 1 (December 2010).
July 19, 2011	Letter - Sent Stantec (RN) to Oneida	Chief	Joel	Abram	n/a	n/a	n/a	Oneida, Stantec	<ul style="list-style-type: none"> -On behalf of SPK, Stantec is providing the Draft REA Reports for review and comment. -Notice of Public Meeting will be published in local newspapers in Haldimand County the week of July 20th. Please let us know if you would like a copy published in a newspaper within your community. -The Ministry of the Environment has identified your community as potentially having constitutionally protected Aboriginal or treaty rights that may be adversely impacted by the GREP. - We do not presently have information from your community regarding how these rights may be affected by project activities. We continue to welcome the opportunity to understand how aboriginal rights are exercised in the project area so that we may work together and share information on how best to mitigate any potential impacts that may be identified. - Requested any information that, in your community's opinion, should be considered in preparing the final version of the REA reports for the project, and in particular, any information your community may have about any adverse impacts the GREP may have on constitutionally protected aboriginal or treaty rights and any measures for mitigating those adverse impacts. - The project team welcomes comments after September 22, 2011, however only comments received by that date will be included in the Project's Consultation Report that will be submitted as part of the Project's REA application. - Respectfully request that the draft REA reports be made available to your community members. Given the size of the enclosed reports, we have not included an additional hard copy in an effort to conserve paper. However, we would be happy to send additional hard copies or electronic copies if needed; please let us know. - ATTACHMENTS: Draft REA reports package, Notice of Public Meeting.



Stantec Consulting Ltd.
Suite 1 - 70 Southgate Drive
Guelph ON N1G 4P5
Tel: (519) 836-6050
Fax: (519) 836-2493

Stantec

November 15, 2010
File: 161010646/161010624

Oneida Nation of the Thames
RR2
Southwold ON N0L 2G0
Phone (519) 652-3244

Attention: Chief Joel Abram

**Reference: Grand Renewable Energy Park
Notification of Project, Project Description Report and Public Open House Display
Panels**

Dear Chief Abram:

On behalf of Samsung Renewable Energy Inc. (Samsung) and Pattern Energy (Pattern), please find enclosed the Draft Project Description Report and Notice to Engage & Notice of Public Open House for the proposed Grand Renewable Energy Park (the Project), a combined wind and solar generation project, to be located within Haldimand County, Ontario. If approved, the wind aspect of the Project would have a nameplate capacity of 140 MW and consist of approximately 63 wind turbines (depending upon the turbine make and model). The solar aspect of the Project would have a nameplate capacity of 100 MW and consist of approximately 900 acres of land. Both aspects of the Project would also include electrical collection lines, a 30 km transmission line, substation, and other ancillary facilities such as access roads.

The Draft Project Description Report provides a summary of the Project as required by Ontario Regulation 359/09 - Renewable Energy Approvals under Part V.0.1 of the Act of the *Environmental Protection Act* (the Regulation).

In accordance with subsection 14.(1)(b) of the Regulation, the Ontario Ministry of the Environment (MOE) is required to provide the proponent with a list of aboriginal communities who have or may have constitutionally protected aboriginal or treaty rights that may be adversely impacted by the project, or otherwise may be interested in any negative environmental effects of the project. We have recently been provided with this list from the MOE, which identifies your community as having potential interest in the Project. We noted that your community was not included on the correspondence and information circulated regarding the Project prior to receiving this list from the MOE and therefore wanted to send you the Project information sent to date.

The Notice to Engage & Notice of Public Open House was published in local newspapers within Haldimand County the week of June 7, 2010. A copy of this notice is attached for your information. A Public Open House was held on July 8, 2010 in Cayuga, Ontario. Attached is a copy of the information display panels presented at that Open House.

We would be happy to meet with your community representatives to discuss the Project and enclosed Project materials. Please let us know if you would like to have this introductory meeting, and if you would prefer to have the meeting on reserve, or alternatively require capacity for representatives to attend the meeting at another location.

November 15, 2010

Page 2 of 2

In addition, we would like to extend an offer to hold a Community Information Session to introduce the Project to the general community. We would be pleased to present display materials and to have Samsung and Stantec representatives available to answer questions from the community, and to receive any information about the study area that members of the community may wish to share so that it can be considered during the Renewable Energy Approval (REA) process.

In the event that you have any questions or concerns, or would like to schedule an introductory meeting and/or Community Information Session, please do not hesitate to contact Kara Hearne at Stantec via phone (519-836-6050) or email (kara.hearne@stantec.com). We look forward to working with you throughout the development of this renewable energy initiative.

Sincerely,

STANTEC CONSULTING LTD.



Rob Nadolny

Senior Project Manager

Tel: (519) 836-6050

Fax: (519) 836-2493

rob.nadolny@stantec.com

Attachments: Notice to Engage & Notice of Public Open House
Draft Project Description Report (version 2)
Public Open House #1 Display Panels

cc. Adam Rosso, Samsung Renewable Energy Inc.
Hagen Lee, Samsung Renewable Energy Inc.
Kara Hearne, Stantec



Stantec Consulting Ltd.
Suite 1 - 70 Southgate Drive
Guelph ON N1G 4P5
Tel: (519) 836-6050
Fax: (519) 836-2493

Stantec

June 10, 2011
File: 161010646/161010624

Oneida Nation of the Thames
2212 Elm Avenue
Southwold ON N0L 2G0

**Reference: Grand Renewable Energy Park
Renewable Energy Approval – Project Update and Information Request**

Dear Chief Joel Abram:

Samsung Renewable Energy Inc. (Samsung) and Pattern Energy (Pattern) are proposing to develop the Grand Renewable Energy Park (GREP), a combined wind and solar generation project, within Haldimand County, Ontario. If approved, the wind portion of the GREP would have a nameplate capacity of 140 MW and consist of approximately 69 wind turbines. The solar portion of the GREP would have a nameplate capacity of 100 MW and utilize approximately 900 acres of land. Both aspects of the GREP would also include electrical collection lines, a transmission line, substation, and other ancillary facilities such as access roads.

The GREP is subject to the Renewable Energy Approval (REA) process, as outlined in Ontario Regulation 359/09 - Renewable Energy Approvals under Part V.0.1 of the Act of the *Environmental Protection Act* (O.Reg 359/09). Stantec Consulting Ltd. (Stantec) is the primary consultant responsible for preparing the REA application for the GREP.

Project Update

Project work throughout Summer and Fall of 2010 and Winter of 2011 has been primarily focused on preliminary engineering work, noise assessments, landowner agreements, natural heritage background and field studies, and dialogue with the local residents, municipality, Ministry of Natural Resources (MNR) and Aboriginal communities. There was also an Open House held on July 8, 2010; the display boards presented at the Public Open House were sent to you on November 15, 2010.

We are now addressing MNR comments on the GREP's Natural Heritage Assessment, completing further field studies for the GREP, and are in the process of analyzing the results of these surveys. We have also completed much of the Stage 2 Archaeological Assessment, and are now continuing this work. Currently, we are drafting reports and working on the assessment of potential impacts and mitigation measures for environmental features that have been identified. Please find enclosed a copy of our first Project newsletter, issued in December 2010.

June 10, 2010

**Reference: Grand Renewable Energy Park
Renewable Energy Approval – Project Update and Information Request**

The preliminary wind turbine layout for the GREP, which includes 69 wind turbines, is also enclosed and we welcome your input on the layout. The map has also been uploaded to the project website (www.samsungrenewableenergy.ca). This preliminary wind turbine layout has been submitted to the Ontario Ministry of the Environment (MOE) as part of the crystallization process.

Information Request

The MOE has identified your community as potentially having constitutionally protected aboriginal or treaty rights that may be adversely impacted by the GREP. However, we do not presently have information from your community regarding how these rights may be affected by project activities. We would welcome the opportunity to understand how aboriginal rights are exercised in the project area (e.g. areas used for traditional activities by your community) so that we may work together and share information on how best to mitigate any potential impacts that may be identified.

As outlined in subsection 17.1.4 of O.Reg. 359/09, we would like to request that you provide, in writing, any information that, in your community's opinion, should be considered in preparing the REA reports for the project, and in particular, any information your community may have about any adverse impacts the GREP may have on constitutionally protected aboriginal or treaty rights and any measures for mitigating those adverse impacts.

In addition to the enclosed materials, to date we have provided your community with the following information regarding the Project:

- Notice of Proposal to Engage in a Renewable Energy Project and Notice of Public Open House
- Draft Project Description Report (version 2)
- Display boards presented at the Public Open House on July 8, 2010

We sincerely hope that this information will provide the project background you may need to help identify for us the information we have requested. However, should you require additional information about the GREP, please let us know.

Closure

Samsung has previously offered to meet with your community's representatives to discuss the GREP. In addition, Samsung has previously extended an offer to hold a Community Information Session to introduce the project to the general community. Samsung continues to be available for either of these opportunities at your convenience.

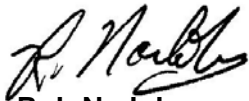
June 10, 2010

**Reference: Grand Renewable Energy Park
Renewable Energy Approval – Project Update and Information Request**

In the event that you have any questions or concerns, please do not hesitate to contact Kara Hearne at Stantec via phone (519-836-6050) or email (kara.hearne@stantec.com). We look forward to working with you throughout the development of this renewable energy initiative.

Sincerely,

STANTEC CONSULTING LTD.



Rob Nadolny
Senior Project Manager
Tel: (519) 836-6050
Fax: (519) 836-2493
rob.nadolny@stantec.com

Attachments: GREP Newsletter – Volume 1 (December 2010)
Preliminary Wind Turbine Layout Map

cc. Kara Hearne, Stantec
Adam Rosso, Samsung
Hagen Lee, Samsung
Marnie Dawson, Samsung
GY Yoo, Samsung



NEWSLETTER



Newsletter Overview

- Message from Samsung
- Holiday Wish
- Project Update
- Layout

Dear Neighbours,

Samsung Renewable Energy Inc. and Pattern Energy are excited to be publishing our first project newsletter for our Grand Renewable Energy Park Project. We are excited about the progress of the Grand Renewable Energy Park and are looking forward to spending more time in your community.

Over the past couple of months we have been very busy ensuring we meet our manufacturing commitments with the Ontario Government. To that end, we are very pleased to mention that on December 1 and 2, 2010, CS Wind Corp. and Siemens announced the opening of a turbine tower plant and turbine blade plant in both Windsor and Tillsonburg, respectively.

We wish everyone a safe and happy holiday season, filled with laughter and fond memories.

Sincerely,

Adam Rosso
Project Developer



Seasons Greetings

Source: 1330.photobucket.com

Project Update

A lot has happened on the Grand Renewable Energy Park (GREP) since our Open House on July 8, 2010. The field work for the Natural Heritage studies are complete and we are currently in the process of completing our Stage 2 Archaeological Assessment. We have completed most of our pre-engineering work for our preliminary turbine layout and as well as our noise assessment. At the time of writing this newsletter, our consultant (Stantec Consulting Inc.) is diligently working on the required reports for our renewable energy approval (REA) submission. The required reports for our REA submission include:

- Natural Heritage Report
- Construction Report
- Decommissioning Report
- Design & Operations Report
- Project Description Report
- Specifications Report

- Consultation Report

The reports listed above, with the exception of the consultation report, will be provided to the public for a 60 day review prior to our next open house for GREP. We anticipate these reports will be available for review in the first quarter of 2011.

Layout

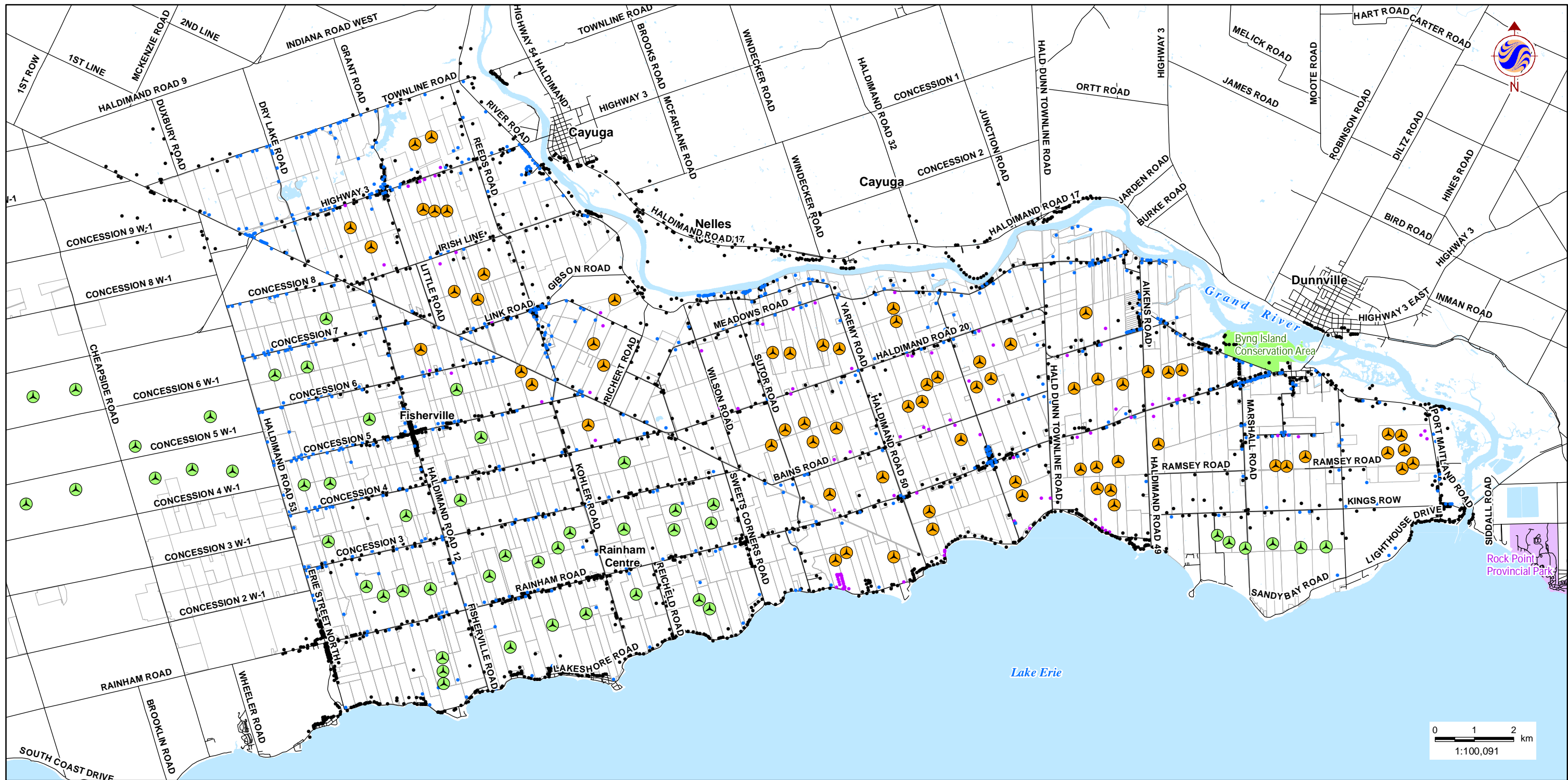
Samsung and Pattern are pleased to release our preliminary wind turbine layout to the public. A map has been uploaded to our website which indicates proposed turbine locations, participating lands and adjacent projects.

We will continue to keep you updated as we move through the REA process.

You can also check our project website at

www.samsungrenewableenergy.ca
















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December 2010
160960577

Legend

- | | | | |
|---|-------------------------|---|-------------------------------|
|  | Samsung GREP Turbine |  | Noise Receptor |
|  | Other Proponent Turbine |  | Participant |
|  | Road |  | Receptor |
|  | Property Boundary |  | Vacant Lot Surrogate Receptor |
|  | Conservation Area | | |
|  | Provincial Park | | |
|  | Waterbody | | |

Notes

1. Coordinate System: UTM NAD 83 - Zone 17.
2. Data Sources: Ontario Ministry of Natural Resources © Queens Printer Ontario, 2009; © Samsung, 2010; © NextEra, 2010; © Zephyr North, 2010.

Client/Project
SAMSUNG C&T
GRAND RENEWABLE ENERGY PARK

Figure No.
DRAFT

Title
**PRELIMINARY LAYOUT
MAP**



Stantec



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Guelph ON N1G 4P5
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Fax: (519) 836-2493

Stantec

July 19, 2011
File: 160960577 / 161010624

Oneida Nation of the Thames
R.R. #2
Southwold, ON N0L 2G0

Attention: Chief Joel Abram

Reference: Grand Renewable Energy Park – Release of Draft Renewable Energy Approval Reports

Dear Chief Abram:

Samsung C&T (Samsung), Pattern Energy (Pattern), and Korea Power Electric Corporation (KEPCO) (together, these companies referred to herein as “SPK”) are proposing to develop, construct, and operate a wind and solar energy project as part of the Grand Renewable Energy Park (GREP), in Haldimand County. SPK is planning to engage in this renewable energy project in respect of which the issuance of Renewable Energy Approvals (REA) is required. The proposal to engage in the project and the project itself are subject to the provisions of the *Environmental Protection Act (ACT)* Part V.0.1 and Ontario Regulation 359/09 (O. Reg. 359/09).

On behalf of SPK, Stantec is pleased to provide you with a copy of the Draft REA Reports for your review and comment. As required under O. Reg. 359/09 and the Ministry of Natural Resources (MNR) *Approval and Permitting Requirements Document (APRD) for Renewable Energy Projects*, this Draft REA Reports package includes the following draft reports:

- Project Description Report – as outlined in item 10 of Table 1 of O. Reg. 359/09;
- Natural Heritage Assessment Report – as required under sections 24, 25, 26, 27 and 28 of O. Reg. 359/09 and section 6.3 of the MNR’s Requirements Document;
- Construction Plan Report – as outlined in item 1 of Table 1 of O. Reg. 359/09 and section 6.7 of the MNR’s Requirements Document;
- Design and Operations Report – as outlined in item 4 of Table 1 of O. Reg. 359/09 and section 6.6 of the MNR’s Requirements Document;
- Decommissioning Plan Report – as outlined in item 3 of Table 1 of O. Reg. 359/09 and section 6.8 of the MNR’s Requirements Document;
- Environmental Impact Study – as required under section 38 of O. Reg. 359/09;
- Wind Turbine Specifications Report – as outlined in item 13 of Table 1 of O. Reg. 359/09;
- Archaeological and Heritage Reports - as required under sections 19, 20, 21, 22 and 23 of O.Reg. 359/09;
- Water Body and Water Assessment Report - as required under sections 29, 30 and 31 of O. Reg. 359/09. Further information related to potential effects and mitigation measures to water bodies, as required under sections 39, 40, 44, and 45 of O. Reg. 359/09 is provided in the Water Body and Water Assessment Report, Construction Plan Report and Design and Operations Report; and,

July 19, 2011
Attention: Chief Joel Abram
Page 2 of 2

Reference: Grand Renewable Energy Park – Release of Draft Renewable Energy Approval Reports

- Project Summary Report – as outlined in section 17. (1)3 of O. Reg. 359/09. The Draft Project Summary Report provides a summary of the potential environmental effects including those which the Project may have on constitutionally protected Aboriginal or treaty rights.

The attached Notice of Public Meeting will be published in local newspapers within Haldimand County the week of July 20th. Please let us know if you would also like a copy of the Notice to be published in a newspaper within your community.

The MOE has identified your community as potentially having constitutionally protected aboriginal or treaty rights that may be adversely impacted by the GREP. However, we do not presently have information from your community regarding how these rights may be affected by project activities. We continue to welcome the opportunity to understand how aboriginal rights are exercised in the project area (e.g. areas used for traditional activities by your community) so that we may work together and share information on how best to mitigate any potential impacts that may be identified.

We would like to request that you provide, in writing, any information that, in your community's opinion, should be considered in preparing the final version of the REA reports for the project, and in particular, any information your community may have about any adverse impacts the GREP may have on constitutionally protected aboriginal or treaty rights and any measures for mitigating those adverse impacts. We respectfully request any information/comments you may have by no later than September 22, 2011 so that the information can be considered during project planning and preparation of the final versions of the REA reports. The project team welcomes comments after this date, however only comments received by September 22, 2011 will be included in the Project's Consultation Report that will be submitted as part of the project's REA application.

We also respectfully request that these reports be made available to your community members. Given the size of the enclosed reports, we have not included an additional hard copy in an effort to conserve paper. However, we would be happy to send additional hard copies or electronic copies if needed; please let us know.

In the event that you have any questions or concerns, please do not hesitate to contact Kara Hearne at Stantec via phone (519-836-6050) or email (kara.hearne@stantec.com). We look forward to working with you throughout the development of this renewable energy initiative.

Sincerely,

STANTEC CONSULTING LTD.



Rob Nadolny
Senior Project Manager
Tel: (519) 836-6050
Fax: (519) 836-2493
Rob.nadolny@stantec.com

Attachment: Draft REA Reports package
Notice of Public Meeting

Stantec

**GRAND RENEWABLE ENERGY PARK
CONSULTATION REPORT**

Appendix I

Shadow Flicker Assessment

GRAND RENEWABLE ENERGY PARK

SHADOW FLICKER REPORT

Revision 0

Prepared for:



Stantec

Prepared by:

J. R. Salmon

2011 September 20



Zephyr North

Zephyr North Ltd.

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1 INTRODUCTION

This report summarizes the results of a computer model study to determine the extent of ‘shadow flicker’ on receptors in the vicinity of the turbines in Samsung Renewable Energy Inc.’s prospective Grand Renewable Energy Park (GREP) wind generation project.

The Grand Renewable Energy Park is located in Haldimand County on the north shore of Lake Erie. The project features one wind farm cluster of 69 wind turbines with a nominal capacity of 153.0 MW, and one solar array with a nominal capacity of 100 MW. The project is located roughly between the towns of Fisherville to the west and Dunnville to the east.

Figure 1 shows the project location and details.

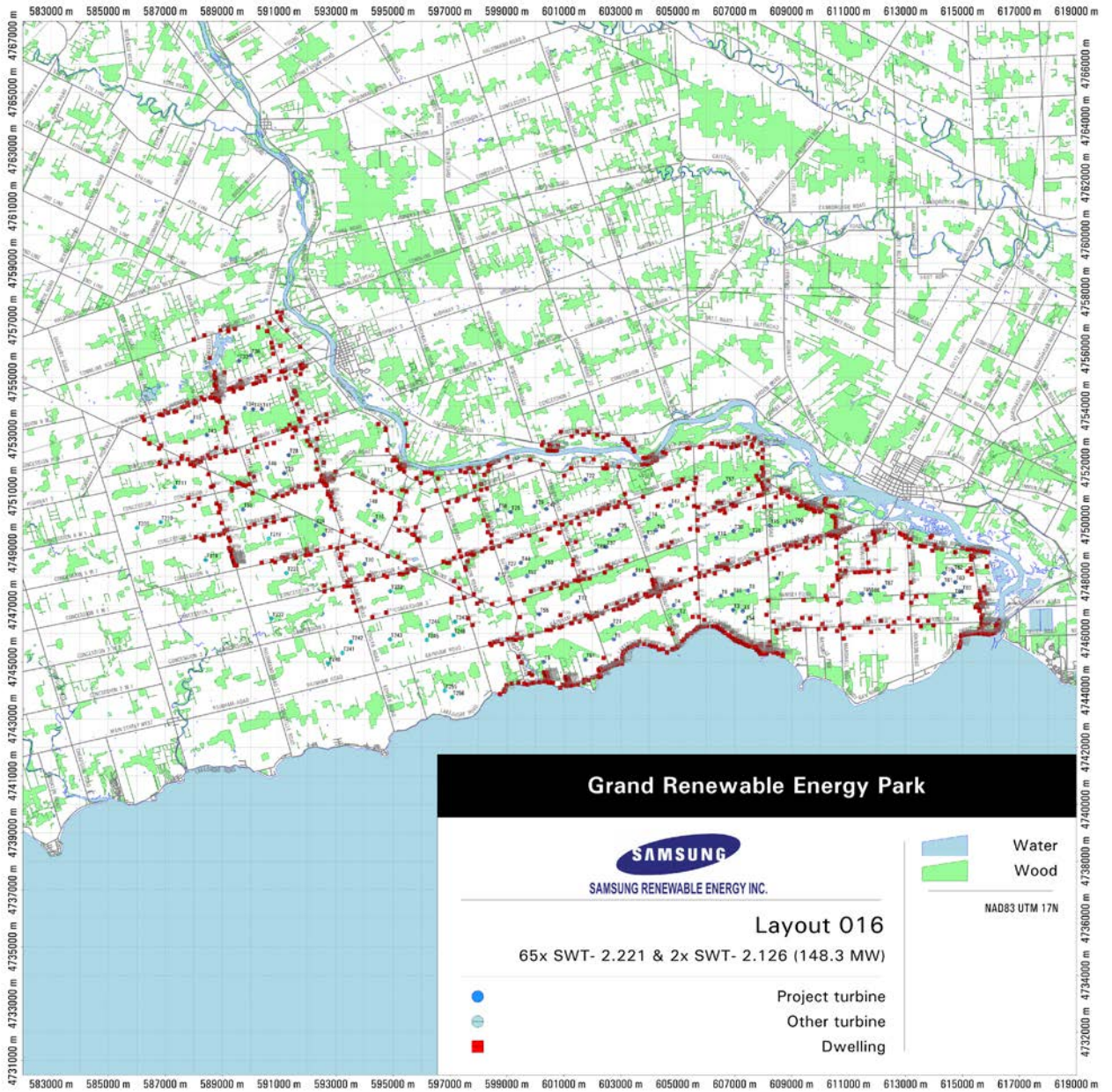


Figure 1: Map of project site.

2 SHADOW FLICKER

2.1 Definition

When referring to wind energy projects, ‘shadow flicker’ is a result of the sun casting intermittent shadows from the rotating blades of a wind turbine onto a sensitive receptor such as a window in a building. The ‘flicker’ is the cyclical light intensity alternating between bright sunshine and turbine blade shadow, caused by the turbine blade intercepting the direct beam of sunlight.

It is important to note that only a limited area within the vicinity of a turbine or turbines will be impacted by shadow flicker. However, it is also important to ensure that residences (termed *receptors* in this report) will be subject to only limited amounts of this phenomenon or that mitigation of the phenomenon can be achieved.

The occurrence of the astronomical/geometric conditions that allow shadow flicker to occur are relatively easily and accurately predicted with a computer model, while the cumulative amount of this phenomenon can be estimated with additional knowledge of the local environment.

2.2 Regulations

The author is not aware of any Ontario laws nor regulations for wind turbine shadow flicker.

2.3 Environmental Effects

Generally, high intensity shadow flicker can be a concern for nuisance or health reasons.

2.3.1 Nuisance

The phenomenon can be bothersome to individuals within relatively darkened enclosed spaces where significant shadow flicker impinges upon the window that provides the majority of the light to the space. In this case, the light level appears to be fluctuating within the room. Generally, this nuisance can be alleviated by closing a curtain, and mitigated by brightening up the room with artificial lighting, for example. In addition, mitigation can occur outside of the affected space. For example, trees or shrubs can be planted outside a window subject to shadow flicker.

2.3.2 Health

For the turbines proposed for this project, the Siemens SWT-2.3-101 noise and power-reduced variants, the frequency of rotation results in a shadow flicker frequency well below the range that can trigger photosensitive epilepsy which, according to the National society for Epilepsy (2007), varies from person to person but generally lies between 5 and 30 flashes per second. The SWT-2.3-101 turbine operates with a rotational frequency between 6 and 16 rpm, resulting in a flicker frequency from the three blades of 0.3 to 0.8 flashes per second.

2.4 Amount and Duration

There are a number of factors that affect the intensity, duration, and amount of shadow flicker. These are described in the following sections.

2.4.1 Relative location of the sun, turbine and receptor

This is a simple geometric condition that stipulates that the rotor blades need to cut the linear path between the sun and the receptor.

On a cloud-free day there will be shadow flicker surrounding the turbine all day long. However, there are a number of mitigating circumstances that will result in the impingement of the shadow flicker on a typical receptor (a residence) for only a small fraction of the day. Of these, there are minimum and maximum distances between the turbine and receptor for which shadow flicker would be a concern.

Due to typical distance and noise setback requirements for large-scale turbines in Ontario, the receptor cannot be any closer to the turbine than 550 m (unless it is the residence of a financial participant in the project). Therefore, for the bulk of the daylight hours when the sun is at its highest altitude and shadows are confined to a relatively small area in the vicinity of the turbine, the receptor cannot be in the shadow of the turbine blades.

At turbine-receptor separations of more than about 1,000 m, the Rayleigh and/or Mie scattering of the sun's rays will diffuse the boundary of the blade's shadow to an extent that there is no sudden change from sunlight to shadow as the blade shadow sweeps by. In this circumstance, it appears to an observer at the receptor that the turbine blades are periodically occluding the sun, but there is no significant alternation in the ambient light level.

Calculations can relatively easily be made which determine the instantaneous occurrence of shadow flicker based on a perfectly transparent atmosphere at a flat, unobstructed site assuming that none of the shadow flicker reducing conditions listed below occur. These calculations depend on the astronomical/geographical location of the sun (determined from the time of day, day of the year, and year), turbine, and receptor; the dimensions of the turbine; and the dimensions of the receptor. The instantaneous calculations can then be summed to determine the total amount of shadow flicker expected at a receptor site for the duration of a full year. While this is referred to as the "astronomical worst case", this "case" can

never be achieved due to the effects described in the following sections.

2.4.2 Topography

The topography can affect shadow flicker in various ways — blocking of the sun by hills or mountains, blocking of the sun when a receptor lies in a valley, shortening or elongation of the blade shadows by the topographic slope at the receptor, *etc.* Note that topographic effects are included in the calculations carried out by the WindFarm software as described in Section 7.

2.4.3 Plane of rotor rotation

If the wind is blowing such that the turbine rotor's plane of rotation is perpendicular to the line between the sun and the receptor then there will be distinct shadows. However, if the plane of rotation is close to the line from the sun to the receptor, then there will be very little, if any, alternation of sunlight and shadow at the receptor. Due to the climatological distribution of wind directions, it is reasonable to expect that the plane of rotation of the turbine's blades will be perpendicular to the alignment of sun, turbine, and receptor for only part of the time.

2.4.4 Turbine operation

There will be times when the turbine is not operating due to wind speeds which are either too low or too high. It will also be inoperable when the electrical grid is not available to accept electricity, or when turbine maintenance is being carried out. Obviously, during these times, the turbine cannot cause shadow flicker.

A specific aspect of this factor, the fraction of time of turbine operation due to wind frequency distribution, is discussed further in Section 5 on page 17.

2.4.5 Receptor characteristics

This generally pertains to the disposition of windows in the receptor building, as typically the greatest nuisance occurs when the shadow flicker impinges on the window of a darkened room. The maximum effect occurs when the window is perpendicular to the line from the sun to the receptor through the turbine blades, and diminishes with rotation (about a vertical axis) of the window to a plane parallel to the sun-turbine-receptor line.

Obviously, there can be no shadow flicker (inside a room) if there is no window facing the turbine.

2.4.6 Cloud cover

If the sun is obscured by cloud, there is no source of light to create the shadow flicker.

This is discussed further in Section 6 on page 19.

2.4.7 Atmospheric clarity

If the atmosphere is particularly hazy, there is considerable scattering of the sun's rays and an intense beam of collinear light is not available for creating shadows behind the turbine blades. This can occur during periods of high humidity or atmospheric pollution, and is particularly noticeable if the sun is closer to the horizon when its light rays need to travel through a greater depth of atmosphere.

2.4.8 Obstacles

It is reasonably obvious that if there is an obstacle, such as, say, a building or tree between the turbine and the receptor, then the shadow flicker can either be completely eliminated, or, in some instances, reduced in intensity.

3 THE WIND ENERGY PROJECT

3.1 Project Site

The Grand Renewable Energy Park is located in Haldimand County. Project details along with typical topographic map features are shown in Figure 1.

Within the project domain, the topography can be characterized as very gently rolling to the point of being almost flat. On the land portion of Figure 1, the contour lines (5 m contour interval) confirm this. Note that the general terrain elevation in the land portion of the project area is about 198 m above sea level (a.s.l.). To the south of the project domain lies (the obviously very flat) Lake Erie with its surface located at 175 m a.s.l.

The surface roughness of the project domain is typical of Ontario rural terrain with a heterogeneous mixture of agricultural fields, woodlots, farm buildings, dwellings, rural settlements, and small villages and towns. The primary activity in this area is agriculture.

The GREP site features a population density typical of southern Ontario rural communities — a relatively sparse population in the countryside except for a small number of settlement clusters (villages and towns).

3.2 Project Details

Figure 1 shows the properties that have been optioned for lease to the project proponent (Samsung Renewable Energy Inc.) along with prospective turbine and dwelling locations. Turbine numbers are designated with the prefix ‘T’, and dwellings are designated with ‘R’ (Receptor).

As specified by Ontario Regulation O.Reg 359/09 (Ontario, 2009), the Grand Renewable Energy Park is a Class 4 Wind Project.

The GREP will consist of 69 power-de-rated Siemens turbines. There will be 66 SWT-2.221-101 and 3 SWT-2.126-101 turbines resulting in a project nameplate capacity of 153.0 MW. (Note, for clarity, that these turbines are often referred to as model SWT-2.3-101 — their nominal designation.) In Figure 1, project turbines are numbered T1 to T69.

The project stretches for a distance of about 14 km roughly parallel to the shoreline of Lake Erie. Turbines are located from approximately 0.8 km to 14.3 km from the shoreline.

A listing of all turbine locations can be found in Section 9 (Appendix A) of this report.

3.3 Adjacent Projects

3.3.1 Summerhaven Wind Energy Centre

Figure 1 shows tentative locations of turbines in the NextEra Energy Canada ULC, Summerhaven Wind Energy Centre (SWEC) project. These turbines are located roughly to the south and west of the GREP project. In Figure 1, Summerhaven project turbines are numbered T201 to T296. Note that not all of the SWEC turbines are shown as the project extends some distance to the west.

NextEra Energy has informed Samsung Renewable Energy Inc. that the SWEC project will be comprised of 60 power de-rated Siemens SWT-2.221-101 and one power-de-rated Siemens SWT-2.221-93 turbine for a project capacity of approximately 135 MW.

4 TURBINE SPECIFICATIONS

4.1 GREP Wind Turbines

The turbines proposed for the GREP are manufactured by Siemens Wind Systems A/S (www.siemens.com) of Germany. Siemens Wind Power A/S is a relative newcomer to the ranks of wind turbine manufacturers. However, it entered the market by purchasing the long-standing and experienced Bonus turbine manufacturing company. The proposed models are the SWT-2.221-101 and the SWT-2.126-101. Both of these turbines are noise and power-reduced variants of the base SWT-2.300-101 model.

4.1.1 Siemens SWT-2.221-101 Turbine

The following table summarizes this turbine's characteristics.

	Siemens SWT-2.221-101
Type, number of blades, rotor orientation	horizontal-axis, 3-bladed, upwind wind turbine
Rated power	2,221 kW
Rotor diameter; swept area	101.0 m; 8,000 m ²
Operational rotation rate	6.0 to 16.0 rpm; variable speed
Hub height; tower type	99.5 m; steel tubular tower
Power regulation	pitch regulation with variable speed
Cut-in wind speed	4 ms ⁻¹
Cut-out wind speed	25 ms ⁻¹
Rated wind speed	12-13 ms ⁻¹
Gearbox	yes; 3 stage planetary/helical
Generator; speed	asynchronous with squirrel-cage rotor, without slip rings; variable speed
Turbine transformer	internal (within tower)
Braking system	aerodynamic primary brake by full-span feathering of individual blades; mechanical disk brake on high-speed shaft which has two hydraulic calipers
Yaw system	active electric externally geared slewing;

	Siemens SWT-2.221-101
	passive friction brake

4.1.2 Siemens SWT-2.126-101 Turbine

The following table summarizes this turbine's characteristics.

	Siemens SWT-2.126-101
Type, number of blades, rotor orientation	horizontal-axis, 3-bladed, upwind wind turbine
Rated power	2,126 kW
Rotor diameter; swept area	101.0 m; 8,000 m ²
Operational rotation rate	6.0 to 16.0 rpm; variable speed
Hub height; tower type	99.5 m; steel tubular tower
Power regulation	pitch regulation with variable speed
Cut-in wind speed	4 ms ⁻¹
Cut-out wind speed	25 ms ⁻¹
Rated wind speed	12-13 ms ⁻¹
Gearbox	yes; 3 stage planetary/helical
Generator; speed	asynchronous with squirrel-cage rotor, without slip rings; variable speed
Turbine transformer	internal (within tower)
Braking system	aerodynamic primary brake by full-span feathering of individual blades; mechanical disk brake on high-speed shaft which has two hydraulic calipers
Yaw system	active electric externally geared slewing; passive friction brake

4.2 SWEC Wind Turbines

In addition to the GREP project turbines, there are 60 Siemens SWT-2.221-101 turbines and one Siemens SWT-2.221-93 turbine in the Summerhaven Wind Energy Centre project. Because the Golder (2010) project noise assessment report (the source of SWEC turbine location information) does not specify which of the Summerhaven wind turbines is the single SWT-2.221-93, and for simplicity of analysis, Zephyr North treated the Summerhaven wind project as all 61 Siemens SWT-2.221-101 turbines. This is a conservative assumption for the purpose of this report.

4.2.1 Siemens SWT-2.221-101 Turbine

A description of the SWT-2.221-101 turbine has been provided above. Note that the only known difference between the GREP and SWEC SWT-2.221 turbines is that the hub-height of the latter turbines has been reported as 80 m. Aside from this difference in the hub height, NextEra has not provided any information to Samsung Renewable Energy Inc. nor to Zephyr North to suggest that the SWT-2.221-101 turbines used in the Summerhaven project will be any different from the description in the table above.

Turbine locations and any additionally required information have been taken from the Golder (2010) noise assessment report.

5 WIND DATA

As noted above, shadow flicker will occur only when the turbine is actually operating. This will depend on whether the hub-height wind speed is between the specified cut-in and cut-out speeds. The amount of time that the wind speed meets these constraints can be determined from the (hub-height) wind speed frequency distribution.

The project's Mast1 60m MWM (mast wind monitoring) station is located within the project domain as shown in Figure 1. 10-minute average wind speeds and/or wind directions have been measured at 35.0, 45.0, 58.0 and 61.5 m above ground level (a.g.l.) at this station during the period 2009/11/14 to the present.

The project's Mast2 60m MWM station is also located within the project domain as shown in Figure 1. 10-minute average wind speeds and/or wind directions have been measured at 28.1, 43.0, 58.0 and 61.5 m (a.g.l.) at this station during the period 2009/10/02 to the present.

Note that a third project wind monitoring station, Mast3 100m MWM, shown in Figure 1, has been measuring wind speeds and directions up to approximately 100 m a.g.l. since 2010/06/04. Data from this site were not available for the present analysis.

Subsets of the data from Mast1 and Mast2 deemed to be complete and reliable, and each covering a full year, were analyzed to determine direction-dependent surface roughness lengths (z_0). These subsets were then used with the derived roughness lengths to estimate/extrapolate the frequency distribution of wind speeds shown in Figure 2 for the 95 m hub height. Figure 2 is derived from the Mast1 60m MWM data and is typical of the site.

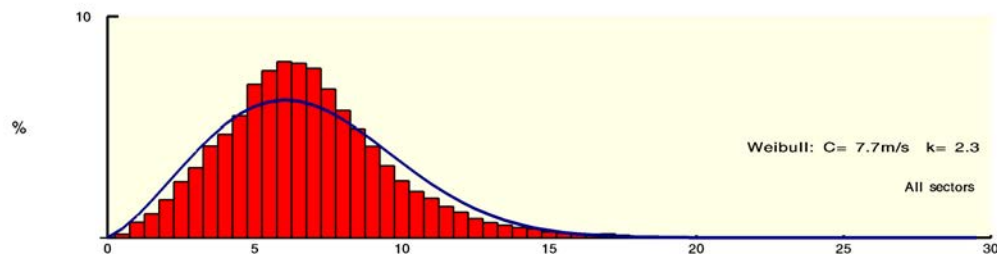


Figure 2: Typical hub height 95 m wind speed frequency distribution.

Analysis of the 95 m speed frequency distribution at both Mast1 and Mast2 stations reveals that the hub-height wind speed was, typically, between turbine cut-in and cut-out values for 91% of the time. Where noted, this fraction of operating time has been factored into the results for the shadow flicker analysis.

6 CLOUD COVER

As noted above in Section 2.4, shadow flicker will only occur at times when the sun is not obscured by clouds. Therefore, a measure of the proportion and time during which clouds obscure the sky will contribute to a more accurate estimate of the amount of shadow flicker at the project site.

The Canadian Climate Normals (see Section 8, References) from the Meteorological Service of Canada (a Service of Environment Canada) lists the climatological average of the number of hours per month of three categories (1/10 to 2/10, 3/10 to 7/10, 8/10 to 10/10) of cloud amount in tenths at Pearson and London International Airports. These are the closest locations for which this type of data are recorded. For this study, the tenths cloud amount value has been used as a statistical surrogate for the cloud coverage time. For example, for 1/10 cloud amount, it was assumed that the sky is covered for one tenth of the time and that this condition prevents the occurrence of shadow flicker. 10/10 cloud amount is interpreted as full cloudiness (no shadow flicker) for the full period.

Analysis of the cloud amount data results in an estimate that, statistically, the sky is cloudy 62% of the time during the climate normal period (30 years). Inversely, it can be expected that during 38% of the daylight hours, the sky is clear and shadow flicker can occur.

It is worth noting that the number of 'Hours of Bright Sunshine' are also recorded at MSC stations London International Airport, Toronto, Delhi, Vineland Station, and Hamilton RBG. Analysis of the climate normals at these stations for this parameter results in an estimate of 42% of the daylight hours when bright sunshine occurs. This is reasonably consistent with the value of 38% for cloud-free time determined above.

The fractional period of cloud coverage (38%) was factored into the total hours per year for the shadow flicker analysis.

7 SHADOW FLICKER ANALYSIS

7.1 Software

Analysis was carried out with the Shadow Flicker module of ReSoft WindFarm (www.resoft.co.uk). This software suite was written specifically to design and analyze wind projects. Once populated with wind project data (turbine, receptor, locations, topography, surface aerodynamic roughness, turbine specifications, *etc.*), it can be used to carry out a variety of wind farm design and analysis tasks including the calculation of times and durations of shadow flicker.

7.2 Analysis Parameters

The data files of WindFarm (see the WindFarm base layout file name below) contain geographical locations of shadow flicker (and noise) receptors, locations for wind turbines (both project turbines and turbines in neighbouring projects), and a gridded topography for a large area including and surrounding the Grand Renewable Energy Park project. Ancillary files also contain turbine specifications such as turbine hub height, rotor diameter, *etc.* These data are sufficient to calculate the astronomical/geometrical incidence and duration of shadow flicker with the assumption of 100% clear sky and 100% turbine operation.

The Shadow Flicker module of WindFarm calculates the occurrence and duration of shadow flicker on individual windows at each of the receptors. To ensure that the calculation would result in a conservative estimate of the shadow flicker for this project, each receptor was specified to contain 16 windows facing north (0°), north-northeast (22.5°), northeast (45°), east-northeast (67.5°), east (90.0°), east-southeast (112.5°), southeast (135.0°), south-southeast (157.5°), south (180.0°), south-southwest (202.5°), southwest (225.0°), west-southwest (247.5°), west (270.0°), west-northwest (292.5°), northwest (315.0°), and north-northwest (337.5°) respectively. Windows were further specified to be 1.0 m wide by 1.0 m high with their centres positioned 2.0 m from the ground. Additional settings for the shadow flicker analysis were as follows:

WindFarm base layout file name:	GRE10-WFL012-SFOnly.wfl
Turbine hub height:	99.5 m for project turbines; 80.0 m SWEC turbines
Turbine rotor diameter:	101 m (both projects)
Minimum sun height:	3° above the horizon (to avoid atmospheric refraction errors and to ensure that the sunlight is bright enough to cause shadow flicker)
Turbine calculation domain:	within 1,000 m or each turbine
Earth's curvature:	included in analysis
Calculation year:	2011

All receptors (as determined for a Noise Assessment Report carried out for this project) within 2 km of any turbine (project and neighbouring) were included in the analysis.

7.3 Analysis

7.3.1 Individual Receptors

Shadow flicker occurrences and amounts were calculated for each window of each receptor. The amounts (as number of days per year with shadow flicker occurrence, astronomical total number of hours of shadow flicker per year, and corrected total number of hours of shadow flicker per year) for all qualifying receptors are listed in Section 10 for all qualifying receptors. Note that results are shown only for the window which receives the most hours of shadow flicker, and that other windows may receive these many hours. (For brevity, though, only a single window is listed.)

A portion of the full table found in Section 10 is repeated here as Table 1. This table has been sorted with descending values of **Corrected total hours per year**.

The column titled **Days per year possible occurrence** refers to the number of days per year in which it is astronomically/geometrically possible (*i.e.*, the geometry between the sun, a turbine, and the receptor is as required) for shadow flicker to occur at the listed window of the receptor. As noted in Section 2.4, this does not necessarily mean that shadow flicker *will* occur; it means that if all other conditions are favourable, then shadow flicker *can* occur.

The **Astronomical maximum total hours per year** column refers to the total number of hours in a year during which it is astronomically/geometrically possible for shadow flicker to occur. As noted previously, this does not necessarily mean that flicker *will* occur; it means that if all other conditions are favourable, then shadow flicker *can* occur.

The **Corrected total hours per year** column lists the estimated total annual hours (in a statistically typical year) of shadow flicker on a specific receptor window factoring

for the time that the turbine is operational (91%) and the fraction of the time that the sky is clear (38%). It has implicitly been assumed that there is no significant correlation between time of day, turbine operation, and cloud cover. Note, though, that realistically this is still an estimated (statistical) maximum, as a number of additional factors have not been taken into account.

The estimated maximum amount (**Corrected total hours per year**) of shadow flicker, 23.5 hours, occurs at receptor R2885. If these hours of shadow flicker were spread equally throughout the 158 days on which it is astronomically/geometrically possible for the phenomenon to occur, then there would be, on average, about 8.9 minutes per day of shadow flicker at R2885. Note, though, that due to the variety of factors listed in Section 2.4, there will be a distribution of periods of shadow flicker on a daily basis.

Table 1: Sorted occurrences and amounts of shadow flicker at receptors.

Receptor ID	Window direction (° true)	Days per year possible occurrence	Astronomical maximum total hours per year	Corrected total hours per year
2885	270.0	158	68.1	23.5
2884	292.5	174	67.4	23.3
2887	225.0	137	57.9	20.0
474	270.0	117	57.3	19.8
272	67.5	100	54.8	18.9
525	135.0	98	50.9	17.6
2886	292.5	112	50.2	17.4
532	270.0	107	48.9	16.9
337	112.5	84	47.2	16.3
1239	292.5	91	46.8	16.2
142	112.5	86	45.3	15.7
1031	270.0	94	44.0	15.2
730	112.5	84	43.1	14.9
119	135.0	106	42.5	14.7
473	247.5	64	42.0	14.5
564	112.5	94	41.5	14.4
731	112.5	84	40.8	14.1
1076	67.5	92	40.4	14.0
524	112.5	90	39.6	13.7
843	157.5	101	39.5	13.7
595	292.5	80	39.4	13.6
175	247.5	90	39.1	13.5
2346	135.0	66	38.9	13.5
291	202.5	72	38.2	13.2
3006	45.0	78	37.7	13.0
711	90.0	88	37.3	12.9
37	112.5	76	36.2	12.5
1225	292.5	92	36.2	12.5
336	90.0	90	35.9	12.4
1296	90.0	70	35.9	12.4
1224	292.5	80	35.8	12.4
2956	225.0	86	35.8	12.4
147	202.5	85	35.7	12.3
534	270.0	84	35.7	12.3
1367	292.5	97	35.6	12.3
1075	67.5	84	35.2	12.2
409	67.5	70	34.8	12.0
2878	202.5	83	34.7	12.0

7.3.2 Distribution

Shadow flicker amount (**Corrected total hours per year**) was calculated on a 20 m x 20 m grid throughout the region and is shown in Figure 3. This map displays the estimated amount (hours per year) of shadow flicker that would occur from any feasible direction at 2.0 m above the ground at any grid point in the region in a typical (climatic) year. Isopleths of shadow flicker amount are shown on the maps. Intervals are 10 hours per year. For clarity, total amounts greater than 60 hours per year (within the area closest to the turbines) have not been shown. Of course, there are no receptors within these areas.

It is important to remember that the isopleths shown in the maps are representative of a typical year but don't take into account a number of factors as noted above. The values on the map should be considered a maximum for a typical year. It is unlikely that these amounts of shadow flicker shown at any specific location would ever be achieved on a statistical basis.

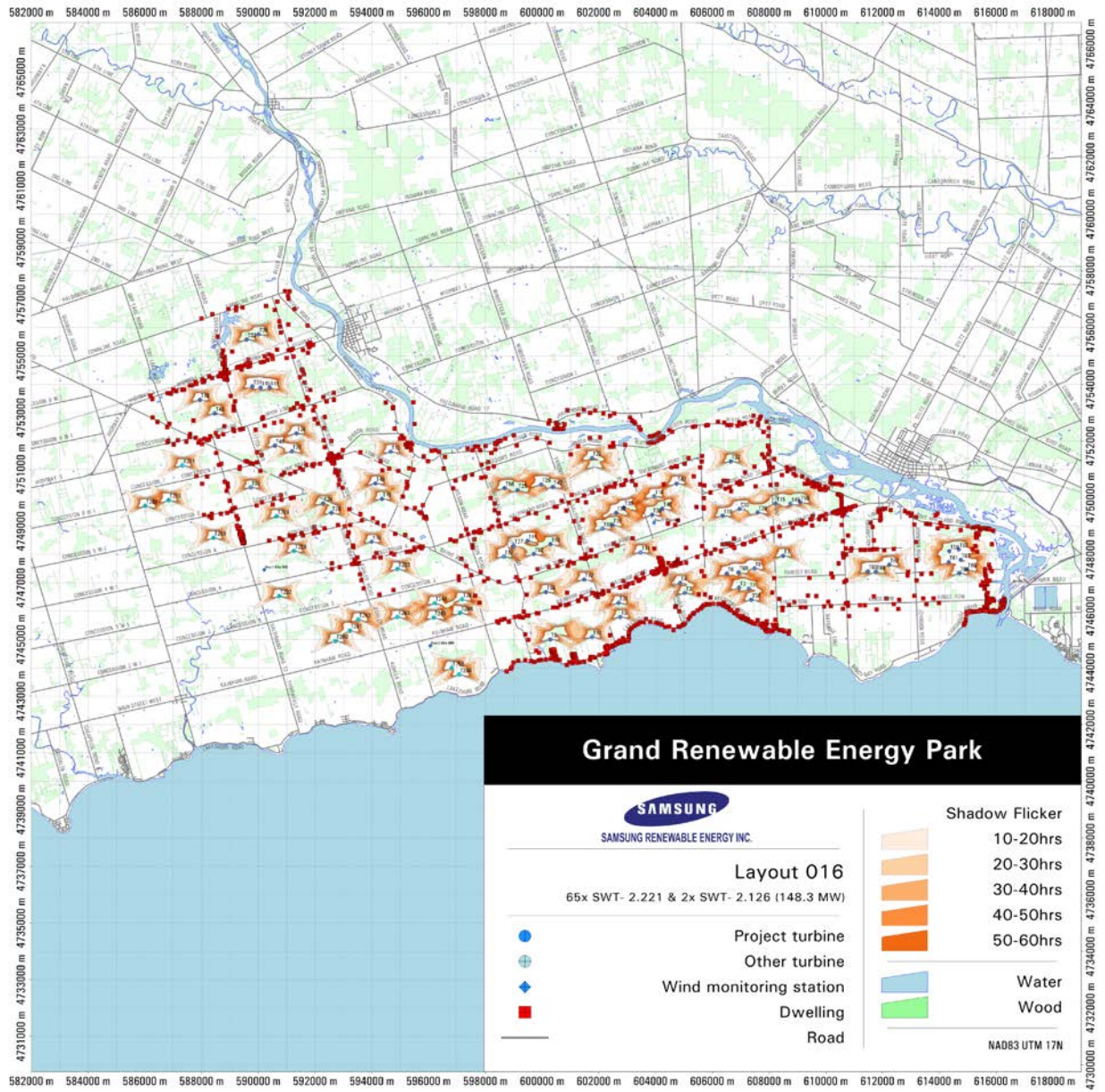


Figure 3: Map of corrected total hours per year of shadow flicker.

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9 Appendix A — TURBINE AND RECEPTOR LOCATIONS

9.1 Turbine locations

Datum and Projection: NAD83 (Canada); UTM 17N

Turbine ID	Easting (m)	Northing (m)	Type	Project
T1	607287	4746785	Siemens SWT 2221-101 RD=101m RP=2, 221kW HH=99.5m	GREP
T2	605035	4746639	Siemens SWT 2221-101 RD=101m RP=2, 221kW HH=99.5m	GREP
T3	606942	4746830	Siemens SWT 2221-101 RD=101m RP=2, 221kW HH=99.5m	GREP
T4	604861	4746993	Siemens SWT 2221-101 RD=101m RP=2, 221kW HH=99.5m	GREP
T5	602757	4745791	Siemens SWT 2221-101 RD=101m RP=2, 221kW HH=99.5m	GREP
T6	606513	4747319	Siemens SWT 2221-101 RD=101m RP=2, 221kW HH=99.5m	GREP
T7	608495	4747949	Siemens SWT 2221-101 RD=101m RP=2, 221kW HH=99.5m	GREP
T8	607477	4747512	Siemens SWT 2221-101 RD=101m RP=2, 221kW HH=99.5m	GREP
T9	600290	4745005	Siemens SWT 2221-101 RD=101m RP=2, 221kW HH=99.5m	GREP
T10	593994	4748442	Siemens SWT 2126-101 RD=101m RP=2, 126kW HH=99.5m	GREP
T11	603472	4748075	Siemens SWT 2221-101 RD=101m RP=2, 221kW HH=99.5m	GREP
T12	601479	4747111	Siemens SWT 2221-101 RD=101m RP=2, 221kW HH=99.5m	GREP
T13	594663	4751618	Siemens SWT 2221-101 RD=101m RP=2, 221kW HH=99.5m	GREP
T14	603952	4750047	Siemens SWT 2221-101 RD=101m RP=2, 221kW HH=99.5m	GREP
T15	608232	4749798	Siemens SWT 2221-101 RD=101m RP=2, 221kW HH=99.5m	GREP
T16	594352	4749960	Siemens SWT 2221-101 RD=101m RP=2, 221kW HH=99.5m	GREP
T17	598648	4747922	Siemens SWT 2221-101 RD=101m RP=2, 221kW HH=99.5m	GREP
T18	587941	4753452	Siemens SWT 2221-101 RD=101m RP=2, 221kW HH=99.5m	GREP
T19	606366	4749368	Siemens SWT 2221-101 RD=101m RP=2, 221kW HH=99.5m	GREP
T20	592573	4749463	Siemens SWT 2221-101 RD=101m RP=2, 221kW HH=99.5m	GREP
T21	602692	4746290	Siemens SWT 2221-101 RD=101m RP=2, 221kW HH=99.5m	GREP
T22	601756	4751401	Siemens SWT 2221-101 RD=101m RP=2, 221kW HH=99.5m	GREP
T23	591178	4751634	Siemens SWT 2221-101 RD=101m RP=2, 221kW HH=99.5m	GREP
T24	592280	4749799	Siemens SWT 2221-101 RD=101m RP=2, 221kW HH=99.5m	GREP
T25	599133	4750265	Siemens SWT 2221-101 RD=101m RP=2, 221kW HH=99.5m	GREP
T26	607589	4749481	Siemens SWT 2221-101 RD=101m RP=2, 221kW HH=99.5m	GREP
T27	598999	4748313	Siemens SWT 2221-101 RD=101m RP=2, 221kW HH=99.5m	GREP
T28	591339	4752273	Siemens SWT 2221-101 RD=101m RP=2, 221kW HH=99.5m	GREP
T29	599967	4750467	Siemens SWT 2221-101 RD=101m RP=2, 221kW HH=99.5m	GREP
T30	606959	4749603	Siemens SWT 2221-101 RD=101m RP=2, 221kW HH=99.5m	GREP
T33	589588	4755581	Siemens SWT 2221-101 RD=101m RP=2, 221kW HH=99.5m	GREP
T34	589790	4753921	Siemens SWT 2221-101 RD=101m RP=2, 221kW HH=99.5m	GREP
T35	602880	4749652	Siemens SWT 2221-101 RD=101m RP=2, 221kW HH=99.5m	GREP
T36	590002	4755767	Siemens SWT 2221-101 RD=101m RP=2, 221kW HH=99.5m	GREP
T37	602481	4749039	Siemens SWT 2221-101 RD=101m RP=2, 221kW HH=99.5m	GREP
T38	602608	4749469	Siemens SWT 2221-101 RD=101m RP=2, 221kW HH=99.5m	GREP
T39	603875	4749401	Siemens SWT 2221-101 RD=101m RP=2, 221kW HH=99.5m	GREP
T40	604239	4749614	Siemens SWT 2221-101 RD=101m RP=2, 221kW HH=99.5m	GREP
T41	590395	4753879	Siemens SWT 2221-101 RD=101m RP=2, 221kW HH=99.5m	GREP
T42	600381	4750377	Siemens SWT 2221-101 RD=101m RP=2, 221kW HH=99.5m	GREP
T43	588466	4752970	Siemens SWT 2221-101 RD=101m RP=2, 221kW HH=99.5m	GREP
T44	599489	4748483	Siemens SWT 2221-101 RD=101m RP=2, 221kW HH=99.5m	GREP
T45	590085	4753880	Siemens SWT 2221-101 RD=101m RP=2, 221kW HH=99.5m	GREP
T46	590582	4751836	Siemens SWT 2221-101 RD=101m RP=2, 221kW HH=99.5m	GREP

T47	604740	4750499	Siemens SWT	2221-101	RD=101m	RP=2, 221kW	HH=99.5m	GREP
T48	594126	4750504	Siemens SWT	2221-101	RD=101m	RP=2, 221kW	HH=99.5m	GREP
T49	608750	4749784	Siemens SWT	2221-101	RD=101m	RP=2, 221kW	HH=99.5m	GREP
T50	609091	4749844	Siemens SWT	2221-101	RD=101m	RP=2, 221kW	HH=99.5m	GREP
T51	601762	4745085	Siemens SWT	2221-101	RD=101m	RP=2, 221kW	HH=99.5m	GREP
T52	599708	4748016	Siemens SWT	2221-101	RD=101m	RP=2, 221kW	HH=99.5m	GREP
T53	600301	4748359	Siemens SWT	2221-101	RD=101m	RP=2, 221kW	HH=99.5m	GREP
T54	607370	4746400	Siemens SWT	2221-101	RD=101m	RP=2, 221kW	HH=99.5m	GREP
T55	600136	4746677	Siemens SWT	2221-101	RD=101m	RP=2, 221kW	HH=99.5m	GREP
T56	598675	4750335	Siemens SWT	2221-101	RD=101m	RP=2, 221kW	HH=99.5m	GREP
T57	606650	4751283	Siemens SWT	2221-101	RD=101m	RP=2, 221kW	HH=99.5m	GREP
T58	589733	4750362	Siemens SWT	2126-101	RD=101m	RP=2, 126kW	HH=99.5m	GREP
T59	614355	4748118	Siemens SWT	2221-101	RD=101m	RP=2, 221kW	HH=99.5m	GREP
T60	614974	4747470	Siemens SWT	2221-101	RD=101m	RP=2, 221kW	HH=99.5m	GREP
T61	614326	4747732	Siemens SWT	2221-101	RD=101m	RP=2, 221kW	HH=99.5m	GREP
T62	614680	4748176	Siemens SWT	2221-101	RD=101m	RP=2, 221kW	HH=99.5m	GREP
T63	614750	4747811	Siemens SWT	2221-101	RD=101m	RP=2, 221kW	HH=99.5m	GREP
T64	614705	4747338	Siemens SWT	2221-101	RD=101m	RP=2, 221kW	HH=99.5m	GREP
T65	611480	4747403	Siemens SWT	2221-101	RD=101m	RP=2, 221kW	HH=99.5m	GREP
T66	611758	4747387	Siemens SWT	2221-101	RD=101m	RP=2, 221kW	HH=99.5m	GREP
T67	612236	4747633	Siemens SWT	2221-101	RD=101m	RP=2, 221kW	HH=99.5m	GREP
T68	602131	4748909	Siemens SWT	2221-101	RD=101m	RP=2, 221kW	HH=99.5m	GREP
T69	606923	4747368	Siemens SWT	2221-101	RD=101m	RP=2, 221kW	HH=99.5m	GREP
T209	586015	4749711	Siemens SWT	2221-101	RD=101m	RP=2, 221kW	HH=80.0m	NextEra Summerhaven
T210	586837	4749912	Siemens SWT	2221-101	RD=101m	RP=2, 221kW	HH=80.0m	NextEra Summerhaven
T211	587326	4751141	Siemens SWT	2221-101	RD=101m	RP=2, 221kW	HH=80.0m	NextEra Summerhaven
T218	588422	4748589	Siemens SWT	2221-101	RD=101m	RP=2, 221kW	HH=80.0m	NextEra Summerhaven
T219	590644	4749342	Siemens SWT	2221-101	RD=101m	RP=2, 221kW	HH=80.0m	NextEra Summerhaven
T228	591259	4748123	Siemens SWT	2221-101	RD=101m	RP=2, 221kW	HH=80.0m	NextEra Summerhaven
T232	590737	4746531	Siemens SWT	2221-101	RD=101m	RP=2, 221kW	HH=80.0m	NextEra Summerhaven
T233	594906	4747489	Siemens SWT	2221-101	RD=101m	RP=2, 221kW	HH=80.0m	NextEra Summerhaven
T240	592721	4744952	Siemens SWT	2221-101	RD=101m	RP=2, 221kW	HH=80.0m	NextEra Summerhaven
T241	593224	4745318	Siemens SWT	2221-101	RD=101m	RP=2, 221kW	HH=80.0m	NextEra Summerhaven
T242	593522	4745702	Siemens SWT	2221-101	RD=101m	RP=2, 221kW	HH=80.0m	NextEra Summerhaven
T243	594899	4745794	Siemens SWT	2221-101	RD=101m	RP=2, 221kW	HH=80.0m	NextEra Summerhaven
T244	596210	4746279	Siemens SWT	2221-101	RD=101m	RP=2, 221kW	HH=80.0m	NextEra Summerhaven
T245	596181	4745775	Siemens SWT	2221-101	RD=101m	RP=2, 221kW	HH=80.0m	NextEra Summerhaven
T246	597119	4745943	Siemens SWT	2221-101	RD=101m	RP=2, 221kW	HH=80.0m	NextEra Summerhaven
T247	597181	4746416	Siemens SWT	2221-101	RD=101m	RP=2, 221kW	HH=80.0m	NextEra Summerhaven
T255	596817	4743995	Siemens SWT	2221-101	RD=101m	RP=2, 221kW	HH=80.0m	NextEra Summerhaven
T256	597076	4743766	Siemens SWT	2221-101	RD=101m	RP=2, 221kW	HH=80.0m	NextEra Summerhaven

9.2 Receptor locations

Note that in the list below, for economy, only receptors that are determined by the ReSoft WindFarm Shadow Flicker calculation module to exhibit non-zero shadow flicker amounts have been listed.

Datum: NAD83 (Canada) Projection: UTM 17N

Receptor ID	Easting (m)	Northing (m)
35	587107	4753766
37	587384	4753814
38	587323	4753794
53	588903	4754152
54	588886	4754256
55	588871	4754295
60	588963	4754405
119	589019	4753583
120	589174	4753402
121	589129	4753224
122	589129	4753079
139	589898	4752396
141	590557	4752645

142	590818	4752693
147	591985	4752772
148	592104	4752624
150	592321	4752454
152	592307	4752025
174	592959	4750356
175	593206	4749595
182	591946	4748752
243	588886	4750247
244	588931	4750382
245	588913	4750503
246	588806	4750568
248	588189	4750742
254	589943	4749728
255	590130	4749836
256	590549	4749963
272	589961	4751604
282	591963	4751192
290	594993	4752081
291	595129	4752091
292	595257	4751952
293	595180	4751869
294	595356	4751931
295	595233	4751783
296	595312	4751801
297	595418	4751879
300	595388	4751690
305	594821	4748722
336	601010	4751539
337	601265	4751811
340	602390	4751809
341	602498	4751933
342	602509	4751807
353	594609	4751028
354	594938	4750947
359	595088	4750040
360	595216	4749628
392	598327	4749796
393	598184	4749987
394	597860	4750701
395	597996	4750732
399	599457	4746582
402	599410	4745181
403	599512	4744986
406	593184	4748779
407	593146	4748642
408	593334	4748307
409	593350	4748255
473	597647	4746539
474	597791	4746302
503	601337	4748589
504	601320	4748421
512	601959	4746592
513	602042	4746596
515	601962	4746506
516	602395	4745144
517	602617	4744883
518	602615	4744865
519	602547	4744797

524	604317	4747310
525	604363	4747368
527	604311	4747481
528	604043	4747485
529	604185	4747518
530	604187	4747613
531	604135	4747760
532	604106	4747879
533	604196	4747866
534	604223	4747770
535	604253	4747699
536	604201	4747571
537	604268	4747645
540	603293	4750455
541	603164	4750588
562	594083	4747899
564	594306	4747888
566	594782	4747998
595	601044	4750101
676	599597	4747189
679	600535	4747587
683	600910	4747598
693	604687	4749039
694	604785	4749203
710	604390	4747501
711	604219	4747455
712	604126	4747408
713	604036	4747357
714	603986	4747326
717	603931	4747302
730	602148	4746712
731	602164	4746635
732	602109	4746616
733	601884	4746626
734	601880	4746566
740	600942	4746249
833	605343	4750757
834	605575	4750473
835	605720	4750430
836	605696	4749991
837	605690	4749662
838	605703	4749620
842	605627	4747409
843	605704	4747241
846	605935	4746482
847	605775	4746233
868	608046	4750451
872	608178	4747161
887	607477	4751095
898	609524	4750414
904	609612	4750387
905	609654	4750388
906	609692	4750478
907	609720	4750473
908	609780	4750444
910	609777	4750312
911	609830	4750284
914	609991	4750273
970	613194	4747795

1007	609528	4749353
1031	612903	4747387
1054	611697	4748184
1055	611653	4748174
1062	610713	4748000
1072	610632	4747923
1073	610618	4747891
1075	610646	4747026
1076	610724	4747088
1223	602438	4744752
1224	602483	4744783
1225	602514	4744802
1226	602668	4744863
1227	602729	4744960
1238	603322	4745521
1239	603387	4745554
1240	603454	4745613
1241	603574	4745600
1242	603655	4745715
1260	605865	4746245
1264	606405	4746198
1265	606410	4746292
1266	606477	4746175
1275	602403	4744730
1277	602591	4744824
1291	604283	4747531
1292	604071	4747354
1293	604013	4747337
1296	602136	4746629
1297	602077	4746608
1299	600884	4746644
1320	601254	4749900
1321	602258	4750261
1322	607521	4750401
1342	595363	4751782
1363	605436	4749676
1366	604172	4747645
1367	604214	4747808
1373	593234	4749040
1375	595224	4750337
2165	589246	4749008
2171	589275	4748942
2174	589285	4748910
2178	589333	4748774
2179	589339	4748971
2180	589344	4748739
2181	589355	4748720
2182	589358	4748694
2184	589368	4748673
2185	589378	4748630
2189	589384	4748605
2190	589399	4748570
2192	589405	4748537
2325	590382	4748486
2345	590752	4748564
2346	590855	4748513
2552	587708	4752727
2610	588746	4755190
2614	590790	4755825

2615	590763	4756039
2617	590733	4756216
2877	615297	4748729
2878	615337	4748686
2879	615393	4748706
2880	615299	4748591
2884	615606	4747479
2885	615610	4747398
2886	615621	4747295
2887	615643	4747237
2888	615774	4747076
2889	615656	4747090
2890	615529	4747019
2892	615464	4746917
2956	608109	4746658
2957	608357	4746426
3005	606662	4746033
3006	606613	4746055
3007	606553	4746136
3008	606535	4746146
3009	606506	4746153
3010	613716	4747311
3011	601417	4749222
3018	615756	4747640
3019	615777	4747519
3020	615852	4747405

10 Appendix B – SHADOW FLICKER STATISTICS AT RECEPTORS

The table below lists occurrences and amounts of shadow flicker at receptors. The amount listed for each receptor is for the window direction which was determined to receive the largest amount of shadow flicker. See Section 7.3.1 for a full description of the table fields.

Note that for brevity, where the **Days per year occurrence** and the **Astronomical maximum total hours per year** entries in the table were determined to be zero for all window directions, the receptor is omitted from the table.

Receptor ID	Window direction (degt)	Days per year possible occurrence	Astronomical maximum total hours per year	Corrected total hours per year
35	90.0	41	15.1	5.22
37	112.5	76	36.2	12.52
38	112.5	60	27.8	9.61
53	90.0	36	13.2	4.56
54	90.0	37	13.1	4.53
55	112.5	38	13.0	4.5
60	67.5	52	18.5	6.4
119	135.0	106	42.5	14.7
120	202.5	55	22.3	7.71
121	225.0	47	21.8	7.54
122	225.0	47	22.3	7.71
139	135.0	62	25.8	8.92
141	90.0	44	17.6	6.09
142	112.5	86	45.3	15.66
147	202.5	85	35.7	12.35
148	225.0	44	17.3	5.98
150	225.0	32	10.8	3.73
152	0.0	42	14.6	5.05
174	202.5	70	28.9	9.99
175	247.5	90	39.1	13.52
182	225.0	40	13.2	4.56
243	45.0	41	16.0	5.53
244	67.5	40	16.4	5.67
245	67.5	38	15.1	5.22
246	45.0	34	12.1	4.18
248	270.0	78	32.8	11.34
254	90.0	59	24.8	8.58

255	90.0	42	15.4	5.33
256	247.5	60	25.0	8.65
272	67.5	100	54.8	18.95
282	270.0	27	6.1	2.11
290	247.5	42	17.8	6.16
291	202.5	72	38.2	13.21
292	225.0	56	26.5	9.16
293	247.5	60	33.1	11.45
294	202.5	45	19.5	6.74
295	247.5	54	28.3	9.79
296	247.5	47	22.4	7.75
297	202.5	41	16.8	5.81
300	225.0	43	19.3	6.67
305	202.5	39	14.7	5.08
336	90.0	90	35.9	12.41
337	112.5	84	47.2	16.32
340	202.5	62	27.5	9.51
341	202.5	87	29.6	10.24
342	225.0	48	18.8	6.5
353	202.5	49	20.2	6.99
354	202.5	44	16.4	5.67
359	225.0	43	18.7	6.47
360	292.5	92	26.8	9.27
392	22.5	47	16.9	5.84
393	67.5	42	14.9	5.15
394	112.5	42	16.2	5.6
395	112.5	58	24.7	8.54
399	90.0	51	24.8	8.58
402	45.0	36	13.3	4.6
403	45.0	42	17.7	6.12
406	112.5	43	16.1	5.57
407	45.0	37	14.2	4.91
408	67.5	58	28.3	9.79
409	67.5	70	34.8	12.03
473	247.5	64	42.0	14.52
474	270.0	117	57.3	19.81
503	157.5	96	33.6	11.62
504	22.5	31	7.8	2.7
512	67.5	46	19.2	6.64
513	67.5	52	24.2	8.37
515	67.5	43	18.7	6.47
516	247.5	50	25.1	8.68
517	270.0	48	18.5	6.4
518	247.5	49	18.9	6.54
519	270.0	95	32.5	11.24
524	112.5	90	39.6	13.69
525	135.0	98	50.9	17.6
527	112.5	66	32.1	11.1
528	112.5	53	19.1	6.6
529	112.5	74	31.2	10.79
530	112.5	40	13.5	4.67
531	292.5	62	28.0	9.68
532	270.0	107	48.9	16.91
533	247.5	66	28.3	9.79
534	270.0	84	35.7	12.35
535	270.0	62	26.1	9.03
536	90.0	54	21.0	7.26
537	292.5	41	13.5	4.67
540	90.0	64	27.6	9.54

541	90.0	82	29.1	10.06
562	90.0	47	17.5	6.05
564	112.5	94	41.5	14.35
566	247.5	29	7.2	2.49
595	292.5	80	39.4	13.62
676	135.0	54	22.7	7.85
679	270.0	50	18.3	6.33
683	112.5	68	32.8	11.34
693	292.5	74	30.0	10.37
694	247.5	44	15.9	5.5
710	135.0	40	15.0	5.19
711	90.0	88	37.3	12.9
712	90.0	53	21.1	7.3
713	67.5	42	15.7	5.43
714	67.5	38	13.7	4.74
717	67.5	35	12.2	4.22
730	112.5	84	43.1	14.9
731	112.5	84	40.8	14.11
732	90.0	63	31.2	10.79
733	90.0	43	16.3	5.64
734	45.0	40	15.6	5.39
740	270.0	46	16.3	5.64
833	225.0	51	25.5	8.82
834	225.0	41	15.8	5.46
835	0.0	35	11.9	4.12
836	90.0	40	13.6	4.7
837	90.0	50	22.0	7.61
838	90.0	49	22.3	7.71
842	157.5	83	31.2	10.79
843	157.5	101	39.5	13.66
846	225.0	42	15.5	5.36
847	292.5	22	4.4	1.52
868	45.0	28	7.0	2.42
872	270.0	92	34.4	11.9
887	247.5	48	19.3	6.67
898	225.0	66	24.6	8.51
904	202.5	49	19.9	6.88
905	225.0	59	25.3	8.75
906	180.0	29	7.9	2.73
907	225.0	41	13.6	4.7
908	180.0	63	24.7	8.54
910	225.0	65	26.1	9.03
911	225.0	52	20.2	6.99
914	247.5	40	13.3	4.6
970	225.0	34	11.4	3.94
1007	270.0	37	11.1	3.84
1031	270.0	94	44.0	15.22
1054	225.0	34	10.9	3.77
1055	90.0	50	19.5	6.74
1062	112.5	64	24.1	8.33
1072	90.0	56	19.4	6.71
1073	112.5	48	17.0	5.88
1075	67.5	84	35.2	12.17
1076	67.5	92	40.4	13.97
1223	270.0	56	23.4	8.09
1224	292.5	80	35.8	12.38
1225	292.5	92	36.2	12.52
1226	247.5	46	16.6	5.74
1227	247.5	38	12.8	4.43

1238	292.5	58	27.7	9.58
1239	292.5	91	46.8	16.18
1240	292.5	64	29.6	10.24
1241	270.0	50	20.2	6.99
1242	247.5	40	14.3	4.94
1260	247.5	60	22.6	7.82
1264	45.0	38	13.3	4.6
1265	45.0	35	12.4	4.29
1266	22.5	44	16.3	5.64
1275	292.5	28	7.3	2.52
1277	270.0	61	21.9	7.57
1291	90.0	54	22.0	7.61
1292	90.0	45	17.0	5.88
1293	67.5	40	14.7	5.08
1296	90.0	70	35.9	12.41
1297	112.5	58	27.6	9.54
1299	270.0	46	19.7	6.81
1320	247.5	39	11.7	4.05
1321	90.0	38	13.2	4.56
1322	90.0	54	20.5	7.09
1342	225.0	43	19.6	6.78
1363	67.5	35	12.2	4.22
1366	45.0	28	7.3	2.52
1367	292.5	97	35.6	12.31
1373	90.0	62	23.5	8.13
1375	225.0	39	13.7	4.74
2165	225.0	44	16.5	5.71
2171	180.0	40	14.6	5.05
2174	202.5	40	14.1	4.88
2178	247.5	36	12.6	4.36
2179	180.0	37	12.8	4.43
2180	225.0	35	12.3	4.25
2181	247.5	34	12.1	4.18
2182	270.0	34	12.1	4.18
2184	225.0	34	11.9	4.12
2185	202.5	35	11.8	4.08
2189	202.5	34	11.7	4.05
2190	247.5	34	11.6	4.01
2192	0.0	34	11.6	4.01
2325	90.0	41	14.6	5.05
2345	135.0	64	32.7	11.31
2346	135.0	66	38.9	13.45
2552	45.0	62	26.1	9.03
2610	45.0	79	33.9	11.72
2614	225.0	40	16.7	5.77
2615	225.0	42	17.0	5.88
2617	225.0	54	20.9	7.23
2877	202.5	66	28.4	9.82
2878	202.5	83	34.7	12
2879	225.0	85	32.9	11.38
2880	225.0	66	29.5	10.2
2884	292.5	174	67.4	23.31
2885	270.0	158	68.1	23.55
2886	292.5	112	50.2	17.36
2887	225.0	137	57.9	20.02
2888	292.5	58	23.8	8.23
2889	292.5	70	21.5	7.43
2890	292.5	90	30.5	10.55
2892	247.5	32	8.9	3.08

2956	225.0	86	35.8	12.38
2957	202.5	33	11.2	3.87
3005	45.0	58	26.7	9.23
3006	45.0	78	37.7	13.04
3007	45.0	56	22.5	7.78
3008	45.0	53	20.5	7.09
3009	22.5	49	18.4	6.36
3010	45.0	32	11.2	3.87
3011	90.0	47	20.0	6.92
3018	225.0	40	16.3	5.64
3019	247.5	40	16.3	5.64
3020	225.0	40	14.8	5.12

END