

Appendix C

Agency and Other Stakeholder Consultation Records

Subject: FW: mapping of project study area for North Kent Wind Project
Attachments: Project Study Area_20150414.pdf

From: Rose, Marc
Sent: Tuesday, April 14, 2015 10:14 PM
To: Dallas Cundick (dcundick@scrca.on.ca)
Cc: Ariel Bautista (ariel.bautista@samsungrenewableenergy.ca); Beatrice Ashby (b.ashby@samsung.com); Jody Law; Grieve, Becky; Van der Woerd, Mark
Subject: mapping of project study area for North Kent Wind Project

Hi Dallas,

Thanks again for agreeing to meet with Samsung, Pattern, and AECOM on Thursday regarding the North Kent Wind Project. As discussed, I've attached a map showing the proposed project study area in the context of the Conservation Authority jurisdiction. We'll send you a shapefile of the project study area boundary tomorrow so you can confirm that we have the correct regulation limit shown on our map.

Would it be possible to start our meeting at 1:30, as we now have a meeting set up with LTVCA at 11? We should be able to end our meeting by 2:30.

Here's a proposed agenda for the meeting:

- 1) Introductions (AECOM, Samsung / Pattern)
- 2) Overview of the project (AECOM, Samsung / Pattern)
- 3) Schedule for the project and for permitting activities (AECOM, Samsung / Pattern)
- 4) Overview of permitting process (SCRCA)
- 5) Areas of concern due to flood risk (SCRCA)
- 6) Process to obtain SCRCA floodplain data (SCRCA)

We look forward to seeing you on Thursday.
Marc

Marc Rose, MES, MCIP, RPP
Senior Environmental Planner
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Subject: FW: meeting to discuss Samsung and Pattern's North Kent Wind Project
Attachments: NKW_StudyArea_20150413.zip

From: Rose, Marc
Sent: Wednesday, April 15, 2015 11:27 AM
To: Jessica Schnaithmann
Cc: Ariel Bautista (ariel.bautista@samsungrenewableenergy.ca); Beatrice Ashby (b.ashby@samsung.com); Jody Law; Grieve, Becky; Van der Woerd, Mark
Subject: RE: meeting to discuss Samsung and Pattern's North Kent Wind Project

Hi Jessica,

Thanks for speaking with me this morning. As discussed, attached are the shapefiles showing the project study area.

See you tomorrow.
Marc

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From: Rose, Marc
Sent: April-14-15 9:59 PM
To: 'Jessica Schnaithmann'
Cc: Ariel Bautista (ariel.bautista@samsungrenewableenergy.ca); Beatrice Ashby (b.ashby@samsung.com); Jody Law; Grieve, Becky; Van der Woerd, Mark (Mark.VanderWoerd@aecom.com)
Subject: RE: meeting to discuss Samsung and Pattern's North Kent Wind Project

Hi Jessica,

Thanks for the e-mail. I've attached a map showing the proposed project study area for the North Kent Wind Project and the various CA boundaries. As you can see, the south end of the study area is within LTVCA jurisdiction.

I'll send an appointment for 11 am on Thursday. Three of us will be attending from AECOM, and at least one person from Samsung will also attend. We look forward to meeting you on Thursday.

Sincerely,
Marc

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From: Jessica Schnaithmann [<mailto:Jessica.Schnaithmann@ltvca.ca>]
Sent: April-14-15 10:26 AM
To: Rose, Marc
Subject: RE: meeting to discuss Samsung and Pattern's North Kent Wind Project

Hi Marc,

My apologies for the delay in a response. Would you be able to forward me the proposed site locations so that I can confirm that it will be within the LTVCA watershed? Once this is confirmed, I would be available Thursday at 11 am if you would like a preliminary discussion regarding the LTVCA permitting process.

Thank you,

Jessica

From: Rose, Marc [<mailto:Marc.Rose@aecom.com>]
Sent: Monday, April 13, 2015 1:28 PM
To: Jessica Schnaithmann
Subject: meeting to discuss Samsung and Pattern's North Kent Wind Project

Hi Jessica,

As a followup to my voicemail from last week, I wanted to find a date and time to meet with you to discuss Samsung and Pattern's North Kent Wind Project and Lower Thames' permitting requirements. Our team will be meeting with SCRCA at 1 pm on Thursday. Would you happen to be available on Thursday at 11 am? If not, can you suggest some other dates and times that work?

I look forward to hearing from you.
Marc

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From: [Nyssa Clubine](#)
To: dave.balint@dfo-mpo.gc.ca
Cc: [Pamela Hammer](#)
Subject: Species at Risk Information Request - Chatham-Kent Area (proj1612)
Date: Friday, April 17, 2015 11:59:08 AM
Attachments: [Signature_NJC_TB.jpg](#)
[NRSI_1612_North_Kent_WP_General_Project_Area_2015_04_07.docx](#)

Good Morning Dave,

Natural Resource Solutions Inc. has been retained to conduct a Natural Heritage Assessment and Water Body Assessment and Report for the North Kent Wind Project, which is proposed in the Municipality of Chatham-Kent. A review of the DFO Species at Risk (SAR) Distribution mapping indicates that several SAR are present, or may be present within the study area.

In order for us to accurately address the habitat requirements and critical habitat areas for these species, it would be helpful for us to know which species are present within the study area. Attached is a map showing the general project area boundary. According to the SAR Distribution mapping the following species may be present within the study area:

Extirpated, Endangered, Threatened

Channel Darter
Eastern Sand Darter
Lake Chubsucker
Northern Madtom
Pugnose Shiner

Special Concern

Grass Pickerel
Northern Brook Lamprey (Great Lakes/Upper St. Lawrence) River Redhorse
Silver Chub (Great Lakes/Upper St. Lawrence)
Silver Lamprey
Spotted Sucker

We have also already contacted the MNRF, the St. Clair Region Conservation Authority and the Lower Thames Valley Conservation Authority directly, as well as several online and published resources, such as NHIC and LIO, for any information that they can provide as well. Any guidance or information you can give regarding the above listed species in this area would be greatly appreciated.

I have also included some text below that summarizes the project details. Please let me know if you need any further details at this point.

Thank you,
Nyssa

The North Kent Wind Project is being proposed by North Kent Wind 1 LP, by its general partner, North Kent Wind 1 GP Inc. (North Kent Wind). North Kent Wind is a joint venture limited partnership owned by affiliates of Pattern Renewable Holdings Canada, ULC (Pattern Development) and Samsung Renewable Energy, Inc. (Samsung Renewable Energy). North Kent Wind is proposing to develop a wind project in the Municipality of Chatham-Kent, Ontario. The Project will be located north of the community of Chatham, and is generally bounded by Oldfield Line to the north, Bear Line Road to the west, Pioneer Line and Pine Line / Darrell Line to the south and Centre Sideroad and Caledonia Road to the east. The Project will be located primarily on privately owned land with some components (e.g., electrical collector lines) being placed along public right-of-ways, none of which are proposed on provincial Crown land. Up to 50 wind turbine locations are proposed, with a project nameplate capacity of up to 100 MW.

--

Subject: FW: North Kent Wind Project - Request for Aboriginal Consultation List

From: Connolly, Gemma (MOECC) [<mailto:Gemma.Connolly@ontario.ca>]
Sent: Monday, April 20, 2015 8:07 AM
To: Van der Woerd, Mark
Subject: RE: North Kent Wind Project - Request for Aboriginal Consultation List

Thanks Mark – We received and will start to prepare the section 14 list. Have a good day.

From: Van der Woerd, Mark [<mailto:Mark.VanderWoerd@aecom.com>]
Sent: April-17-15 5:07 PM
To: Connolly, Gemma (MOECC)
Cc: b.ashby@samsung.com; Jody Law; ariel.bautista@samsungrenewableenergy.ca; Rose, Marc; Grieve, Becky
Subject: North Kent Wind Project - Request for Aboriginal Consultation List
Importance: High

Hi Gemma,

It was a pleasure speaking with you this week, thank you for taking my call. As we discussed, AECOM is working on a new wind project – the North Kent Wind Project – located in the Municipality of Chatham-Kent north of the City of Chatham and east of Lake St. Clair. The Project is being proposed by North Kent Wind 1 LP, by its general partner, North Kent Wind 1 GP Inc. (“North Kent Wind”) which is a joint venture limited partnership owned by affiliates of Pattern Renewable Holdings Canada ULC (“Pattern Development”) and Samsung Renewable Energy Inc. (“Samsung Renewable Energy”). The Project is being proposed under Samsung Renewable Energy's Green Energy Investment Agreement with the Provincial government.

As requested, attached to this email is a PDF copy of our Draft Project Description Report (PDR). We have submitted hard copies of this report to the Ministry of the Environment and Climate Change (MOECC) on Thursday April 16, 2015 to both the Windsor area office as well as the Environmental Approvals Branch. As we discussed, it is our goal to obtain MOECC's Aboriginal Consultation List for the Project as soon as possible so that we can begin Aboriginal consultation early in the planning process. We anticipate hosting our first public meeting for the Project late spring/summer of 2015.

If you have any questions or would like to discuss the Project further, please do not hesitate to contact me at any point.

Have a great weekend,
Mark

Mark van der Woerd
Senior Consultant, Planning & Community Engagement
Impact Assessment and Permitting Practice - Environment
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From: [Van der Woerd, Mark](#)
To: [Romic, Zeljko \(MOECC\)](#)
Cc: "[BautistaAriel](#)" (ariel.b@samsung.com); [Beatrice Ashby \(b.ashby@samsung.com\)](#) (b.ashby@samsung.com) (b.ashby@samsung.com); [Berlin, Hayley \(MOECC\)](#); [Jody Law \(jody.law@patternenergy.com\)](#); [Grieve, Becky](#)
Subject: RE: REA checklist and list of considerations
Date: Thursday, April 30, 2015 3:53:00 PM

Hi Zeljko,

Thank you for passing along this information, and for taking the time to meet with us yesterday. We appreciated the opportunity to discuss the project and gain further insight into your 'key considerations'. If any questions arise, we will ensure to give you a call.

All the best with the office move!

Regards,
Mark

Mark van der Woerd

Senior Consultant, Planning & Community Engagement

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From: Romic, Zeljko (MOECC) [<mailto:Zeljko.Romic@ontario.ca>]
Sent: Wednesday, April 29, 2015 11:26 AM
To: Van der Woerd, Mark; Grieve, Becky
Cc: 'BautistaAriel' (ariel.b@samsung.com); [Beatrice Ashby \(b.ashby@samsung.com\)](#) (b.ashby@samsung.com) (b.ashby@samsung.com); [Berlin, Hayley \(MOECC\)](#); [Jody Law \(jody.law@patternenergy.com\)](#)
Subject: REA checklist and list of considerations

Hi Becky/Mark,

As mentioned at our meeting earlier today, here is the REA requirements checklist that we recommend all proponents consult before submitting their REA applications:

<http://www.forms.ssb.gov.on.ca/mbs/ssb/forms/ssbforms.nsf/FormDetail?OpenForm&ACT=RDR&TAB=PROFILE&SRCH=&ENV=WWE&TIT=7746&NO=7746E>

In addition, I've also attached a list of key considerations that we also shared and discussed at the meeting, to assist you with putting together your REA application and supporting documentation.

Should you have any other questions along the way, feel free to send them my way.

Thanks,

Zeljko Romic | Senior Program Support Coordinator | Service Integration | Environmental Approvals Access and Service Integration Branch | **Ministry of the Environment and Climate Change**
2 St. Clair Ave W. 12a Floor Toronto, Ontario, M4V 1L5 | Phone: 416-314-8204 | zeljko.romic@ontario.ca

RENEWABLE ENERGY APPROVAL (REA)

KEY ITEMS/TOPIC AREAS THAT THE MINISTRY OF THE ENVIRONMENT AND CLIMATE CHANGE (MOECC) HAS BEEN REQUESTING MORE DETAILS/INFORMATION ON DURING PRELIMINARY SCREENINGS AND TECHNICAL REVIEWS

It is highly recommended that applicants read and be familiar with the 2013 version of the Technical Guide to Renewable Energy Approvals. It has been updated from the 2011 version to provide details on additional information that the MOECC may require as part of a REA application.

The following is a list of topic areas of which the MOECC has been asking proponents of renewable energy projects for more information on in their REA applications. These are applicable to both wind and solar projects. This list is not exhaustive, and as every project is different, it is difficult to predict in advance what further information the ministry may request during a preliminary screening or technical review. As a start, it is highly recommended that a REA provide details/information on these topics.

Air/Noise

- Provide approximate distances to educational facilities.
- Provide approximate distances to day nurseries.
- Provide approximate distances to health care facilities.
- Provide approximate distances to outdoor recreational facilities, such as walking/hiking trails, ski hills, etc.
- Provide approximate distances to places of worship.
- Provide approximate distances to any other institutional facilities.
- Provide excel tables of CADna files with the REA application submission.

Water

- Provide more details and/or assessment if your proposed project is located on/within the Oak Ridges Moraine.
- Provide more details and/or assessment if your proposed project is located on/within an aquifer or highly vulnerable aquifer.
- Provide more details and/or assessment if your proposed project is located on/within a provincially significant wetland(s).
- Provide more details and/or assessment if your proposed project is located on/within a drinking water source(s) (surface and sub-surface).
- Provide more details and/or assessment if your proposed project is located on/within a vulnerable area(s) per the local Source Water Protection Plan.
- Ensure you read and fully understand the details in Chapter 8 of the Technical Guide to Renewable Energy Approvals with respect to completing the Waterbodies report.
- Solar projects should prepare and submit a Stormwater Management Plan. Wind project may want to seriously consider preparing and submitting a Stormwater Management Plan.
- Solar projects should prepare and submit a pre and post-construction groundwater monitoring plan.

Visual

- More details/assessment if the proposed project is within the viewscape of the Niagara Escarpment. Please also ensure that you consult with the Niagara Escarpment Commission and provide the details of consultation in your Consultation Report.
- More details/assessment if the proposed project is located within the viewscape of a cultural heritage site(s).

Environmental

- If the proposed project has any required authorizations related to the *Endangered Species Act, 2007*, it is highly recommended that the authorizations are in place prior to issuance of a REA.
- If there are any authorizations related to the *Endangered Species Act, 2007*, please provide details regarding the potentially impacted specie(s).
- More details/assessment if the project is located within or in proximity to known migratory bird flight path(s).
- More details/assessment if the proposed project is located within or in proximity to an Important Bird Area(s).
- More details/assessment if the proposed project is located near another built or proposed renewable energy project(s). Provide details on type of renewable project(s) (e.g. wind, solar, etc.), status (e.g. proposed, operational, etc.) and how many.
- More details/assessment if the proposed project is located near another energy project(s) or industrial works. Provide details on what kind of project(s) (e.g. natural gas power generation facility, etc.), status (e.g. proposed, operational, etc.) and how many?

Safety

- Provide setback distances from project infrastructure to residential building(s), institutional building(s), commercial building(s), road(s)/highway(s), rail lines, etc.
- Provide more detail/assessment if the proposed project is located near an aerodrome. Specify approximate distance(s) and indicate if the facility is linked to any recreational or similar type activities (e.g. skydiving) and status (e.g. certified or registered). Please provide all correspondence between the company and the aerodrome operator, and between the company and NAV Canada and Transport Canada.
- Provide more detail/assessment if the proposed project is located near an Environment Canada weather radar tower(s), telecommunications tower(s) or aviation radar tower(s). If it is, specify approximate distance(s). Provide all correspondence with the relevant review agency with respect to potential impacts on the tower.
- Provide more detail/assessment if the proposed project is located near a 500 kV transmission line. Specify approximate distances.
- Provide more detail/assessment if the proposed project is located near any petroleum wells or facilities. Specify approximate distances and provide an update on whether an Engineer's Report has been submitted to the Ministry of Natural Resources and Forestry.
- Provide more detail/assessment if the proposed project is located near any gas wells or facilities. Specify approximate distances.
- Provide more detail/assessment if the proposed project is located near any known contaminated areas. Specify approximate distances.

Consultation

- As part of your REA application submission, provide the ministry with all correspondence between the company and the Aboriginal communities on the Section 14 list for the project (this can be provided on a separate CD).
- As part of your REA application submission, provide the ministry with all correspondence between the company and the local municipalities for the project (this can be provided on a separate CD).
- As part of your REA application submission, provide the ministry with all correspondence between the company and the Ministry of Natural Resources and Forestry, and between the company and the Ministry of Tourism, Culture and Sport (this can be provided on a separate CD).

Subject: FW: ENTERED INTO REGISTER: Archaeological Report for P457-0006-2015 / *
Attachments: ENTERED INTO REGISTER Archaeological Report for P457-0006-2015.pdf

From: pastport [<mailto:pastport@ontario.ca>]
Sent: Tuesday, May 05, 2015 10:54 AM
To: lmeicenheimer@golder.com
Cc: zeljko.romic@ontario.ca; Grieve, Becky
Subject: ENTERED INTO REGISTER: Archaeological Report for P457-0006-2015 / *

Dear Lafe Meicenheimer,

The Original report for PIF P457-0006-2015, submitted by you as a condition of your licence, has been entered into the *Ontario Public Register of Archaeological Reports* without technical review. Please refer to the attached letter.

Note: the ministry makes no representation or warrant as to the completeness, accuracy or quality of reports in the register.

Development proponents and approval authorities: the Ontario Ministry of Tourism, Culture and Sport has copied you on this email as you have been identified by the consultant archaeologist as either the proponent or approval authority for this project.

Please **do not** reply to this e-mail. The message will be undeliverable and we are unable to respond from this address.

If you have any questions about this report email us at: ArchaeologyReports@ontario.ca

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Ministry of Tourism, Culture and Sport

Archaeology Programs Unit
Programs and Services Branch
Culture Division
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Ministère du Tourisme, de la Culture et du Sport

Unité des programmes d'archéologie
Direction des programmes et des services
Division de culture
401, rue Bay, bureau 1700
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ArchaeologyReports@ontario.ca



May 5, 2015

Lafe Meicenheimer (P457)
Golder Associates Ltd.
1 - 309 Exeter London ON N6L 1C1

RE: Entry into the Ontario Public Register of Archaeological Reports: Archaeological Assessment Report Entitled, "STAGE 1 ARCHAEOLOGICAL ASSESSMENT North Kent Wind Project Various Lots and Concessions Former Townships of Chatham and Dover, Historical County of Kent Now Municipality of Chatham-Kent, Ontario", Dated Apr 27, 2015, Filed with MTCS Toronto Office on N/A, MTCS Project Information Form Number P457-0006-2015

Dear Mr. Meicenheimer:

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 has been entered into the Ontario Public Register of Archaeological Reports without technical review¹.

Please note that the ministry makes no representation or warranty as to the completeness, accuracy or quality of reports in the register².

Should you require further information, please do not hesitate to send your inquiry to ArchaeologyReports@Ontario.ca.

cc. Archaeology Licensing Officer
Becky Grieve, AECOM
Zeljko Romic, Ministry of the Environment and Climate Change

¹This letter constitutes the Ministry of Tourism, Culture and Sport's written comments where required pursuant to section 22 of O. Reg. 359/09, as amended (Renewable Energy Approvals under the Environmental Protection Act), regarding the archaeological assessment undertaken for the above-captioned project. Depending on the study area and scope of work of the archaeological assessment as detailed in the report, further archaeological assessment reports may be required to complete the archaeological assessment for the project under O. Reg. 359/09. In that event Ministry comments pursuant to section 22 of O. Reg. 359/09 will be required for any such additional reports. This letter constitutes the Ministry of Tourism, Culture and Sport's written comments where required pursuant to section 22 of O. Reg. 359/09, as amended (Renewable Energy Approvals under the Environmental Protection Act), regarding the archaeological assessment undertaken for the above-captioned project. Depending on the study area and scope of work of the archaeological assessment as detailed in the report, further archaeological assessment reports may be required to complete the archaeological assessment for the project under O. Reg. 359/09. In that event Ministry comments pursuant to section 22 of O. Reg. 359/09 will be required for any such additional reports. 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.

²In 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

From: [Nyssa Clubine](#)
To: [Valerie Towsley](#)
Cc: [Pamela Hammer](#); [Kaitlin Boddaert](#); [Jessica Schnaithmann](#)
Subject: Re: North Kent WP; Background Information Request
Date: Tuesday, May 12, 2015 10:15:38 AM
Attachments: [Signature_NJC_TB.jpg](#)
[NRSI_1612_North_Kent_WP_General_Project_Area_2015_04_07.docx](#)

Good morning Valarie,

Thank you for the information you provided below.

We would like to request shapefiles of the watercourses/drains within the study area (see attached) and the LTVCA jurisdiction.

This will be used in our mapping, to show the locations of watercourse/drains, and where our aquatic habitat assessments were conducted.

Please let me know if there is a cost associated with this request, and if it is possible to receive this data.

If you have any questions or require further information, please let me know.

Regards,
Nyssa



On 17/04/2015 1:34 PM, Valerie Towsley wrote:

Hi Pamela

I've attached the Authority's regulated flagging area map for your information. Areas highlighted in red are subject to flooding, and/or setbacks are required from waterways/permits are needed for culvert crossing installations.

We do not have groundwater seepage/spring information, or flow/thermal regime information. The drain classification system is changing, so at this point treat all watercourses within this area at a minimum as a Class C system.

For all other information listed below, please contact the appropriate agency for this information (i.e. MNRF & DFO) as the CA does not retain records of spawning and/or SAR species locations. Please review MNRF's NRVIS site for ANSI information, but I do not believe there to be any ANSI's within the boundary of the project area within the LTVCA's jurisdiction. There are also no PSW's identified within the scope of the project area.

Please be advised that portions of the study area are located in an area with a Highly Vulnerable Aquifer [HVA] and a Significant Groundwater Recharge Area [SGRA] as identified through the Lower Thames Valley Assessment Report in the Thames, Sydenham and Region Source Protection Region. For further information regarding this matter and how it may affect any proposed development please refer to the Thames, Sydenham and Region Source Protection website at www.sourcewaterprotection.on.ca.

At the permit stage for installation of culverts, turbines and transfer stations, you will be dealing with Jessica Schnaithmann, Regulations and Planning Technician of this office. She can be reached at extension 225 or jessica.schnaithmann@ltvca.ca.

I trust this is satisfactory but if you should have any other questions, please contact the office.

Valerie Towsley
Resource Technician
Lower Thames Valley Conservation Authority
100 Thames Street
Chatham, Ontario
N7L 2Y8

Phone: 519-354-7310 Ext.: 226
Fax: 519-352-3435

E-mail: Valerie.Towsley@ltvca.ca

Web site: www.ltvca.ca



'Common sense and sense of humor are the same thing, moving at different speeds. A sense of humor is just common sense dancing.' William James (1842-1910)

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From: Pamela Hammer [<mailto:phammer@nrsl.on.ca>]
Sent: April-17-15 11:37 AM
To: Valerie Towsley
Cc: Nyssa Clubine; Andrew Ryckman
Subject: North Kent WP; Background Information Request

Good Morning Valerie,
Natural Resource Solutions Inc. has been retained to conduct a Natural Heritage Assessment and Water Body Assessment and Report for the North Kent Wind Project, which is proposed in the Municipality of Chatham-Kent. As a result, we would like to obtain any natural heritage or aquatic information from within the project area that the LTVCA may have. In particular, we are looking for any of the following types of information:

- Significant Natural Areas (ANSIs, PSWs, ESAs, etc.)
- Significant or Sensitive Species Records (aquatic and terrestrial)
- Hazardlands
- Fish/Mussel/Benthic Collection Records/Locations

- Watercourse Thermal Regimes, Drain Classifications
- Watercourse Flow Regimes
- Groundwater Seepage/Spring Information
- Other Fisheries Related Information (i.e. known spawning habitat)

We have also already contacted the MNR and St. Clair Region Conservation Authority directly, as well as several online and published resources, such as NHIC and LIO, for any information that they can provide as well.

Attached is a Word document containing a map showing the general project area boundary.

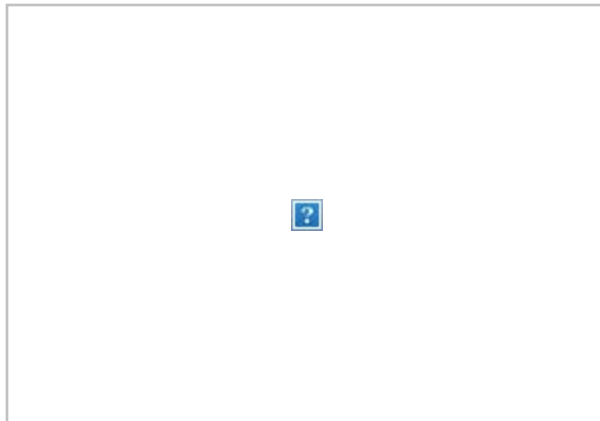
I have also included some text below that summarizes the project details. It would be greatly appreciated if you could please provide us with any available information. Please let me know if you need any further details at this point.

Thank you,

Pam

The North Kent Wind Project is being proposed by North Kent Wind 1 LP, by its general partner, North Kent Wind 1 GP Inc. (North Kent Wind). North Kent Wind is a joint venture limited partnership owned by affiliates of Pattern Renewable Holdings Canada, ULC (Pattern Development) and Samsung Renewable Energy, Inc. (Samsung Renewable Energy). North Kent Wind is proposing to develop a wind project in the Municipality of Chatham-Kent, Ontario. The Project will be located north of the community of Chatham, and is generally bounded by Oldfield Line to the north, Bear Line Road to the west, Pioneer Line and Pine Line / Darrell Line to the south and Centre Sideroad and Caledonia Road to the east. The Project will be located primarily on privately owned land with some components (e.g., electrical collector lines) being placed along public right-of-ways, none of which are proposed on provincial Crown land. Up to 50 wind turbine locations are proposed, with a project nameplate capacity of up to 100 MW.

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From: Nyssa Clubine <nclubine@nrsi.on.ca>
Sent: Tuesday, May 12, 2015 9:56 AM
To: cdurand@scrca.on.ca
Cc: ecarroll@scrca.on.ca; Pamela Hammer; Kaitlin Boddaert
Subject: North Kent WP; Background Information Request (proj1612)
Attachments: NRSI_1612_North Kent WP_General Project Area_2015_04_07.docx

Good morning Chris,
Thank you for your reply to our background information request.
We would like to request a watercourse / drain layer for the study area (see attached) for our mapping.
Please let me know if there is a cost associated with this request.

If you need any additional information please let me know.

Regards,
Nyssa



On 17/04/2015 1:55 PM, Pamela Hammer wrote:

FYI



----- Forwarded Message -----

Subject:FW: North Kent WP; Background Information Request

Date:Fri, 17 Apr 2015 17:56:12 +0000

From:Chris Durand <cdurand@scrca.on.ca>

To:phammer@nrsi.on.ca <phammer@nrsi.on.ca>

CC:Erin Carroll <ecarroll@scrca.on.ca>

Hi Pamela, given that you have already contacted MNRF directly, there is likely little additional information we can provide. I've cc'd our Aquatic Biologist, Erin Carroll, in order to confirm and offer any monitoring data that may be available. Our regulation mapping is available on www.camaps.ca.

Regards,

Chris Durand, IT / GIS Coordinator

St. Clair Region Conservation Authority
205 Mill Pond Cres., Strathroy, ON N7G 3P9
Tel.: [519-245-3710](tel:519-245-3710) Fax.: [519-245-3348](tel:519-245-3348)

Attention:

Privileged/Confidential Information may be contained in this message. Disclosure to any person other than the named recipient is unauthorized. If you are not the intended recipient, please delete all copies of this information and kindly notify the sender by reply email. Opinions, conclusions and other information in this message that do not relate to the official business of the SCRCA shall be understood as neither given nor endorsed by it. The SCRCA reserves the right to monitor all e-mail communications through its networks. Thank you.

From: Pamela Hammer [<mailto:phammer@nrsi.on.ca>]
Sent: April-17-15 11:31 AM
To: Patty Hayman
Cc: Muriel Andreae; Nyssa Clubine; Andrew Ryckman
Subject: North Kent WP; Background Information Request

Good Morning Patty,

Natural Resource Solutions Inc. has been retained to conduct a Natural Heritage Assessment and Water Body Assessment and Report for the North Kent Wind Project, which is proposed in the Municipality of Chatham-Kent. As a result, we would like to obtain any natural heritage or aquatic information from within the project area that the SCRCA may have. In particular, we are looking for any of the following types of information:

- Significant Natural Areas (ANSIs, PSWs, ESAs, etc.)
- Significant or Sensitive Species Records (aquatic and terrestrial)
- Hazardlands
- Fish/Mussel/Benthic Collection Records/Locations
- Watercourse Thermal Regimes, Drain Classifications
- Watercourse Flow Regimes
- Groundwater Seepage/Spring Information
- Other Fisheries Related Information (i.e. known spawning habitat)

We have also already contacted the MNRF directly, as well as several online and published resources, such as NHIC and LIO, for any information that they can provide as well. We will also be contacting the Lower Thames Valley Conservation Authority directly for any additional information.

Attached is a Word document containing a map showing the general project area boundary. I have also included some text below that summarizes the project details. It would be greatly appreciated if you could please provide us with any available information. Please let me know if you need any further details at this point.

Thank you,

Pam

The North Kent Wind Project is being proposed by North Kent Wind 1 LP, by its general partner, North Kent Wind 1 GP Inc. (North Kent Wind). North Kent Wind is a joint venture limited partnership owned by affiliates of Pattern Renewable Holdings Canada, ULC (Pattern Development) and Samsung Renewable Energy, Inc. (Samsung Renewable Energy). North Kent Wind is proposing to develop a wind project in the Municipality of Chatham-Kent, Ontario. The Project will be located north of the community of Chatham, and is generally bounded by Oldfield Line to the north, Bear Line Road to the west, Pioneer Line and Pine Line / Darrell Line to the south and Centre Sideroad and Caledonia Road to the east. The Project will be located primarily on privately owned land with some components (e.g., electrical collector lines) being placed along public right-of-ways, none of which are proposed on provincial Crown land. Up to 50 wind turbine locations are proposed, with a project nameplate capacity of up to 100 MW.

--



From: [Van der Woerd, Mark](#)
To: [Arciuch, John \(MOECC\)](#)
Cc: [Romic, Zeljko \(MOECC\)](#); b.ashby@samsung.com; [Jody Law](#); ariel.bautista@samsungrenewableenergy.ca; [Rose, Marc](#)
Subject: RE: Samsung proposed North Kent Wind Project - Request for Aboriginal Consultation List
Date: Monday, April 20, 2015 2:58:33 PM
Attachments: [RPT02_2015-04-15_Draft Project Description Report_60343599_us.pdf](#)

Hi John,

Thank you for your email. As requested, please find an unsecured PDF version of the Draft PDR attached to this email. Please let me know if there is anything else you need or if you have any questions.

Regards,
Mark

Mark van der Woerd
AECOM | mark.vanderwoerd@aecom.com
P: 905.390.2003 | C: 289.439.9803

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From: Arciuch, John (MOECC) [<mailto:John.Arciuch@ontario.ca>]
Sent: Monday, April 20, 2015 1:18 PM
To: Van der Woerd, Mark
Cc: Romic, Zeljko (MOECC)
Subject: FW: Samsung proposed North Kent Wind Project - Request for Aboriginal Consultation List

Hi Mark:

Could you please send this draft PDR to me in UNSECURED format. Or else in MS Word.

It helps in preparing the Aboriginal Consultation List if I can copy and paste a few items from your PDR. It is not possible to copy and paste from your SECURED version.

Thanks.

John Arciuch
Aboriginal Consultation Advisor
Ministry of Environment and Climate Change
416-326-9608

From: Van der Woerd, Mark [<mailto:Mark.VanderWoerd@aecom.com>]
Sent: April-17-15 5:07 PM
To: Connolly, Gemma (MOECC)
Cc: b.ashby@samsung.com; Jody Law; ariel.bautista@samsungrenewableenergy.ca; Rose, Marc; Grieve,

Becky

Subject: North Kent Wind Project - Request for Aboriginal Consultation List

Importance: High

Hi Gemma,

It was a pleasure speaking with you this week, thank you for taking my call. As we discussed, AECOM is working on a new wind project – the North Kent Wind Project – located in the Municipality of Chatham-Kent north of the City of Chatham and east of Lake St. Clair. The Project is being proposed by North Kent Wind 1 LP, by its general partner, North Kent Wind 1 GP Inc. (“North Kent Wind”) which is a joint venture limited partnership owned by affiliates of Pattern Renewable Holdings Canada ULC (“Pattern Development”) and Samsung Renewable Energy Inc. (“Samsung Renewable Energy”). The Project is being proposed under Samsung Renewable Energy's Green Energy Investment Agreement with the Provincial government.

As requested, attached to this email is a PDF copy of our Draft Project Description Report (PDR). We have submitted hard copies of this report to the Ministry of the Environment and Climate Change (MOECC) on Thursday April 16, 2015 to both the Windsor area office as well as the Environmental Approvals Branch. As we discussed, it is our goal to obtain MOECCs Aboriginal Consultation List for the Project as soon as possible so that we can begin Aboriginal consultation early in the planning process. We anticipate hosting our first public meeting for the Project late spring/summer of 2015.

If you have any questions or would like to discuss the Project further, please do not hesitate to contact me at any point.

Have a great weekend,

Mark

Mark van der Woerd

Senior Consultant, Planning & Community Engagement

Impact Assessment and Permitting Practice - Environment

AECOM | www.aecom.com

mark.vanderwoerd@aecom.com | P: 905.390.2003 | C: 289.439.9803

45 Goderich Road, Suite 201, Hamilton, ON L8E 4W8

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From: [Erin Thompson](#)
To: jon@bsc-eoc.org
Cc: [pamela Hammer](#)
Subject: North Kent Wind Project - Background Information Request
Date: Thursday, May 21, 2015 12:24:27 PM
Attachments: [Signature_ET_TB.JPG](#)
[NRSI_1612_NorthKent_StudyArea_2015_05_21.pdf](#)

Hello Jon,

NRSI has been retained to conduct a Natural Heritage Assessment for the North Kent Wind Project, which is proposed in the Municipality of Chatham-Kent. Please see the attached map showing the general project boundary.

At this point, NRSI is looking to collect available background information from this area of the province to help guide the monitoring effort, and would appreciate any information that may be available through Bird Studies Canada. Of particular interest to us would be:

- Potential concentration areas (i.e. waterfowl or shorebird staging)
- Raptor usage or nest information, particularly bald eagles
- Significant or sensitive species records
- Other known significant bird habitats that may exist

Please don't hesitate to let me know if you have any questions, or require any further information.

Thank you,

Erin

--



Subject: FW: North Kent Wind - sec 14 letter
Attachments: Sec 14 letter signed to proponents.pdf

From: Arciuch, John (MOECC) [<mailto:John.Arciuch@ontario.ca>]
Sent: Friday, May 22, 2015 1:50 PM
To: Van der Woerd, Mark
Subject: North Kent Wind - sec 14 letter

Hi Mark:

FYI, attached is the section 14 letter addressed to the proponents.

I will be sending hard copies to Ariel Bautista and Jody Law at their respective addresses.

Regards,

John Arciuch
MOECC
416-326-9608

Ministry of the Environment
and Climate Change

Ministère de l'Environnement et de
l'Action en matière de changement
climatique



Environmental Approvals
Access and Service
Integration Branch

Direction de l'accès aux
autorisations environnementales
et de l'intégration des services

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1st Floor
Toronto ON M4V 1P5
Tel.: 416 314-8001
Fax: 416 314-8452

135, avenue St. Clair Ouest
Rez-de-chaussée
Toronto ON M4V 1P5
Tél : 416 314-8001
Télééc. : 416 314-8452

May 15, 2015

Ms. Jody Law, Project Developer
Pattern Development
100 Simcoe Street
Toronto, ON
M5H 3G2

Dear Ms. Law:

RE: Notification of Proposed Renewable Energy Project – North Kent Wind

The Ontario Ministry of the Environment (Ministry) has reviewed the information provided in the Draft of the Project Description Report (PDR) received for the North Kent Wind Project. 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: Contact Information
Chief Dan Miskokomon Bkejwanong Territory Walpole Island First Nation RR 3 Wallaceburg ON N8A 4K9
Chief Chris Plain Aamjiwnaang First Nation 978 Tashmoo Avenue Sarnia ON N7T 7H5

Chief Sheri Lynn Doxtator Oneida Nation of the Thames RR 2 Southwold ON N0L 2G0
Chief Richard "Joe" Miskokomon Chippewas of the Thames First Nation RR 1 Muncey ON N0L 1Y0
Chief Thomas Bressette Chippewas of Kettle and Stony Point 6247 Indian Line Forest ON N0N 1J1
Chief Louise Hillier Caldwell First Nation 14 Orange Street Leamington ON N8H 1P5

OR

- i) otherwise may be interested in any negative environmental effects of the project (s.14(b)(ii)):

Aboriginal Community Common Name: Contact Information
Chief Greg Peters Moravian of the Thames RR 3 Thamesville ON N0P 2K0
Chief Roger Thomas Munsee-Delaware Nation RR 1 Muncey ON N0L 1Y0

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 John Arciuch, Aboriginal Consultation Advisor at 416-326-9608 or John.Arciuch@ontario.ca should you have any questions or require additional information.

Yours sincerely,

A handwritten signature in black ink that reads "SPaul". The letters are cursive and connected.

Sarah Paul
Director
Environmental Approvals Access and Service Integration Branch

c: Ariel Bautista, Project Developer, Samsung Renewable Energy Inc, 2050 Derry Road West, 2nd floor, Mississauga, ON L5N 0B9
Zeljko Romic, Senior Program Support Coordinator, Ministry of the Environment and Climate Change
John Arciuch, Aboriginal Consultation Advisor, Ministry of the Environment and Climate Change

JA/

Ministry of the Environment
and Climate Change

Ministère de l'Environnement et de
l'Action en matière de changement
climatique



Environmental Approvals
Access and Service
Integration Branch

Direction de l'accès aux
autorisations environnementales
et de l'intégration des services

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Fax: 416 314-8452

135, avenue St. Clair Ouest
Rez-de-chaussée
Toronto ON M4V 1P5
Tél : 416 314-8001
Télec. : 416 314-8452

May 15, 2015

Mr. Ariel Bautista, Project Developer
Samsung Renewable Energy Inc
2050 Derry Road West, 2nd floor
Mississauga, ON
L5N 0B9

Dear Mr. Bautista:

RE: Notification of Proposed Renewable Energy Project – North Kent Wind

The Ontario Ministry of the Environment (Ministry) has reviewed the information provided in the Draft of the Project Description Report (PDR) received for the North Kent Wind Project. 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)):

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Chief Sheri Lynn Doxtator Oneida Nation of the Thames RR 2 Southwold ON N0L 2G0
Chief Richard "Joe" Miskokomon Chippewas of the Thames First Nation RR 1 Muncey ON N0L 1Y0
Chief Thomas Bressette Chippewas of Kettle and Stony Point 6247 Indian Line Forest ON N0N 1J1
Chief Louise Hillier Caldwell First Nation 14 Orange Street Leamington ON N8H 1P5

OR

- i) otherwise may be interested in any negative environmental effects of the project (s.14(b)(ii)):

Aboriginal Community Common Name: Contact Information
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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 John Arciuch, Aboriginal Consultation Advisor at 416-326-9608 or John.Arciuch@ontario.ca should you have any questions or require additional information.

Yours sincerely,

A handwritten signature in black ink that reads "SPaul". The letters are cursive and connected.

Sarah Paul
Director
Environmental Approvals Access and Service Integration Branch

c: Jody Law, Project Developer, Pattern Development, 100 Simcoe St, Toronto,
Ontario M5H 3G2
Zeljko Romic, Senior Program Support Coordinator, Ministry of the Environment and Climate
Change
John Arciuch, Aboriginal Consultation Advisor, Ministry of the Environment and Climate Change

JA/

From: [Diemer, Kristen \(MNRF\)](#)
To: [Pamela Hammer](#)
Cc: [Beal, Jim \(MNRF\)](#); [Andrew Ryckman](#); [Webb, Jason \(MNRF\)](#)
Subject: RE: North Kent WP; District NHA Records Review Request
Date: Thursday, May 28, 2015 11:35:43 AM
Attachments: [image001.jpg](#)
[NKW_StudyArea_20150413.zip](#)
[2015-05-28_North Kent WP-Aylmer MNRF Records review.docx](#)

Hi Pam,

Please see our attached response to your request.

We have included available species information based on our district files but note that this is not a comprehensive list of S1-S3 species that could be encountered in the project area.

We recommend that proponents/ their consultants visit the MNRF Make a Map: Natural Heritage Areas tool (<http://www.giscoeapp.lrc.gov.on.ca/web/MNR/NHLUPS/NaturalHeritage/Viewer/Viewer.html>) and/or Land Information Ontario (LIO; <http://www.ontario.ca/environment-and-energy/land-information-ontario>) to gather additional/more detailed natural heritage information within or near the project area (e.g. regarding ANSIs, provincially tracked species occurrences, etc.).

Please let us know if you have any questions.

Best regards,

Kristen Diemer | Management Biologist
Ministry of Natural Resources & Forestry
P-519.773.4751 F-519.773.9014
615 John St N Aylmer ON N5H 2S8
kristen.diemer@ontario.ca

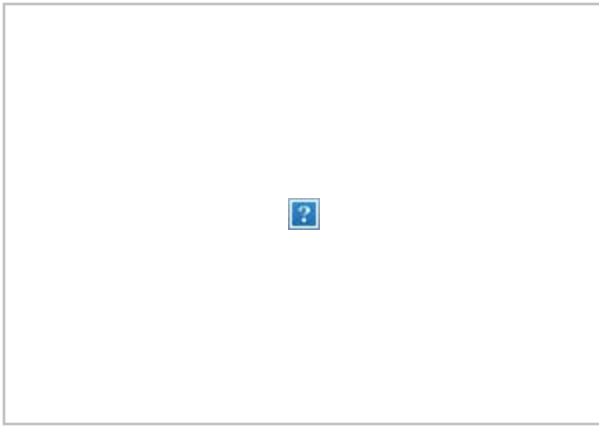
From: Pamela Hammer [<mailto:phammer@nrsl.on.ca>]
Sent: April-20-15 5:18 PM
To: Webb, Jason (MNRF)
Cc: Beal, Jim (MNRF); Andrew Ryckman; Diemer, Kristen (MNRF)
Subject: Re: North Kent WP; District NHA Records Review Request

Hi Jason,

Attached is a shapefile with the North Kent Wind Project study area boundary. Please let me know if you need anything further.

Cheers,

Pam



On 4/17/2015 1:49 PM, Webb, Jason (MNRF) wrote:

Pam,

Would it be possible to provide a shapefile of the project area boundary. This would help expedite the review on our end.

Thanks,

Jason

From: Pamela Hammer [<mailto:phammer@nrsl.on.ca>]

Sent: April-17-15 10:17 AM

To: Webb, Jason (MNRF)

Cc: Beal, Jim (MNRF); Andrew Ryckman

Subject: North Kent WP; District NHA Records Review Request

Good Morning Jason,

NRSI has been retained to conduct a Natural Heritage Assessment for the North Kent Wind Project, which is proposed in the Municipality of Chatham-Kent. Attached is a Word document containing a map showing the general project area boundary. I have also included some text below that summarizes the project details. If you could please provide us with the District NHA Records Review, or forward to the appropriate MNRF staff, it would be greatly appreciated. Please let me know if you need any further details at this point.

Thank you,

Pam

The North Kent Wind Project is being proposed by North Kent Wind 1 LP, by its general partner, North Kent Wind 1 GP Inc. (North Kent Wind). North Kent Wind is a joint venture limited partnership owned by affiliates of Pattern Renewable Holdings Canada, ULC (Pattern Development) and Samsung Renewable Energy, Inc. (Samsung Renewable Energy). North Kent Wind is proposing to develop a wind project in the Municipality of Chatham-Kent, Ontario. The Project will be located north of the community of Chatham, and is generally bounded by Oldfield Line to the north, Bear Line Road to the west, Pioneer Line and Pine Line / Darrell Line to the south and Centre Sideroad and Caledonia Road to the east. The Project will be located primarily on privately owned land with some components (e.g., electrical collector lines) being placed along public right-of-ways, none of which are proposed on provincial Crown land. Up to 50 wind turbine locations are proposed, with a project nameplate capacity of up to 100 MW.

From: [Wildlife Ontario/Faune Ontario](#)
To: [Erin Thompson](#)
Cc: [pamela Hammer](#)
Subject: RE: North Kent Wind Project - Background Information Request
Date: Friday, May 29, 2015 9:21:28 AM
Attachments: [image001.jpg](#)

Good Morning Erin,

Thank you for your email. The management of wildlife in Canada is shared between the federal and provincial/territorial governments. The federal government is responsible for migratory birds and aquatic species wherever they occur, as well as for terrestrial species found on federal lands. The provinces and territories are normally responsible for all other wildlife conservation and management issues. In some circumstances, the Government of Canada can also have responsibility for other species through the federal Species at Risk Act (SARA). SARA is designed to work in a complementary fashion with provincial/territorial legislation to protect wildlife species and their habitats. In terms of data, Environment Canada focuses on population-level information and rarely has information about specific sites. The area of interest may harbour flocks of foraging Tundra swans and concentrations of shorebirds during spring migration and Environment Canada encourages you to design your surveys to detect these migratory birds. The district offices of the Ontario Ministry of Natural Resources and Forestry are usually a better contact for the kind of information you are seeking. Below please find several links that may help you find the information resources you are looking for.

Base Layers

- Information on topics such as Provincial Parks, Conservation Reserves, watercourse names, Environmental Significant Areas, Areas of Natural and Scientific Interest, wetlands, woodlands, etc can be obtained through the Ontario Ministry of Natural Resources and Forestry. You can see what's available through Land Information Ontario (LIO) by using the metadata search tool <http://www.mnr.gov.on.ca/en/Business/LIO/index.html>. You can also view many of these layers using the 'Make a Map' tool <http://www.gisoeapp.lrc.gov.on.ca/web/MNR/NHLUPS/NaturalHeritage/Viewer/Viewer.html>
- Land cover, roads, rail and water layers at a national scale are freely available via GeoBase www.geobase.ca

Species at Risk and other wildlife Information

- Federal and provincial information on species at risk are available through the Ontario Natural Heritage Information Centre: <http://www.mnr.gov.on.ca/en/Business/NHIC/>
- Completed (proposed and final) federal management plans, recovery strategies and action plans can be found on the Species at Risk Public Registry https://www.registrelep-sararegistry.gc.ca/default_e.cfm
- Recovery Strategies for the province of Ontario and more details on species at risk can be found at <http://www.ontario.ca/environment-and-energy/species-risk>
- Species at Risk information is also available through the provincial 'Make a Map' tool (<http://www.gisoeapp.lrc.gov.on.ca/web/MNR/NHLUPS/NaturalHeritage/Viewer/Viewer.html>)

- Information on Breeding Birds in Ontario is available through the Ontario Breeding Bird Atlas: www.birdsontario.org.
- Bird Studies Canada has information about various monitoring programs and volunteer initiatives, including programs such as the Marsh Monitoring Program and eBird. <http://www.bsc-eoc.org/>
- Information on fish or fish habitat should be directed to Fisheries and Oceans Canada <http://dfo-mpo.gc.ca/> or to the Ministry of Natural Resources and Forestry <http://www.ontario.ca/ministry-natural-resources-forestry>.

Other Data search tools

- The province of Ontario's Open data catalog can be found at <http://www.ontario.ca/government/open-data-ontario#LPP>
- The federal open data catalog can be accessed at <http://open.canada.ca/en/open-data>

I hope that you find the links above helpful for the information you are looking for.

Cheers,

Liz

Liz Sauer
Canadian Wildlife Service - Ontario

From: Erin Thompson [mailto:ethompson@nrsi.on.ca]
Sent: May 21, 2015 12:46 PM
To: Wildlife Ontario/Faune Ontario
Cc: pamela Hammer
Subject: North Kent Wind Project - Background Information Request

Hello,

NRSI has been retained to conduct a Natural Heritage Assessment for the North Kent Wind Project, which is proposed in the Municipality of Chatham-Kent. Please see the attached map showing the general project boundary.

At this point, NRSI is looking to collect available background information from this area of the province to

help guide the monitoring effort, and would appreciate any information that may be available through the Canadian Wildlife Service. Of particular interest to us would be:

- Potential concentration areas (i.e. waterfowl or shorebird staging)
- Raptor usage or nest information, particularly bald eagles
- Significant or sensitive species records
- Other known significant bird habitats that may exist

Please don't hesitate to let me know if you have any questions, or require any further information.

Thank you,

Erin

--



Subject: FW: North Kent Wind Project - Chatham Kent

From: Hatcher, Laura (MTCS) [<mailto:Laura.E.Hatcher@ontario.ca>]
Sent: Tuesday, June 02, 2015 10:26 AM
To: Greguol, Michael
Subject: RE: North Kent Wind Project - Chatham Kent

Hi Mike,

No new properties have been added to the document.

Regards,

Laura

From: Greguol, Michael [mailto:Michael_Greguol@golder.com]
Sent: June 1, 2015 10:30 AM
To: Hatcher, Laura (MTCS)
Subject: North Kent Wind Project - Chatham Kent

Dear Laura,

Golder Associates is currently undertaking a Heritage Impact Assessment of the proposed North Kent Wind Project in the Municipality of Chatham-Kent. As part of our public consultation requirements, I have consulted the MTCS document, "Cultural Heritage Resources: An Information Bulletin for Projects Subject to O Reg 359/09." and have noted the properties included in Appendix B.

Can you please confirm that no new properties have been added or protected since the document was published?

Thank you in advance for your time. Please do not hesitate to contact me with any questions you may have.

Sincerely,
Michael Greguol

Michael Greguol (MA, CAHP Intern) | Cultural Heritage Specialist | **Golder Associates Ltd.**
309 Exeter Road, Unit #1, London, Ontario, Canada N6L 1C1
T: +1 (519) 652 0099 | **D:** +1 (519) 652-0099 x4129 | **F:** +1 (519) 652 6299 | **C:** +1 (226) 237-3255 | **E:**
Michael_Greguol@golder.com | www.golder.com

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Subject: FW: OHT reply to O. Reg 359/09 Inquiry - North Kent Wind Project
Attachments: North Kent Wind Project Sawchuck-Greguol 03-Jun-2015.pdf

From: Jeremy Collins [<mailto:Jeremy.Collins@heritagetrust.on.ca>]
Sent: Friday, June 05, 2015 2:48 PM
To: Greguol, Michael
Cc: Michael Sawchuck; Hatcher, Laura (MTCS); Kulpa, Paula (MTCS)
Subject: OHT reply to O. Reg 359/09 Inquiry - North Kent Wind Project

Dear Mr. Greguol,

On behalf of Michael Sawchuck, Manager, Acquisitions & Conservation Services, I am forwarding to you the attached response of the Ontario Heritage Trust to your recent request for information related to the North Kent Wind Project.

A copy of this email and the attached letter has been sent to Paula Kulpa, A/Manager, Culture Services Unit, Ontario Ministry of Tourism, Culture and Sport (MTCS), and to Laura Hatcher, Heritage Planner/Team Lead, Culture Services Unit, MTCS.

Regards,

Jeremy Collins

Jeremy Collins | Acquisitions Coordinator
Ontario Heritage Trust
10 Adelaide Street East, Toronto, Ontario Canada M5C 1J3
Telephone: 416-325-5017 | Fax: 416-314-5979
Email: Jeremy.Collins@heritagetrust.on.ca

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10 Adelaide Street East
Toronto, Ontario M5C 1J3

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Fax : 416-325-5071
www.heritagetrust.on.ca

VIA MAIL AND EMAIL

June 3rd, 2015

Michael Greguol, Cultural Heritage Specialist
Golder Associates Ltd.
309 Exeter Road, Unit 1
London, ON N6L 1C1

Dear Mr. Greguol:

Re: O. Reg 359/09 Inquiry - North Kent Wind Project

We are in receipt of your email of June 3rd, 2015, and your request for information under O. Reg. 359/09 concerning the above-noted proposed wind energy facility to be located within the study area shown on the site map attached to your email.

As the Province's lead heritage agency, the Ontario Heritage Trust is mandated to preserve, protect and promote the conservation of the Province's rich natural and cultural heritage. In carrying out the above mandate, the Trust protects many significant cultural heritage and natural heritage sites across Ontario through ownership and conservation easements. The Trust also promotes appropriate measures to protect heritage resources which may be affected by large-scale undertakings.

We have reviewed the study area site map you provided and advise that, as per O. Reg. 359/09, s. 19, the Trust does not protect any property through a conservation easement on lands that will be directly impacted or visually affected by this renewal energy undertaking.

We strongly encourage you to contact the Ministry of Tourism, Culture and Sport, if you have not already done so, in order to determine if there are any other cultural heritage interests which may be affected by this project. In this regard, we recommend that you liaise with Laura Hatcher, Heritage Planner / Acting Team Lead, Land Use Planning, Cultural Services Unit at the Ministry. She can be reached at 416-314-3108 by phone or Laura.E.Hatcher@ontario.ca by email.

Should you have any questions, please contact me at 416-325-5019.

Yours truly,

A handwritten signature in blue ink, appearing to read "Michael Sawchuck".

Michael Sawchuck
Manager, Acquisitions and Conservation Services

Copy: Laura Hatcher, A/Team Lead, Culture Services Unit, MTCS (by email only)
Paula Kulpa, A/Manager, Culture Services Unit, MTCS (by email only)

Subject: FW: Provincial Heritage Properties - North Kent Wind and Vaughan Mainline Expansion
Attachments: Vaughan Mainline Expansion Project; RE: North Kent Wind Project - Chatham-Kent

From: House, Meghan (MTCS) [<mailto:Meghan.House@ontario.ca>]
Sent: Monday, June 08, 2015 3:51 PM
To: Greguol, Michael
Subject: Provincial Heritage Properties - North Kent Wind and Vaughan Mainline Expansion

Hello Michael,

Thank you for contacting MTCS, Culture Division and your due diligence with regards to Ontario's cultural heritage resources.

With respect to the study/project areas identified in the attached emails, please be advised that we currently do not have any provincial heritage properties identified in or adjacent to these areas. However, the subject lands or parts of the subject lands may be owned or controlled by an Ontario Ministry or Prescribed Public Body (PPB) on behalf of the Crown – the list of PPBs is available as O. Reg. 157/10 (<http://www.ontario.ca/laws/regulation/100157>). A Ministry or PPB may have responsibilities under the Standards and Guidelines for Conservation of Provincial Heritage Properties (e.g. to undertake a cultural heritage evaluation and/or heritage impact assessment), please confirm the ownership of the subject properties and inquire with the applicable Ministry or PPB.

Regards,

Meghan House MCIP RPP

Heritage Advisor

Ministry of Tourism, Culture and Sport
Culture Division | Programs and Services Branch | Culture Services Unit

401 Bay Street, Suite 1700
Toronto, Ontario M7A 0A7

416.314.7133

From: [Greguol, Michael](#)
To: [Registrar \(MTCS\)](#)
Subject: RE: North Kent Wind Project - Chatham-Kent
Date: Wednesday, June 03, 2015 2:57:30 PM
Attachments: [RPT03_2015-06-01_Draft Project Description Report_60343599.pdf](#)

Good Afternoon,

Further to my email below, please see the attached for the Draft Project Description Report for your consideration regarding my inquiry.

Thanks,
Michael

***Vacation Alert** – I will be on vacation and away from the office from Friday June 5th to Wednesday June 10th 2015.*

Michael Greguol (MA, CAHP Intern) | Cultural Heritage Specialist | **Golder Associates Ltd.**
309 Exeter Road, Unit #1, London, Ontario, Canada N6L 1C1
T: +1 (519) 652 0099 | **D:** +1 (519) 652-0099 x4129 | **F:** +1 (519) 652 6299 | **C:** +1 (226) 237-3255 | **E:** Michael_Greguol@golder.com | www.golder.com

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Please consider the environment before printing this email.

From: Greguol, Michael
Sent: Monday, June 01, 2015 10:53 AM
To: 'registrar@mcl.gov.on.ca'
Subject: North Kent Wind Project - Chatham-Kent

Good Morning,

Golder Associates Ltd. is currently undertaking a Heritage Impact Assessment for the proposed North Kent Wind Project in the Municipality of Chatham-Kent. As part of our consultation efforts, we are currently gathering information related to heritage properties within the Study Area.

I am contacting you regarding any potential properties that are on the Register of Provincial Heritage Properties. Can you please send me any related information on provincial heritage properties that may be located within the Municipality of Chatham-Kent for inclusion in our assessment?

Thank you in advance, and please do not hesitate to contact me with any questions that may emerge.

Sincerely,
Michael Greguol

***Vacation Alert** – I will be on vacation and away from the office from Friday June 5th to Wednesday June 10th 2015.*

Michael Greguol (MA, CAHP Intern) | Cultural Heritage Specialist | **Golder Associates Ltd.**

309 Exeter Road, Unit #1, London, Ontario, Canada N6L 1C1

T: +1 (519) 652 0099 | **D:** +1 (519) 652-0099 x4129 | **F:** +1 (519) 652 6299 | **C:** +1 (226) 237-3255 | **E:** Michael_Greguol@golder.com | www.golder.com

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Please consider the environment before printing this email.

Subject: FW: Email - North Kent Renewable Energy Project - Letter A - 2015-06-17
Attachments: Letter - North Kent Renewable Energy Project - Letter A - 2015-06-12.pdf

From: Ontario (CEAA/ACEE) [<mailto:CEAA.ontario.ACEE@ceaa-acee.gc.ca>]
Sent: June-17-15 11:37 AM
To: info@northkentwind.com
Subject: Email - North Kent Renewable Energy Project - Letter A - 2015-06-17

Dear Mr. Lee,

Please find letter attached.

Kind Regards,
Caitlin Cafaro

Caitlin Cafaro

Environmental Assessment Officer, Ontario
Canadian Environmental Assessment Agency |
Agence canadienne d'évaluation environnementale
55 St. Clair Avenue East, Suite 907 Toronto ON M4T 1M2 |
55 avenue St. Clair Est pièce 907 Toronto ON M4T 1M2
caitlin.cafaro@ceaa-acee.gc.ca
<http://www.ceaa-acee.gc.ca>
Telephone | Téléphone 416-954-0734
Facsimile | Télécopieur 416-952-1573
Government of Canada | Gouvernement du Canada



Canadian Environmental
Assessment Agency

Agence canadienne
d'évaluation environnementale

55 St. Clair Avenue East,
Room 907
Toronto ON M4T 1M2

55, avenue St. Clair Est,
pièce 907
Toronto ON M4T 1M2

June 12, 2015

Sent by email

Jeong-Track Lee
Samsung Renewable Energy Inc.
2050 Derry Road West, 2nd Floor
Mississauga, ON L5N0B9
info@northkentwind.com

Dear Mr. Lee:

Re: Information on the *Canadian Environmental Assessment Act, 2012*

Thank you for your correspondence of June 2, 2015 regarding the North Kent renewable energy project.

As part of the Government of Canada's plan for Responsible Resource Development, the *Canadian Environmental Assessment Act, 2012* (CEAA 2012) focuses federal environmental reviews on projects that have the potential to cause significant adverse environmental effects in areas of federal jurisdiction.

The CEAA 2012 applies to projects described in the *Regulations Designating Physical Activities* (the Regulations). Based on the information provided, your project does not appear to be described in the Regulations. **Kindly review the Regulations to confirm applicability to the proposed project.**

If your project is in a federally designated wildlife area or migratory bird sanctuary please check section 1 of the Regulations, which details the designated projects specific to those locations.

For more information on CEAA 2012, please access the following links on the Canadian Environmental Assessment Agency's (the Agency) website:

Overview of CEAA 2012

<http://www.ceaa.gc.ca/default.asp?lang=En&n=16254939-1>

Regulations Designating Physical Activities, and

Prescribed Information for a Description of a Designated Project Regulations

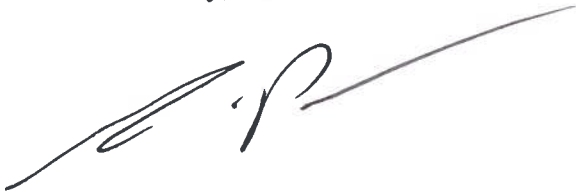
<http://www.ceaa.gc.ca/default.asp?lang=En&n=9EC7CAD2-1>

If it appears that CEAA 2012 may apply to your proposed project, you must provide the Agency with a description of the proposed project. Please see the link below to the Agency's guide to preparing a project description.

Guide to Preparing a Description of a Designated Project
[http://www.ceaa.gc.ca/63D3D025-2236-49C9-A169-DD89A36DA0E6/Guide to Preparing a Description of a Designated Project under CEAA 2012.pdf](http://www.ceaa.gc.ca/63D3D025-2236-49C9-A169-DD89A36DA0E6/Guide%20to%20Preparing%20a%20Description%20of%20a%20Designated%20Project%20under%20CEAA%202012.pdf)

If you believe the project is not subject to a federal environmental assessment, and do not submit a project description, **we kindly request that you remove the Agency from your distribution list.** If you have questions, please get in touch with our office through the switchboard at 416-952-1576.

Sincerely,

A handwritten signature in black ink, appearing to read 'A. P.', with a long horizontal flourish extending to the right.

Anjala Puvananathan
Director, Ontario Region
Canadian Environmental Assessment Agency



North Kent Wind 1 LP
2050 Derry Road West, 2nd Floor
Mississauga, Ontario L5N 0B9
www.northkentwind.com

June 2, 2015

Ms. Anjala Puvananathan
Regional Director
Canadian Environmental Assessment Agency – Ontario Office
55 St. Clair Avenue East, 9th Floor
Toronto, ON M4T 1M2

Dear Ms. Puvananathan:

Subject: Notice of Public Meeting and Proposal to Engage in a Renewable Energy Project by North Kent Wind 1 LP

North Kent Wind 1 LP, by its general partner, North Kent Wind 1 GP Inc. (“North Kent Wind 1”), a joint venture limited partnership owned by affiliates of Pattern Renewable Holdings Canada ULC and Samsung Renewable Energy Inc. North Kent Wind 1 (the “Developer”), is planning to engage in a renewable energy project for which the issuance of a renewable energy approval (REA) is required. We are writing this letter, in accordance with Ontario Regulation 359/09, to share information with you about the North Kent Wind 1 Project (the “Project”).

As part of the notification process, we are also providing you with a copy of the Notice of Public Meeting and Proposal to Engage in a Renewable Energy Project. If this Project does not impact your mandate or programs, please let us know. Any comments or questions should be sent directly to us at the addresses below.

About the Proposed Project: The proposed Project is located on public and private land in the Municipality of Chatham-Kent and would produce a total nameplate capacity of up to 100 megawatts (MW) of electricity. The total number of turbines will be dependent on the type(s) of turbines that will be used, the individual MW generation capacity of each turbine, and potential changes to the overall nameplate capacity. As the planning process progresses, the layout design and the number of turbines will be finalized and presented during the consultation process. Other potential components associated with the Project include:



North Kent Wind 1 LP
2050 Derry Road West, 2nd Floor
Mississauga, Ontario L5N 0B9

www.northkentwind.com

- Pad mounted step-up transformers (to convert the electricity generated by the turbines to a common electrical collector line voltage);
- Buried and overhead electrical collector system and ancillary facilities (to move electricity from the pad-mounted transformers to the substation);
- A collector substation (where the Project will connect to the transmission grid);
- Transmission line and grid connection (i.e., interconnection station) to the Hydro One transmission system (to connect the collector substation with the Hydro One network);
- Turbine access roads (to allow construction and maintenance equipment access to the site);
- Temporary staging areas for erection of wind turbines (for construction equipment);
- Meteorological towers (to collect data on wind direction and speed); and
- Operations building (to accommodate offices, mess facilities, control facilities, storage space, maintenance work area and a parking area).

Public Meeting #1: A Public Meeting for this Project is scheduled for July 8, 2015 at the Country View Golf Course located on 25393 St. Clair Road, R.R. #1 in Chatham-Kent, Ontario. The purpose of this Public Meeting is to provide information about the Project, identify expected timelines, and discuss the Project with the community. The meeting will be a drop-in open house meeting format.

We are committed to maintaining open communication with you. More information about the Project, including the Draft Project Description Report, is available on the Project website via the following link: www.northkentwind.com.

We look forward to your participation in this REA process. If you have any questions or comments regarding the Project, please feel free to contact us at info@northkentwind.com.

Sincerely,

North Kent Wind 1 LP

By its general partner, North Kent Wind 1 GP Inc.

Per: _____

Jeong-Tack Lee, Director
SAMSUNG RENEWABLE ENERGY INC.
2050 Derry Road West, 2nd Floor
Mississauga, ON L5N 0B9
Phone: 905-501-5667

Per: _____

Colin Edwards, Director
PATTERN RENEWABLE HOLDINGS CANADA ULC
355 Adelaide Street West, Suite 100
Toronto, ON M5V 1S2
Phone: 416-263-8029

Enclosures: Notice of Public Meeting and Proposal to Engage in a Renewable Energy Project



Notice of Public Meeting and Proposal to Engage in a Renewable Energy Project by North Kent Wind 1 LP

Project Name: North Kent Wind 1 Project (the "Project")

Project Location: Municipality of Chatham-Kent, Ontario

Dated at: Chatham-Kent this the 3rd of June, 2015

North Kent Wind 1 LP, by its general partner, North Kent Wind 1 GP Inc. ("North Kent Wind") is planning to engage in a renewable energy project in respect of which the issuance of a renewable energy approval (REA) is required. North Kent Wind (the "Developer") is a joint venture limited partnership owned by affiliates of Pattern Renewable Holdings Canada ULC (Pattern Energy) and Samsung Renewable Energy Inc. (Samsung Renewable Energy). The distribution of this Notice of proposal to engage in this renewable energy project and the Project itself are subject to the provisions of the *Environmental Protection Act* (the "Act") Part V.0.1 and Ontario Regulation 359/09 (the "Regulation"). This Notice must be 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 and Climate Change.

Notification of First Public Meeting:

Date: July 8, 2015

Time: 5:00 p.m. to 8:00 p.m.

Location: Country View Golf Course, 25393 St. Clair Rd., R.R. #1, Dover Centre, ON

Project Description:

Pursuant to the *Act* and Regulation, the facility comprising the Project is considered to be a Class 4 Wind Facility. If approved, this facility would have a total nameplate capacity of up to 100 MW. The Project is being proposed in accordance with the requirements of the *Act* and Regulation. The Project Study Area is shown in the map below. It refers to the boundary of the area in which infrastructure associated with the Project may be located. The specific location of Project infrastructure and the area required to construct that infrastructure, also called the "Project Location", will be confirmed as the planning process evolves.

Documents for Public Review:

The Draft Project Description Report (Draft PDR) describes the proposed facility, including site preparation, construction, operations, maintenance, and decommissioning of wind turbines, access roads, collector lines, a transmission line and collector substation, and other ancillary components. Site plan and layout options for the Project are currently being developed and will be finalized during the REA process. In accordance with the Regulation, a hard copy of the Draft PDR will be made available for public inspection starting on June 3, 2015 at the Municipality of Chatham-Kent Civic Centre (315 King Street West, Chatham) and the Chatham Branch of the Chatham-Kent Public Library (120 Queen Street, Chatham). The Draft PDR will also be available on the Project website: www.northkentwind.com

Project Contacts and Information:

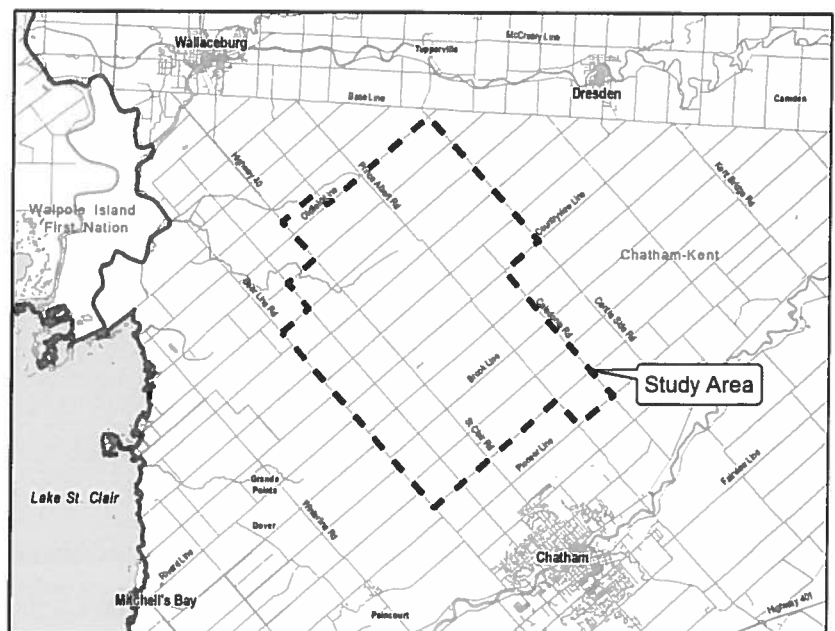
To learn more about the Project or to provide feedback, please contact:

Project Email: info@northkentwind.com

Jody Law, Project Developer
Pattern Development
355 Adelaide Street West, Suite 100
Toronto, ON M5V 1S2
Phone: (416) 263-8029

Ariel Bautista, Project Developer
Samsung Renewable Energy
2050 Derry Road West, 2nd Floor
Mississauga, ON L5N 0B9
Phone: (905) 501-5666

Mark van der Woerd
Senior Environmental Planner
AECOM
45 Goderich Road
Hamilton, ON L8E 4W8
Phone: (905) 390-2003



Municipality of Chatham - Kent, Ontario

From: [Pamela Hammer](#)
To: [Jong, Catherine \(MNRF\)](#)
Cc: [Jason Webb \(MNRF\)](#); [Andrew Ryckman](#)
Subject: North Kent Wind 1 Project; SAR Records Review Request
Date: Thursday, July 02, 2015 1:18:03 PM
Attachments: [EmailSignature_PamelaHammer.JPG](#)
[NRSI_1612_Map1_ProjectAreaNaturalFeatures_55K_2015_06_24_LEH.pdf](#)

Good afternoon Catherine,

NRSI has been retained to conduct a natural heritage assessment and analysis of Species at Risk near any potentially significant natural features or wildlife habitats at the proposed North Kent Wind 1 Project, which is proposed in the Municipality of Chatham-Kent. Attached is a map showing the project location, as well as natural features identified through the Natural Heritage Records Review stage of the project. The project location includes all possible disturbance areas and footprints associated with all aspects of the project. I have also included text below that summarizes project details.

It would be greatly appreciated if you could please provide us with MNRF's SAR Records Review list for the North Kent Wind 1 Project. Please let me know if you need any further details at this point.

Thank you,

Pam

The North Kent Wind 1 Project is being proposed by North Kent Wind 1 LP, by its general partner, North Kent Wind 1 GP Inc. (North Kent Wind 1). North Kent Wind 1 is a joint venture limited partnership owned by affiliates of Pattern Renewable Holdings Canada ULC (Pattern Development) and Samsung Renewable Energy Inc. (Samsung Renewable Energy). North Kent Wind 1 is proposing to develop a wind project north of the City of Chatham in the Municipality of Chatham-Kent, Ontario. The Project Study Area is generally bounded by Oldfield Line to the north, Bear Line Road to the west, Pioneer Line and Pine Line / Darrell Line to the south and Centre Sideroad and Caledonia Road to the east. The Project will be located primarily on privately owned land with some components (e.g., electrical collector lines) being placed along public right-of-ways, none of which are proposed on provincial Crown land. Up to 50 wind turbine locations are proposed, with a project nameplate capacity of up to 100 MW.

--



From: [Pamela Hammer](#)
To: [Jim Beal \(MNRF\)](#)
Cc: [Ruth.Lindenburger@ontario.ca](#); [Andrew Ryckman](#); [Becky.Grieve@aecom.com](#); [Van der Woerd, Mark](#); [Beatrice Ashby](#); [Jody Law](#); [Ariel Bautista](#)
Subject: North Kent Wind 1 Project; NH Site Investigation & Evaluation of Significance Reports
Date: Monday, July 06, 2015 9:43:26 PM
Attachments: [EmailSignature_PamelaHammer.JPG](#)
[NRSI_1612_North_Kent_Wind_Project_NH_Site_Investigation_Report_DRAFT_2015_07_06.doc](#)
[NRSI_1612_North_Kent_Wind_Project_NH_Evaluation_of_Significance_DRAFT_2015_07_06.doc](#)

Hi Jim,

Please find attached the first drafts of the North Kent Wind 1 Project Natural Heritage Site Investigation and Evaluation of Significance Reports for your review.

The maps associated with both reports can be downloaded from our sharing site by following the link below, and entering the password "NKW1Maps" when prompted:
<https://portal.nrsi.on.ca/public.php?service=files&t=1acc1e1b1ec38d8708c5d5b9c9df8e37>

In order to meet the REA submission date for the project, we are hoping to receive initial MNRF comments ideally within the next 2 weeks. Please don't hesitate to contact me if you have any questions or concerns.

Thank you,

Pam

--



**Ministry of Tourism, Culture
and Sport**

Culture Services Unit
Programs and Services Branch
Culture Division
401 Bay Street, Suite 1700
Toronto ON M7A 0A7
Tel: 416 314-7145
Fax: 416 212-1802

**Ministère du Tourisme, de la Culture
et du Sport**

Unité des services culturels
Direction des programmes et des services
Division de culture
401, rue Bay, bureau 1700
Toronto ON M7A 0A7
Tél: 416 314-7145
Télé: 416 212-1802



July 14, 2015

Christopher Andreae
Golder Associates Ltd.
309 Exeter Road, Unit #1
London, ON N6L 1C1
E: Christopher_Andreae@golder.com

Project: North Kent Wind 1
OPA Reference Number: F-003963-WIN-KC3-610
Report Title: Heritage Impact Assessment: North Kent Wind 1 Project
Applicant: North Kent Wind 1 LP
Location: Former Townships of Chatham and Dover
Municipality of Chatham-Kent, Ontario
MTCS File No.: 0002731

Dear Christopher Andreae:

This office has reviewed the above-mentioned report (the "Report"), which has been submitted to this ministry as required under O. Reg. 359/09, as amended (Renewable Energy Approvals under the *Environmental Protection Act*) (the "REA regulation"). This letter constitutes the Ministry of Tourism, Culture and Sport (the "Ministry") comments for the purposes of section 23(3)(a) of the REA regulation regarding the heritage assessment undertaken for the above project.

The Report recommends the following:

7.0 RECOMMENDATIONS

An inventory was undertaken to identify and evaluate potential heritage resources. Through a windshield survey, 14 potential built heritage resources 40 years of age or older and six potential cultural heritage landscapes were documented and evaluated according to *Ontario Regulation 09/06*. The 14 potential built heritage resources contained eleven residences and three barns or barn complexes. Of these, eight were identified to have potential cultural heritage value or interest. Six cultural heritage landscapes were also evaluated according to O. Reg 9/06. Of the six landscapes, only one was identified as containing cultural heritage value or interest.

The Property located at 9579 Eberts Line was the only property identified as potentially experiencing indirect impacts as a result of the Project. The property is expected to be subdivided in order for construction of a substation and tie in to the existing hydro transmission corridor at the western edge of the property. The structure identified as a built heritage resource on the property is currently screened by existing vegetation and tree lines. Retaining the vegetative screening would sufficiently mitigate negative indirect impact anticipated by the substations change in land use on the property.

No further anticipated impacts are identified. As there are no further anticipated impacts to the cultural heritage resources, no further work is recommended.

The recommendations contained in this report are based on current provincial regulation and guidelines pertaining to the approvals process for wind energy projects in Ontario.

Based on the information contained in the Report, the Ministry is satisfied that the heritage assessment process and reporting are consistent with the applicable heritage assessment requirements established in Section 23 of O. Reg. 359/09. Please note that the Ministry makes no representation or warranty as to the completeness, accuracy or quality of the heritage assessment report (please see Note 1).

This letter does not waive any requirements under the *Ontario Heritage Act*.

This letter does not constitute approval of the renewable energy project. Approvals or licences for the project may be required under other statutes and regulations. Please ensure that you obtain all required approvals and/or licences.

Please ensure that the proponent is aware that, if new information or substantive project changes arise after issuance of this letter, the applicant should discuss them with you to determine if any additional assessment or reporting is required. If additional reporting or revisions are required, they should be submitted to the Ministry for review. Upon completion of that review, the Ministry will determine if any revisions to the content of this letter are required.

Should you have any questions or require further information, please do not hesitate to contact me.

Sincerely,

Joseph Muller, RPP/MCIP
Heritage Planner
416 314 7145
Joseph.Muller@Ontario.ca

cc. Becky Grieve, Project Manager
AECOM Canada Limited

Ariel Bautista, Project Developer
Samsung Renewable Energy Incorporated

Jody Law, Project Developer
Pattern Development

Kathleen Hedley, Director
Environmental Approvals Branch, Ministry of the Environment and Climate Change (MOECC)

Sarah Paul, Director
Environmental Approvals Access and Service Integration Branch, MOECC

Paula Kulpa, Manager (A)
Culture Services Unit, Ministry of Tourism, Culture and Sport

Note 1: 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 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 heritage resources are identified or the Report is otherwise found to be inaccurate, incomplete, misleading or fraudulent.

From: [Pamela Hammer](#)
To: Ruth.Lindenburger@ontario.ca
Cc: [Jim Beal \(MNR\)](#); [Andrew Ryckman](#); Becky.Grieve@aecom.com; [Van der Woerd, Mark](#); [Beatrice Ashby](#); [Jody Law](#); [Ariel Bautista](#)
Subject: North Kent Wind 1 Project; NH EIS Report
Date: Tuesday, July 21, 2015 6:50:20 PM
Attachments: [EmailSignature_PamelaHammer.JPG](#)
[NRSI_1612_North_Kent_Wind_Project_NH_Environmental_Impact_Study_Report_DRAFT_2015_07_21.doc](#)

Hi Ruth,

Please find attached the first draft of the North Kent Wind 1 Project: Natural Heritage Environmental Impact Study Report for your review. For your reference, I wanted to mention that the locations of 3 turbines (T09, T23, T51) have moved slightly; however, the moves are very minor and have not resulted in any changes to the presence/absence of natural features or distances.

The maps associated with the report, which show the revised layout, can be downloaded from our sharing site by following the link below, and entering the password "NKW1EIS" when prompted:

<https://portal.nrsi.on.ca/public.php?service=files&t=41c5ef61dadf70049c0a08e52e61d7e9>

In order to meet the REA submission date for the project, we are hoping to receive initial MNR comments ideally within the next 2 weeks. Please note that I am on vacation starting July 23rd and returning on August 6th. As such, please copy Andrew Ryckman (included on this email) on all correspondence to ensure that any questions or concerns are addressed in my absence.

Thank you,

Pam

--



From: [Lucente, Jodie \(MTO\)](#)
To: [Ariel Bautista](#)
Subject: RE: Notice of a Public Meeting and Proposal to Engage in a Renewable Energy Project by North Kent Wind 1 LP
Date: Wednesday, July 22, 2015 8:23:37 AM

Yes – thank you. I will advise our security staff.

Jodie

Jodie Lucente | Corridor Management Planner
Ministry of Transportation
☎ Phone: 519.873.4129

From: Ariel Bautista [mailto:ariel.b@samsung.com]
Sent: July 20, 2015 4:37 PM
To: Lucente, Jodie (MTO)
Cc: Katzirz, Zsolt (MTO); 'Jody Law'
Subject: RE: Notice of a Public Meeting and Proposal to Engage in a Renewable Energy Project by North Kent Wind 1 LP

Hi Jodie,

Just want to re-confirm: Thursday at 11am I will also be attending with Jody Law.

Thanks very much,

Ariel Bautista

Samsung Renewable Energy Inc.

2050 Derry Road West, 2nd Floor
Mississauga, ON L5N 0B9
Tel: 905-501-5666

From: Lucente, Jodie (MTO) [mailto:Jodie.Lucente@ontario.ca]
Sent: July-20-15 1:40 PM
To: Ariel Bautista
Cc: Katzirz, Zsolt (MTO)
Subject: RE: Notice of a Public Meeting and Proposal to Engage in a Renewable Energy Project by North Kent Wind 1 LP

Good afternoon Ariel,

Zsolt and I would be available for a brief meeting on Thursday morning at 11am, here at the MTO office in London.

Please advise me of the attendees, and I will make the appropriate arrangements and send out a meeting invitation.

Regards,

Jodie

Jodie Lucente | Corridor Management Planner
Ministry of Transportation
☎ Phone: 519.873.4129

From: Ariel Bautista [<mailto:ariel.b@samsung.com>]
Sent: July 20, 2015 12:05 PM
To: Lucente, Jodie (MTO)
Subject: RE: Notice of a Public Meeting and Proposal to Engage in a Renewable Energy Project by North Kent Wind 1 LP

Jodie – would you by chance be available this Thursday late morning or early afternoon to meet?

Thank you

Ariel Bautista
Samsung Renewable Energy Inc.
2050 Derry Road West, 2nd Floor
Mississauga, ON L5N 0B9
Tel: 905-501-5666

From: Ariel Bautista [<mailto:ariel.b@samsung.com>]
Sent: July-20-15 12:04 PM
To: 'Lucente, Jodie (MTO)'; 'info@northkentwind.com'
Cc: 'Secord, David (MTO)'; 'Katzirz, Zsolt (MTO)'; 'Burns, Tim (MTO)'
Subject: RE: Notice of a Public Meeting and Proposal to Engage in a Renewable Energy Project by North Kent Wind 1 LP

Thank you Jodie for your email.

My name is Ariel Bautista, Project Developer working together with Jody Law on the North Kent Wind 1 project.

I will contact you to arrange a meeting in order to provide more details on the project.

Thank you,

Ariel Bautista
Samsung Renewable Energy Inc.
2050 Derry Road West, 2nd Floor
Mississauga, ON L5N 0B9
Tel: 905-501-5666

From: Lucente, Jodie (MTO) [<mailto:Jodie.Lucente@ontario.ca>]
Sent: July-20-15 11:29 AM
To: info@northkentwind.com
Cc: Secord, David (MTO); Katzirz, Zsolt (MTO); Burns, Tim (MTO)

Subject: Notice of a Public Meeting and Proposal to Engage in a Renewable Energy Project by North Kent Wind 1 LP

Good morning Ms. Law,

Attached please find MTO's comments in regard to a Notice of a Public Meeting and Proposal to Engage in a Renewable Energy Project by **North Kent Wind 1 LP**, located in the Municipality of Chatham-Kent, affecting Provincial Highway 40.

MTO looks forward to receiving updates as this project progresses and hopes to arrange a meeting with the proponents to discuss the project at your earliest convenience.

Regards,

Jodie

Jodie Lucente | Corridor Management Planner
Corridor Management Section | West Region | Ministry of Transportation
659 Exeter Road, London ON N6E 1L3

☎ Phone: 519.873.4129 | 📠 Fax: 519.873.4228 | ✉ Email: jodie.lucente@ontario.ca

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**Ministry of
Transportation**

Engineering Office

Corridor Management Section

659 Exeter Road
London, Ontario, N6E 1L3
Telephone: (519) 873-4129
Facsimile: (519) 873-4228

**Ministère des
Transports**

Bureau du génie

Section de gestion des couloirs routiers

659 Exeter Road
London (Ontario) N6E 1L3
Téléphone : (519) 873-4129
Télécopieur : (519) 873-4228



July 20, 2015

Ms. Jody Law, Project Developer
Pattern Development
355 Adelaide Street West, Suite 100
Toronto, ON M5V 1S2

email: info@northkentwind.com

**Re: North Kent Wind 1 LP
Large Renewable Project Proposal
Municipality of Chatham-Kent
Highway 40
Preliminary Comments**

The Ministry of Transportation (MTO) has recently received a Notice of a Public Meeting and Proposal to Engage in a Renewable Energy Project by **North Kent Wind 1 LP**, located in the Municipality of Chatham-Kent, affecting Provincial Highway 40.

The subject proposal is within MTO's Permit Control Area (PCA), adjacent to Highway 40. In accordance with the *Public Transportation and Highway Improvement Act*, permits are required from MTO before any grading or construction commences.

In order to avoid delays or the need for significant revisions to your proposal, MTO requests early involvement in the planning process, in order that all MTO requirements may be addressed prior to permits being considered. Pre-consultation services are offered free of charge, and it is highly recommended that the Proponents contact MTO to discuss the proposal, prior to land leases or property purchases being initiated.

At this time, MTO concerns are identified, but not limited to the following:

Encroachments:

The installation or placement of any works upon, under, over or within the limits of a provincial highway, require MTO Encroachment Permits. All encroachments are strictly regulated and must meet all conditions set out by MTO.

It should be noted that transmission lines/utility works are not permitted within the functional area of a Controlled Access Highway interchange or intersection. Additionally, the placement of a transmission line/utility works within the highway property limits is prohibited, with the exception being a parallel crossing. In order to appropriately determine an acceptable location for transmission lines / utility crossings or placements, the Proponent is advised to consult with MTO as soon as possible.

For information regarding encroachments, please refer to the following link:
<http://www.mto.gov.on.ca/english/engineering/management/corridor/encroach.shtml>

Building and Land Use

Building and Land Use Permits are required for any grading/construction proposed on a property located within 45 metres of the highway property limit or within a 395 metre radius of an interchange/intersection. In addition, the placement of a transmission line within 400 metres of the highway property limit may require a Building and Land Use permit.

As a condition of permits, the placement of the actual wind turbine structures, and location of service lines, service roads and/or fire access routes or any appurtenances relevant to the project must be reviewed and approved by MTO.

General:

A Transportation Management Plan will be required for review and approval prior to submission of an application for a Heavy Access Permit. This plan shall identify the proposed transportation route for the delivery of all turbine components, the effects on all impacted intersections, signage, utilities, etc...

MTO requests that the Proponent circulate this office with all relevant plans and materials regarding the proposal. Additionally, it is advisable to arrange a meeting with MTO staff as soon as possible, to review the proposal and discuss MTO requirements. Please contact me directly at 519-873-4129, or via email at Jodie.Lucente@ontario.ca.

Regards,



Jodie Lucente
Corridor Management Planner
Corridor Management Section
West Region

- c. David Secord, Senior Project Manager, MTO
Zsolt Katzirz, Corridor Management Officer – Utilities, MTO
Tim Burns, Corridor Management Officer, MTO

Subject: FW: 2015-06-02 RE: Notice of Public Meeting Proposal to Engage in a Renewable Energy Project by North Kent Wind 1 LP, North Kent Wind 1 Project (the Project), Municipality of Chatham-Kent --- NEATS 40225

From: EnviroOnt [<mailto:EnviroOnt@tc.gc.ca>]

Sent: July-27-15 3:16 PM

To: 'info@northkentwind.com'

Subject: 2015-06-02 RE: Notice of Public Meeting Proposal to Engage in a Renewable Energy Project by North Kent Wind 1 LP, North Kent Wind 1 Project (the Project), Municipality of Chatham-Kent --- NEATS 40225

Hello,

Please note that under *the Canadian Environmental Assessment Act, 2012*, Transport Canada is required to determine the likelihood of significant adverse environmental effects of projects that will occur on federal lands prior to exercising a power, performing a function or duty in relation to that project. To determine if the aforementioned applies, it is the responsibility of the project proponent to:

1. Review the Directory of Federal Real Property (<http://www.tbs-sct.gc.ca/dfrp-rbif/>) to determine if the project will potentially interact with any federal property; and
2. Review the list of Acts that Transport Canada administers and assists in administering that may apply to the project, available at: <https://www.tc.gc.ca/eng/acts-regulations/acts.htm>.

If a project will interact with a federal property and requires approval and/or authorization under any of the Transport Canada Acts, then correspondence should only be forwarded electronically to Environmental Assessment Coordinator at: EnviroOnt@tc.gc.ca – please ensure distribution lists are updated.

Below is a summary of the most common Acts that have applied to projects in an Environmental Assessment context:

Navigation Protection Act (NPA) – the NPA applies primarily to works constructed or placed in, on, over, under, through, or across scheduled navigable waters set out under the Act. The Navigation Protection Program administers the NPA through the review and authorization of works affecting scheduled navigable waters. Information about the Program, NPA and approval process is available at: <http://www.tc.gc.ca/eng/programs-621.html>. Enquiries can be directed to NPPONT-PPNONT@tc.gc.ca or (519) 383-1863.

Railway Safety Act (RSA) – the RSA provides the regulatory framework for railway safety, security, and some of the environmental impacts of railway operations in Canada. The Rail Safety Program develops and enforces regulations, rules, standards and procedures governing safe railway operations. Additional information about the Rail Safety Program is available at: <https://www.tc.gc.ca/eng/railsafety/menu.htm>. Enquiries can be directed to RailSafety@tc.gc.ca or (613) 998-2985.

Transportation of Dangerous Goods Act (TDGA) – the transportation of dangerous goods by air, marine, rail and road is regulated under the TDGA. Transport Canada, based on risks, develops safety standards and regulations, provides oversight and gives expert advice on dangerous goods to promote public safety. Additional information about the transportation of dangerous goods is available at: <https://www.tc.gc.ca/eng/tdg/safety-menu.htm>. Enquiries can be directed to TDG-TMDOntario@tc.gc.ca or (416) 973-1868.

Aeronautics Act – Transport Canada has sole jurisdiction over aeronautics, which includes aerodromes and all related buildings or services used for aviation purposes. Aviation safety in Canada is regulated under this Act and the Canadian Aviation Regulations (CARs). Elevated Structures, such as wind turbines and communication towers, would be examples of projects that must be assessed for lighting and marking requirements in accordance with the CARs. Transport Canada also has an interest in projects that have the potential to cause interference between wildlife and aviation activities. One example would be waste facilities, which may attract birds into commercial and recreational flight paths. Enquires can be directed to CASO-SACO@tc.gc.ca or 1 (800) 305-2059 / (416) 952-0230.

If none of the aforementioned information applies to any of the projects under review, please ensure we are removed from the distribution list.

Thank you,

Environmental Assessment Coordinator | Coordinatrice d'évaluation environnementale
Transport Canada, Ontario Region | Transports Canada, Région de l'Ontario
4900 Yonge St., Toronto, ON M2N 6A5 | 4900, rue Yonge, Toronto, ON, M2N 6A5
Email | Courriel: EnviroOnt@tc.gc.ca
Facsimile | télécopieur: (416) 952-0514
Government of Canada | Gouvernement du Canada

From: [Lindenburger, Ruth \(MNRF\)](#)
To: [Pamela Hammer](#)
Cc: [Andrew Ryckman](#); [Persaud, Anurani \(MNRF\)](#); [Beal, Jim \(MNRF\)](#)
Subject: RE: North Kent Wind 1 Project; NH Site Investigation & Evaluation of Significance Reports
Date: Friday, July 31, 2015 10:54:22 AM
Attachments: [image001.jpg](#)

Hi Pamela,

Would you be able to send me the updated EOS? I hope to send comments on the SI no later than Tues. In addition, the records review looks good. A final clean version can be prepared.

Have a great weekend.

Thank you,
RL

Ruth Lindenburger
Regional Planner
Regional Resources Section | Southern Region
Ontario Ministry of Natural Resources & Forestry
705-755-1363

From: Pamela Hammer [mailto:phammer@nrsl.on.ca]
Sent: July 21, 2015 7:05 PM
To: Lindenburger, Ruth (MNRF)
Cc: Andrew Ryckman
Subject: Fwd: North Kent Wind 1 Project; NH Site Investigation & Evaluation of Significance Reports

Hi Ruth,

As mentioned in my last email with the EIS submission, the locations of 3 turbines (T09, T23, T51) have moved slightly. The moves are very minor and do not change the number of natural features or distances presented in the first submission of the SI & EOS Reports. As such, we anticipate updating the SI & EOS mapping after we receive initial MNRF comments, and will incorporate that with our next submission of the reports.

Please let us know if you have any questions or concerns.

Thanks,

Pam



----- Forwarded Message -----

Subject:North Kent Wind 1 Project; NH Site Investigation & Evaluation of Significance Reports

Date:Mon, 06 Jul 2015 21:43:26 -0400

From:Pamela Hammer <phammer@nrsi.on.ca>

Organization:Natural Resource Solutions Inc.

To:Jim Beal (MNRF) <jim.beal@ontario.ca>

CC:Ruth.Lindenburger@ontario.ca, Andrew Ryckman <aryckman@nrsi.on.ca>, Becky.Grieve@aecom.com <Becky.Grieve@aecom.com>, Van der Woerd, Mark <Mark.VanderWoerd@aecom.com>, Beatrice Ashby <b.ashby@samsung.com>, Jody Law <jody.law@patternenergy.com>, Ariel Bautista <ariel.bautista@samsungrenewableenergy.ca>

Hi Jim,

Please find attached the first drafts of the North Kent Wind 1 Project Natural Heritage Site Investigation and Evaluation of Significance Reports for your review.

The maps associated with both reports can be downloaded from our sharing site by following the link below, and entering the password "NKW1Maps" when prompted:

<https://portal.nrsi.on.ca/public.php?service=files&t=1acc1e1b1ec38d8708c5d5b9c9df8e37>

In order to meet the REA submission date for the project, we are hoping to receive initial MNRF comments ideally within the next 2 weeks. Please don't hesitate to contact me if you have any questions or concerns.

Thank you,

Pam

--

From: ruth.lindenburger@ontario.ca
To: phammer@nrsl.on.ca
Cc: aryckman@nrsl.on.ca; jim.beal@ontario.ca; Anurani.Persaud@ontario.ca
Subject: North Kent Wind 1 Site Investigation - MNRF Comments
Date: Tuesday, August 04, 2015 2:50:49 PM

Hi Pam,

Attached are MNRF's comments on the North Kent Wind 1 Site Investigation Report. Due to the size of all the documents (maps, appendix, etc.), I have only attached the documents with comments. I should also mention that the table references throughout the report kept inadvertently updating in track changes. I have included both a comment table as well as comments in the documents for consideration. Please call or email if you have any questions.

Thanks,

Ruth Lindenburger
705-755-1363

File(s) will be available for download until **09 August 2015**:

File: [NRSI_1612_SI_Map8-1toMap8-9_GeneralizedHabitat_18K_2015_06_24_KEB_MNRF_Comments.pdf](#), 3,862.17 KB
[[Fingerprint](#): 8edaa5613b2f740ad1c4f54362a876c0]

File: [NRSI_1612_SI_Map4-1toMap4-9_WOD_WET_18K_2015_06_24_KEB_MNRF_Comments.pdf](#), 4,163.68 KB [[Fingerprint](#): 4862ff996d28f60a20fd2f1bbe4b90de]

File: [NRSI_1612_NorthKent_SI_Report_Appx I Fieldnotes_Part II_WST_Land Use_2015_07_08_VLR\[1\]_MNRF_Comment.pdf](#), 21,729.27 KB [[Fingerprint](#): 0f888c8ff0efc0e7e415e3e0e1b8b0e0]

File: [North Kent Wind 1 Project Comment Table.xls](#), 37.50 KB [[Fingerprint](#): b5b791fda3947efc9569f231fe5b2331]

File: [NRSI_1612_North Kent Wind Project_NH Site Investigation Report_DRAFT_2015_07_06_MNRF_Comments.doc](#), 1,562.50 KB [[Fingerprint](#): f1b3549901d208300319505154dfd540]

You have received attachment link(s) within this e-mail message sent via Enterprise Attachment Transfer Service. To retrieve the attachment(s), please click on the link(s).
[Accellion File Transfer](#)

From: [Drouin, Bradley](#)
To: [Drouin, Bradley](#)
Subject: FW: REVISED REPORT REQUIRED: P457-0008-2015 / *
Date: Wednesday, September 02, 2015 1:41:46 PM
Attachments: [REVISED REPORT REQUIRED P457-0008-2015.pdf](#)

----- Original message -----

From: pastport <pastport@ontario.ca>
Date: 08-10-2015 16:08 (GMT-05:00)
To: "Meicenheimer, Lafe" <Lafe_Meicenheimer@golder.com>
Subject: REVISED REPORT REQUIRED: P457-0008-2015 / *

Dear Lafe Meicenheimer,

The ministry has reviewed the Original report for PIF P457-0008-2015 submitted by you as a condition of your licence. Please refer to the attached letter to see the result of this review.

Please **do not** reply to this e-mail. The message will be undeliverable and we are unable to respond from this address.

If you have any questions about this report email us at:
ArchaeologyReports@ontario.ca

Ministry of Tourism, Culture and Sport

Archaeology Programs Unit
Programs and Services Branch
Culture Division
401 Bay Street, Suite 1700
Toronto ON M7A 0A7
Tel.: (519) 675-6898
Email: Shari.Prowse@ontario.ca

Ministère du Tourisme, de la Culture et du Sport

Unité des programmes d'archéologie
Direction des programmes et des services
Division de culture
401, rue Bay, bureau 1700
Toronto ON M7A 0A7
Tél. : (519) 675-6898
Email: Shari.Prowse@ontario.ca



Aug 10, 2015

Lafe Meicenheimer (P457)
Golder Associates Ltd.
1 - 309 Exeter London ON N6L 1C1

RE: Review of the Archaeological Assessment Report Entitled, "STAGE 2 ARCHAEOLOGICAL ASSESSMENT North Kent Wind 1 Project Various Lots and Concessions Former Townships of Chatham and Dover, Historical County of Kent Now Municipality of Chatham-Kent, Ontario", Dated Jul 24, 2015, Filed with MTCS Toronto Office on Jul 27, 2015, MTCS Project Information Form Number P457-0008-2015, MTCS File Number 0002731

Dear Mr. Meicenheimer:

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 has been carried out in order to determine whether the licensed professional consultant archaeologist has met the terms and conditions of their licence, that the licensee assessed the property and documented archaeological resources using a process that accords with the 2011 Standards and Guidelines for Consultant Archaeologists set by the ministry, and that the archaeological fieldwork and report recommendations are consistent with the conservation, protection and preservation of the cultural heritage of Ontario.

In reviewing this report, this ministry notes that specific standards have not been adequately addressed or addressed to the ministry's satisfaction.¹ Please file a revised report that resolves the following fieldwork and/or reporting issues:

P457-008-2015

1. The Archaeological Context section is required to provide a description of the property "as found" including current land uses, field conditions, soil or surficial geology and topography (Section 7.5.8 Standard 2). This would be based on what was encountered during a property inspection or the Stage 2 assessment of each parcel (e.g. ploughed and weathered agricultural field, recently planted but previously ploughed and weathered). Providing an overview of the results based on a desktop research (Page 11) for the entire study area does not provide sufficient detail to meet the standard. This information should be captured in Table 5 and 6 of the report and supported with a summary in the archaeological context section. It is also recommended that Table 5 and 6 reference the plates and associated maps to assist in the review of the report. The size of each parcel in hectares should also be provided.

2. The historic mapping did not illustrate the parcels undergoing archaeological survey (Map 5). Please

revise this map to include this information.

3. The report indicates that 15 sites are located within 1 km of the study area and 9 are located within the study area. Please indicate where the sites are located within proximity of the parcels being assessed (e.g. project components). This is more meaningful than providing it for a broad study area that includes lands that will not be impacted by the project. This information will enable one to determine if sites are close to or located within the lands to be impacted by the project (see Section 7.5.8 Standard 4 and 5).

4. Please provide the weather encountered during the assessment of the ROW. This could be easily added to Table 6. It is suggested that the tile number for the associated maps and the plates be provided in Table 5 and 6. This will help expedite the review greatly.

5. It is not clear what impacts were proposed for the following areas 1) located northeast of the intersection of Claymore Road and Prince Albert Road is for as part of the project. 2) North of Eberts line on Map 7M? Are these areas Table 5 as 7420071 or 7460065? Please clarify.

6. Table 5 indicates that there were several areas (e.g. Turbine 9, Turbine 12) where the survey interval was reduced due to lower visibility. While Section 2.1.1 Standard 2 allows for the reduction of the pedestrian survey interval under specific circumstances it must be demonstrated that the area met the conditions for this standard. Photographs of these areas should be provided to confirm visibility and crop cover. This standard is not to be used to compensate for reduced visibility due to crop litter, as what is observed in Image 13, 22 and 23. No photos were provided for Turbine 9, 15, 16, 28. For Turbine 33, Table 5 indicates one area was assessed at a 3 meter interval but this was not mapped (Map 7 A) nor were photographs of field conditions provided to support this reduction.

7. No photographs were provided of the disturbance within the parcel for Turbine 24 and Turbine 50 (farm complex shown in Map 7B and 7K respectively). For the areas subject to test pit assessment as illustrated on Map 8A and 8B where areas were determined to be disturbed, photos of disturbed test pit profiles were not provided. Only Image 37 was provided of these. Photodocumentation is required for areas determined to be disturbed during a Stage 2 assessment (see Section 2.1 Standard 6). If only one photo is provided, the report should argue why it is representative when the similar areas are far apart.

8. Snow is visible in some images (e.g. Image 51). Please confirm that the snow did not affect visibility to confirm field conditions and carry out the assessment.

9. For Turbine 38, Table 5 did not indicate an area of it was too wet to assess (see Map 7I). Please clarify.

10. For Location 31, 24 pieces of refined white earthenware were recovered but were not discussed as part of the dating of the site (see Page 81). Also, Page 141 refers to their "near absence" however, this sample is relatively large compared to the other ceramics recovered for this site. This alone satisfies Section 2.2 Standard 1 c., the criteria for Stage 3. While the report argues that related structure dates to late 19th early 20th century, it is 350 metres away, which is quite far. Please discuss the dating of the site and the need for Stage 3 in context of the refined white earthenware ceramic collection. For example, are these decorated and what does this suggest of the date? Are they from the same object (e.g. plate or cup), or represented of separate objects?

11. Please clarify the criteria as per Section 2.2. or the rationale for recommending Stage 3 for Location 13 and Location 19. It is not sufficient to indicate that is based on professional judgment. This judgement has to be explained

12. It is not clear how Location 56 meets Standard 1. 1i (1) of Section 2.2.1 since the only diagnostic artifact found is greater than 10 metres from the other seven artifacts. It is also not clear how it meets Standard 1.b of Section 2.2.1. Please clarify.

13. Locations 6, 8, 15, 20, 24, 27, 33, 48, 51, 53, 56 and possibly Location 22 contain diagnostic projectile points, therefore, a site registration form should be submitted and a Borden number provided in the report (Section 7.12, Standard 1c). Please also clarify if based on the partial 19th Century date of the site why Locations 10, 11, 12, 14, 17, 21, 22, 23, 27, 28, 29, 31, 32, 38, 40, 41, 42, 43 do not require site registration (see 7.12 standard 1b).

14. Section 2.1.1 Standard 8 requires that all be refined ceramic sherds be collected with the exception of larger sites. Most of the Euro-Canadian sites encountered were described as large sites but no rationale was provided. Some varied greatly in terms of size and artifacts identified. For example, Location 2 was considered a large site and, therefore, not all refined ceramic sherds were collected as per Section 2.1.1 Standard 8. Only 40 artifacts were identified and only 20 recovered. It measured 18 by 31 meters. In contrast, Location 25, also referred to as a large site measured 130 metres by 102 meters. In total 1592 artifacts were identified but only 430 were collected. The report needs to argue why these and the other site are large within the context of similar sites and if possible, where similar standards or fieldwork strategies have been applied. This determination affects not only artifact collection at Stage 2 but also, where required, Stage 3 assessment strategies.

15. It is not clear why the report indicated only a representative sample of refined ceramic sherds were collected for Locations 1, 4, 22, 32, and 45 as what was left behind in each case did not include any more of this artifact type.

16. Not all ceramic sherds were collection for Locations 29, 35, 41 but a rationale was not provided for this.

17. Please explain how the sampling strategy employed in the field for the large sites ensured that the sample collected was representative and sufficient in size keeping in mind that the criteria for Stage 3 assessment is 20 artifacts date the period of use for the site to the 1900 (see Standard 2.2 1d and Draft Rural Historic Farmstead Bulletin Section 6.1 Page 20 and 6.3 page 21). For example, where only a representative sample of ceramics were collected, were all refined earthenware ceramics collected or only those that were decorated? The latter point is relevant as the date of occupation of the site was partially based on the predominance of this artifact type.

18. Please provide a rationale for only excavating one 1 meter square unit for Location 40? Also, explain what dictated its placement (Tile 2) given the number of positive test pits for the site.

19. The mapping (Tile 12) for the Aboriginal component of Location 16 only shows five artifacts whereas seven were found. Please clarify.

20. The mapping for Location 17 and 22 show an Aboriginal artifact, however, this was not discussed in the report. Please clarify.

21. Some of these sites extend into adjacent properties that have not been assessed, therefore, the recommendations need to be clear that they only apply to the sites within the limits of the subject property

and not beyond. Stage 1-2 assessments may need to occur for the portions of the sites that extend beyond this property in order to evaluate their need for additional assessment. This would apply to all sites that extend beyond the subject property whether or not Stage 3 is recommended. The fact that some sites extend into adjacent properties should be mentioned in the records of finds and analysis and conclusion sections as well. For example, based on the artifacts patterning, Location 7 may extend into the southeast beyond the limits of the current property but the recommendations did not note this or recommend Stage 1-2 of the adjacent property if ever impacted.

22. Recommendation 4 indicates that Location 51 is of no further concern, however, the report and Recommendation 2 indicates otherwise.

23. The Recommendation to address the Stage 3 for large sites for Locations 3, 7, 9, Location 16 and 25 is not clear enough to fully understand what is required for Stage 3 assessment for sites requiring Stage 4 as prescribed in Section 3.3.1 Standards 1 a-b and Table 3.1. More information should be provided about what is the interval of units and % infilling as per Table 3.1 Standards 3 and 4 and Section 3.3.1 and what areas should be tested. Reference to Section 3 of the "The Archaeology of Rural Historic Farmstead" Bulletin may also be useful. As noted above, it is not really clear why all of these sites are considered large and why Standard 3.3.1 should apply. This will need to be addressed in the report in order to accept this Stage 3 strategy for all of these sites.

A revised report must be filed by the ministry on or before Nov 9, 2015. Once a revised report is received, it will be reviewed and a response provided. 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 concerns identified are not fully addressed by the date noted above the report may be deemed incomplete or non-compliant. Incomplete or non-compliant reports may impact a licensee's record of compliance.

Please note that a licensee's record of compliance will be taken into account by the ministry at the time of any licensing decisions.

Should you require any further information regarding this matter, please feel free to contact me.

For further information and guidance, please see the Project Information Forms and the Report Review Process Bulletin, the Standards and Guidelines, and the Terms and Conditions for Archaeological Licences by visiting the ministry's website www.ontario.ca/archaeology.

Sincerely,

Shari Prowse
Archaeology Review Officer

cc. Archaeology Licensing Officer

¹In no way will the ministry be liable for any harm, damages, costs, expenses, losses, claims or actions that may result: (a) from the

incompleteness, non-compliance or inaccuracies of this Report; (b) from reliance on this Report; or (c) from the issuance of this letter. Further measures are required as this Report is found to be incomplete at this time.

From: [Lindenburger, Ruth \(MNRF\)](#)
To: [Pamela Hammer](#)
Cc: [Andrew Ryckman \(aryckman@nrsl.on.ca\)](#); [Beal, Jim \(MNRF\)](#); [Milian, Kazia \(MNRF\)](#); [Persaud, Anurani \(MNRF\)](#)
Subject: North Kent Wind 1 EOS - MNRF comments
Date: Tuesday, August 11, 2015 9:28:06 AM
Attachments: [image001.jpg](#)
[North Kent Wind 1 Project Comment TableEOS.xls](#)
[NRSI_1612_North_Kent_Wind_Project_NH_Evaluation_of_Significance_DRAFT_2015_07_06_MNRF_comments.doc](#)

Hi Pamela,

Attached are MNRF's comments on the North Kent Wind 1 Evaluation of Significance Report. I have included both a comment table as well as comments in the document for consideration. MNRF has no comments on the mapping at this time. We are currently working on the EIS report.

Please call or email if you have any questions.

Thank you,
Ruth

Ruth Lindenburger
Regional Planner
Regional Resources Section | Southern Region
Ontario Ministry of Natural Resources & Forestry
705-755-1363

From: Pamela Hammer [mailto:phammer@nrsl.on.ca]
Sent: August 10, 2015 5:54 PM
To: Lindenburger, Ruth (MNRF)
Cc: Andrew Ryckman; Beal, Jim (MNRF); Milian, Kazia (MNRF); Grieve, Becky; Van der Woerd, Mark; Jody Law; Beatrice Ashby; Ariel Bautista; Persaud, Anurani (MNRF)
Subject: Re: Fwd: FW: North Kent Wind 1 Project; NH Records Review Report

Hi Ruth,

Attached is a final, compiled PDF of the North Kent Wind 1 Project Records Review Report as per your email dated July 31st indicating that a final version can be prepared. Please let me know if you need anything further related to the Records Review Report.

Also, thank you for providing your comments on the SI Report. We are currently reviewing, and will provide a revised version back to you as soon as possible. If you can please provide an update on when you anticipate providing comments on the EOS and EIS Reports, it would be greatly appreciated. In order to meet the REA submission date for the project, we are hoping to receive comments on both reports this week.

Please don't hesitate to contact me if you, or any other reviewers, have any questions or concerns.

Thanks,

Pam



On 7/24/2015 4:39 PM, Andrew Ryckman wrote:

Good Afternoon Ruth,

Thank you for providing MNRF comments on the North Kent 1 NHA Records Review Report. To this email, I've attached the following documents that address your comments:

1. Revised Records Review Report (MS Word, in tracked changes); with edits and response comments, where appropriate
2. Original Map 1 (PDF) with a response to MNRF comment
3. Revised Map 1 (PDF) that addresses MNRF comments

Please review at your convenience and confirm if you are comfortable that MNRF comments have been addressed. If so, we will prepare a clean, compiled PDF that will serve as the final Records Review Report for this project.

Thanks and have a great weekend!
Andrew



----- Forwarded Message -----

Subject:FW: North Kent Wind 1 Project; NH Records Review Report

Date:Wed, 8 Jul 2015 13:56:59 +0000

From:Lindenburger, Ruth (MNRF) <Ruth.Lindenburger@ontario.ca>

To:phammer@nrsi.on.ca <phammer@nrsi.on.ca>

CC:Beal, Jim (MNRF) <jim.beal@ontario.ca>, Milian, Kazia (MNRF) <kazia.milian@ontario.ca>

Hello Pamela,

The records review report and map have been reviewed. There are only a couple of comments, nothing substantial. I will begin to review the site investigation report.

Please call or email if you have any questions.

Thank you,

RL

Ruth Lindenburger

Regional Planner

Regional Resources Section | Southern Region

Ontario Ministry of Natural Resources & Forestry

705-755-1363

From: Pamela Hammer [<mailto:phammer@nrnsi.on.ca>]

Sent: June-24-15 12:19 PM

To: Beal, Jim (MNRF)

Cc: Andrew Ryckman; Becky.Grieve@aecom.com; Van der Woerd, Mark; Jody Law; Beatrice Ashby; Ariel Bautista

Subject: North Kent Wind 1 Project; NH Records Review Report

Good afternoon Jim,

We are pleased to provide you with the first draft of the *North Kent Wind 1 Project: Natural Heritage Records Review Report* for your review. A Word version of the report is attached, as well as the accompanying PDF map and Appendices I-III.

Please let me know who from MNRF will be reviewing the Natural Heritage reports for this project, and I will ensure that they are copied on all correspondence moving forward.

In order to meet the REA submission date for the project, we are hoping to receive initial MNRF comments ideally within the next 2 weeks. Please don't hesitate to contact me if you, or the reviewers for this project, have any questions or concerns.

Thanks,

Pam

--



From: [Van der Woerd, Mark](#)
To: [Jessica Schnaithmann](#)
Cc: "[zAriel Bautista](#)" (ariel.b@samsung.com); [AshbyBeatrice](#); [Jody Law](#); [Grieve, Becky](#)
Subject: RE: North Kent Wind Project - Meeting Minutes
Date: Tuesday, August 18, 2015 5:17:39 PM
Attachments: [Figure 2-1 Project Location \(2015.07.30\)\(1\).pdf](#)

Hi Jessica,

Thanks for your response and for providing us with clarification on the meeting minutes as well as additional information about LTVCA's guidelines and regulations.

Since we met, we have developed a project layout that we would like to review with you. We were wondering if you might have availability over the next couple of weeks to review our draft layout and then have another meeting to discuss requirements for conservation authority permits and, in particular, turbines and project infrastructure constructed within the floodplain. Could you let us know some potential dates and times that would work best for you? Please find a draft site plan attached to this email for review. We would ask that you treat this map as confidential until September 2nd when it will be released to the public.

Please let us know if you have any questions. We look forward to meeting again.

Cheers,
Mark

Mark van der Woerd
AECOM | mark.vanderwoerd@aecom.com
P: 905.390.2003 | C: 289.439.9803

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From: Jessica Schnaithmann [<mailto:Jessica.Schnaithmann@ltvca.ca>]
Sent: Thursday, July 30, 2015 2:35 PM
To: Van der Woerd, Mark
Cc: 'zAriel Bautista' (ariel.b@samsung.com); [AshbyBeatrice](#); [Jody Law](#); [Grieve, Becky](#)
Subject: RE: North Kent Wind Project - Meeting Minutes

Hi Mark,

Thank you for sending me the minutes. My apologies for the delay in a response - it has been busy. Just a small correction in the minutes. In section 4, please clarify that the timeline for the permit begins at the time the permit is signed by our office, not from when construction begins. Each site will need to be reviewed to determine exact the setback requirements for drains. The setback would be a combination of the 3:1 Stable Slope Allowance and a 10 metre Erosion Allowance. I will still need to follow-up with the action items for section 5 and 6.

Hope you are enjoying your summer as well.

If you have any questions please do not hesitate to contact me.

Thanks,

Jessica

Jessica Schnaithmann, B.Sc.

Regulation & Planning Technician

From: Van der Woerd, Mark [<mailto:Mark.VanderWoerd@aecom.com>]
Sent: Wednesday, June 17, 2015 2:02 PM
To: Jessica Schnaithmann
Cc: 'zAriel Bautista' (ariel.b@samsung.com); AshbyBeatrice; Jody Law; Grieve, Becky
Subject: North Kent Wind Project - Meeting Minutes

Hi Jessica,

I hope all is well and that you are enjoying your summer so far. Thanks again for taking the time to meet with us to discuss the North Kent Wind project in April. Attached to this email are minutes from our meeting. We recognize that some time has passed since we met, but we want to ensure our consultation documentation is accurate and appropriately records our conversation. Could you please review the minutes and let us know if you have any comments?

As discussed, we will provide you with further information about the Project once it is available. In the meantime, if you have any questions please do not hesitate to give me a call.

Have a great day,
Mark

Mark van der Woerd

Senior Consultant, Planning & Community Engagement

Impact Assessment and Permitting Practice - Environment

AECOM | www.aecom.com

mark.vanderwoerd@aecom.com | P: 905.390.2003 | C: 289.439.9803

45 Goderich Road, Suite 201, Hamilton, ON L8E 4W8

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From: [Pamela Hammer](#)
To: [Ruth Lindenburger](#)
Cc: [Jim Beal \(MNR\)](#); [Kazia Milian](#); [Persaud, Anurani \(MNR\)](#); [Andrew Ryckman](#); [Becky.Grieve@aecom.com](#); [Van der Woerd, Mark](#); [Jody Law](#); [Beatrice Ashby](#); [Ariel Bautista](#)
Subject: North Kent Wind 1; NH SI & EOS Report Re-submissions
Date: Thursday, August 20, 2015 5:31:50 PM
Attachments: [EmailSignature_PamelaHammer.JPG](#)
[NRSI_1612_North_Kent_Wind_1_Project_Comment_Table_Response_2015_08_20.xls](#)
[NRSI_1612_North_Kent_Wind_Project_NH_Site_Investigation_Report_DRAFT_2015_08_20.doc](#)
[NRSI_1612_North_Kent_Wind_1_Project_Comment_TableEOS_2015_08_20.xls](#)
[NRSI_1612_North_Kent_Wind_Project_NH_Evaluation_of_Significance_DRAFT_2015_08_20.doc](#)

Hi Ruth,

Thank you for providing MNR comments on the North Kent Wind 1 Project Natural Heritage Site Investigation and Evaluation of Significance Reports. To this email, we have included the following documents as part of our re-submissions:

SI Report

- Track changed Word version of the report incorporating MNR comments
- Updated Excel spreadsheet with responses to MNR comments
- Generalized SWH maps with MNR comments and NRSI responses. Due to their size, please download these files from our sharing site by clicking the following link and entering the password "NKW1SI" when prompted:

<https://portal.nrsi.on.ca/public.php?service=files&t=afea9edd4ac4792b0e7c05c6196851d1>

It is noted that MNR comments were also provided on the woodland and wetland maps, as well as the Appendix I Fieldnotes, Part II. Responses to these comments have been provided in the Word version of the report, as well as in the Excel spreadsheet.

EOS Report

- Track changed Word version of the report incorporating MNR comments
- Updated Excel spreadsheet with responses to MNR comments

In order to meet the REA submission date for the project, we are hoping to receive MNR comments or confirmation on these reports ideally within the next 2 weeks. In addition, if you can please provide an update on when you anticipate providing comments on the EIS Report, it would be greatly appreciated. Please don't hesitate to contact me if you have any questions or concerns.

Thank you,

Pam

--



From: [Lindenburger, Ruth \(MNRF\)](#)
To: [Pamela Hammer](#)
Cc: [Beal, Jim \(MNRF\)](#); [Milian, Kazia \(MNRF\)](#); [Andrew Ryckman](#)
Subject: North Kent Wind 1 - EIS - MNRF Comments
Date: Wednesday, August 26, 2015 4:09:13 PM
Attachments: [North Kent Wind 1 Project Comment Table EIS Aug26.xls](#)
[NRSI 1612 North Kent Wind Project NH Environmental Impact Study Report DRAFT 2015 07 21 MNRF Comments Aug26.doc](#)

Hi Pamela,

Attached are MNRF's comments on the North Kent Wind 1 Environmental Impact Study Report. I have included both a comment table as well as comments in the document for consideration. MNRF has no comments on the mapping at this time.

Please call or email if you have any questions.

Thank you,
Ruth

Ruth Lindenburger
Regional Planner
Land Use Planning Unit | Regional Resources Section | Southern Region
Ontario Ministry of Natural Resources & Forestry
300 Water Street Peterborough, ON K9J 6Y3
705-755-1363

From: Lindenburger, Ruth (MNRF) <Ruth.Lindenburger@ontario.ca>
Sent: Wednesday, September 02, 2015 8:42 AM
To: Pamela Hammer
Cc: Beal, Jim (MNRF); Milian, Kazia (MNRF); Persaud, Anurani (MNRF); Andrew Ryckman (aryckman@nrsl.on.ca)
Subject: North Kent Wind 1 - MNRF Comments - Second Submission
Attachments: North Kent Wind 1 Project_Comment TableEOS_Sept_02_15.xls; NRSI_1612_North Kent Wind Project_NH Evaluation of Significance_DRAFT_Sept_02_15_MNRF_Comments.doc; North Kent Wind 1 Project_Comment Table_Response_Sept_02_2015.xls; North Kent Wind Project_NH Site Investigation Report_DRAFT_Sept_02_2015_MNRF_Comments.doc

Hi Pamela,

Attached are the SI and EOS reports. Comments are indicated in both the spreadsheet and documents. There are only a couple of comments. We should be able to wrap up the SI and EOS shortly.

Please call or email if you have any questions.

Take care,

RL

Ruth Lindenburger
Regional Planner
Land Use Planning Unit | Regional Resources Section | Southern Region
Ontario Ministry of Natural Resources & Forestry
300 Water Street Peterborough, ON K9J 6Y3
705-755-1363

From: [Pamela Hammer](#)
To: [Ruth Lindenburger](#)
Cc: [Jim Beal \(MNR\)](#); [Kazia Milian](#); [Persaud, Anurani \(MNR\)](#); [Andrew Ryckman](#); [Becky.Grieve@aecom.com](#); [Van der Woerd, Mark](#); [Jody Law](#); [Beatrice Ashby](#); [Ariel Bautista](#)
Subject: North Kent; NH SI, EOS, EIS, & EEMP Submissions
Date: Tuesday, September 15, 2015 12:00:17 PM
Attachments: [EmailSignature_PamelaHammer.JPG](#)
[North Kent Wind 1 Project Comment Table Response 2015_09_15.xls](#)
[NRSI_1612_North Kent Wind 1 Project NH Site Investigation Report DRAFT 2015_09_15.doc](#)
[North Kent Wind 1 Project Comment TableEOS 2015_09_15.xls](#)
[NRSI_1612_North Kent Wind Project NH Evaluation of Significance DRAFT 2015_09_15.doc](#)
[North Kent Wind 1 Project Comment Table EIS 2015_09_15.xls](#)
[NRSI_1612_North Kent Wind Project NH Environmental Impact Study Report DRAFT 2015_09_15.doc](#)
[NRSI_1612_North Kent Wind Project EEMP DRAFT 2015_09_15.doc](#)
[NRSI_1612_NK1 Generalized SHP 2015_09_14.zip](#)

Hi Ruth,

Thank you for providing comments on the North Kent Wind 1 Project NH SI, EOS, & EIS Reports. One of the comments indicated that updated versions of the SWH Criteria Schedules were available. As such, each of these reports has been updated as per the January 2015 SWH Criteria Schedules for Ecoregion 7E. All of the resulting changes to these reports have been made in track changes to facilitate your review.

We have included the following documents as part of our re-submission:

SI Report (Submission 3)

- Track changed Word version of the report
- Updated Excel spreadsheet with responses to MNRF comments
- Generalized SWH shapefiles with attribute data. This has been provided in order for MNRF to verify that the determination of generalized habitats were identified correctly using the application of the NHA Guide, Appendix D, Table 19.

EOS Report (Submission 3) & EIS Report (Submission 2)

- Track changed Word version of the reports
- Updated Excel spreadsheets with responses to MNRF comments

As part of our submission, we have also included the first draft of the Bird and Bat Environmental Effects Monitoring Plan for your review. The associated maps and appendix can be downloaded from our sharing site by clicking the following link and entering the password "NKW1EEMP" when prompted. <https://portal.nrsi.on.ca/public.php?service=files&t=32f49770e8d569da6b7f1e17e59b09cd>

In order to meet the REA submission date for the Project, we are hoping to receive MNRF comments or confirmation on these reports within the next 2 weeks. Please don't hesitate to contact me if you have any questions or concerns as you are reviewing.

Thank you,

Pam

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Subject: FW: Bird Studies Canada Data

Subject: Bird Studies Canada Data

Date: Tue, 15 Sep 2015 14:26:32 +0000

From: Catherine Jardine <cjardine@bsc-eoc.org>

To: shunter@nrsi.on.ca <shunter@nrsi.on.ca>

Hello,

I recently came across the below report produced by NRSI.

http://northkentwind.com/files/8814/4084/7405/7a._Natural_Heritage_Records_Review_Report.pdf

On page four the report states that NRSI emailed Bird Studies Canada with a data request and did not receive any data as a result. I manage the majority of BSCs data requests, unfortunately NRSI's email did not make it to me. However, I wanted to touch base to inform your organization that all of Bird Studies Canada's monitoring data is available through our online data request portal.

The portal is available here: <http://www.bsc-eoc.org/birdmon/default/searchquery.jsp>

For future projects you may use this portal to request data from your project locations. Please feel free to circulate this to your project staff.

All the best,
Catherine Jardine
Data Analyst: National Data Center
Bird Studies Canada-Études d'Oiseaux Canada
5421 Robertson Road RR1, Delta B.C . V4K 3N2
Ph: (604)-350-1972

From: [Prowse, Shari \(MTCS\)](#)
To: [Drouin, Bradley](#)
Cc: [Meicenheimer, Lafe](#)
Subject: FW: REVISED REPORT REQUIRED: P457-0008-2015 / *
Date: Thursday, September 24, 2015 2:50:52 PM

Hi Brad,

It will be a few more days before I can get this to you. I am hoping Monday at the latest.

Shari Prowse
Archaeology Review Officer
Southwest Region
Archaeology Programs Unit

From: Prowse, Shari (MTCS)
Sent: September 23, 2015 3:30 PM
To: 'Drouin, Bradley'
Cc: Meicenheimer, Lafe (Lafe_Meicenheimer@golder.com)
Subject: FW: REVISED REPORT REQUIRED: P457-0008-2015 / *

I discussed the matter with Malcolm Horne and I will provide a response tomorrow.

Shari Prowse
Archaeology Review Officer
Southwest Region
Archaeology Programs Unit

From: Prowse, Shari (MTCS)
Sent: September 22, 2015 1:33 PM
To: 'Drouin, Bradley'
Cc: Meicenheimer, Lafe; Archaeology (MTCS)
Subject: RE: REVISED REPORT REQUIRED: P457-0008-2015 / *

Hi Brad,

We thank you for this additional information. If you can hold off for a couple of days I can back to you with any comments we may have.

Shari Prowse
Archaeology Review Officer
Southwest Region
Archaeology Programs Unit

From: Drouin, Bradley [mailto:Bradley_Drouin@golder.com]
Sent: September 22, 2015 12:36 PM
To: Prowse, Shari (MTCS)
Cc: Meicenheimer, Lafe; Archaeology (MTCS)
Subject: RE: REVISED REPORT REQUIRED: P457-0008-2015 / *

Hi Shari,

Further to your e-mail, I'd like to clarify that I would not compare Pre-Contact sites to Historic sites – that wouldn't make sense. The historic sites identified on Belle River were used as they represent the closest large sample of analogous historic Euro-Canadian sites within close proximity to the KNW1 project study area (the study areas are only 30km from one another). Both study areas are located within close proximity to Lake St. Clair and both have very similar histories in terms of rural development and settlement. We have modified the report text to further outline which sites have been designated as large (see table below). This should ease any uncertainty you may have about us calling Location 2 large.

Both the Townships in Belle River (Maidstone, Rochester and Tillbury) and North Kent 1 (Chatham and Dover) were primarily settled in the mid-19th century with small towns developing at the main cross roads and farmsteads on the various surrounding lots. When comparing the artifacts collected and site types, sites within both study areas have pretty much the same material culture and assemblage. The main difference is the quantity of artifacts collected. As I indicated in my previous e-mail, over 60% of the Belle River sites had fewer than 200 artifacts. Using this information and comparing it to NKW – the assemblages are much larger hence we used a larger artifact cut off to define large sites. Our understanding and definition of a large site will forever be refined as more information is gained during future assessment

It should be further noted (from the table below) that for sites that we identified as being “not large”, all refined white earthenware (rwe) sherds were collected. For sites identified as Large, all decorated and diagnostic rwe (i.e. pearl ware, cream ware, etc.) sherds were collected as well as all sherds that had defined function characteristics (rim, base, etc.). The only rwe sherds left in the field were undecorated and non-diagnostic body sherds – all of which were GPS'd in with a high accuracy GPS unit. As such, we can confidently say that all diagnostic rwe that would meet the criteria for triggering Stage 3 were collected for all sites – regardless of whether they are considered large or not. As will be further outlined in the revised report, all diagnostic glass was collected (i.e. those with various mold seams, pontil scars, etc.) and only undiagnostic bottle glass was left in the field. Having said that, notes on glass colour for each find spot (collected and left in the field) were noted. This level of detail for the collected and sample artifacts provides sufficient information for us to date the site - not just the date range of the site but the age of the overall assemblage.

Site	Site size	Total Number of Artifacts Identified	Total Number of Artifacts Collections	Recommended for Stage 3	RWE
Location 2	Not Large	41	20	No	100% Collected
Location 26	Not Large	42	42	No	100% Collected
Location 45	Not Large	65	33	No	100% Collected
Location 41	Not Large	79	61	No	100% Collected
Location 4	Not Large	101	78	No	100% Collected
Location 43	Not Large	112	76	No	100% Collected
Location 32	Not Large	117	82	No	100% Collected
Location 40	Not Large	129	129	No	100% Collected
Location 17	Not Large	141	91	No	100% Collected
Location 1	Not Large	152	90	No	100% Collected
Location 38	Not Large	167	85	No	100% Collected
Location 21	Not Large	194	114	No	100% Collected
Location 3	Not Large	219	98	Yes	100% Collected
Location 10	Not Large	233	131	No	100% Collected
Location 50	Not Large	279	116	No	100% Collected
Location 28	Large	298	130	No	Sampled
Location 52	Large	350	93	No	Sampled

Location 31	Large	388	135	No	Sampled
Location 14	Large	405	146	No	Sampled
Location 16	Large	407	217	Yes	Sampled
Location 12	Large	456	217	No	Sampled
Location 55	Large	459	192	No	Sampled
Location 23	Large	476	187	No	Sampled
Location 11	Large	704	257	No	Sampled
Location 42	Large	721	294	No	Sampled
Location 9	Large	743	321	Yes	Sampled
Location 22	Large	757	218	No	Sampled
Location 27	Large	840	230	No	Sampled
Location 35	Large	1000	359	No	Sampled
Location 7	Large	1018	428	Yes	Sampled
Location 29	Large	1034	278	No	Sampled
Location 25	Large	1592	430	Yes	Sampled

Please call if you require any further clarification. Based on the work we've done on similar projects in similar areas, we are confident and comfortable with the professional judgment we've used in how we've defined large site and more importantly our sampling strategy for each of the sites.

As I've indicated before, we are on a very tight timeline to get these revisions sorted so anything you can do speed up the review process of this e-mail as well as the forthcoming revised report would be greatly appreciated.

All the best,

-Brad-

From: Prowse, Shari (MTCS) [<mailto:Shari.Prowse@ontario.ca>]

Sent: Friday, September 18, 2015 3:47 PM

To: Drouin, Bradley

Cc: Meicenheimer, Lafe; Archaeology (MTCS)

Subject: RE: REVISED REPORT REQUIRED: P457-0008-2015 / *

Hi Brad,

It is not clear how the sites found during the Bell River Wind project assessment are comparable. Are they all the same type of sites and date to the same period? How do these compare to the sites found on the North Kent property? Are they the same ethnic groups (i.e. French?) These areas appear to be far removed from each other and in different environs too.

We will require a more substantive argument that incorporates the archaeological data to demonstrate that they are comparable in a regional context. It will also need to demonstrate that the argument for defining certain sites located by the Belle River assessment as large was appropriate.

As you are aware the size of the site will determine whether or not a sample of refined ceramic sherds can be taken (see Section 2.1.1 Standard 8). As highlighted in point 14 of the review letter, almost every site was reported to be a large site and its collection of refined ceramic sherds was sampled. Point 17 of the review letter also requested information about the sampling strategy for the large sites and how it ensured that the sample collected was representative and sufficient in size keeping in mind that the criteria for Stage 3 assessment is 20 artifacts that date the period of use for the site to before 1900 (see Standard 2.2 1d and Draft Rural Historic Farmstead Bulletin Section 6.1 Page 20 and 6.3 page 21). As such, the

report should confirm that the sample collected was proportionately representative of the dating of the site and not just the overall range of dates found at the site.

When the number of artifacts at large site are low, the sampling should ensure that of the datable artifacts including all the datable refined ceramic sherds are collected in order to determine if the threshold of 20 artifacts dating the site to before 1900 applies. This will need to be clear in the report, especially for sites where Stage 3 is not recommended, for example Location 2.

Location 2 which was estimated to be 18 m x 31 m. It was reported to be a large site so it was argued that not all refined ceramic sherds are required to be collected. Of the 41 artifacts observed only a sample of 20 artifacts were collected. The artifacts collected included 13 pieces of glass and 7 refined ceramic sherds. Glass and undecorated ceramic sherds were left behind. It is not clear if the artifacts left behind would have been enough to meet the threshold of 20 artifacts that date the site to before 1900. As such, the report will need to argue that this sample was appropriate. For example, did it include all of the datable artifacts or only a sample of the datable artifacts? Did it include all of the artifacts that would date the site to before the 1900's? Were any of the ceramic sherds left behind datable and, if so, datable before 1900?

Therefore, while you will need to justify why some sites are large and others are not, you will also need to indicate whether or not enough datable refined ceramic sherds and other artifacts were collected for each site to provide the appropriate evaluation of its cultural heritage value and interest. The smaller the number of artifacts present, the more of an issue this may be.

I hope this helps clarify what we are looking for in the report. Get back to me if you require more assistance.

Shari Prowse
Archaeology Review Officer
Southwest Region
Archaeology Programs Unit

From: Drouin, Bradley [mailto:Bradley_Drouin@golder.com]
Sent: September 14, 2015 3:07 PM
To: Prowse, Shari (MTCS)
Cc: Meicenheimer, Lafe
Subject: FW: REVISED REPORT REQUIRED: P457-0008-2015 / *

Hi Shari,

Thanks for taking the time to speak with Lafe and I last week. Further to our call, Lafe and I have worked on defining what constitutes a large site. You had indicated that we should send this to archaeology@ontario.ca but since we are not trying to define what a large site is in general, but rather what constitutes a large site in the context of this project, I'm sending it to you, as the reviewer of the Stage 2 report.

Can you please review and let us know your thoughts. Once this is ironed out then we can complete the remainder of the revisions. The paragraphs speak for themselves but essentially we used our

knowledge and experience on previous projects in the general vicinity and the results of this project to come up with the definition.

A speedy response would be appreciate as the client is hoping to submit the draft REA for this project very shortly and the Stage 2 letter is a requirement.

Section to be added to Section 2.2 of the revised Stage 2 report:

The MTCS *Standards and Guidelines* do not provide guidance or direction as to what defines a "large site." As such, professional judgement based on knowledge of similar site types in a similar geographical area have been used and applied for this particular project.

For the purposes of this project, scatters of approximately 295 artifacts or more were considered 'large scatters'. Using 295 artifacts to define a large historic scatter is based on the specific site conditions identified during this project as well knowledge gained during assessments of areas within the general vicinity (Golder 2014 Belle River). During Golder's 2014 assessment of the Belle River Wind Project a total of 17 historic sites were identified, of which only 2 of these sites contained more than 295 artifacts; the majority of which (60%) contained fewer than 200 artifacts. In addition, there are 15 historic location on the current project with fewer than 295 artifacts.

Thanks for your time,

-Brad-

----- Original message -----

From: pastport <pastport@ontario.ca>

Date: 08-10-2015 16:08 (GMT-05:00)

To: "Meicenheimer, Lafe" <Lafe_Meicenheimer@golder.com>

Subject: REVISED REPORT REQUIRED: P457-0008-2015 / *

Dear Lafe Meicenheimer,

The ministry has reviewed the Original report for PIF P457-0008-2015 submitted by you as a condition of your licence. Please refer to the attached letter to see the result of this review.

Please **do not** reply to this e-mail. The message will be undeliverable and we are unable to respond from this address.

If you have any questions about this report email us at:

ArchaeologyReports@ontario.ca

From: [Prowse, Shari \(MTCS\)](#)
To: [Drouin, Bradley](#)
Cc: [Meicenheimer, Lafe; Archaeology \(MTCS\)](#)
Subject: RE: REVISED REPORT REQUIRED: P457-0008-2015 / *
Date: Friday, September 18, 2015 4:12:19 PM

Hi Brad,

It was highlighted as an issue in the review of this report because of the apparent wide range of size of sites that were included this category (as seen with Location 2 (18 m x 31 m -40 artifacts) and Location 25 (130 m x 102 m-1592 artifact) and how the sampling of the refine ceramic sherds and other artifacts may influence the dating of the sites.

Shari Prowse
Archaeology Review Officer
Southwest Region
Archaeology Programs Unit

From: Drouin, Bradley [mailto:Bradley_Drouin@golder.com]
Sent: September 18, 2015 4:00 PM
To: Prowse, Shari (MTCS)
Cc: Meicenheimer, Lafe; Archaeology (MTCS)
Subject: RE: REVISED REPORT REQUIRED: P457-0008-2015 / *

Thank you Shari for getting back to us. We'll work on a more robust definition.

As an aside, could you please clarify as to why defining a large site is only now becoming a requirement. We used the exact same approach on the Belle River Stage 2 report where approximately 20 historic Euro-Canadian sites of similar age of artifact assemblage were recovered and we were not required to define what constitutes a large site.

Furthermore, I've never had to define this in all the work I've completed in Eastern Ontario where 99% of the sites we deal are historic Euro-Canadian.

Any thoughts would be appreciated.

-Brad-

From: Prowse, Shari (MTCS) [mailto:Shari.Prowse@ontario.ca]
Sent: Friday, September 18, 2015 3:47 PM
To: Drouin, Bradley
Cc: Meicenheimer, Lafe; Archaeology (MTCS)
Subject: RE: REVISED REPORT REQUIRED: P457-0008-2015 / *

Hi Brad,

It is not clear how the sites found during the Bell River Wind project assessment are comparable. Are they all the same type of sites and date to the same period? How do these compare to the sites found on the North Kent property? Are they the same ethnic groups (i.e. French?) These areas appear to be far removed from each other and in different environs too. We will require a more substantive argument that incorporates the archaeological data to

demonstrate that they are comparable in a regional context. It will also need to demonstrate that the argument for defining certain sites located by the Belle River assessment as large was appropriate.

As you are aware the size of the site will determine whether or not a sample of refined ceramic sherds can be taken (see Section 2.1.1 Standard 8). As highlighted in point 14 of the review letter, almost every site was reported to be a large site and its collection of refined ceramic sherds was sampled. Point 17 of the review letter also requested information about the sampling strategy for the large sites and how it ensured that the sample collected was representative and sufficient in size keeping in mind that the criteria for Stage 3 assessment is 20 artifacts that date the period of use for the site to before 1900 (see Standard 2.2 1d and Draft Rural Historic Farmstead Bulletin Section 6.1 Page 20 and 6.3 page 21). As such, the report should confirm that the sample collected was proportionately representative of the dating of the site and not just the overall range of dates found at the site.

When the number of artifacts at large site are low, the sampling should ensure that of the datable artifacts including all the datable refined ceramic sherds are collected in order to determine if the threshold of 20 artifacts dating the site to before 1900 applies. This will need to be clear in the report, especially for sites where Stage 3 is not recommended, for example Location 2.

Location 2 which was estimated to be 18 m x 31 m. It was reported to be a large site so it was argued that not all refined ceramic sherds are required to be collected. Of the 41 artifacts observed only a sample of 20 artifacts were collected. The artifacts collected included 13 pieces of glass and 7 refined ceramic sherds. Glass and undecorated ceramic sherds were left behind. It is not clear if the artifacts left behind would have been enough to meet the threshold of 20 artifacts that date the site to before 1900. As such, the report will need to argue that this sample was appropriate. For example, did it include all of the datable artifacts or only a sample of the datable artifacts? Did it include all of the artifacts that would date the site to before the 1900's? Were any of the ceramic sherds left behind datable and, if so, datable before 1900?

Therefore, while you will need to justify why some sites are large and others are not, you will also need to indicate whether or not enough datable refined ceramic sherds and other artifacts were collected for each site to provide the appropriate evaluation of its cultural heritage value and interest. The smaller the number of artifacts present, the more of an issue this may be.

I hope this helps clarify what we are looking for in the report. Get back to me if you require more assistance.

Shari Prowse
Archaeology Review Officer
Southwest Region
Archaeology Programs Unit

From: Drouin, Bradley [mailto:Bradley_Drouin@golder.com]

Sent: September 14, 2015 3:07 PM
To: Prowse, Shari (MTCS)
Cc: Meicenheimer, Lafe
Subject: FW: REVISED REPORT REQUIRED: P457-0008-2015 / *

Hi Shari,

Thanks for taking the time to speak with Lafe and I last week. Further to our call, Lafe and I have worked on defining what constitutes a large site. You had indicated that we should send this to archaeology@ontario.ca but since we are not trying to define what a large site is in general, but rather what constitutes a large site in the context of this project, I'm sending it to you, as the reviewer of the Stage 2 report.

Can you please review and let us know your thoughts. Once this is ironed out then we can complete the remainder of the revisions. The paragraphs speak for themselves but essentially we used our knowledge and experience on previous projects in the general vicinity and the results of this project to come up with the definition.

A speedy response would be appreciate as the client is hoping to submit the draft REA for this project very shortly and the Stage 2 letter is a requirement.

Section to be added to Section 2.2 of the revised Stage 2 report:

The MTCS *Standards and Guidelines* do not provide guidance or direction as to what defines a "large site." As such, professional judgement based on knowledge of similar site types in a similar geographical area have been used and applied for this particular project.

For the purposes of this project, scatters of approximately 295 artifacts or more were considered 'large scatters'. Using 295 artifacts to define a large historic scatter is based on the specific site conditions identified during this project as well knowledge gained during assessments of areas within the general vicinity (Golder 2014 Belle River). During Golder's 2014 assessment of the Belle River Wind Project a total of 17 historic sites were identified, of which only 2 of these sites contained more than 295 artifacts; the majority of which (60%) contained fewer than 200 artifacts. In addition, there are 15 historic location on the current project with fewer than 295 artifacts.

Thanks for your time,

-Brad-

----- Original message -----

From: pastport <pastport@ontario.ca>
Date: 08-10-2015 16:08 (GMT-05:00)
To: "Meicenheimer, Lafe" <Lafe_Meicenheimer@golder.com>
Subject: REVISED REPORT REQUIRED: P457-0008-2015 / *

Dear Lafe Meicenheimer,

The ministry has reviewed the Original report for PIF P457-0008-2015 submitted by you as a condition of your licence. Please refer to the attached letter to see the result of this review.

Please do not reply to this e-mail. The message will be undeliverable and we are unable to respond from this address.

If you have any questions about this report email us at:
ArchaeologyReports@ontario.ca

From: [Prowse, Shari \(MTCS\)](#)
To: [Meicenheimer, Lafe](#); [Drouin, Bradley](#)
Cc: [Archaeology \(MTCS\)](#); [Cappella, Katherine \(MTCS\)](#)
Subject: North Kent Wind Project
Date: Monday, September 28, 2015 4:28:46 PM
Attachments: [Picture \(Device Independent Bitmap\) 1.jpg](#)
[Picture \(Device Independent Bitmap\) 2.jpg](#)

Hi Lafe and Brad,

The primary issues with the report that the review letter was intent on addressing through a revised report include the approach to sampling the assemblages for large sites, the analysis of artifacts, and the determination of the need for Stage 3 assessment. Based on our conversations thus far, it was determined that more elaboration of these points and the specific issues within the report was required.

We offer this in hope that it further clarifies what the revised report will need to address.

1. Sampling of large sites and analysis

Large sites

A number of sites were called large and, as a result, only a sample of RWE (as per Section 2.1 Standard 8) were collected, which did not include any undecorated ceramics. The review letter requested clarification as to how large sites were being defined since there was a wide range of sizes (and artifact yields) being included in this category. I acknowledge that since then we have been provided with some clarification and revisions regarding the approach taken so there are fewer sites that this applies to. For the revised report and for future reference I provide the following guidance which is a FAQ found on our website.

When should a site be considered 'large'?

The meaning of 'large' varies depending on the standard. The term 'large' may apply in terms of area for some standards, but in others it may also apply in terms of associated factors such as complexity or productivity. For example, a site that is relatively small in area but produces several thousand artifacts could be viewed as a 'large' site for some standards.

In the Standards and Guidelines, sites may be considered large in comparison with other sites:

- of similar age
- of similar cultural characteristics
- in the same definable region, or
- at the same stage of assessment.

Where the criteria for application of a standard require that a site be 'large', and the site is not obviously large, a detailed evidence-based argument must be made. The argument must indicate why the site should be considered large within the context of similar sites and if possible, where

similar standards or fieldwork strategies have been applied. If you are uncertain whether to apply standards or criteria relating to large sites, contact the ministry for advice.”

Sampling

The reference in Section 2.1.1 Standard 8 to collecting a sufficient sample should be interpreted using the further guidance provided in the RHF bulletin. This includes:

-“All artifacts should be collected and returned to the lab except for those classes listed in Table 6.2.” (page 18) in order that they be analyzed as a complete assemblage. Discard should take place in the lab. (my underline, a complete assemblage of all artifacts needs to be analyzed)

- “Analysis must be of the complete artifact assemblage, not just one or a few artifact classes” (page 18)
- It is important that “All conclusions (including dating) should be based on analysis of the complete [my underline] artifact assemblage (not just ceramics)” (page 20)
- “Ensure that the sample is large enough to support the conclusions” (page 20)
- “Show that you thoroughly sampled the site but minimal possibilities existed to acquire a larger or better-quality artifact assemblage” (page 20)
- “As a best practice, if you recognize during fieldwork that the site may be marginal in its characteristics, then apply additional efforts to collect a sufficiently large sample of diagnostic artifacts to form the basis for a sound argument” (page 20)
- “An argument for dating, and therefore for the degree of CHVI of a site, must be supported by a substantial artifact assemblage” (page 21)

As indicated above, we expect that the analysis and interpretation of a site be based on the entire assemblage and for sampling of the assemblage for larger sites to follow the direction above. It needs to be demonstrated in the report these principles have been met. Unless there are literally thousands of artifacts, collect them all and analyze them all in order to provide the most solid argument possible on which to base conclusions. The report notes that the undecorated ceramic were left in the field for a number of sites (e.g. Location 2, 4, 7 etc.). These are considered artifacts that can contribute to the analysis and should have been collected as per Section 2.1 Standard 8. Other than situations where there are so many artifacts that collecting any more would be clearly redundant, the only artifacts that should be sampled in the field are those listed in Table 6.2. All other artifact classes have the potential to contribute to an evaluation of the degree of CHVI and to the determination of whether or not to proceed to Stage 3.

Once the analysis is complete the results then must be compared to criteria 1 c and 1d of Section 2.2 to determine the need for Stage 3. Section 2.3 of the RHF bulletin does provide more guidance (see below) to further assess the site to more clearly determine the need for a Stage 3 assessment but it requires analysis of the complete assemblage and Stage 3 level historic background research.

2. Analysis of artifacts

During the review it was observed that the dating of some sites did not consider all artifact classes that are relevant to site dating. Any artifact that could have occurred during the 19th century (including plain RWE) must be included in the count if the analysis of the complete assemblage

produces a date in the 19th century. Plain RWE should be included in any analysis where there is decorated RWE since it is entirely likely that some of that plain RWE is associated with the decorated RWE. The report did not discuss the window glass found for, for example, Location 1 and Location 28. Its thickness can provide information about the date of any associated structure. In another example, the reporting did not discuss decorated RWE (Location 31).

Also, the later range of dating of an artifact was used to date others even though it was not conclusively demonstrate that this should be the case. For Location 1, because glass dating from 1880-1920 was reported to be more common in the 20th c, it was given the 20th c dated even though remainder of the artifacts date to the mid-late nineteenth century.

The same type of argument was used for Location 28. The vitrified white earthenware was given a 19th to early 20th century date and then by extension the site, despite no artifacts in the assemblage being strictly 20th century, and despite the presence of mid nineteenth century or earlier ceramics (RWE flow blue (1), green (2) and blue (1) transfer print and 21 pieces of undecorated RWE) in the collection.

For the revised report would be useful to provide a table for each site in the report showing the ware type by decorative type. As presented, it is not clear what ware types are also decorated which helps to clarify the dating of the sites.

3. Determining the need for Stage 3

When evaluating the need to go to Stage 3 the report references the criteria in Table 3.2 of the 2011 S and Gs, which, however, is the criteria that is use to evaluated a site's need to go to Stage 4 after Stage 3, not after Stage 2.

The report also refers to the "criteria" in Section 2.3 and Section 6 of the RHF but the report does not demonstrate that how[delete] these criteria were applied to each site or if they do apply. Section 2.3 in fact is the direction for further assessment for sites that normally would go to Stage 3 through Standard 2.2 Standard 1 c (have 20 artifacts that date the period of use of the site to the 1900) that could eliminate the need for Stage 3. It is not clear how this was applied to each site as there was no explicit discussion of how this this criteria was met. In fact, for the sites that were sampled in terms of the RWE or undecorated ceramics, Section 2.3 would not apply and the sites would have to go to Stage 3. [also note that 1d of Section 2.2 could also be used to determine the need for Stage 3 assessment].

It is also not clear how Section 6 is applicable as there was no discussion of whether it was met or what part of Section 6 was met. In terms of sample size for large sites, Section 6 (Page 21 of the RHF) indicates that "Later dating sites could be of no further CHVI based on low artifact yields at the conclusion of Stage 2. However, this will only be acceptable where a CSP and/or the full application of Section 2.1.3 have been undertaken with all artifacts collected and analyzed" (page 21 RHF Bulletin, my underlines). The revised report will need to address this.

There were only five historic sites (Locations 3, 7, 9, 16 and 25) out of the 50 that were compared to

the criteria 1c of Section 2.2. This is a requirement. In addition, there was no explicit discussion of how criteria 1d of Section 2.2 applied (or not) to any of the historic sites (background documentation and CHVI). There was some consideration of the historic background and extant and existing structures, even though some were more than ½ a km from the site, but it was not indicated what this suggested about its cultural heritage value and need for Stage 3. The revised report will need to include this.

Review of Belle River Wind project

Concerns about the Belle River Wind project (P311-278-2014, 311-292-2014 and P311-301-2015) not receiving the same reporting comments despite taking a similar approach to artifact sampling, analysis and interpretation were expressed. That report was only subject to a focus review and, as a result, the review did not look at the entire reporting. Please refer to our fact sheet “Archaeology Report Review” on our web site for an explanation regarding the different types of report review.

[http://www.mtc.gov.on.ca/en/archaeology/RptReviewFS-\(2015-09-01\).pdf](http://www.mtc.gov.on.ca/en/archaeology/RptReviewFS-(2015-09-01).pdf)

We understand that receiving the additional guidance regarding artifact sampling, analysis and interpretation may have assisted in reducing the issues identified during the review of the North Kent Wind project, therefore, we are allowing the following exceptions for the North Kent Wind project for those sites and appropriate buffers that can be removed from the Project Location where it is has not already be done.

1. For those sites that will require additional survey to collect the complete assemblage for analysis, or additional analysis to better determine the dating of the site, or Stage 3 assessment, these requirements can be provided as recommendations for additional work for future development in the event the protected area including the site and the buffer will be impacted. If construction impacts associated with this project are to occur within a 50 metre construction monitoring zone, we recommend that construction monitoring take place as per Section 7.8.5, 4.1.1 and 7.10. The recommendations in the report will need to provide both short terms an long term avoidance and protection strategy.

For those sites that cannot be avoided by the Project Location and the construction disturbance area (CDA), the appropriate level of assessment must be carried out according to the RHF and the 2011 Standards and Guidelines. However, any additional survey required to collect the entire assemblage or additional analysis can be done as part of a Stage 3 assessment as opposed to Stage 2. It is recommended that Section 3 of the RHF bulletin be consulted for advice to limit the assessment to what is minimally necessary.

Alternatively, you may decide to carry out the Stage 2 and or Stage 3 assessment and Stage 4

mitigation of these site as required under the 2011 Standards and Guidelines. As always, we are open to providing additional guidance on understanding the assessment requirements and comment on any proposed strategies for limiting additional fieldwork including short-term or long-term avoidance and protection.

If you require further clarification regarding the above, please get back to me.

Shari Prowse, MA
Archaeology Review Officer-Southwest Region
Archaeology Programs Unit, Ministry of Tourism, Culture and Sport
900 Highbury Avenue
London, Ontario N5Y 1A4
Tel: (519) 671-7742

"For current archaeological standards and guidelines, see
www.ontario.ca/archaeologystandards".
<http://www.mtc.gov.on.ca>



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Subject: FW: North Kent Wind 1 Response Approach

From: Arciuch, John (MOECC) [<mailto:John.Arciuch@ontario.ca>]
Sent: Friday, October 02, 2015 3:29 PM
To: Van der Woerd, Mark
Subject: RE: North Kent Wind 1 Response Approach

Thanks.

John Arciuch

From: Van der Woerd, Mark [<mailto:Mark.VanderWoerd@aecom.com>]
Sent: October 2, 2015 2:51 PM
To: Arciuch, John (MOECC)
Cc: Jody Law; 'zAriel Bautista' (ariel.b@samsung.com); zzBea Ashby; Grieve, Becky
Subject: RE: North Kent Wind 1 Response Approach

Hi John,

I hope you are well. I am closing the loop on this. Please find a copy of the letter that you previously requested we send to Sarah Paul attached to this email for your records. We placed it in the mail today.

Please let me know if you have any questions.

Have a great weekend!
Mark

Mark van der Woerd
Senior Consultant, Planning & Community Engagement
Impact Assessment and Permitting Practice - Environment
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October 2, 2015

Ms. Sarah Paul
Director, Environmental Approvals Access and Service Integration Branch
Ministry of Environment and Climate Change
1st Floor, 135 St Clair Ave West
Toronto ON M4V1P5

Dear Ms. Paul:

Subject: Proposed Renewable Energy Project - North Kent Wind 1 Notification of Aboriginal Communities in Accordance with Section 14

North Kent Wind 1 LP, by its general partner, North Kent Wind 1 GP Inc. ("North Kent Wind 1"), a joint venture limited partnership owned by affiliates of Pattern Renewable Holdings Canada, ULC and Samsung Renewable Energy Inc. (the "Developer"), is planning to engage in a renewable energy project for which the issuance of a renewable energy approval ("REA") is required. The wind project is proposed to be located in the Municipality of Chatham-Kent, Ontario.

As part of the approvals process and in accordance with Section 14 of Ontario Regulation 359/09, the Ministry of Environment and Climate Change (MOECC) has provided North Kent Wind 1 with a list of aboriginal communities which have or may have constitutionally protected aboriginal or treaty rights in relation to the proposed North Kent Wind 1 Project (the "Project").

As per your request in your letter dated May 15, 2015, we are writing to notify the MOECC that we have received correspondence from the Haudenosaunee Development Institute (HDI). A copy of the received correspondence has been included with this letter.

Should we receive any future correspondence from First Nation and Aboriginal communities not identified in the Section 14 list, North Kent Wind 1 will notify MOECC.

Sincerely



Mark van der Woerd
Senior Environmental Planner,
AECOM

Enclosures: Letter from Haudenosaunee Development Institute to North Kent Wind 1

CC: John Arciuch, Aboriginal Consultation Advisor, Ministry of the Environment and Climate Change
Ariel Bautista, Project Developer, Samsung Renewable Energy Inc.
Jody Law, Project Developer, Pattern Development
Becky Grieve, Project Manager, AECOM



Haudenosaunee Development Institute

June 5, 2015

Jody Law, Project Developer
Pattern Development
355 Adelaide Street West, Suite 100
Toronto, ON M5V 1S2

Ariel Bautista, Project Developer
Samsung Renewable Energy
2050 Derry Road West, 2nd Floor
Mississauga, ON L5N 0B9

Mark van der Woerd
Senior Environmental Planner
AECOM
45 Goderich Road
Hamilton, ON L8E 4W8

Dear Ms. Law, Mr. Bautista & Mr. Woerd:

**Re: North Kent Wind 1 Project (the “Project”)
Our File No.: 030-179**

We wish to advise that the Haudenosaunee hold rights and interests in the area contemplated by your project including treaty rights documented in the 1701 Treaty of Albany. We also wish to advise that the Project will have a significant impact upon those rights and interests.

We are hereby asking that the North Kent Wind 1 Project commence a meaningful engagement process in relation to the proposed Project.

The process currently initiated by North Kent Wind 1 Project is not capable of upholding the Honour of the Crown and in particular does not provide the Ministry of the Environment and Climate Change (MOECC) with the opportunity to:

- make an assessment of the rights and interests of the Haudenosaunee;
- provide the Haudenosaunee with the opportunity to set out and clarify rights and interests such that the Province of Ontario can provide a complete and fulsome assessment of the rights and interests;
- frame the nature and scope of engagement obligations by way of reference to the assessment of Haudenosaunee rights and interests;

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- provide the Province of Ontario the opportunity to consider justification obligations for infringements of treaty rights;
- provide the Province of Ontario with the opportunity to consider what if any fiduciary obligations are invoked by way of an infringement of Haudenosaunee treaty rights;
- advise what if any procedural aspects of engagement can be delegated to North Kent Wind 1 Project which itself is to be informed by the nature and scope of the engagement required;

We have copied this correspondence to the MOECC and are asking MOECC withhold any approval until we advise that the engagement process with North Kent Wind 1 Project is completed.

Yours truly,



Hazel E. Hill
Director

cc: The Honourable Glen Murray, Minister of the Environment & Climate Change

From: [Prowse, Shari \(MTCS\)](#)
To: [Drouin, Bradley](#); [Meicenheimer, Lafe](#)
Cc: [Archaeology \(MTCS\)](#); [Cappella, Katherine \(MTCS\)](#)
Subject: North Kent Wind Project -exception for P457-0008-2015
Date: Friday, October 02, 2015 10:39:41 AM
Attachments: [Picture \(Device Independent Bitmap\) 1.jpg](#)
[Picture \(Device Independent Bitmap\) 2.jpg](#)

Hi Lafe and Brad,

Further to our conversation yesterday regarding granting an exception to Section 2.1.1 Standard 8 and 9 and the Rural Historic Farmstead (RHF) bulletin Section 5.1 (i.e. requirements for the collection of artifacts in the field at Stage 2) for some sites documented during the North Kent Wind Farm assessment (PIF P457-0008-2015), this email serves to detail what was agreed to.

The exception to collect all artifacts was requested for those smaller Euro-Canadian sites where there with less than 100 artifacts observed in field and 70 % or more were collected. It is our understanding that the artifacts left in the field were analysed and their location recorded and that this data will be used along with the data for the artifacts collected to determine these sites' the cultural heritage value and interest.

We are granting this exception for this project and the sites described above only.

If you have any additional questions regarding the above, please do not hesitate to get back to me.

Shari Prowse, MA
Archaeology Review Officer-Southwest Region
Archaeology Programs Unit, Ministry of Tourism, Culture and Sport
900 Highbury Avenue
London, Ontario N5Y 1A4
Tel: (519) 671-7742

"For current archaeological standards and guidelines, see
www.ontario.ca/archaeologystandards".
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From: [Prowse, Shari \(MTCS\)](#)
To: [Drouin, Bradley](#)
Cc: [Meichenheimer, Lafe](#); [Horne, Malcolm \(MTCS\)](#); [Archaeology \(MTCS\)](#)
Subject: RE: Standard 3.2.1 - request for guidance and input
Date: Tuesday, October 06, 2015 4:16:06 PM

Hi Brad,

I will continue to work with you on this file as I have been the one it was assigned to. I assure you that your project has been receiving my careful consideration and time and will continue to do so why it is needed. I will also continue to consult internally as required when you are requesting deviations or interpretations of the S and Gs as is our process.

We offer you the following guidance regarding your question below:

As per Section 3.2.1 Standard 2, the standard for all sites (small, medium, large) is that the licensee should GPS every artifact or at least every artifact cluster (i.e., if multiple artifacts are very close together such as within less than a half metre of each other, in other words within the degree of error of a typical GPS). If it is a highly diffuse site, this will demonstrate the high degree of diffusion.

Section 3.2.1 Standard 3 only applies to “very large and dense surface scatters”. Based on the information provided there does not appear to be sites that meet these criteria. Some of them are large but none qualify as ‘dense’ – therefore, Standard 3 does not apply. If these sites are not dense then they cannot collect or record by grid units.

-
Things to keep in mind

-
On a large and diffuse site, it is possible that there are in fact multiple components which can only be distinguished by recording each artifact and looking at clustering by date range and any other relevant factors. Individual GPS recordings have to be made to accomplish this.

There are several extremely large (140 X 140, possibly a record) but also very diffuse sites. Is it possible that there are multiple components? If so, the GPS of individual artifacts is necessary to identify the separate components. Is it possible that we are simply seeing long occupied properties with a broad scatter of material that does not represent an occupation but simply a general scatter of refuse?

I trust this is of assistance. If you have any additional questions regarding the above, please do not hesitate to get back to me.

Shari Prowse
Archaeology Review Officer
Southwest Region
Archaeology Programs Unit

From: Drouin, Bradley
Sent: Tuesday, October 06, 2015 2:08 PM
To: 'Archaeology (MTCS)'
Cc: Prowse, Shari (MTCS); Meicenheimer, Lafe
Subject: RE: Standard 3.2.1 - request for guidance and input

Hi Tarah,

The PIF # for this project is P457-0008-2015.

-Brad-

From: Archaeology (MTCS) [<mailto:archaeology@ontario.ca>]
Sent: Tuesday, October 06, 2015 1:59 PM
To: Drouin, Bradley
Cc: Prowse, Shari (MTCS)
Subject: RE: Standard 3.2.1 - request for guidance and input

Hi Brad

What is the PIF number for this project?

Thanks,

Tarah

From: Drouin, Bradley [mailto:Bradley_Drouin@golder.com]
Sent: October-06-15 1:56 PM
To: Archaeology (MTCS)
Cc: Prowse, Shari (MTCS)
Subject: Standard 3.2.1 - request for guidance and input

Hello,

In reviewing Standard 3.2.1 there is no direction on appropriate collection procedures for small and medium sites. Section 3.2.1 Standard 3 outlines that collecting surface artifacts during CSP by 5m grid units is acceptable. However, what is deemed acceptable for small and medium sites?

We currently have a large number of Historic Euro-Canadian sites that all date to the turn of the 20th century. We completed a Stage 2 assessment on these locations where only a sample of artifacts were collected (all diagnostics and a sample of the non-diagnostic and redundant artifacts). It's been indicated through various conversations with the ARO that this approach is not acceptable and that a full collection must be completed. The following table provides details on # artifacts per square metre. As you can see, the artifact scatters are diffuse and collecting them on 1m grids would not provide any meaning information. Based on the results of the original assessment strategy I would propose a methodology of collecting them on 2.5 m grid pattern. This would provide sufficient resolution on density and would fit well should these sites require Stage 3. The artifact density in the right most column is an average but as you can see, these sites are not overly dense.


Project	Site Name	Cultural Affiliation	Total # of artifacts observed during Stage 2 Pedestrian Survey	Distribution of artifacts (Area in m ²)	Artifacts / m ²
North Kent	Location 45	Historic Euro-Canadian	65	828	0.079
North Kent	Location 41	Historic Euro-Canadian	79	410	0.193
North Kent	Location 43	Historic Euro-Canadian	112	2438	0.046
North Kent	Location 01	Historic Euro-Canadian	152	9085	0.017
North Kent	Location 38	Historic Euro-Canadian	167	9579	0.017
North Kent	Location 50	Historic Euro-Canadian	279	14000	0.020
North Kent	Location 28	Historic Euro-Canadian	298	3174	0.094
North Kent	Location 52	Historic Euro-Canadian	350	6750	0.052
North Kent	Location 31	Historic Euro-Canadian	388	5904	0.066
North Kent	Location 12	Historic Euro-Canadian	456	5396	0.085
North Kent	Location 55	Historic Euro-Canadian	459	22176	0.021
North Kent	Location 11	Historic Euro-Canadian	704	7905	0.089
North Kent	Location 42	Historic Euro-Canadian	721	9222	0.078
North Kent	Location 22	Historic Euro-Canadian	757	6600	0.115
North Kent	Location 27	Historic Euro-Canadian	840	6525	0.129

North Kent	Location 35	Historic Euro-Canadian	1000	15000	0.067
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Your timely response would be appreciate as we are in the process of trying to complete the addition fieldwork before the REA submission of the Wind Project which is scheduled for mid-November.

-Brad-

Bradley Drouin (M.A.) | Senior Archaeologist | **Golder Associates Ltd.**

1931 Robertson Road, Ottawa, Ontario, Canada, K2H 5B7 

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From: [Pamela Hammer](#)
To: [Lindenburger, Ruth \(MNRF\)](#)
Cc: [Persaud, Anurani \(MNRF\)](#); [Beal, Jim \(MNRF\)](#); [Andrew Ryckman](#); [Becky.Grieve@aecom.com](#); [Van der Woerd, Mark](#); [Beatrice Ashby](#); [Jody Law](#); [Ariel Bautista](#); "Hi Byun"
Subject: Re: North Kent Wind 1 - SI, EOS, EIS
Date: Wednesday, October 21, 2015 4:15:36 PM
Attachments: [EmailSignature_PamelaHammer.JPG](#)
[NRSI_1612_North_Kent_Wind_Project_EEMP_DRAFT_2015_10_21.doc](#)
[NRSI_1612_North_Kent_Wind_Project_EEMP_DRAFT_2015_10_21_track_change.doc](#)

Hi Ruth,

As requested, attached is the updated EEMP that incorporates the changes made in the EIS with respect to on site speed limits. We have made a slight modification to the wording to be more specific to the operational phase; however, no other changes have been made to the EEMP. To facilitate your review, both a clean and track change version are attached.

Please let me know if you have any questions or concerns.

Thanks,

Pam



On 10/21/2015 8:43 AM, Lindenburger, Ruth (MNRF) wrote:

Hi Pam,

I think it may be best to update the EEMP now. I am not anticipating any comments on the bird and bat portion. The SWH is being addressed in the EIS. We should be able to have the confirmation letters for the document by October 30th.

Thanks,

RL

Ruth Lindenburger
Regional Planner
Regional Resources Section | Southern Region
Ontario Ministry of Natural Resources & Forestry
705-755-1363

From: Pamela Hammer [<mailto:phammer@nrsi.on.ca>]
Sent: October 20, 2015 2:09 PM
To: Lindenburger, Ruth (MNRF)
Subject: Re: North Kent Wind 1 - SI, EOS, EIS

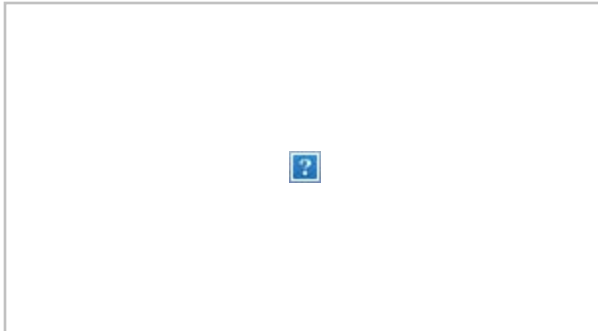
Hi Ruth,

If you think it would be more helpful to you if we update the EEMP now, we are happy to do so. Otherwise, we were planning to re-submit the EEMP after receiving initial

MNRF comments. We would incorporate any MNRF comments, as well as update text regarding on-site speed limits as per the updated EIS into one track changed version. Please confirm your preferred approach and we can update if necessary.

Thank you,

Pam



On 10/20/2015 1:40 PM, Lindenburger, Ruth (MNRF) wrote:

Hi Pam,

I was just wondering, did you want to update the EEMP document that was sent earlier? It is just a thought – it may aid in keeping versions, etc. clear and clean moving forward.

RL

Ruth Lindenburger

Regional Planner

Regional Resources Section | Southern Region

Ontario Ministry of Natural Resources & Forestry

705-755-1363

From: Pamela Hammer [<mailto:phammer@nrsl.on.ca>]

Sent: October 20, 2015 11:32 AM

To: Lindenburger, Ruth (MNRF)

Cc: Beal, Jim (MNRF); Milian, Kazia (MNRF); Persaud, Anurani (MNRF); Andrew Ryckman (aryckman@nrsl.on.ca); Becky.Grieve@aecocom.com; Van der Woerd, Mark; Jody Law; Beatrice Ashby; Ariel Bautista; 'Hi Byun'

Subject: Re: North Kent Wind 1 - SI, EOS, EIS

Good morning Ruth,

Please find attached the 3rd submission of the *North Kent Wind 1 Project: EIS Report* for your review. As there are track changes in this report from the 2nd submission, any new revisions as a result of your most recent comments are highlighted in yellow to facilitate your review. The updated Excel spreadsheet with responses to MNRF comments is also attached.

As mentioned in my email from yesterday, the applicant will require that both the NHA and EEMP confirmation letter be issued by October 30th. Please contact me if you have any questions or concerns as you are reviewing.

Thank you,

Pam



On 10/19/2015 10:23 AM, Pamela Hammer wrote:

Hi Ruth,

Thank you very much for providing your comments. We are in the process of updating the EIS and will re-submit as soon as possible.

I was hoping you could also provide an update on when we can expect to receive MNRF comments/confirmation on the EEMP that was submitted on September 15th. Although very minor updates are expected as a result of changes to the EIS with respect to on-site speed limits, no other changes are expected. We can confirm that the EEMP is a summary of the commitments provided in the EIS, and the detailed post-construction mortality monitoring section has been prepared in accordance with MNRF's Bats and Bat Habitats: Guidelines for Wind Power Projects (July 2011) and MNRF's Birds and Bird Habitats: Guidelines for Wind Power Projects (December 2011).

In order to meet the REA submission date for the Project, the applicant will require that both the NHA and EEMP confirmation letter be issued by October 30th. I have also confirmed that the confirmation letter should be addressed as follows:

Mr. Colin Edwards, Director,
Mr. Lee Jeong Tack, Director
North Kent Wind 1 LP, by its general partner

North Kent Wind 1 GP Inc.
2050 Derry Road West 2nd Floor
Mississauga, ON L5N 0B9

Please let me know if you have any questions or concerns.

Thank you,

Pam



On 10/8/2015 9:50 AM, Lindenburger, Ruth (MNRF) wrote:

Hello Pam,

We have reviewed the SI and EOS. The documents look good and can be considered finalized. We have provided two comments with regard to the EIS (see attached spreadsheet). I have begun to draft the confirmation letter. Could you please provide me with the applicants name and address? I suspect that we should be able to move through to finalizing the EIS and providing confirmation quickly.

Please call or email if you have any questions.

Thank you,
Ruth

Ruth Lindenburger
Regional Planner
Land Use Planning Unit † Regional Resources Section
† Southern Region
Ontario Ministry of Natural Resources & Forestry
300 Water Street Peterborough, ON K9J 6Y3
705-755-1363

From: [Prowse, Shari \(MTCS\)](#)
To: [Drouin, Bradley](#)
Cc: [Meichenheimer, Lafe: Archaeology \(MTCS\)](#)
Subject: RE: North Kent Wind Project - artifact re-collection - P457-0008-2015
Date: Wednesday, October 21, 2015 2:47:57 PM

Hi Brad,

If intensification around artifact locations was at a 1 metre interval for 20 metres around artifact locations as required by Section 2.1.1 Standard 7, and collection met Standard 8 of that section, and the CSP met Section 3.2.1, this data can be used to supplement what was already found to address the deficiencies of the previous CSP.

Thanks Brad,

Shari Prowse
Archaeology Review Officer
Southwest Region
Archaeology Programs Unit

From: Drouin, Bradley [mailto:Bradley_Drouin@golder.com]
Sent: October 20, 2015 3:07 PM
To: Archaeology (MTCS); Prowse, Shari (MTCS)
Cc: Meichenheimer, Lafe
Subject: RE: North Kent Wind Project - artifact re-collection - P457-0008-2015

Hi again Shari,

I realize I sent the below e-mail only yesterday but was wondering when you might be able to provide some guidance. The fields assessed were weathered sufficiently but I want to get confirmation that we are good reporting on what was found....as that's all that was present and exposed.

-Brad-

From: Drouin, Bradley
Sent: Monday, October 19, 2015 2:57 PM
To: Archaeology@Ontario.ca; Prowse, Shari (MTCS) (Shari.Prowse@ontario.ca)
Cc: Meichenheimer, Lafe
Subject: North Kent Wind Project - artifact re-collection - P457-0008-2015


Hello Shari,

As I mentioned in previous conversations we have taken the route to re-assess a number of the locations on the North Kent Wind Project until we get clarification on our large site definition. As somewhat anticipated, we have not re-located the exact same number of artifacts that we originally did in the Stage 2 assessment earlier this spring.

Visibility is 80%+ and the fields have been allowed to properly weather (at least one hard rain). To date Lafe and the crew have re-assessed three locations. All three of which have resulted in the re-collection of approximately 50% of the original un-retained assemblage. As we have followed MTCS standards on conducting pedestrian survey are we good to report on the information that we have and incorporate that data into what was collected previously.

-Brad-

Bradley Drouin (M.A.) | Senior Archaeologist | **Golder Associates Ltd.**

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From: [Van der Woerd, Mark](#)
To: [Jessica Schnaithmann](#)
Cc: "zAriel Bautista" (ariel.b@samsung.com); [AshbyBeatrice](#); [Jody Law](#); [Grieve, Becky](#)
Subject: RE: North Kent Wind Project - Meeting Minutes
Date: Thursday, October 22, 2015 12:13:37 PM

Hi Jessica,

Thank you for your response and providing additional information about the potential permitting requirements for the Project. We are continuing with our environmental studies / investigations which will inform the final project layout and confirm the need for and location of properties requiring permits. We will keep you updated as we move forward and be in contact if we have further questions.

Thanks again for your help to date.

Cheers,
Mark

Mark van der Woerd
AECOM | mark.vanderwoerd@aecom.com
P: 905.390.2003 | C: 289.439.9803

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From: Jessica Schnaithmann [<mailto:Jessica.Schnaithmann@ltvca.ca>]
Sent: Wednesday, October 21, 2015 11:01 AM
To: Van der Woerd, Mark
Cc: 'zAriel Bautista' (ariel.b@samsung.com); [AshbyBeatrice](#); [Jody Law](#); [Grieve, Becky](#)
Subject: RE: North Kent Wind Project - Meeting Minutes

Hi Mark,

As discussed in September, please find maps attached of the proposed work areas that may be within the regulated area. Please note that the regulated limit on the maps is draft and a site visit may be required to determine if the drains are tiled rather than open. I can confirm that regulated limit for municipal drains is 30 metres from the centre of the drain.

If you require any further information, please let me know. Thank you for your patience and I apologize for the delay in getting this information to you.

Thanks,

Jessica

Jessica Schnaithmann, B.Sc.

Regulation & Planning Technician

From: Van der Woerd, Mark [<mailto:Mark.VanderWoerd@aecom.com>]
Sent: Tuesday, August 18, 2015 5:18 PM
To: Jessica Schnaithmann
Cc: 'zAriel Bautista' (ariel.b@samsung.com); AshbyBeatrice; Jody Law; Grieve, Becky
Subject: RE: North Kent Wind Project - Meeting Minutes

Hi Jessica,

Thanks for your response and for providing us with clarification on the meeting minutes as well as additional information about LTVCA's guidelines and regulations.

Since we met, we have developed a project layout that we would like to review with you. We were wondering if you might have availability over the next couple of weeks to review our draft layout and then have another meeting to discuss requirements for conservation authority permits and, in particular, turbines and project infrastructure constructed within the floodplain. Could you let us know some potential dates and times that would work best for you? Please find a draft site plan attached to this email for review. We would ask that you treat this map as confidential until September 2nd when it will be released to the public.

Please let us know if you have any questions. We look forward to meeting again.

Cheers,
Mark

Mark van der Woerd
AECOM | mark.vanderwoerd@aecom.com
P: 905.390.2003 | C: 289.439.9803

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From: Jessica Schnaithmann [<mailto:Jessica.Schnaithmann@ltvca.ca>]
Sent: Thursday, July 30, 2015 2:35 PM
To: Van der Woerd, Mark
Cc: 'zAriel Bautista' (ariel.b@samsung.com); AshbyBeatrice; Jody Law; Grieve, Becky
Subject: RE: North Kent Wind Project - Meeting Minutes

Hi Mark,

Thank you for sending me the minutes. My apologies for the delay in a response - it has been busy. Just a small correction in the minutes. In section 4. please clarify that the timeline for the permit begins at the time the permit is signed by our office, not from when construction begins. Each site will need to be reviewed to determine exact the setback requirements for drains. The setback would be a combination of the 3:1 Stable Slope Allowance and a 10 metre Erosion Allowance. I will still need to follow-up with the action items for section 5 and 6.

Hope you are enjoying your summer as well.

If you have any questions please do not hesitate to contact me.

Thanks,

Jessica

Jessica Schnaithmann, B.Sc.

Regulation & Planning Technician

From: Van der Woerd, Mark [<mailto:Mark.VanderWoerd@aecom.com>]
Sent: Wednesday, June 17, 2015 2:02 PM
To: Jessica Schnaithmann
Cc: 'zAriel Bautista' (ariel.b@samsung.com); AshbyBeatrice; Jody Law; Grieve, Becky
Subject: North Kent Wind Project - Meeting Minutes

Hi Jessica,

I hope all is well and that you are enjoying your summer so far. Thanks again for taking the time to meet with us to discuss the North Kent Wind project in April. Attached to this email are minutes from our meeting. We recognize that some time has passed since we met, but we want to ensure our consultation documentation is accurate and appropriately records our conversation. Could you please review the minutes and let us know if you have any comments?

As discussed, we will provide you with further information about the Project once it is available. In the meantime, if you have any questions please do not hesitate to give me a call.

Have a great day,
Mark

Mark van der Woerd

Senior Consultant, Planning & Community Engagement

Impact Assessment and Permitting Practice - Environment

AECOM | www.aecom.com

mark.vanderwoerd@aecom.com | P: 905.390.2003 | C: 289.439.9803

45 Goderich Road, Suite 201, Hamilton, ON L8E 4W8

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North Kent Wind Communication Record

Date October, 22, 2015 Time 1:28pm

Between Zeljko Romic and Adam Wright
Senior Program Support Coordinator, Service Integration
Environmental Approvals Access and Service Integration Branch (EAASIB), Ministry
of the Environment and Climate Change (MOECC)
Environmental Planner, North Kent Wind 1
AECOM

Method of Communication: Telephone Meeting

Telephone # 416-314-8204 Project # 60343599

Email Address zeljko.romic@ontario.ca

Home Address 2 St. Clair Ave W. 12a Floor Toronto, Ontario, M4V 1L5

Subject Confirm location of REA Checklist / Application on MOECC website

Commitments Made N/A

Follow-up Required Yes No

PLEASE NOTE: If this communication record does not agree with your records of the meeting, or if there are any omissions, please advise. Otherwise it will be assumed that the contents of this record are correct.

Comments

On October 22nd 2015 Adam Wright called Zeljko Romic to confirm the website location of the most recent versions of the O.Reg 359/09 REA Checklist and Application form. Zeljko replied to Adam's voicemail and provided mapping to the most recent versions of the REA Checklist and Application forms on the MOECC website.

Adam confirmed that the correct location was used for obtaining the O.Reg 350/09 REA Checklist and Application forms and that these documents have been used for submission to the MOECC.

Subject: FW: follow-up to your voicemail

From: Romic, Zeljko (MOECC) [<mailto:Zeljko.Romic@ontario.ca>]

Sent: October-23-15 10:24 AM

To: Beatrice Ashby (b.ashby@samsung.com) (b.ashby@samsung.com) (b.ashby@samsung.com)

Subject: follow-up to your voicemail

Hi Bea,

Since Armow is an approved project, it's within the jurisdiction of the Director of the Environmental Approvals Branch (Kathleen Hedley). It may also be worth c.c.'ing the signing Director Mohsen Keyvani.

Hedley, Kathleen

Phone: 416-314-7288 **Fax:** 416-314-8452 **Email:** kathleen.hedley@ontario.ca

Address:

Kathleen Hedley
Director - ENVIRONMENTAL APPROVALS BRANCH
1st Flr
135 St Clair Ave W
Toronto ON M4V1P5

Re: REA checklist...yes, the version posted on the website is current, but of course, during the review of an application the MOECC may ask for additional clarification and/or information related to specific projects that may not necessarily be in the checklist.

Thanks,

Zeljko Romic | Senior Program Support Coordinator| Service Integration | Environmental Approvals Access and Service Integration Branch | [Ministry of the Environment and Climate Change](#)
135 St. Clair Ave W., Toronto, Ontario | Phone: 416-314-8204 | zeljko.romic@ontario.ca

From: [Lindenburger, Ruth \(MNRF\)](#)
To: phammer@nrsl.on.ca
Cc: [Beal, Jim \(MNRF\)](#); [Persaud, Anurani \(MNRF\)](#); [Milian, Kazia \(MNRF\)](#); [Andrew Ryckman \(aryckman@nrsl.on.ca\)](mailto:aryckman@nrsl.on.ca)
Subject: North Kent EIS
Date: Monday, October 26, 2015 1:39:28 PM

Hi Pamela,

Further to our conversation. The changes to the EIS look good. Please add the colonially-nesting breeding bird habitat to table 13 (summary of post construction monitoring commitments) and update the timing of the survey as discussed. Once these changes have been completed. The EIS can be merged with the RR, SI and EOS and sent to me. I will then use the date of the completed document (all four reports) for the confirmation letter.

Thank you,
RL

Ruth Lindenburger

Regional Planner
Land Use Planning Unit | Regional Resources Section | Southern Region
Ontario Ministry of Natural Resources & Forestry
300 Water Street Peterborough, ON K9J 6Y3
705-755-1363

From: [Pamela Hammer](#)
To: [Ruth Lindenburger](#)
Cc: [Persaud, Anurani \(MNRF\)](#); [Kazia Milian](#); [Jim Beal \(MNRF\)](#); [Andrew Ryckman](#); [Becky.Grieve@aecom.com](#); [Van der Woerd, Mark](#); [Jody Law](#); [Beatrice Ashby](#); [Ariel Bautista](#); "Hi Byun"
Subject: North Kent Wind 1 Project; Final NHA Submission
Date: Monday, October 26, 2015 5:28:22 PM
Attachments: [EmailSignature_PamelaHammer.JPG](#)

Hi Ruth,

As requested, the final compiled NHA Reports have been loaded to our sharing site. Please note that due to the size of the SI Report, I had to separate the report/maps and Appendix I into two separate PDFs. Please let me know if you have trouble downloading from our sharing site.

To access the files, please click the following link <https://portal.nrsi.on.ca/public.php?service=files&t=0cb951a9802d27abdb6edf0a2d12d975> and enter the password "NKWINHA" when prompted.

Below is a brief summary of the final changes made to the NH Reports as per our discussion today.

1. Records Review - Report submission date changed to today
2. Site Investigation - Report submission date changed to today
3. Evaluation of Significance - Report submission date changed to today
4. Environmental Impact Study:
 - Colonially-nesting breeding bird habitat added to Table 13 Summary of Post-Construction Monitoring Commitments (as identified in the Tables occurring earlier in the report).
 - Updates to timing of colonially-nesting breeding bird habitat surveys in Table 10 Summary of Pre-Construction Monitoring Commitments (as identified in the Tables occurring earlier in the report)
 - Report submission date changed to today

If you have any questions on the reports or any of the information provided above, please don't hesitate to let me know.

Thanks,

Pam

--



From: [Sherratt, Jim \(MTCS\)](#)
To: [Drouin, Bradley](#); [Cappella, Katherine \(MTCS\)](#)
Cc: [Archaeology \(MTCS\)](#); [Meichenheimer, Lafe](#); [Horne, Malcolm \(MTCS\)](#)
Subject: RE: Definition of large sites - clarification and input.
Date: Monday, October 26, 2015 2:03:38 PM

Hi Brad,

I am a little unclear about the question as whether it is a large site is not one of the factors for determining if a site will require further assessment. I understand there has been some discussion about this matter among a number of staff. Malcolm has provided the following which is consistent with our interpretation:

The key to Section 2.1.1 Standard 8 is collecting “a sufficient sample to form the basis for accurate dating”. Based on our understanding, almost all these sites would qualify for Stage 3 on the basis of Section 2.2 Standard 1c, even given the partial collections since their date range begins in the mid- to late- 19th century.

It is also our understanding that the licensee is recommending no further CHVI after Stage 2 for sites that date to the 19th century. There are two alternatives for doing so: 1) it doesn't meet Section 2.2 Standard 1c, as per their stated date ranges and quantities of artifacts that is not possible; or, 2) or follow alternative strategies or approaches as discussed in Sections 2.2 and 2.3 of the RHF Bulletin.

To recommend no further CHVI using the RHF Bulletin, A licensee must meet certain requirements (which does not appear to be the case), as follows:

- For Section 2.2 and 2.3 (page 10), it is clearly stated (twice) that in the case of the alternative approach that a recommendation of no further CHVI must be supported by “an analysis of the complete artifact assemblage” and “an analysis of the total artifact assemblage”. This should be interpreted as all the artifacts that are available from the required archaeological fieldwork, which is reinforced by the statement in the RHF Bulletin (page 9) for a CSP in Stage 2 that it “requires recovering *all* artifacts”.
- Section 2.3 specifically states that (unless it doesn't meet Section 2.2 Standard 1c) a recommendation of no further concerns must be based on a CSP according to Section 3.2.1. Standard 5 for CSPs clearly requires that all refined ceramic sherds must be collected, so these must all be collected. The complete artifact assemblage should be analysed that were part of the CSP.

When asked for our interpretation, the following FAQ is provided:

How do I determine whether to collect artifacts from a site that is identified during Stage 2 pedestrian survey?

The minimum requirements for collection are found in Section 2.1.1 Standards 8 and 9.

Standard 8 provides guidance specific to 19th century sites. Standard 9 provides guidance for other sites and states, “based on professional judgment, strike a balance between gathering enough artifacts to document the archaeological site and leaving enough in place to relocate the site if it is necessary to conduct further assessment.”

It should only rarely be necessary to leave artifacts in the field. Collect all artifacts unless it is clearly essential to leave artifacts to assist in relocating the site. The rationale for leaving artifacts must be clearly stated in the report. Rather than leave artifacts, site locations should be recorded by the best available means (e.g., GPS, mapping identifying features) and locations marked (e.g., flags, flagging tape).

I hope this helps.

Jim

Jim Sherratt
Team Lead- Archaeology
Archaeology Program Unit | Programs and Services Branch
Ministry of Tourism, Culture and Sport
401 Bay Street Suite 1700
Toronto, Ontario M7A 0A7
416-314-7132
Jim.Sherratt@ontario.ca


From: Drouin, Bradley [mailto:Bradley_Drouin@golder.com]
Sent: October-23-15 2:14 PM
To: Cappella, Katherine (MTCS); Sherratt, Jim (MTCS)
Cc: Archaeology (MTCS); Meicenheimer, Lafa
Subject: RE: Definition of large sites - clarification and input.

Thank you Katherine and Jim.

I'm sure Katherine has briefed you on this but I just wanted to pass along that this is very time sensitive. Our client is hoping to submit the REA on November 20th. Your response will determine our next steps which would need to happen next week for the client to keep their schedule.

Anything you can do is greatly appreciated. I'm available to discuss should you require further information.

-Brad-

Bradley Drouin (M.A.) | Senior Archaeologist | **Golder Associates Ltd.**
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BDrouin@golder.com | www.golder.com

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From: Cappella, Katherine (MTCS) [mailto:Katherine.Cappella@ontario.ca]
Sent: Thursday, October 22, 2015 11:43 AM
To: Sherratt, Jim (MTCS)
Cc: Drouin, Bradley
Subject: RE: Definition of large sites - clarification and input.

Hi Brad,

Apologies for the delay in responding, I was out of the office yesterday.

Jim Sherratt (who is now back in the position of Team Lead here) will be responding to your inquiry. I touched base with Jim this morning and he will be providing a response shortly.

Jim, please see Brad's email below.

Thanks,

Katherine

From: Drouin, Bradley [mailto:Bradley_Drouin@golder.com]
Sent: October-20-15 2:53 PM
To: Cappella, Katherine (MTCS)
Subject: RE: Definition of large sites - clarification and input.

Thanks Katherine. Any updates? I understand that others have gotten involved which may have an impact on the timing but client REA submission deadlines are looming.

All the best,

-Brad-

From: Cappella, Katherine (MTCS) [<mailto:Katherine.Cappella@ontario.ca>]
Sent: Thursday, October 15, 2015 11:44 AM
To: Drouin, Bradley
Subject: RE: Definition of large sites - clarification and input.

Hi Brad,

We are working on our response. We will provide a response by next week. The response may come from me or Jim Sherratt. Blair Rohaly (our manager) has returned from his leave and Jim is now back in the position of Team Lead.

Sincerely,

Katherine Cappella
Archaeology Programs Unit
Programs and Services Branch | Ministry of Tourism, Culture and Sport
Archaeology@ontario.ca
Tel: 416-314-7143
www.ontario.ca/archaeology

From: Drouin, Bradley [mailto:Bradley_Drouin@golder.com]
Sent: October-13-15 4:06 PM
To: Cappella, Katherine (MTCS); Archaeology (MTCS)
Cc: Meichenheimer, Lafe; Prowse, Shari (MTCS); Horne, Malcolm (MTCS)
Subject: RE: Definition of large sites - clarification and input.

Hi Katherine,

I was wondering if you have made any progress on reviewing our definition of a large site. This is a time sensitive matter and any help you can provide in getting this sorted is appreciated.

All the best,

-Brad-

From: Cappella, Katherine (MTCS) [<mailto:Katherine.Cappella@ontario.ca>]

Sent: Wednesday, October 07, 2015 4:48 PM

To: Drouin, Bradley; Archaeology (MTCS)

Cc: Meicenheimer, Lafe; Prowse, Shari (MTCS); Horne, Malcolm (MTCS)

Subject: RE: Definition of large sites - clarification and input.

Hi Brad,

Thank you for your email. I will review the information you've provided and get back to you. I will likely be able to get back to you sometime next week.

Sincerely,

Katherine Cappella

A/Team Lead | Archaeology Programs Unit

Programs and Services Branch | Ministry of Tourism, Culture and Sport

Archaeology@ontario.ca

Tel: 416-314-7143

www.ontario.ca/archaeology

From: Drouin, Bradley [mailto:Bradley_Drouin@golder.com]

Sent: October-07-15 4:39 PM

To: Archaeology (MTCS)

Cc: Meicenheimer, Lafe; Prowse, Shari (MTCS); Cappella, Katherine (MTCS); Horne, Malcolm (MTCS)

Subject: Definition of large sites - clarification and input.

Hello,

The following e-mail provides rationale for the definition of large sites for the North Kent Wind 1 Stage 2 project being completed under PIF457-0008-2015. I would appreciate a review and comment on this as it affects our reporting.

The intent is to use this definition in the Stage 2 report and to get confirmation that our sampling strategy is sufficient to make a determination as to whether specific sites on the North Kent Wind 1 project require Stage 3 assessments. We have completed additional archival research to add as much information as possible to the collected and analyzed artifact assemblage.

Defining Large Sites

A number of different criteria can be used when determining when a site can be considered large. When making a determination as to whether a site is considered large, it should be compared to other sites of similar age, similar cultural origin, located in the same or similar definable geographical or environmental region and be at the same stage of assessment. Large sites may be large for a number of different reasons. Sites may be determined to be large based on the total number of artifacts identified in the

field, total horizontal distribution area of the artifacts and others factors such as site complexity. In order to fully understand the context in which the North Kent Wind 1 (NKW1) historic locations were identified within and to aid in determining whether a site met the criteria for being large, analogous sites located within the same project study area and within the same geographical region were used for comparison. A total of 31 historic Euro-Canadian locations were identified during the Stage 2 pedestrian survey for the NKW1 project. The overall collective date for all 31 locations is approximately from the mid-late nineteenth century to the early twentieth century. In addition to NKW1, The Belle River Wind Project (BRW), which is located 30 km to the southwest of the NKW1 project area, was the closest project which contained sites of similar age, cultural affiliation and the same general region. The Stage 2 assessment for BRW resulted in the identification of 15 historic Euro-Canadian locations all dating to between the mid -late nineteenth century into the early twentieth century. In addition to the BRW project, Golder reviewed other available documentation on known historic Euro-Canadian homestead sites within the same general geographical location. The results of this review provided no further analogous locations.

The historic Euro-Canadian sites identified on BRW were used in this comparison as they represent the closest large sample of analogous sites within close proximity to the NKW1 project study area (the study areas are only 30km from one another). Both the BRW and NKW1 study areas are located within close proximity to Lake St. Clair and both have very similar histories in terms of rural development and settlement.

For BRW, the Geographic Townships of Maidstone, Rochester and Tillbury were first settled in the early to mid-nineteenth century with small towns developing at the main cross roads and farmsteads situated within close proximity to concession roads on the various lots within the surrounding landscape (Golder, Belle River Stage 1 report 2014). In comparison, the NKW1 Geographic Townships of Chatham and Dover were also primarily settled in the early to mid-nineteenth century with small towns developing at the cross roads and farmsteads situated along concession lines in the surrounding area (Golder, 2015). The following table provides a brief comparison of site attributes for both BRW and NKW1 (see attached table).

	Belle River Wind	North Kent Wind
Total Historic Euro-Canadian Sites	15	32
Max Artifact Count	1,162	1,592
Minimum Artifact Count	37	41
Mean Artifact Count	239	428
Median Artifact Count	151	298
Maximum Area in m2	9177	29070
Minimum Area in m2	1472	410
Mean Area in m2	5097	8748
Median Area in m2	4845	6750

Overall, the sites on NKW1 were larger than those identified on BRW, and when comparing the larger sites on both BRW and NKW1 it is evident that the larger BRW sites are generally smaller than those sites on the larger side for NKW1. When reviewing total artifact counts, only one BRW site has more than 700 artifacts (Location 15 with 1,162 artifacts), while nine NKW1 sites have more than 700 artifacts (see attached table). Furthermore, when examining sites on NKW1, there appears to be a large jump in total artifact number from those sites with less than 700 artifact to those with 700 or more artifacts. Locations 12, 14, 16, 23 and 55 have artifact counts that range from 405 to 476. The total number then jumps to over 700 with Location 11 containing 704, Locations 42 with 721, Location 09 with 743 then Location 22 with 757. The percent increase is approximately 33% - a significant increase compared to other increases in NKW1. Hence 700 artifacts was chosen as the cutoff for defining large sites on the NKW1 project.

If the total area of distributed artifacts is used as a variable in comparing the historic Euro-Canadian Sites from both study areas than a similar result is observed. There are no sites within BRW that have a total horizontal artifact distribution of over 10,000m² whereas 10 of the 32 NKW1 sites have a total horizontal distribution of 10,000m². Of these 10 locations, seven have greater than 700 artifacts.

The information presented above is meant to provide a broad context to criteria used and rationale for defining what constitutes a large site on the North Kent Wind 1 Project. Each Location that has been determined to be large will be further detailed in the Stage 2 report

In addition to Belle River, Golder completed a Stage 2 assessment for a proposed subdivision development in Leamington, Ontario under PIF364-0035-2013. The Stage 2 fieldwork was completed in November 2013 and resulted in the identification of nine archaeological locations. Of these, Locations 1 and 3 were Historic Euro-Canadian sites. Location 3 was recommended for no further work while Location 1 was not recommended for Stage 3.

A total of 700 artifacts were observed during the Stage 2 pedestrian survey. Of these 700 artifacts, 492 historic Euro-Canadian artifacts were collected with the remaining left in the field. The Wording in the report for the sampling strategy is as follows:

“Approximately 700 artifacts were observed during the assessment of which a total of 494 artifacts were retained for laboratory analysis, including all refined ceramic sherds, formal artifact types and diagnostic categories and all pre-contact Aboriginal artifacts”. The sampled artifact assemblage was used to date the site to post 1900. The material collected is comparable to the material collected for the large sites identified during the Stage 2 of the North Kent Wind 1 project.

It should be clearly noted that this report and all recommendations were deemed compliant by the MTCS in March 2015.

Based on the available information from analogous sites within the general vicinity, it is in our professional judgment that 700 artifacts be used to define large sites on the North Kent Wind 1 project. In doing so, the sampling strategy employed on the NKW1 Stage 2 assessment should be deemed sufficient, along with the additional archival research, to make sound determinations as to whether these large sites require further assessment in the form of a Stage 3 assessment.

If the MTCS is not satisfied with the above, I would like clarification as to why and why the Stage 2 assessment completed under PIF364-0035-2013 was deemed compliant when they used a sampling strategy which, as of right now, has been deemed to not conform to the Standards and Guidelines on the NKW1 project.

A timely response would be greatly appreciated as we are trying to sort out revisions and any possible fieldwork that might come out of this.

Thank you for your time and all the best,

-Brad-

Bradley Drouin (M.A.) | Senior Archaeologist | **Golder Associates Ltd.**

1931 Robertson Road, Ottawa, Ontario, Canada, K2H 5B7 

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Wong Ken, Michelle

Subject: FW: North Kent Wind 1 Project - Floodplain Follow-up
Attachments: Figure 2-1 Project Location (2015.07.30)(1).pdf

From: Dallas Cundick [<mailto:dcundick@scrca.on.ca>]
Sent: Wednesday, October 28, 2015 11:40 AM
To: Van der Woerd, Mark
Subject: North Kent Wind 1 Project - Floodplain Follow-up

Hi Mark,

I discussed floodplain mapping and assessment with the SCRCA Manager of Water Resources and he provided the following response.

The existing HEC-RAS model was created in 2006 based on DEM of 1980's. The accuracy of this model on a site specific basis is questionable. We are in the process of creating new DEM model for the watershed using the Lidar data of 2010. This is a work in progress, SCRCA staff, if requested, can provide you with a DEM (draft version without any validation) for this site. However, we recommend that North Kent Wind 1 Project perform a site specific survey to verify the accuracy of this model and carry out a floodplain assessment on your site.

Please do not hesitate to contact Girish in regard to the above.

Girish Sankar, M.A.Sc., P.Eng. n
Manager of Water Resources
Girish Sankar gsankar@scrca.on.ca

Thanks

Dallas

From: Van der Woerd, Mark [<mailto:Mark.VanderWoerd@aecom.com>]
Sent: August-18-15 5:12 PM
To: Dallas Cundick <dcundick@scrca.on.ca>
Cc: 'zAriel Bautista' (ariel.b@samsung.com) <ariel.b@samsung.com>; Grieve, Becky <Becky.Grieve@aecom.com>; Jody Law <jody.law@patternenergy.com>; Beatrice Ashby <b.ashby@samsung.com>
Subject: RE: North Kent Wind 1 Project - Pre-Consultation Meeting Follow-up

Hi Dallas,

I hope you are having a great summer. Thank you for providing us with additional information about SCRCA's guidelines and regulations.

Since we met, we have developed a project layout that we would like to review with you. We were wondering if you might have availability over the next couple of weeks to review our draft layout and then have another meeting to discuss requirements for conservation authority permits and in particular, turbines and project infrastructure constructed within the floodplain. Could you let us know some potential dates and times that would work best for you? Please find a draft site plan attached to this email for review. We would ask that you treat this map as confidential until September 2nd when it will be released to the public.

Please let us know if you have any questions. We look forward to meeting again.

Cheers,
Mark

Mark van der Woerd

Senior Consultant, Planning & Community Engagement

Impact Assessment and Permitting Practice - Environment

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From: Dallas Cundick [<mailto:dcundick@scrca.on.ca>]

Sent: Monday, July 06, 2015 3:53 PM

To: Van der Woerd, Mark

Subject: North Kent Wind Project - Pre-Consultation Meeting Follow-up

Hello,

For the attached minutes of meeting I wanted to provide the following preliminary comments for discussion and your information.

These are general discussion points, this is not a complete list, and we reserve the right to require additional information upon receipt and review of the permit application, and information noted below. Upon receipt of the below information and the permit application the CA could require further technical assessments to fill gaps in application.

Upon receipt of the aforementioned technical information and information listed below under application requirements, the CA's requirements for a complete application may alter.

Standard Application Requirements

- Complete Application Form, form can be found at the following link;
 - http://www.scrca.on.ca/wp-content/uploads/2013/05/Regs_DIWASW_Form.pdf
- Application form must be signed by the landowner or alternatively a Landowner Authorization Form can be signed to allow an agent to act on behalf of the landowner, form can be found at the following link; The Authority requires landowner authorization before it can issue permits.
 - http://www.scrca.on.ca/wp-content/uploads/2013/10/Regs_LandownerAuth_Form.pdf
- General Application requirements;
 - Site plan/Grading Plan;
 - Detailed drawings and plans of all structures/works;
 - Construction details and methods for the proposed development;
 - Drainage details before and after development;
 - A complete description of any fill placement/removal, the type of fill proposed (soil report) to be placed/removed/re-graded;
 - Rehabilitation/stabilization plan;
 - Erosion and Sediment Control measures to be implemented;
 - Timing of the proposed works;
 - Location of placement of excess fill (if any);

Development within the Regulated Area of the Authority (Turbine Construction Within Estimated Engineered Floodplain)

NOTE: SCRCA has not had a chance to review in detail the proposed turbines that are located within the estimated engineered floodplain. Authority staff will review in detail and provide further comments in regard to requirements for Turbines constructed within the floodplain. The below information is to make you aware of potential requirements for floodproofing only.

Staff of the SCRCA will review development sites in detail once information is received and let you know as soon as possible which sites the SCRCA has concerns with in regard to development, and which require site visit and/or floodproofing etc.

The SCRCA understands that turbines are required to be located within the hazard (Authority's estimated engineered floodplain). The SCRCA understands that the turbines are generally located on the outer limits of the estimated engineered floodplain a significant distance from the associated watercourses.

The Authority's estimated engineered floodline mapping was derived from coarse 1:10,000 OBM mapping obtained in the 1980's. As mentioned above, this floodplain analysis depicts some turbine locations as being floodprone under Regional storm conditions. The regional storm flooding event is equivalent to flooding that would be expected during a Hurricane Hazel storm event.

The Authority's preferred option for development at these locations is to complete a detailed Regional/1:100 year floodline mapping study to establish a building envelope for the turbines outside the Regional flood level. The Regional flood level is the regulatory standard at this location.

Alternatively, the proposed turbines at the subject location may be permitted if it has been demonstrated to the satisfaction of the Conservation Authority that the control of flooding, erosion, pollution, or the conservation of land will not be affected, and any potential for flood susceptibility/flood damages to the structure are minor and mitigated.

It may be possible (to be determined after more detailed review) that the Authority's natural hazard concerns (flooding etc.) in the subject locations can potentially be adequately addressed by ensuring that the structures are floodproofed to an elevation above the estimated engineered floodplain (to ensure that the structure and its contents are not impacted by potential large scale flood events), The Authority recommends that only non-deleterious materials (i.e. concrete, etc.) are used below the estimated engineered floodplain, and that all utilities (electrical/mechanical etc.) are elevated and floodproofed to a level above the estimated engineered floodplain.

Once the SCRCA has a chance to review the locations of the proposed turbines in detail it will respond with further requirements. The Authority will be able to outline if further floodplain analysis is required for any sites, or if an alternative method in the absence of a detailed flood mapping study can be undertaken. This method usually involves floodproofing the turbines to a minimum elevation. Minimum elevation is based on existing hazard information and detailed review of Authority hazard mapping and on-site visit etc.

If this option is viable the detailed information required will resemble the following;

- Structure to be floodproofed to a required minimum elevation;
- Floodproofing includes or incorporates a combination of structural changes and/or adjustments to be included in the basic design and/or construction or alteration of individual buildings, structures or properties subject to flooding so as to reduce or mitigate the potential for flood damages;
- Design drawings need to be completed by a qualified professional engineer;

- the responsible Professional Engineer shall certify in writing that the design has taken into account regulatory flood (velocity and depth of flow) and site (soil type, bearing capacity etc.) conditions encountered at the specific location of the development; and
- the Professional Engineer's certificate must confirm that the foundation and building are designed to withstand hydrostatic pressures and/or impact loading that would develop under water levels equivalent to the regulatory storm;
- the responsible Professional Engineer must also identify all operation and maintenance requirements to be met in order to ensure the effective performance of the floodproofing measures over the design life of the structure;
- Floodproofing of electrical to the required minimum elevation;
- Only non-deleterious substances are to be used below the required minimum elevation;

Development within the Regulated Area of the Authority (Within Erosion Hazard Limit of Straight Non- Apparent Municipal Drains and Natural Watercourses (Meander Belt Allowance of Straight Municipal Drains and Natural Watercourses)

Development adjacent to straight municipal drains and natural watercourses should be located 30 m from the edge of the watercourse. If development is required within 30 m from the edge of the watercourse or drain then development should be located greater than 15 m from the edge of the watercourse where feasible, and BMP's should be incorporated to ensure that erosion and sediment controls and mitigations are in place to ensure that the control of flooding and erosion is not adversely impacted. New development proposed within 15 m of the edge of the watercourse will require a geotechnical report. A list of geotechnical consulting engineers is attached for your convenience, and the Authority is aware that exp completed geotech work for another wind project in the area, if needed the Authority reserves the right to conduct a peer review of the geotechnical report at the proponents cost. The geotechnical report should be signed and stamped by a professional engineer with the appropriate expertise. The report should outline any restricting conditions and required inspections if necessary. The purpose of the geotechnical assessment and recommendations are to review watercourse erosion, and reduce the risk of ground movements which could result in damage and instability to watercourses, structures, roads, buried utilities, adjacent properties, etc.

- The Authority generally requires that a 6m wide buffer (i.e. 6m wide grass buffer strip) from the proposed road/all development to the edge of the watercourse should be maintained;
 - All development should be no closer than 6 m from the top of the bank of the watercourse/drain;
- The Authority recommends that a report/assessment be completed by a registered professional engineer, providing recommendations with regard to slope stability, toe erosion, drainage, grading etc.;
 - The purpose of the report/assessment is to reduce the risk of ground movements which could result in damage and instability to the adjacent watercourse due to the construction of the access laneway, underground utilities, etc.;

Development within the Regulated Area of the Authority (Watercourse Culvert Crossings Not under Municipal Drainage Act)

Note: Culverts to be installed under the Municipal Drainage Act should be properly sized and positioned according to municipal engineering standards to not result in alterations in stream hydrology, scouring or flooding crossing structures;

- Please consult the Municipality to inquiry about requirements and/or concerns and Municipal Drainage Act Process;

Watercourse crossing not completed under the drainage act (i.e. natural watercourses, drains not under drainage act, etc.) must provide the following details;

- General Watercourse Crossing (i.e. Access Culvert, Horizontal directional drill, etc.) requires the following details designed by a qualified professional engineer;

- Site plan;
 - Drawings showing the existing condition and proposed crossing, with dimensions;
 - Construction details;
 - Hydrological/hydraulic analysis;
 - Proposed sediment and erosion control details;
 - Restoration Plan;
 - Timing of the works;
- Details on proposed culverts for watercourse crossings (dimensions, hydrology/hydraulics, etc.) needs to be submitted to ensure proposed culvert installation will not adversely impact the control of flooding and erosion, and have any adversely downstream/upstream impacts;
 - General Culvert Crossing Requirements include;
 - Hydrologic/Hydraulic analysis;
 - Comparison between the old (existing condition) and the proposed structure during storm events (i.e. 2 yr., 5 yr., 100 yr., etc., any events up to the regional storm);
 - A comment on how the water levels would be impacted U/S and D/S of the proposed structure;
 - A comment/comparison of the existing and proposed flood elevations/flows at the structure itself to show the difference in the pre and post conditions;
 - And if completed it would be great to have;
 - Existing flood elevations in the vicinity of the existing structure (e.g. upstream/downstream) for a 2-year, 50-year, 100-year and regional (Hurricane Hazel) storm event;
 - Proposed flood elevations in the vicinity of the proposed structure (e.g. upstream/downstream) for a 2-year, 50-year, 100-year and regional (Hurricane Hazel) storm event;
 - A comparison of the existing and proposed flood elevations in the vicinity of the structure (e.g. upstream/downstream), from the first 2 bullets, to show the difference in the pre and post condition;
- Note on General Ingress/Egress (Safe Access) Requirements
 - The consideration of Ingress/Egress (the ability to safely access during an emergency) is an important factor when considering any application for development. Proposals must be reviewed to ensure access to the proposed development is safe and appropriate for the proposed use.
 - Ingress and egress should be “safe” pursuant to provincial floodproofing guidelines (MNR, 2002a). Depths and velocities should be such that pedestrian and vehicular emergency evacuations are possible. As a minimum, access should achieve the maximum level of flood protection determined to be feasible and practical based on the existing and proposed infrastructure.

SCRCA (O.R. 171/06) Comment Re: Potential Development Adjacent Wetlands

Based on a cursory review, it does not appear wetlands exist on the subject property and within the woodlands. However, if upon more detailed review there are wetlands identified by the SCRCA, or the Environmental Review identifies wetlands that meet the criteria of the CA’s Regulation, then the wetland areas and the lands adjacent to the wetlands may also be regulated by the SCRCA. New development is generally not permitted within the wetland boundary or within 30 m of the wetland boundary, and in general the SCRCA recommends that new development and/or site alteration not be permitted within 120 metres of the wetland boundary.

It is a goal of Conservation Authority policy to encourage re-development/new development outside the regulated area of the Authority and greater than 120 m from the wetland boundary to ensure that there is no interference to the hydrologic functions of the wetland, and to ensure that the control of flooding, erosion, pollution or the conservation of land will not be affected.

New development 30 to 120 metres from the wetland boundary of a Regulated Wetland may be permitted if in the opinion of the Conservation Authority the hydrologic functions of the adjacent wetland will not be affected by the proposed development. To assess the impact of a proposed development with respect to the hydrological function of the wetland the Authority may require a Wetland Environmental Impact Study (EIS).

Fees

The Authority has the following fees for review of applications to develop within the regulated area;

General Fees

- Watercourse Crossing Installation (e.g. Culvert) - \$300.00 per crossing/culvert;
- Horizontal Directional Drill of Collection Lines under watercourse - \$100.00 per location;
- Construction of Structure (Turbine etc.) within the Regulated area - \$400.00 per structure;
- Construction of Road/collection line etc. within the Regulated area or other Disturbance - \$150.00 per location;
- Technical Report Review (e.g. Slope Stability Assessment, Hydrology Report, HydroG Study etc.) - \$300.00 per report;

(Authority staff reserve the right to charge technical report review fees over the above noted fees for complex projects or reports covering one or more issues. Costs will be related to multiple technical report reviews, multiple meetings, etc. Director and GM to approve fee). Cheques can be made payable to the St. Clair Region Conservation Authority.

Thanks, please do not hesitate to call in regard to any of the above, again the above is only general requirements and upon review of the proposed development work the SCRCA can forward more site specific information.

Dallas

Dallas Cundick
Environmental Planner/Regulations Officer

St. Clair Region Conservation Authority
(519) 245-3710 Ext. 223 (phone)

dcundick@scrca.on.ca
www.scrca.on.ca

From: [Van der Woerd, Mark](#)
To: [Dallas Cundick](#)
Cc: "[zAriel Bautista](#)" (ariel.b@samsung.com); [Grieve, Becky](#); [Jody Law](#); [Beatrice Ashby](#)
Subject: RE: North Kent Wind 1 Project - Pre-Consultation Meeting Follow-up
Date: Tuesday, August 18, 2015 5:12:15 PM
Attachments: [Figure 2-1 Project Location \(2015.07.30\)\(1\).pdf](#)

Hi Dallas,

I hope you are having a great summer. Thank you for providing us with additional information about SCRCA's guidelines and regulations.

Since we met, we have developed a project layout that we would like to review with you. We were wondering if you might have availability over the next couple of weeks to review our draft layout and then have another meeting to discuss requirements for conservation authority permits and in particular, turbines and project infrastructure constructed within the floodplain. Could you let us know some potential dates and times that would work best for you? Please find a draft site plan attached to this email for review. We would ask that you treat this map as confidential until September 2nd when it will be released to the public.

Please let us know if you have any questions. We look forward to meeting again.

Cheers,
Mark

Mark van der Woerd

Senior Consultant, Planning & Community Engagement

Impact Assessment and Permitting Practice - Environment

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45 Goderich Road, Suite 201, Hamilton, ON L8E 4W8

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From: Dallas Cundick [<mailto:dcundick@scrca.on.ca>]
Sent: Monday, July 06, 2015 3:53 PM
To: Van der Woerd, Mark
Subject: North Kent Wind Project - Pre-Consultation Meeting Follow-up

Hello,

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-

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-
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 - http://www.scrca.on.ca/wp-content/uploads/2013/05/Regs_DIWASW_Form.pdf
- Application form must be signed by the landowner or alternatively a Landowner Authorization Form can be signed to allow an agent to act on behalf of the landowner, form can be found at the following link; The Authority requires landowner authorization before it can issue permits.
 - http://www.scrca.on.ca/wp-content/uploads/2013/10/Regs_LandownerAuth_Form.pdf
- General Application requirements;
 - Site plan/Grading Plan;
 - Detailed drawings and plans of all structures/works;
 - Construction details and methods for the proposed development;
 - Drainage details before and after development;
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 - Erosion and Sediment Control measures to be implemented;
 - Timing of the proposed works;
 - Location of placement of excess fill (if any);

-
Development within the Regulated Area of the Authority (Turbine Construction Within Estimated Engineered Floodplain)

-
NOTE: SCRCA has not had a chance to review in detail the proposed turbines that are located within the estimated engineered floodplain. Authority staff will review in detail and provide further comments in regard to requirements for Turbines constructed within the floodplain. The below information is to make you aware of potential requirements for floodproofing only.

-
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The Authority's estimated engineered floodline mapping was derived from coarse 1:10,000 OBM mapping obtained in the 1980's. As mentioned above, this floodplain analysis depicts some turbine locations as being floodprone under Regional storm conditions. The regional storm flooding event is equivalent to flooding that would be expected during a Hurricane Hazel storm event.

The Authority's preferred option for development at these locations is to complete a detailed Regional/1:100 year floodline mapping study to establish a building envelope for the turbines outside the Regional flood level. The Regional flood level is the regulatory standard at this location.

Alternatively, the proposed turbines at the subject location may be permitted if it has been demonstrated to the satisfaction of the Conservation Authority that the control of flooding, erosion, pollution, or the conservation of land will not be affected, and any potential for flood susceptibility/flood damages to the structure are minor and mitigated.

It may be possible (to be determined after more detailed review) that the Authority's natural hazard concerns (flooding etc.) in the subject locations can potentially be adequately addressed by ensuring that the structures are floodproofed to an elevation above the estimated engineered floodplain (to ensure that the structure and its contents are not impacted by potential large scale flood events), The Authority recommends that only non-deleterious materials (i.e. concrete, etc.) are used below the estimated engineered floodplain, and that all utilities (electrical/mechanical etc.) are elevated and floodproofed to a level above the estimated engineered floodplain.

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If this option is viable the detailed information required will resemble the following;

- Structure to be floodproofed to a required minimum elevation;
- Floodproofing includes or incorporates a combination of structural changes and/or adjustments to be included in the basic design and/or construction or alteration of individual buildings, structures or properties subject to flooding so as to reduce or mitigate the potential for flood damages;
- Design drawings need to be completed by a qualified professional engineer;
 - the responsible Professional Engineer shall certify in writing that the design has taken into account regulatory flood (velocity and depth of flow) and site (soil type, bearing capacity etc.) conditions encountered at the specific location of the development; and
 - the Professional Engineer's certificate must confirm that the foundation and building are designed to withstand hydrostatic pressures and/or impact loading that would develop under water levels equivalent to the regulatory storm;

the responsible Professional Engineer must also identify all operation and maintenance requirements to be met in order to ensure the effective performance of the floodproofing measures over the design life of the structure;

- Floodproofing of electrical to the required minimum elevation;
- Only non-deleterious substances are to be used below the required minimum elevation;

Development within the Regulated Area of the Authority (Within Erosion Hazard Limit of Straight Non- Apparent Municipal Drains and Natural Watercourses (Meander Belt Allowance of Straight Municipal Drains and Natural Watercourses)

-

Development adjacent to straight municipal drains and natural watercourses should be located 30 m from the edge of the watercourse. If development is required within 30 m from the edge of the watercourse or drain then development should be located greater than 15 m from the edge of the watercourse where feasible, and BMP's should be incorporated to ensure that erosion and sediment controls and mitigations are in place to ensure that the control of flooding and erosion is not adversely impacted. New development proposed within 15 m of the edge of the watercourse will require a geotechnical report. A list of geotechnical consulting engineers is attached for your convenience, and the Authority is aware that exp completed geotech work for another wind project in the area, if needed the Authority reserves the right to conduct a peer review of the geotechnical report at the proponents cost. The geotechnical report should be signed and stamped by a professional engineer with the appropriate expertise. The report should outline any restricting conditions and required inspections if necessary. The purpose of the geotechnical assessment and recommendations are to review watercourse erosion, and reduce the risk of ground movements which could result in damage and instability to watercourses, structures, roads, buried utilities, adjacent properties, etc.

- The Authority generally requires that a 6m wide buffer (i.e. 6m wide grass buffer strip) from the proposed road/all development to the edge of the watercourse should be maintained;
 - All development should be no closer than 6 m from the top of the bank of the watercourse/drain;
- The Authority recommends that a report/assessment be completed by a registered professional engineer, providing recommendations with regard to slope stability, toe erosion, drainage, grading etc.;;
 - The purpose of the report/assessment is to reduce the risk of ground movements which could result in damage and instability to the adjacent watercourse due to the construction of the access laneway, underground utilities, etc.;

Development within the Regulated Area of the Authority (Watercourse Culvert Crossings Not under Municipal Drainage Act)

-

Note: Culverts to be installed under the Municipal Drainage Act should be properly sized and positioned according to municipal engineering

standards to not result in alterations in stream hydrology, scouring or flooding crossing structures;

- Please consult the Municipality to inquiry about requirements and/or concerns and Municipal Drainage Act Process;

Watercourse crossing not completed under the drainage act (i.e. natural watercourses, drains not under drainage act, etc.) must provide the following details;

- General Watercourse Crossing (i.e. Access Culvert, Horizontal directional drill, etc.) requires the following details designed by a qualified professional engineer;
 - Site plan;
 - Drawings showing the existing condition and proposed crossing, with dimensions;
 - Construction details;
 - Hydrological/hydraulic analysis;
 - Proposed sediment and erosion control details;
 - Restoration Plan;
 - Timing of the works;
- Details on proposed culverts for watercourse crossings (dimensions, hydrology/hydraulics, etc.) needs to be submitted to ensure proposed culvert installation will not adversely impact the control of flooding and erosion, and have any adversely downstream/upstream impacts;
- General Culvert Crossing Requirements include;
 - Hydrologic/Hydraulic analysis;
 - Comparison between the old (existing condition) and the proposed structure during storm events (i.e. 2 yr., 5 yr., 100 yr., etc., any events up to the regional storm);
 - A comment on how the water levels would be impacted U/S and D/S of the proposed structure;
 - A comment/comparison of the existing and proposed flood elevations/flows at the structure itself to show the difference in the pre and post conditions;
 - And if completed it would be great to have;
 - Existing flood elevations in the vicinity of the existing structure (e.g. upstream/downstream) for a 2-year, 50-year, 100-year and regional (Hurricane Hazel) storm event;
 - Proposed flood elevations in the vicinity of the proposed structure (e.g. upstream/downstream) for a 2-year, 50-year, 100-year and regional (Hurricane Hazel) storm event;
 - A comparison of the existing and proposed flood elevations in the vicinity of the structure (e.g. upstream/downstream), from the first 2 bullets, to show the difference in the pre and post condition;
- Note on General Ingress/Egress (Safe Access) Requirements
 - The consideration of Ingress/Egress (the ability to safely access during an emergency) is an important factor when considering any application for development. Proposals

must be reviewed to ensure access to the proposed development is safe and appropriate for the proposed use.

- Ingress and egress should be “safe” pursuant to provincial floodproofing guidelines (MNR, 2002a). Depths and velocities should be such that pedestrian and vehicular emergency evacuations are possible. As a minimum, access should achieve the maximum level of flood protection determined to be feasible and practical based on the existing and proposed infrastructure.

SCRCA (O.R. 171/06) Comment Re: Potential Development Adjacent Wetlands

Based on a cursory review, it does not appear wetlands exist on the subject property and within the woodlands. However, if upon more detailed review there are wetlands identified by the SCRCA, or the Environmental Review identifies wetlands that meet the criteria of the CA’s Regulation, then the wetland areas and the lands adjacent to the wetlands may also be regulated by the SCRCA. New development is generally not permitted within the wetland boundary or within 30 m of the wetland boundary, and in general the SCRCA recommends that new development and/or site alteration not be permitted within 120 metres of the wetland boundary.

It is a goal of Conservation Authority policy to encourage re-development/new development outside the regulated area of the Authority and greater than 120 m from the wetland boundary to ensure that there is no interference to the hydrologic functions of the wetland, and to ensure that the control of flooding, erosion, pollution or the conservation of land will not be affected.

New development 30 to 120 metres from the wetland boundary of a Regulated Wetland may be permitted if in the opinion of the Conservation Authority the hydrologic functions of the adjacent wetland will not be affected by the proposed development. To assess the impact of a proposed development with respect to the hydrological function of the wetland the Authority may require a Wetland Environmental Impact Study (EIS).

Fees

The Authority has the following fees for review of applications to develop within the regulated area;

General Fees

- Watercourse Crossing Installation (e.g. Culvert) - \$300.00 per crossing/culvert;
- Horizontal Directional Drill of Collection Lines under watercourse - \$100.00 per location;
- Construction of Structure (Turbine etc.) within the Regulated area - \$400.00 per structure;
- Construction of Road/collection line etc. within the Regulated area or other Disturbance - \$150.00 per location;
- Technical Report Review (e.g. Slope Stability Assessment, Hydrology Report, HydroG Study etc.) - \$300.00 per report;

(Authority staff reserve the right to charge technical report review fees over the above noted fees for complex projects or reports covering one or more issues. Costs will be related to multiple technical report reviews, multiple meetings, etc. Director and GM to approve fee). Cheques can be made payable to the St. Clair Region Conservation Authority.

-
Thanks, please do not hesitate to call in regard to any of the above, again the above is only general requirements and upon review of the proposed development work the SCRCA can forward more site specific information.

Dallas

Dallas Cundick
Environmental Planner/Regulations Officer

St. Clair Region Conservation Authority
(519) 245-3710 Ext. 223 (phone)

dcundick@scrca.on.ca

www.scrca.on.ca

From: [Van der Woerd, Mark](#)
To: dcundick@scrca.on.ca
Cc: "[zAriel Bautista](mailto:ariel.b@samsung.com)"; [AshbyBeatrice](#); [Jody Law](#); [Grieve, Becky](#)
Subject: North Kent Wind Project - Meeting Minutes
Date: Wednesday, June 17, 2015 2:06:00 PM
Attachments: [North Kent Wind - Minutes SCRCA Meeting on April 16-2015.docx](#)

Hi Dallas,

I hope all is well and that you are enjoying your summer so far. Thanks again for taking the time to meet with us in April to discuss the North Kent Wind Project. Attached to this email are minutes from our meeting. We recognize that some time has passed since we met, but we want to ensure our consultation documentation is accurate and appropriately records our conversation. Could you please review the minutes and let us know if you have any comments?

As discussed, we will provide you with further information about the Project once it is available. In the meantime, if you have any questions please do not hesitate to give me a call.

Have a great day,
Mark

Mark van der Woerd

Senior Consultant, Planning & Community Engagement

Impact Assessment and Permitting Practice - Environment

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Wong Ken, Michelle

Subject: FW: North Kent Wind 1 Project - Confirmation Letter and Bird and Bat EEMP comment letter
Attachments: North_Kent_Wind1_Confirmation_Letter_October_30_2015.pdf; North_Kent_Wind1_EEMP_MNRF_CommentLetter_October_30_2015.pdf

From: Lindenburger, Ruth (MNRF) [<mailto:Ruth.Lindenburger@ontario.ca>]
Sent: October-30-15 10:40 AM
To: phammer@nrso.on.ca
Cc: Andrew Ryckman (aryckman@nrso.on.ca); Grieve, Becky; Van der Woerd, Mark; jody.law@patternenergy.com; b.ashby@samsung.com; ariel.b@samsung.com; hi.byun@samsung.com; Beal, Jim (MNRF); Milian, Kazia (MNRF); Persaud, Anurani (MNRF)
Subject: North Kent Wind 1 Project - Confirmation Letter and Bird and Bat EEMP comment letter

Hello,

Please find attached MNRF's confirmation letter for the North Kent Wind 1 Project as well as the Bird and Bat EEMP comment letter.

If you have any questions please do not hesitate to contact me.

Sincerely,

Ruth Lindenburger

Regional Planner
Land Use Planning Unit | Regional Resources Section | Southern Region
Ontario Ministry of Natural Resources & Forestry
300 Water Street Peterborough, ON K9J 6Y3
705-755-1363

October 30, 2015

Mr. Colin Edwards and Mr. Lee Jeong Tack
North Kent Wind 1 LP, by its general partner
North Kent Wind 1 GP Inc.
2050 Derry Road West 2nd Floor
Mississauga, ON L5N 0B9

RE: NHA Confirmation for North Kent Wind 1 Project

Dear: Mr. Colin Edwards and Mr. Lee Jeong Tack

In accordance with the Ministry of the Environment and Climate Change's (MOECC's) Renewable Energy Approvals (REA) Regulation (O.Reg.359/09), the Ministry of Natural Resources and Forestry (MNRF) has reviewed the North Kent Wind 1 Project Natural Heritage Assessment and Environmental Impact Study for the North Kent Wind 1 Project located north of the City of Chatham, Municipality of Chatham-Kent, Ontario, submitted by Mr. Colin Edwards and Mr. Lee Jeong Tack on October 26, 2015.

In accordance with Section 28(2) and 38(2)(b) of the REA regulation, MNRF provides the following confirmations following review of the natural heritage assessment:

1. The MNRF 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 MNRF.
2. The MNRF confirms that the site investigation and records review were conducted using applicable evaluation criteria or procedures established or accepted by MNRF, if no natural features were identified.
3. The MNRF 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 MNRF.
4. The MNRF confirms that the project location is not in a provincial park or conservation reserve.

5. The MNRF confirms that the environmental impact study report has been prepared in accordance with procedures established by the MNRF.

In accordance with Section 28(3)(c) and 38(2)(c), MNRF also offers the following comments in respect of the project.

Pre-construction Monitoring

In accordance with Appendix D of MNRF's NHA Guide, a commitment has been made to complete pre-construction assessment(s) of habitat use for the candidate significant wildlife habitats listed in Table 1 (enclosed).

MNRF has reviewed and confirmed the assessment methods and the range of mitigative options. Pending completion of the assessments and determination of significance, the appropriate mitigation is expected to be implemented, as committed to in the environmental impact study.

Post-Construction Monitoring

In addition to the NHA, Environmental Effects Monitoring Plans (EEMP) that address post-construction mortality monitoring and mitigation for birds and bats must be prepared and implemented. Environmental Effects Monitoring Plans for birds and bats must be prepared in accordance with MNRF Guidelines and should be reviewed by MNRF in advance of submitting a REA application to MOECC in order to minimize potential delays in determining if the application is complete. Comments provided by the MNRF with respect to the EEMP must be submitted as part of the application for a REA.

A commitment has been made in the Environmental Impact Study and will be included in the Environmental Effects Monitoring Plan, part of the Design and Operations Report, to conduct post-construction monitoring should the pre-construction monitoring (as outlined above) deem the wildlife habitat to be significant. For the North Kent Wind 1 Project this includes surveys outlined in Table 2 (enclosed).

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, MNRF may need to undertake additional review of the NHA.

Where specific commitments have been made by the applicant in the NHA/EIS with respect to project design, construction, rehabilitation, operation, mitigation, or monitoring, MNRF expects that these commitments will be considered in MOECC'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 MOECC for a Renewable Energy Approval.

Please be aware that your project may be subject to additional legislative approvals as outlined in the Ministry of Natural Resources' *Approvals and Permitting Requirements*

If you wish to discuss any part of this confirmation or additional comments provided, please contact Jim Beal, Renewable Energy Coordinator at jim.beal@ontario.ca or 705-755-1362.

Sincerely,



Kazja Milian
Supervisor, Land Use Planning Unit
Southern Region Resources Section
Ministry of Natural Resources and Forestry

cc Jim Beal, Renewable Energy Coordinator, MNR
Mohsen, Keyvani, Environmental Approvals Branch, MOECC

Table 1. Summary of Pre-Construction Monitoring Commitments for the North Kent Wind 1 Project

Wildlife Habitat Type	Generalized Methods*	Location/ Feature(s)
Bat Maternity Colony	<p>Two candidate bat maternity colony habitats were identified through the site investigation. The presence of suitable cavity trees within one candidate bat maternity colony habitat (BMA-001) could not be verified during the site investigation phase of the Project as site access was denied. As such, no further surveys will be conducted at BMA-001, and the habitat will be treated as significant; however, in the event that site access is granted prior to June 2016, a site investigation will be conducted to verify the presence of ≥ 10 wildlife trees per hectare, measured at ≥ 25cm dbh. If candidate significant habitat is determined to be absent, the habitat will be confirmed not significant. If candidate significant habitat is determined to be present, proposed evaluation methods are identified below.</p> <p>If candidate significant habitat is determined to be present within BMA-001, a total of 12 suitable cavity trees will be selected since it is 11.91ha in size. Up to 10 suitable cavity trees (less if 10 suitable trees aren't present) will be selected within BMA-002 since it is less than 10ha in size. Monitoring sites within the 2 candidate bat maternity colony habitats will be selected using the criteria outlined in the Bats and Bat Habitats guidelines (OMNR 2011a).</p> <p>Following the Bats and Bat Habitats guidelines (OMNR 2011a), exit surveys will be conducted during the month of June. Observers will choose a viewing station with a clear aspect of cavity opening or crevice, which will be monitored from 30 minutes before dusk until 60 minutes after dusk for evidence of bats exiting. An acoustic bat detector paired with a digital recorder will be used in conjunction with visual surveys to determine species. Each candidate tree will only be monitored once. Night-vision or infrared video equipment may be substituted for observers. Once an evening's monitoring is completed (60 minutes after sunset), the cameras will be collected by the staff members conducting visual surveys in the same candidate significant habitat and the visual recordings for each video recorder will be reviewed for evidence of significant bat roosting activity.</p> <p>The locations of the candidate significant habitat can be seen on Maps 4-1 to 4-9.</p>	BMA-001 BMA-002
Colonially-Nesting Breeding Bird Habitat (Trees/Shrubs)	<p>The presence of nest bowls within the candidate colonially-nesting bird breeding habitat could not be identified during the site investigation phase of the Project as site access was denied within a portion of WOD-002. As such, no further surveys will be conducted, and the habitat will be treated as significant; however in the event that site access is granted prior to April 2016, a site investigation will be conducted to verify the presence of nest bowls within the candidate habitat. If candidate significant habitat is determined to be present, proposed evaluation methods are identified below. If candidate significant habitat is determined to be absent, the habitat will be confirmed not significant.</p> <p>Surveys will consist of a 15 minute point count during the breeding season from a suitable vantage point located in close</p>	CBT-001

Wildlife Habitat Type	Generalized Methods*	Location/ Feature(s)
	<p>proximity to where nest bowls are located, and will occur once in each of April, June, and August.</p> <p>The objective of this survey is to determine if active heron nests are present within the candidate colonially-nesting bird breeding habitat.</p> <p>All individuals will be recorded along with information on species, behaviour, movement and time observed.</p> <p>The locations of monitoring sites within the candidate significant habitat will be determined based on conditions of the site.</p> <p>The location of the candidate significant habitat can be seen on Maps 4-1 to 4-9.</p>	
Old Growth Forest	<p>The presence of an old growth forest within one woodland could not be confirmed during the site investigation phase of the Project, as site access was denied. As such, no further surveys will be conducted and the habitat will be treated as significant; however, in the event that site access status changes prior to July 2016, a site investigation will be conducted to confirm the age estimate of tree species being >140 year old within the forest ecosite. If candidate significant habitat is determined to be present (i.e. dominant tree species estimated to be greater than 140 years old), the habitat will be confirmed significant. If candidate significant habitat is determined to be absent, the habitat will be confirmed not significant.</p> <p>The location of the candidate significant habitat can be seen on Maps 5-1 to 5-9.</p>	OGF-001
Waterfowl Nesting Area	<p>The presence of a waterfowl nesting area within one woodland could not be verified during the site investigation phase of the Project as site access was denied. As such, no further surveys will be conducted and the habitat will be treated as significant; however, in the event that site access changes prior to April 2016, a site investigation will be conducted to verify the presence of suitable permanent open water, in addition to shrubland/grassland or suitable cavity trees for nesting in upland areas >40cm dbh. If candidate significant habitat is deemed to be absent, the habitat will be confirmed not significant. If candidate significant habitat is determined to be present, area searches will be conducted within the candidate waterfowl nesting area. This method will involve walking the perimeter of the wetland and counting all observable waterfowl using the wetlands.</p> <p>Surveys will be conducted on 3 separate visits, once in each of April, May, and June 2016, to capture both early and late nesting species.</p> <p>Surveys will be carried out during the early morning (sunrise to 4 hours after sunrise). All individuals will be recorded along with information on species, behaviour, movement and time observed. Optimal weather conditions for these surveys are clear, sunny days with little to no precipitation. Surveys will be postponed and re-scheduled if poor weather conditions are encountered, specifically if high winds or heavy precipitation is noted.</p>	WFN-001

Wildlife Habitat Type	Generalized Methods*	Location/ Feature(s)
Amphibian Breeding Habitat (Woodland)	<p>The location of the candidate significant habitat can be seen on Maps 5-1 to 5-9.</p> <p>Three evening amphibian call surveys will be conducted at the one candidate habitat, once in each of April, May and June 2016. Each survey will last 3 minutes, following the accepted Marsh Monitoring Program protocol, and will begin no earlier than one half hour after sunset and end before midnight. Semi-circular point counts will be conducted at each habitat to monitor calling amphibians. Several point counts may be required at a single habitat in order to adequately survey the area. Point counts will be located at least 500m apart to prevent counting duplicate amphibian calls. These surveys will be conducted within habitats where site access has been granted. Where site access has not been granted, point counts may be conducted along the roadside or adjacent property.</p> <p>During each survey, biologists will record species and calling abundance codes, along with other appropriate information (date, time, weather, etc.). A UTM will be taken for each call location to ensure consistency between survey visits.</p> <p>Where site access has been granted, 2 amphibian egg mass searches will also be conducted within each habitat during daylight hours. The exact timing of the surveys will be dependent on 2016 spring conditions and when amphibians are expected to be breeding within the general vicinity of the Project Area, but are expected to occur once in April and again in either May or June. A minimum search effort of 30 minutes will be used on each visit, in each habitat. These area searches will include walking within the wetland or vernal pool along the perimeter, looking for egg masses. Due to the composition and attributes of the candidate amphibian breeding habitats, special equipment will not be required to identify egg masses; however, visual surveys conducted in breeding ponds with high water levels will require the use of chest waders. This approach is expected to effectively identify egg masses, while minimizing any disturbance effects caused by sampling.</p> <p>If candidate significant habitat (vernal pools) is determined to be not present during the first site visit, no specific studies will be conducted and the habitat will be confirmed not significant.</p> <p>The locations of the candidate significant habitat can be seen on Maps 5-1 to 5-9.</p>	AWO-001
Marsh Bird Breeding Habitat	<p>Surveys will consist of 15 minute point counts within the candidate significant habitat during the breeding season, occurring twice between mid-May and early July 2016, no less than 10 days apart, following the accepted Marsh Monitoring Program protocol (Bird Studies Canada 2009). Each survey will be conducted in the morning (beginning 30 minutes before sunrise and ending no later than 1000hrs) or evening (occurring no earlier than 4 hours before sunset and ending before dark), when marsh birds are actively nesting in wetland habitats.</p> <p>Each survey will be conducted under near optimal weather conditions, on clear, warm (at least 16°C) evenings, with no precipitation and little or no wind.</p> <p>Point counts will be conducted within the habitat where site</p>	MBB-001

Wildlife Habitat Type	Generalized Methods*	Location/ Feature(s)
	<p>access has been granted, or from the property adjacent to the habitat, where site access has not been granted. Each point count will last for 15 minutes, and will be sub-divided into three 5 minute components: a 5 minute passive (silent) observation period, a 5 minute call playback period, and a second 5 minute passive observation period.</p> <p>If candidate significant habitat (shallow water with emergent aquatic vegetation) is determined to be not present on the first site visit, no specific studies will be conducted and the habitat will be confirmed not significant.</p> <p>The locations of monitoring sites within the candidate significant habitat will be determined based on conditions of the site.</p> <p>The location of the candidate significant habitat can be seen on Maps 6-1 to 6-9.</p>	
<p>Eastern Wood-Pewee (<i>Contopus virens</i>)</p>	<p>Ten-minute point count surveys will be conducted within each of the 3 habitats for eastern wood-pewee in June and early July 2016. Each point count station will be surveyed 3 times during early, mid and late season (spring and early summer) no less than 10 days apart.</p> <p>The number of point counts required depends on the size and habitat diversity at each site. Following the Birds and Bird Habitat Guidelines for Wind Power Projects (OMNR 2011b), point counts will be spaced at least 250m apart, ideally with the centre point at least 100m from the habitat edge. Where more than one point count will be conducted within each candidate habitat, a standardized transect will also be conducted between point count sites.</p> <p>Surveys will be conducted between dawn (one half hour before sunrise) and 3 hours after sunrise. These surveys will occur during a time period when males are expected to be actively singing and defending territories.</p> <p>Days with high wind speeds and rain will be avoided. During each visit, the highest observed breeding evidence will be recorded for each species.</p> <p>The locations of each of the candidate significant habitats can be seen on Maps 6-1 to 6-9.</p>	<p>EWP-001 (SCC-A) EWP-002 (SCC-M) EWP-003 (SCC-G)</p>
<p>Wood Thrush (<i>Hylocichla mustelina</i>)</p>	<p>Ten-minute point count surveys will be conducted within the habitat for wood thrush in June and early July 2016. Each point count station will be surveyed 3 times during early, mid and late season (spring and early summer) no less than 10 days apart.</p> <p>The number of point counts required depends on the size and habitat diversity at the site. Following the Birds and Bird Habitat Guidelines for Wind Power Projects (OMNR 2011b), point counts will be spaced at least 250m apart, ideally with the centre point at least 100m from the habitat edge. Where more than one point count will be conducted within the candidate habitat, a standardized transect will also be conducted between point count sites.</p> <p>Surveys will be conducted between dawn (one half hour before sunrise) and 3 hours after sunrise. These surveys will occur</p>	<p>WTH-001 (SCC-C)</p>

Wildlife Habitat Type	Generalized Methods*	Location/ Feature(s)
	<p>during a time period when males are expected to be actively singing and defending territories.</p> <p>Days with high wind speeds and rain will be avoided. During each visit, the highest observed breeding evidence will be recorded for each species.</p> <p>The location of the candidate significant habitat can be seen on Maps 6-1 to 6-9.</p>	
Prairie Milkweed <i>(Asclepias sullivantii)</i>	<p>One standardized area search will be conducted within the candidate significant prairie milkweed habitat within the Project Area. The UTM location of any individuals or clusters will be recorded and a stem count will be conducted. Surveys will be conducted during a time period when this species exhibits characteristics that allow for confident identification, preferably during the flowering period of June to July.</p> <p>The location of the candidate significant habitat can be seen on Maps 6-1 to 6-9.</p>	PMI-001 (SCC-P)
Pawpaw <i>(Asimina triloba)</i>	<p>One standardized area search will be conducted within the one candidate significant pawpaw habitat within the Project Area. The UTM location of any individuals or clusters will be recorded and a stem count will be conducted. Surveys will be conducted during a time period when this species exhibits characteristics that allow for confident identification, preferably during the flowering or leaf-on period of April to September.</p> <p>The location of the candidate significant habitat can be seen on Maps 6-1 to 6-9.</p>	PAW-001 (SCC-B)
Muskingum Sedge <i>(Carex muskingumensis)</i>	<p>One standardized area search will be conducted within each of the 5 candidate significant Muskingum sedge habitats within the Project Area. The UTM location of any individuals or clusters will be recorded and a stem count will be conducted. Surveys will be conducted during a time period when this species exhibits characteristics that allow for confident identification, preferably after the plant has flowered in June or July.</p> <p>The locations of each of the candidate significant habitats can be seen on Maps 6-1 to 6-9.</p>	MSE-001 (SCC-A) MSE-005 (SCC-N) MSE-006 (SCC-L) MSE-007 (SCC-K) MSE-008 (SCC-G)
Rigid Sedge <i>(Carex tetanica)</i>	<p>One standardized area search will be conducted within the candidate significant rigid sedge habitat within the Project Area. The UTM location of any individuals or clusters will be recorded and a stem count will be conducted. Surveys will be conducted during a time period when this species exhibits characteristics that allow for confident identification, preferably during the fruiting period of June to July.</p> <p>The location of the candidate significant habitat can be seen on Maps 6-1 to 6-9.</p>	RSE-001 (SCC-P)
Blue Ash <i>(Fraxinus quadrangulata)</i>	<p>One standardized area search will be conducted within the one candidate significant blue ash habitat within the Project Area. The UTM location of any individuals or clusters will be recorded and a stem count will be conducted. Surveys can be made year-round based on the presence of distinctively shaped branches and twigs.</p> <p>The location of the candidate significant habitat can be seen on Maps 6-1 to 6-9.</p>	BAS-001 (SCC-B)
Swamp Rose-	One standardized area search will be conducted within each of	SRM-001 (SCC-E)

Wildlife Habitat Type	Generalized Methods*	Location/ Feature(s)
<p>mallow (<i>Hibiscus moscheutos</i>)</p>	<p>the 2 candidate significant swamp rose-mallow habitats within the Project Area. The UTM location of any individuals or clusters will be recorded and a stem count will be conducted. Surveys can be made year-round (in absence of heavy snow cover) based on the robust, distinctive, and persistent nature of the plant and dead stems.</p> <p>The locations of each of the candidate significant habitats can be seen on Maps 6-1 to 6-9.</p>	<p>SRM-002 (SCC-K)</p>
<p>Black Gum (<i>Nyssa sylvatica</i>)</p>	<p>One standardized area search will be conducted within each of the 2 candidate significant black gum habitats within the Project Area. The UTM location of any individuals or clusters will be recorded and a stem count will be conducted. Surveys will be conducted during a time period when this species exhibits characteristics that allow for confident identification, preferably during the leaf-on period of April to September.</p> <p>The locations of each of the candidate significant habitats can be seen on Maps 6-1 to 6-9.</p>	<p>BGU-001 (SCC-A) BGU-003 (SCC-K)</p>
<p>Northern Fogfruit (<i>Phyla lanceolata</i>)</p>	<p>One standardized area search will be conducted within each of the 5 candidate significant northern fogfruit habitats within the Project Area. The UTM location of any individuals or clusters will be recorded and a stem count will be conducted. Surveys will be conducted during a time period when this species exhibits characteristics that allow for confident identification, preferably during the flowering period of July to August.</p> <p>The locations of each of the candidate significant habitats can be seen on Maps 6-1 to 6-9.</p>	<p>NFO-001 (SCC-A) NFO-005 (SCC-L) NFO-006 (SCC-N) NFO-007 (SCC-P) NFO-008 (SCC-K)</p>
<p>Shumard Oak (<i>Quercus shumardii</i>)</p>	<p>One standardized area search will be conducted within the one candidate significant Shumard oak habitat within the Project Area. The UTM location of any individuals or clusters will be recorded and a stem count will be conducted. Surveys will be conducted during a time period when this species exhibits characteristics that allow for confident identification, preferably during the period of October to December when leaves and fully-developed acorns are available. The absence of the species can also be confirmed year-round if no other similar oak species are present in a given habitat.</p> <p>The location of the candidate significant habitat can be seen on Maps 6-1 to 6-9.</p>	<p>SHU-002 (SCC-D)</p>
<p>Climbing Prairie Rose (<i>Rosa setigera</i>)</p>	<p>One standardized area search will be conducted within the candidate significant climbing prairie rose habitat within the Project Area. The UTM location of any individuals or clusters will be recorded and a stem count will be conducted. Surveys will be conducted during a time period when this species exhibits characteristics that allow for confident identification, preferably during the leaf-on period of late June to September.</p> <p>The location of the candidate significant habitat can be seen on Maps 6-1 to 6-9.</p>	<p>CPR-001 (SCC-P)</p>
<p>Lizard's Tail (<i>Saururus cernuus</i>)</p>	<p>One standardized area search will be conducted within each of the 5 candidate significant lizard's tail habitats within the Project Area. The UTM location of any individuals or clusters will be recorded and a stem count will be conducted. Surveys will be conducted during a time period when this species exhibits characteristics that allow for confident identification, preferably during the flowering period of June to August.</p>	<p>LTA-001 (SCC-A) LTA-005 (SCC-N) LTA-006 (SCC-L) LTA-007 (SCC-K) LTA-008 (SCC-G)</p>

Wildlife Habitat Type	Generalized Methods*	Location/ Feature(s)
	The locations of each of the candidate significant habitats can be seen on Maps 6-1 to 6-9.	
Wild Senna (<i>Senna hebecarpa</i>)	<p>One standardized area search will be conducted within each of the 6 candidate significant wild senna habitats within the Project Area. The UTM location of any individuals or clusters will be recorded and a stem count will be conducted. Surveys will be conducted during a time period when this species exhibits characteristics that allow for confident identification, preferably during the flowering period of July to August.</p> <p>The locations of each of the candidate significant habitats can be seen on Maps 6-1 to 6-9.</p>	WSE-001 (SCC-G) WSE-003 (SCC-D) WSE-006 (SCC-K) WSE-007 (SCC-L) WSE-008 (SCC-N) WSE-009 (SCC-P)
Cup-plant (<i>Silphium perfoliatum</i>)	<p>One standardized area search will be conducted within each of the 4 candidate significant cup-plant habitats within the Project Area. The UTM location of any individuals or clusters will be recorded and a stem count will be conducted. Surveys will be conducted during a time period when this species exhibits characteristics that allow for confident identification, preferably during the flowering period of July to August.</p> <p>The locations of each of the candidate significant habitats can be seen on Maps 6-1 to 6-9.</p>	CUP-001 (SCC-D) CUP-002 (SCC-K) CUP-003 (SCC-N) CUP-004 (SCC-P)
Riddell's Goldenrod (<i>Solidago riddellii</i>)	<p>One standardized area search will be conducted within the candidate significant Riddell's goldenrod habitat within the Project Area. The UTM location of any individuals or clusters will be recorded and a stem count will be conducted. Surveys will be conducted during a time period when this species exhibits characteristics that allow for confident identification, preferably during the flowering period of August to September.</p> <p>The locations of each of the candidate significant habitats can be seen on Maps 6-1 to 6-9.</p>	RGL-001 (SCC-P)
Southern Slender Ladies' Tresses (<i>Spiranthes lacera</i> var. <i>gracilis</i>)	<p>One standardized area search will be conducted within the candidate significant southern slender ladies' tresses habitat within the Project Area. The UTM location of any individuals or clusters will be recorded and a stem count will be conducted. Surveys will be conducted during a time period when this species exhibits characteristics that allow for confident identification, preferably during the flowering period of August to September.</p> <p>The locations of each of the candidate significant habitats can be seen on Maps 6-1 to 6-9.</p>	SLT-001 (SCC-P)
Wing-stem (<i>Verbesina alternifolia</i>)	<p>One standardized area search will be conducted within each of the 5 candidate significant wing-stem habitats within the Project Area. The UTM location of any individuals or clusters will be recorded and a stem count will be conducted. Surveys will be conducted during a time period when this species exhibits characteristics that allow for confident identification, preferably during the flowering period of August to September.</p> <p>The locations of each of the candidate significant habitats can be seen on Maps 6-1 to 6-9.</p>	WIS-001 (SCC-A) WIS-005 (SCC-K) WIS-006 (SCC-L) WIS-007 (SCC-N) WIS-008 (SCC-G)
Giant Ironweed (<i>Vernonia gigantea</i>)	One standardized area search will be conducted within each of the 5 candidate significant giant ironweed habitats within the Project Area. The UTM location of any individuals or clusters will be recorded and a stem count will be conducted. Surveys will be conducted during a time period when this species exhibits	GIW-003 (SCC-N) GIW-004 (SCC-A) GIW-005 (SCC-L) GIW-006 (SCC-K) GIW-008 (SCC-P)

Wildlife Habitat Type	Generalized Methods*	Location/ Feature(s)
	<p>characteristics that allow for confident identification, preferably during the flowering period of July to October.</p> <p>The locations of each of the candidate significant habitats can be seen on Maps 6-1 to 6-9.</p>	
Virginia Culver's-root (<i>Veronicastrum virginicum</i>)	<p>One standardized area search will be conducted within the 1 candidate significant Virginia culver's-root habitat within the Project Area. The UTM location of any individuals or clusters will be recorded and a stem count will be conducted. Surveys will be conducted during a time period when this species exhibits characteristics that allow for confident identification, preferably during the flowering period of June to September.</p> <p>The location of the candidate significant habitat can be seen on Maps 6-1 to 6-9.</p>	VCR-001 (SCC-P)
Cream Violet (<i>Viola striata</i>)	<p>One standardized area search will be conducted within the 1 candidate significant cream violet habitat within the Project Area. The UTM location of any individuals or clusters will be recorded and a stem count will be conducted. Surveys will be conducted during a time period when this species exhibits characteristics that allow for confident identification, preferably during the flowering period of April to May.</p> <p>The location of the candidate significant habitat can be seen on Maps 6-1 to 6-9.</p>	CVI-001 (SCC-B)

Table 2. Summary of Post-Construction Monitoring Commitments for the North Kent Wind 1 Project

Survey Type	Location(s)	Generalized Methods*	Purpose
Mortality Monitoring	Entire Project	<p>Post-construction mortality monitoring will be conducted following both the <i>Birds and Bird Habitats</i> (OMNR 2011b) and <i>Bats and Bat Habitats</i> (OMNR 2011a) provincial guidelines for 3 years after the Project has become operational.</p> <p>A subset of 30% of the turbines will be selected in accordance with the <i>Birds and Bird Habitats</i> (OMNR 2011b) and <i>Bats and Bat Habitats</i> (OMNR 2011a) provincial guidelines, and will be searched approximately every 3-4 days (twice weekly) for bird and bat mortalities from May 1st to October 31st, and approximately every 7 days (weekly) throughout November for raptors.</p> <p>If bat maternity colony habitats BMA-001 or 002 are confirmed significant, the turbine(s) closest to the habitat(s) will be included with the subsample of turbines to be monitored.</p> <p>In addition to the above monitoring, if waterfowl nesting area habitat WFN-001 is determined to be significant, the one wind turbine located within 120m of this habitat (T28) will be searched at a minimum frequency of once monthly in April, May, and June. All</p>	<p>To assess the direct impact of this facility on bird and bat populations.</p> <p>If mortality rates surpass provincially determined thresholds, mitigation measures will be discussed with the MNRF.</p>

Survey Type	Location(s)	Generalized Methods*	Purpose
		<p>turbines not part of the chosen sub-set will be searched once during each month from May to November, specifically targeting raptors.</p> <p>Searcher efficiency and carcass removal trials will be conducted in accordance with provincial guidelines.</p> <p>Bird and Bat mortality methods will be addressed in detail in the Bird and Bat EEMP, which will be prepared under separate cover and submitted to MNR for approval.</p>	
Bat Maternity Colony Surveys	BMA-001* BMA-002*	Post-construction exit surveys will be repeated at any of these significant habitats within 120m of wind turbines for 3 years following the same methods utilized during pre-construction surveys.	To assess the potential disturbance impact of operational turbines on nearby significant bat maternity roosts.
Colonially-Nesting Breeding Bird Habitat (Trees/Shrubs) Surveys	CBT-001*	Post-construction colonially-nesting breeding bird monitoring will be repeated at the significant habitat located within 120m of a wind turbine for 3 years following the same methods utilized during pre-construction surveys	To assess the potential disturbance impact of operational turbines on colonially-nesting breeding bird habitat.
Amphibian Breeding Habitat (Woodland) Surveys	AWO-001*	Post-construction amphibian call surveys will be repeated at this habitat that is overlapping the Project Location (through directional drilling) for 1 year following the same methods utilized during pre-construction surveys. After presenting results to the MNR, the need for additional surveys will be addressed.	To assess the potential disturbance impact of access roads on significant amphibian breeding habitats (woodland).
Marsh Bird Breeding Habitat Surveys	MBB-001*	Post-construction marsh bird breeding monitoring will be repeated at the significant habitat located within 120m of a wind turbine for 3 years following the same methods utilized during pre-construction surveys.	To assess the potential disturbance impact of operational turbines on marsh bird breeding habitat.
Waterfowl Nesting Area Surveys	WFN-001*	Post-construction waterfowl nesting area surveys will be repeated at the significant habitat located within 120m of a wind turbine for 3 years following the same methods utilized during pre-construction surveys.	To assess the potential disturbance impact of operational turbines on waterfowl nesting habitat.
Bird Species of Conservation Concern Surveys: <ul style="list-style-type: none"> • Eastern Wood-Pewee Habitat • Wood Thrush Habitat 	EWP-001* EWP-002* EWP-003* WTH-001*	Post-construction breeding bird monitoring for bird species of conservation concern will be repeated at all significant habitats within 120m of wind turbines for 3 years following the same methods utilized during pre-construction surveys.	To assess the potential disturbance impact of wind turbines on significant habitat for bird species of conservation concern.
Plant Species of Conservation Concern Surveys: <ul style="list-style-type: none"> • Prairie milkweed Habitat • Pawpaw 	PMI-001* PAW-001* MSE-001* MSE-005* MSE-006* MSE-007* MSE-008* RSE-001* BAS-001* SRM-001*	Post-construction monitoring for plant species of conservation concern will be repeated at all of the significant habitats in years 1, 3, and 5 of operation at a time of year when the species can be identified (refer to Table 1 for specific survey timing). Following pre-construction survey methods, one standardized area search will be conducted throughout each significant habitat. The UTM location of any individuals or clusters will be recorded and a stem count will	To assess the potential disturbance impact of access roads on significant habitat for plant species of conservation concern.

Survey Type	Location(s)	Generalized Methods*	Purpose
<ul style="list-style-type: none"> Habitat • Muskingum Sedge Habitat • Rigid Sedge Habitat • Round-Fruited Panic Grass Habitat • Blue Ash Habitat • Swamp Rose-mallow Habitat • Black Gum Habitat • Northern Fogfruit Habitat • Shumard Oak Habitat • Climbing Prairie Rose Habitat • Lizard's Tail Habitat • Wild Senna Habitat • Cup-plant Habitat • Riddell's Goldenrod Habitat • Southern Slender Ladies' Tresses Habitat • Wing-stem Habitat • Giant Ironweed Habitat • Virginia Culver's-root Habitat • Cream Violet Habitat 	<ul style="list-style-type: none"> SRM-002* BGU-001* BGU-003* NFO-001* NFO-005* NFO-006* NFO-007* NFO-008* SHU-002* CPR-001* LTA-001* LTA-005* LTA-006* LTA-007* LTA-008* WSE-001* WSE-003* WSE-006* WSE-007* WSE-008* WSE-009* CUP-001* CUP-002* CUP-003* CUP-004* RGL-001* SLT-001* WIS-001* WIS-005* WIS-006* WIS-007* WIS-008* GIW-003* GIW-004* GIW-005* GIW-006* GIW-008* VCR-001* CVI-001* 	<p>be conducted. Specific locations of plant species of conservation identified during pre-construction surveys will also be monitored post-construction.</p>	

1. The first part of the document discusses the importance of maintaining accurate records of all transactions.

**Ministry of Natural
Resources and Forestry**
Southern Region
Regional Operations Division
300 Water Street
Peterborough, ON K9J 3C7

**Ministère des ressources naturelles
et des forêts**
Région du Sud
Division des opérations régionales
300, rue Water
Peterborough (Ontario) K9J 3C7



October 30, 2015

Mr. Colin Edwards and Mr. Lee Jeong Tack
North Kent Wind 1 LP, by its general partner
North Kent Wind 1 GP Inc.
2050 Derry Road West 2nd Floor
Mississauga, ON L5N 0B9

RE: North Kent Wind 1 Project Bird and Bat Environmental Effects Monitoring Plan

Dear: Mr. Colin Edwards and Mr. Lee Jeong Tack

The Ministry of Natural Resources and Forestry (MNRF) has reviewed the bird and bat section of the Environmental Effects Monitoring Plan (EEMP) for the North Kent Wind 1 Project located north of the city of Chatham in the Municipality of Chatham Kent, Ontario, submitted October 21st, 2015 and makes the following comments with respect to the EEMP. The final document is titled North Kent Wind 1 Project Bird and Bat Environmental Effects Monitoring Plan and dated October 2015.

This letter confirms that the EEMP was prepared in respect of birds and bats in accordance with the Ministry of Natural Resources and Forestry:

- *Birds and Bird Habitats: Guidelines for Wind Power Projects(2011)*
- *Bats and Bat Habitats: Guidelines for Wind Power Projects (2011)*

In addition, as noted in the Environmental Impact Study and MNRF's confirmation letter, commitments have been made to conduct post-construction monitoring should any pre-construction monitoring (outlined in the NHA and MNRF's confirmation letter) deem the identified wildlife habitat to be significant. These commitments will be included in the natural heritage section of the EEMP, part of the Design and Operations Report.

MNRF expects the information contained in the natural heritage section of the EEMP to be considered in the Ministry of Environment and Climate Change (MOECC) Renewable Energy Approval (REA) decision, and if approved, be implemented by the applicant.

If you have any questions please contact Jim Beal at jim.beal@ontario.ca or 705-755-1362.

Sincerely,

A handwritten signature in blue ink that reads "Kazia Milián".

Kazia Milián
Supervisor, Land Use Planning Unit
Southern Region Resources Section
Ministry of Natural Resources and Forestry

cc. Jim Beal, Renewable Energy Coordinator, Southern Region, MNRF
Mohsen, Keyvani, Environmental Approvals Branch, MOECC

From: [Van der Woerd, Mark](#)
To: Tammie.Ryall@ontario.ca
Cc: [NorthKent Wind \(info@northkentwind.com\)](mailto:info@northkentwind.com)
Subject: RE: Notice of Public Meeting North Kent Wind
Date: Wednesday, November 04, 2015 2:28:34 PM

Good afternoon Tammie,

I am emailing to ensure you were provided a response to your email below. The North Kent Wind 1 Project will be located primarily on privately owned land with some components (e.g., electrical collector lines) being placed along public right-of-ways (ROWs). The ROWs within the Project Study Area are predominately owned by the municipality with small portions located on Ontario Ministry of Transportation (MTO) property along provincial highways within the area. The Project is not located on Crown land.

Legal descriptions of the land parcels to be used for the Project are provided in Appendix A of the Draft Project Description Report which can be accessed via: www.northkentwind.com/project-documents

We invite you to attend our upcoming public meeting on November 5, 2015 from 5:00-8:00 p.m. at Country View Golf Course (25393 St. Clair Rd., R.R. #1, Dover Centre) to discuss the project in more detail.

Kind regards,

Mark

Mark van der Woerd
Senior Environmental Planner
AECOM | www.aecom.com
mark.vanderwoerd@aecom.com | P: 905.390.2003 | C: 289.439.9803
45 Goderich Road, Suite 201, Hamilton, ON L8E 4W8

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

From: Ryall, Tammie (MAH) [<mailto:Tammie.Ryall@ontario.ca>]
Sent: July-24-15 4:56 PM
To: info@northkentwind.com
Subject: Notice of Public Meeting North Kent Wind

Thank you for sending the notice of the public meeting (attached) Could you please clarify the first sentence of the third paragraph on page 1: "the proposed project is located on public and private land in the Municipality of Chatham-Kent."

Where is the public land and in what ownership is it? (Federal, Provincial or Municipal?)

Thanks so much, Tammie

Tammie Ryall, BES, RPP
Planner
Ministry of Municipal Affairs and Housing
659 Exeter Road, 2nd floor
London, ON, N6E 1L3
519-873-4031
Toll Free 1-800-265-4736

Subject: FW: RE: North Kent Wind 1 Project; NHA Addendum
Attachments: North Kent Wind 1 Project_Project_Location_Mods_20151027-1.pdf; NRSI_1612_North Kent Wind 1 Project_NHA Addendum I_2015_11_02.docx

Subject: RE: North Kent Wind 1 Project; NHA Addendum

Date: Mon, 9 Nov 2015 18:16:31 +0000

From: Lindenburger, Ruth (MNRF) <Ruth.Lindenburger@ontario.ca>

To: Pamela Hammer <phammer@nrsi.on.ca>

CC: Milian, Kazia (MNRF) <kazia.milian@ontario.ca>, Beal, Jim (MNRF) <jim.beal@ontario.ca>

Hi Pamela,

Based on the map you have provided (attached), we agree with your assessment that the proposed change to remove small portions of the construction disturbance area from the project layout will result in no changes to the information presented in the approved NHA.

Upon review of the modifications, MNRF is satisfied that the Natural Heritage Assessment requirements of Ontario Regulation 359/09 have been met. Please add this email as an addendum to the confirmation letter issued October 30, 2015 for the North Kent Wind 1 Project.

Thank you,

Ruth Lindenburger

Ruth Lindenburger
Regional Planner
Regional Resources Section | Southern Region
Ontario Ministry of Natural Resources & Forestry
705-755-1363

From: Pamela Hammer [<mailto:phammer@nrsi.on.ca>]

Sent: November 2, 2015 4:31 PM

To: Lindenburger, Ruth (MNRF)

Cc: Beal, Jim (MNRF); Andrew Ryckman; Becky.Grieve@aecom.com; Van der Woerd, Mark; Jody Law; Beatrice Ashby; Ariel Bautista; 'Hi Byun'

Subject: North Kent Wind 1 Project; NHA Addendum

Good afternoon Ruth,

Thank you for providing MNRF's confirmation letter for the North Kent Wind 1 Project on Friday. As part of this confirmation, a commitment was identified for the Proponent to inform the MNRF of any changes made to the Project that would alter the NHA.

As a result of archaeological findings within the Project Area, small portions of the construction disturbance area (CDA) have been removed from the Project layout, none of which require adjustments to the content of the NHA. The attached memorandum has been prepared to present and discuss the proposed changes to the Project

layout, which involve the removal (i.e. reduction) of the Project Area from the already approved CDA. No new or expanded CDAs are being proposed, nor do any of the proposed changes reflect new infrastructure within the already approved CDA, or any other change that might affect the information already presented in the approved NHA. A map showing the proposed removals from the Project layout is also attached for reference.

Given that the proposed minor changes have negligible impacts on the content of the NHA, it is expected that the current confirmation letter remains relevant and adequate to cover these proposed changes to the Project layout. As the Proponent will need to include any MNRF responses/approval with respect to these changes with their REA submission, it is requested that MNRF provide comments and/or approval by November 9th.

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

Thank you,

Pam

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